- 1 U.S. Department of the Interior
- 2 **Bureau of Land Management**
- 3 **Royal Gorge Field Office**
- 4 3170 E. Main Street
- 5 Canon City, CO 81212
- 6 7

ENVIRONMENTAL ASSESSMENT

8 9

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13

10 <u>NUMBER</u>: CO-200-2006-0086 EA

12 <u>PROJECT NAME</u>: Recreation – Arkansas River Travel Management Plan (TMP)

14 <u>PLANNING UNIT</u>: Arkansas River #1, Collegiate/Sangre #2, Badger Creek #3, Waugh

15 Mountain/Tallahassee Creek #6, Grape Creek #7, Other Lands #10

17 <u>APPLICANT</u>: BLM

18

16

19 SUMMARY DESCRIPTION OF THE PROPOSED ACTION: The Bureau of Land 20 Management (BLM) proposes amending the Royal Gorge Resource Management Plan (RMP) to 21 revise current travel management regulations for portions of the six Eco-Subregions included in 22 the Arkansas River TMP planning area. The TMP serves as the instrument for implementing 23 previous travel and transportation decisions included in the Royal Gorge RMP that direct BLM 24 to change Off-Highway Vehicle (OHV) designations used throughout most of the planning area 25 from the current system of Limited to Existing Roads and Trails to a new system of Limited 26 to **Designated Roads and Trails.** The primary TMP goals that would be achieved through the 27 proposed amendment and changes in OHV designations include: maintaining and improving 28 public land health; providing appropriate and reasonable access; and enhancing recreation 29 opportunities.

30

Under the RMP, the six affected Eco-Subregions contain three categories of OHV designations;
 Open, Limited, and Closed. These designations are used by BLM to establish where and to

32 **Open**, Limited, and **Closed**. These designations are used by BLW to establish where and to 33 what extent vehicular uses may occur on public lands (See Map 8, Map Appendix). **OHV Open**

areas are locations on public lands with no limitations or restrictions to full use and cross-country

34 areas are locations on public rands with no initiations of restrictions to full use and cross-cound 35 travel with OHVs. Three **OHV Open** areas currently exist within the Arkansas River TMP

36 planning area at Grand Canyon Hills, Texas Creek, and Sand Gulch, which includes Turkey

37 Rock. Under the Proposed Action (Alternative C) the **OHV Open** designations for the three

areas would be changed to **OHV Limited to <u>Designated</u> Roads, Trails, and Types of Vehicles**.

39 **OHV Closed** areas are locations on public lands where absolutely no use or travel with OHVs is

40 allowed. Four **OHV Closed** areas currently exist in the Arkansas River TMP planning area in

41 the Browns Canyon, McIntyre Hills, Upper Grape Creek, and Lower Grape Creek Wilderness

42 Study Areas (WSA's). A fifth area with WSA status, High Mesa Grassland RNA/ISA, is

43 currently designated **OHV Limited**. Under the Proposed Action all four WSAs that are currently

44 **OHV Closed** would continue to be designated and managed as **OHV Closed** areas. The High

45 Mesa Grassland RNA/ISA, currently designated OHV Limited, would be closed as well, thereby

46 assuring all WSA designated portions of the planning area are closed to OHV use.

2 full use and travel with OHVs (i.e., seasonally limited travel, restricting travel to existing roads 3 and trails or restricting to types of vehicles, only). Most of the public lands in the Arkansas 4 River TMP planning area occur within the designation, OHV Limited to Existing Roads and 5 Trails. The Proposed Action would further refine this designation to that of OHV Limited to Designated Roads, Trails and vehicular types. The Proposed Action would establish 6 7 designated travel routes for motorized, mechanized, and non-motorized uses and define the types 8 of uses that are permitted on individual roads and trails. Map 9 in the Map Appendix shows the 9 route designations for the Proposed Action alternative (Alternative C). The Proposed Action would also limit travel using bicycles and other muscle-powered mechanized equipment to designated roads and trails, and establish a maximum distance of 100 feet that motor vehicles may be driven off designated roads and trails for parking and camping. Driving motor vehicles off designated roads and trails for retrieving game would be prohibited. Under the Proposed Action, the boundaries between BLM and private lands would be managed in compliance with the guidelines contained in Instruction Memorandum (IM) CO-200-07-01, Royal Gorge Field Office – Guidelines for Managing Access between BLM and Private Lands. The IM establishes policies that limit motorized and mechanized uses that originate from

OHV Limited areas are locations on public lands with some form of limitation or restriction for

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20 adjoining private lands. Other than for foot and horse uses, entry to public lands from private

lands would have to comply with the designated transportation system and be limited to the same 21

22 means of travel that the general public uses from public access points. A copy of the IM

- 23 guidelines is included in Appendix 3.
- 24

25 During the inventory phase of the TMP, a number of county roads were identified in Fremont 26 and Chaffee County that provide important public access to BLM lands but that are not being 27 maintained by the counties. Under the Proposed Action, BLM would coordinate with both 28 counties to resolve this issue by either including the roads in county maintenance schedules, 29 vacating the county right-of-ways so that BLM can maintain them, or entering into agreements 30 under which BLM and the counties would exchange maintenance work so that the roads would 31 be maintained.

32

33 Under the Proposed Action, target shooting would be prohibited at Turkey Rock and in several

34 locations near the City of Salida to improve public safety and reduce conflicts with other uses

35 (See Map 7 in the Map Appendix). During public scoping for the TMP several organized groups

came forward with requests for new trails in the Texas Creek and Salida subunits. In considering 36

37 these requests, the BLM interdisciplinary team (ID team) identified a number of issues and

38 concerns related to the construction and maintenance of trails. These included concerns with the

39 conditions found on some existing trails due to poor trail design and the lack of adequate

40 maintenance of trails for controlling soil erosion and correcting unsafe conditions.

41

42 Due to the poor conditions found on some of the existing trails in the Texas Creek and Salida

areas, including some that were requested by user groups to be designated in the TMP, the ID 43

44 team concluded that a need existed for establishing guidelines and conditions under which the

construction of new or re-opening of old trails would be considered. As a result, the ID team 45

developed a set of guidelines and conditions that would need to be satisfied before the 46

- 1 construction of new trails or re-opening of old trails would be approved. Background
- 2 information pertaining to the requests and descriptions of the guidelines and conditions are found
- 3 in <u>Appendix 6</u>, <u>Requests for New Trails Texas Creek</u>, and <u>Appendix 7</u>, <u>Requests for New</u>
- 4 <u>Trails–Salida</u>.
- 5
- 6 Under the Proposed Action, approximately 3 miles of additional ATV/motorcycle trails would be
- 7 approved for construction and reconstruction in the Texas Creek subunit, and approximately 20
- 8 miles of foot/horse/bicycle trails would be approved for construction and reconstruction in the
- 9 Salida subunit. Actual construction and reconstruction work would be subject to the conditions
- 10 and guidelines outlined in <u>Appendix 6</u> and <u>Appendix 7</u>.
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21		
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1	ACRONYMS	USED IN THIS DOCUMENT:
2		
3	ACEC	Area of Critical Environmental Concern
4	ATV	All Terrain Vehicle
5	BLM	Bureau of Land Management
6	CNHP	Colorado Natural Heritage Program
7	CR	County Road
8	DFC	Desired Future Condition
9	DOW	Colorado Division of Wildlife
10	EA	Environmental Assessment
11	4WD	Four-wheel drive vehicle
12	GIS	Geographic Information System
13	GPS	Global Positioning Satellite
14	ISA	Instant Study Area
15	MO	Management Objective
16	NNL	National Natural Landmark
17	OHV	Off-Highway Vehicle
18	RMP	Resource Management Plan
19	RNA	Research Natural Area
20	ROS	Recreation Opportunity Spectrum
21	RGFO	Royal Gorge Field Office
22	TMA	Travel Management Area
23	TMP	Travel Management Plan
24	T&E	Threatened & Endangered Species
25	WAPA	Western Area Power Administration
26	WSA	Wilderness Study Area

1 ISSUES AND CONCERNS: The Royal Gorge Field Office is responsible for identifying the 2 issues and concerns addressed in the environmental assessment (EA). Issues and concerns were 3 identified through a combination of public scoping, coordination with other government 4 agencies, and internal scoping of BLM management issues. 5 6 During the scoping phase of this EA, public meetings were held and news releases and other 7 scoping methods were employed that generated hundreds of letters and emails from interested 8 users and stakeholders. These letters and emails were analyzed by BLM to identify the pertinent 9 issues and concerns for the Arkansas River TMP planning area. A summary of all of the issues 10 and concerns contained in the written responses is included in Appendix 1. 11 12 In addition to the written comments, BLM personnel met and communicated with individuals 13 and representatives who chose to be more actively involved in this planning effort, including: 14 representatives of environmental organizations such as: the Rocky Mountain Recreation Initiative, Colorado Mountain Club, Sierra Club, and Audubon Society; representatives of 15 16 motorized recreation groups, including the Colorado Motorized Trails Association, Rocky Mountain Trials Association, the Colorado Off-Highway Vehicle Coalition, and local ATV and 17 4WD clubs; and representatives of non-motorized users, including the Backcountry Horsemen of 18 19 America, and local hikers and bicycle users affiliated with the Salida Mountain Trails Park 20 Committee. Affected holders of grazing permits and rights-of-way (power transmission lines, 21 irrigation ditches, radio towers, etc.) were also contacted to identify their access needs. The 22 issues and concerns that have been carried forward for this environmental assessment (EA) are 23 organized into four categories: A - Regional Issues and Concerns; B - Local Issues and 24 Concerns; C - Special Requests and Proposals from User Groups, and; D - BLM Management 25 Issues and Concerns. 26 27 A - Regional Issues and Concerns 28 29 As a result of public scoping and involvement, 4 key issues and concerns were identified that 30 apply regionally across the Arkansas River TMP planning area. 31 32 A-1. Improving Access to Public Lands and Increasing Recreation Opportunities – A large 33 number of responses included concerns about the need for improving access and increasing 34 travel opportunities to better serve various types of recreation uses. Many called for increasing 35 the number of trails available for specific types of motorized, mechanized, and non-motorized 36 uses. 37 38 A-2. Reducing Damage to Natural Resources and the Environment – A large number of 39 responses included concerns about the adverse impacts that various recreational travel uses are 40 having on the natural resources; especially to wildlife, riparian habitat, and water quality. Many 41 advocated limiting access and travel uses to better protect and benefit the health of the public 42 lands. 43 44 A-3. Reducing Conflicts and Impacts on Other Uses - A large number of responses included concerns about the conflicts and impacts that OHVs have upon other uses, including conflicts 45 46 with quiet recreational activities such as camping and hiking, livestock grazing, and illegal

1 motorized travel in Wilderness Study Areas. Many voiced a need to implement travel

- 2 management actions to reduce or eliminate these conflicts.
- 3

4 A-4. Managing Growing Amounts of Recreation Use - A large number of responses included 5 concerns about the increased impacts that future growth of the regional population could have on 6 the health of the public lands and the ability of BLM to adequately meet and manage ever-7 increasing demands for OHV uses. Some advocated that more roads and trails for OHVs should be provided as a means for reducing crowding and to better meet the growing demands of OHV 8 9 users. Others argued that the use of OHVs should not be allowed to expand but should be 10 limited as a means for better protecting public land health and preventing conflicts with other 11 uses.

12

13 B – Local Issues and Concerns

14

An important initial step in the TMP process was to divide the Arkansas River planning area into smaller geographic divisions called subunits. Subunit divisions were used to identify local issues and concerns to ensure that the special qualities and travel use opportunities that exist in different portions of the planning area were considered in the analysis.

19

20 Subunits are smaller divisions of the planning area that possess distinctive or common physical

- 21 characteristics or where special management issues exists that affect how OHV uses are
- 22 managed. Numerous factors were considered for establishing the boundaries of the individual
- 23 subunits. In some cases subunits were established to recognize access limitations that affect how
- 24 OHVs are managed, such as areas that include large tracts of public lands that are blocked off by
- 25 private lands that prevent or limit legal public access, or where topographic features form natural
- barriers and prevent or limit the use of OHVs on adjoining public lands. Subunit divisions were also based on other factors, including: recognizing the existence of classified special
- 27 also based on other factors, including, recognizing the existence of classified special management areas where the use of OHVs is restricted or prohibited, such as Wilderness Study
- Areas (WSAs) and Areas of Critical Environmental Concern (ACECs); identifying areas
- 30 containing important or sensitive resources that could limit OHV activities, including the
- existence of threatened and endangered species; recognizing areas where specific kinds of
- 32 recreational uses are already well established.
- 33

A total of 14 subunits were defined for the Arkansas River TMP. See Map 1 in the Map

Appendix for the locations of the sub-units. The issues and concerns for all 14 subunits are too numerous to list here but descriptions of the subunits, including the identified issues and

- 37 concerns for the respective subunits, are contained in <u>Appendix 2</u>.
- 38
- 39 C Special Requests and Proposals from User Groups
- 40

During the initial scoping phase of the TMP several user groups submitted requests for additional
 trails and other management considerations.

- 43
- 44 C-1. <u>Request for Additional Areas for Holding Trials Events</u> Trials events are contests in
- 45 which riders of specialized motorcycles test their skills on a series of narrow courses through
- 46 boulders and other natural obstacles. The motorcycles used for this type of riding are fitted with

special low pressure tires and are geared to allow contestants to "crawl" their machines through the course at very slow speeds. The object of the contest is to maneuver within the narrow course boundaries without falling over or having to place the feet on the ground to maintain balance. Trials events are authorized under BLM special recreation permits (SRP) that include stipulations for preventing or minimizing resource damage.

6

7 The Rocky Mountain Trials Association (RMTA) has been sponsoring and holding trials events 8 on public lands within the Royal Gorge Field Office since 1982. RMTA has requested that the 9 three existing areas where trials events have historically been permitted continue to be available 10 and that additional sites be considered for future use. RMTA contends that any environmental damage resulting from the events is minimal because the contests are held mostly on rocky 11 12 terrain and the motorbikes are operated at very slow speeds. Opponents have expressed concerns 13 that the events cause considerable amounts of damage to vegetation and soils and encourage 14 OHV users to ride off designated travel routes. Maps depicting the locations where trials events

15 have been held in the past are included in the Map Appendix, Map 2.

16

17 C-2. Request for Open Areas for Trials Bikes – In addition to their request to use current and additional areas for holding authorized trials events, RMTA has also asked that Turkey Rock and 18 19 Reese Gulch be designated as open trials motorcycle bike riding areas. Under this request BLM 20 43 CFR 8340 allows for such areas to be designated as **Open** for all types of OHV's or **Limited** by vehicle types, such as trials bikes. RMTA contends that open areas are needed to provide 21 22 opportunities for trials bike riders to practice and improve their riding skills, and that the nature 23 of the sport does not lend itself to being restricted to designated routes. Opponents have 24 expressed that the designation of open riding areas would result in considerable amounts of damage to vegetation and soils and would be inconsistent with decisions included in the Royal 25 26 Gorge Field Office RMP to limit the use of all OHVs to designated routes. Maps of the locations 27 of the requested trials bike practice areas are included in the Map Appendix, Map 3 and Map 4.

28

C-3. <u>Request for Additional ATV and Motorcycle Routes</u> - The Colorado Motorcycle Trail
Riders Association (CMTRA) has submitted a request for seven trails involving the Texas Creek,
Red Gulch, and Big Hole subunits. Five of the proposed trails would be for ATVs and

32 motorcycles and two would be just for motorcycles. Six of the trails, five ATV and one single-

track, would involve re-opening trails that were closed under an environmental assessment that

34 was done in 1999. The remaining proposed single-track motorcycle trail would require new

35 construction in an area that currently has no existing trails.

36

37 CMTRA contends that the additional trails are needed to provide more opportunities and

38 experiences for users of ATVs and motorcycles. Opponents argue that some of the trails would

39 adversely affect soils and water quality and would expand OHV activities into areas containing

40 valuable wildlife habitat. Map 5 in the Map Appendix shows the locations of the trails included

- 41 under CMTRA's request.
- 42

43 C-4. <u>Request for Trail Improvements and New Trails for Mountain Biking and Hiking</u> - The

44 Salida Mountain Trails Park Committee (SMTPC), with the support of several other community-

- 45 based organizations, submitted a proposal for expanding and improving the available network of
- 46 community trails that extend from the city of Salida onto nearby BLM and Forest Service lands.

1 SMTPC contends that improvements of existing trails and the construction of new trails are

2 needed to better meet community demands for hiking and mountain biking, as well as for

3 stimulating the local economy. Opponents argue that some of the trails would adversely affect

soils and water quality and would expand human traffic into areas containing valuable wildlife
habitat. Map 6 in the Map Appendix shows the locations of trails included under SMTPC's

5 habitat. Map 6 in the Map Appendix shows the locations of trails included under SMTPC's 6 proposal.

6 7

8 D - BLM Management Issues and Concerns

9

D - <u>BLM Management issues and Concerns</u>

In addition to the issues and concerns that were identified by the public and that were involved in the requests from users, several other travel management issues were identified by BLM. These issues are summarized below.

12

14 D-1. <u>Managing Access Between Private and Public Lands</u> – Managing access between BLM

15 public lands and adjoining private lands is a problematic issue that affects BLM, adjoining

16 private landowners, and the public. Private landowners often experience increased incidences of

17 trespass from users seeking access to adjacent BLM public lands or who cross onto private lands

18 from adjacent public lands. This often arises because the public is unclear about the location of

19 the public land boundaries. On the other hand, adjoining private landowners often want to

20 access public lands but may be prevented by fences or locked gates.

21

22 As large tracts of ranch lands have been subdivided and developed for mountain home

23 properties, BLM has observed a substantial increase in the number of roads and trails leading

from private lands onto the adjoining public lands. Fences have been breached or gates installed

25 in government-owned fences without authorization. This often results in the proliferation of

26 unauthorized travel routes, increased impacts on natural resources, increased user conflicts, and

27 compromises BLM's management activities such as livestock grazing. Equity issues among

28 public land users also arise when access for motorized travel uses is occurring on BLM lands

- 29 from private lands that are not available to the general public.
- 30

31 D-2. <u>Managing Off-road Travel for Parking, Camping, and Game Retrieval</u> – The distance that

32 OHVs are currently permitted to drive off existing or designated roads for parking, camping and

33 game retrieval is 300 feet. This regulation applies across most of the BLM public lands and

National Forest lands in the state, with the exception of developed recreation facilities and other

35 areas of concentrated use where parking or camping is restricted to designated parking areas and 36 camping spurs.

36 car 37

38 With increased amounts of use, concerns have been raised that the long-standing 300-foot

39 regulation is outdated and contributes to the establishment of unauthorized OHV routes. The US

40 Forest Service is currently proposing restrictions for parking and camping in its Travel

41 Management Rule which would apply to all National Forests. Colorado BLM is considering

42 establishing restrictions consistent with the US Forest Service Rule.

- 1 D-3. Limiting the Use of Mountain Bikes to Designated Routes - Mountain bikes are currently 2 allowed to be ridden off existing travel routes. Experience in other BLM areas has shown that 3 off-road/trail impacts from mountain biking can be substantial, causing soil erosion, damage to 4 riparian areas, fragmenting of wildlife habitat, and conflicting with other users. 5 6 D-4. <u>Managing Target Shooting</u> – Recreational target shooting is recognized as a legitimate use 7 for most public lands; however, in areas where target shooting is concentrated excessive resource 8 damage and serious conflicts with other uses often occur. Recreational target shooting within 9 some portions of the Arkansas River TMP area has been identified as an issue related to travel 10 management. The specific concerns related to target shooting include: 11 12 Resource Damage: Concentrated target shooting areas result in high levels of damage and 13 impacts. Direct impacts associated with these areas are the shooting of trees and rocks and soil 14 contamination from lead bullets. The indirect impacts include: litter, new route proliferation, vandalism, illegal dumping and other illegal activities. These areas require more clean-up efforts, 15 16 monitoring and law enforcement presence, and user education efforts than areas where 17 concentrated target shooting does not occur. 18 19 Safety: As visitation increases among all types of recreational users, so do the conflicts between 20 user groups. In crowded areas, shooting increases conflicts among users and threatens user safety. Recreationists and nearby landowners have concerns for their personal safety, as well as 21 22 damage to property. 23 24 Noise: Repetitive noise from concentrated target shooting areas creates an impact on all other 25 recreational activities and to the quality of life for nearby residents. 26 27 Exclusive use: Exclusive use is created as target shooting becomes concentrated and displaces 28 other recreation users from the area. Many other types of recreational users, such as hikers and 29 mountain bikers, tend to avoid these areas because of the continuous noise of gunfire and 30 concerns for their own personal safety. 31 32 Within the Arkansas River TMP planning area, several concentrated target shooting areas have 33 been identified in the Badger Creek and Salida Subunits where conflicts with other uses are 34 occurring. 35 36 D-5 Providing Adequate Maintenance of High-Use Trail Systems - In addressing the requests 37 for new trails in the Texas Creek and Salida subunits the BLM interdisciplinary team (ID team)
- 38 identified a number of issues and concerns related to the construction and maintenance of trails.
- 39 These included concerns with the conditions found on some of the existing trails due to poor trail
- 40 design and inadequate maintenance for controlling soil erosion and correcting unsafe conditions.
- 41 Due to the poor conditions found on many of the existing trails in high-use areas such as Texas
- 42 Creek and Salida, the ID team identified a need for increasing maintenance frequency and
- 43 reconstruction efforts to relocate sections of trail that cannot be properly maintained.

1 D-6 Amending the Royal Gorge RMP to Change the OHV Designation of High Mesa Grassland 2 RNA/ISA - Management of WSAs and ISAs is guided by BLM's Interim Management Policy 3 for Lands Under Wilderness Review (IMP). The IMP provides direction to BLM to maintain the 4 wilderness values of these areas until Congress either designates these lands as wilderness or 5 releases them for other purposes. In the course of confirming the accuracy of land status and special classifications for the TMP it was discovered that the High Mesa Grassland Research 6 7 Natural Area had been designated as an Instant Study Area (ISA); a special land classification 8 that resulted from the Federal Land Policy and Management Act of 1976 directing accelerated 9 wilderness review for natural areas and primitive areas that were formally identified prior to 10 November 1, 1975. These areas are referred to as Instant Study Areas and qualify for management in accordance with BLM's IMP for Lands Under Wilderness Review. In 11 12 complying with IMP direction, all of the WSAs in RGFO were designated as OHV Closed areas 13 in the Royal Gorge RMP except High Mesa Grassland RNA/ISA, which was overlooked when 14 the RMP was prepared. To ensure compliance with IMP direction and consistency with the OHV designations that apply to other WSAs throughout RGFO, amendment of the RMP would 15 16 be needed to change the OHV designation of the High Mesa Grassland RNA/ISA from its current designation of OHV Limited to OHV Closed. 17 18 19 D-7 Maintenance of County Roads - During the inventory phase of the TMP, a number of 20 county roads were identified in Fremont and Chaffee County that provide important public access to BLM lands but that are not being maintained by the counties. Because these roads 21 22 provide important public access to high use areas on public lands, there is a need for the roads to 23 be maintained. However, because BLM does not have legal authority to spend Federal dollars 24 on maintaining county roads, it cannot maintain the roads in question. BLM proposes 25 coordinating with both counties to resolve this issue by either including the roads in county 26 maintenance schedules, vacating the county right-of-ways so that BLM can maintain them, or 27 entering into agreements under which BLM and the counties would exchange maintenance work 28 so that the roads would be maintained. 29 30 DESIRED FUTURE CONDITIONS: Desired Future Conditions (DFC) are vision statements that describe the major goals of the TMP and that directly respond to the major issues and 31 concerns that were identified through public involvement. The following DFCs define the 32 33 overall goals for the Arkansas River TMP and respond specifically to the Regional Issues and 34 Concerns described on pages 2 and 3. 35 36 **MAINTAIN AND IMPROVE PUBLIC LAND HEALTH** – Environmental impacts 1. 37 resulting from access and travel uses on the public lands are improving or moving towards being 38 in compliance with the Public Land Health Standards. (Responds to Issues A-2, A-4) 39 40 ENHANCE RECREATION OPPORTUNITIES - Access and travel uses on the public 2. lands are improving or moving towards being in compliance with the Recreation Management 41 Guidelines for Meeting Public Land Health Standards and other applicable recreation 42 management planning documents. User conflicts and safety issues are satisfactorily resolved. 43 44 (Responds to Issues A-1, A-3, A-4) 45

PROVIDE APPROPRIATE AND REASONABLE ACCESS - The public lands are 1 3. 2 served by an effectively managed and maintained system of roads and trails that provides access 3 and travel opportunities for legitimate recreational and non-recreational purposes for motorized, 4 mechanized and non-motorized users. (Responds to Issues A-1, A-2, A-4)

5

6 In addition to the overall goals for the entire planning area, DFCs and Management Objectives

- 7 (MO) were developed for each of the 14 subunits. Subunit DFCs and MOs are located in
- 8 Appendix 2.
- 9

10 **INTRODUCTION**

11

12 PURPOSE AND NEED FOR THE ACTION:

- 13 The purpose of the action is to establish a *designated route system** in the Arkansas Travel
- 14 Management Planning Area. The proposed designated route system is required by the Royal
- Gorge Field Office Resource Management Plan (RGFO RMP). The RGFO RMP specifically 15
- 16 states that "All BLM administered lands in all eco-subregions will be formally designated in the
- 17 Federal Register." The proposed travel management decisions will adhere to Instruction
- Memorandum No. CO-2007-0020 and 43 CFR 8340, respectively. BLM policy for managing 18
- 19 public lands is based on the <u>BLM Colorado Standards for Public Land Health</u> and the <u>Recreation</u>
- 20 Management Guidelines to Meet Public Land Health Standards on BLM Lands in Colorado.
- 21 Under this policy, BLM manages the public lands in conformance to the standards and
- 22 guidelines outlined in these documents, and must take appropriate actions when public land
- 23 health standards are not being met.
- 24
- 25 During scoping and development of the Royal Gorge RMP, the proliferation of new roads and
- 26 trails created by the use of OHVs and the resulting impacts on the various natural resources were
- 27 identified as major threats to the health of the public lands. Thus, the need for the action to abate
- 28 route proliferation and the environmental impacts on public lands resulting from increased
- 29 amounts of travel and transportation uses was identified and the decision to move towards
- 30 limiting OHVs to designated routes was included in the RMP (approved May 13, 1996).
- 31 Through the implementation of the Royal Gorge RMP OHV recommendations the following desired future conditions will be accomplished: maintaining and improving public health,
- 32 33 enhancing recreational opportunities and providing appropriate and reasonable access.

34

35 In responding to this need, BLM proposes implementing the decision to manage off-highway

vehicle use as outlined in the Royal Gorge RMP and 43 CFR 8340, which would establish a 36

37 designated route system* on resource area lands. In addition, the action would limit mountain

- 38 bikes to designated routes, as well as accomplishing other area-specific goals and objectives that 39 were identified through public scoping.
- 40
- 41 *Designated route system refers to the method of managing the transportation network in which
- the individual roads and trails are limited to specific modes of travel, and that are identified on 42
- travel maps and posted on the ground with signs. Under the current travel management system, 43
- 44 OHVs are permitted to operate on all existing roads and trails except for those routes that have
- 45 been posted as closed to motorized use. Under a <u>designated</u> travel management system, OHVs

would be limited to operating on roads and trails that are identified on travel maps and/or
 posted as routes that are available for specified types of motorized uses.

3 4 5

> 6 7

8 9 <u>PLAN CONFORMANCE REVIEW</u>: The Proposed Action and alternatives are subject to and have been reviewed for conformance with the following plan (43 CFR 1610.5, BLM 1617.3):

- Name of Plan: Royal Gorge Resource Management Plan
- Date Approved: 05/13/96

10 11 Decision Number: 1-10, 1-16, 1-17, 1-18, 1-24, 1-25, 1-30, 1-46, 1-47, 1-50, 1-51, 1-55, 12 1-56, 1-66, 1-67, 1-68, 1-69, 1-70, 1-71, 1-72, 1-73, 1-74, 1-75, 1-77, 1-79, 1-80, 1-82, 1-83, 1-13 84, 1-85, 1-86, 2-1, 2-9, 2-11, 2-15, 2-16, 2-17, 2-18, 2-22, 2-23, 2-25, 2-26, 2-28, 2-29, 2-30, 2-14 42, 2-43, 2-47, 2-48, 2-55, 2-56, 2-57, 2-58, 2-59, 2-60, 2-61, 2-62, 2-63, 2-64, 2-66, 2-67, 2-68, 2-69, 2-71, 2-72, 2-73, 3-1, 3-9, 3-11, 3-15, 3-16, 3-17, 3-18, 3-23, 3-24, 3-36, 3-37, 3-40, 3-41, 15 16 3-54, 3-55, 3-56, 3-58, 3-59, 3-60, 3-61, 3-63, 3-64, 3-65, 6-1, 6-8, 6-14, 6-15, 6-16, 6-17, 6-22, 6-23, 6-25, 6-26, 6-28, 6-29, 6-30, 6-41, 6-42, 6-54, 6-55, 6-56, 6-57, 6-58, 6-60, 6-61, 6-62, 6-17 18 63, 6-65, 6-66, 6-67, 6-69, 6-70, 6-71, 6-72, 7-1, 7-10, 7-12, 7-16, 7-17, 7-18, 7-19, 7-24, 7-25, 19 7-27, 7-28, 7-29, 7-42, 7-43, 7-46, 7-47, 7-48, 7-51, 7-52, 7-59, 7-60, 7-62, 7-63, 7-64, 7-65, 7-20 66, 7-67, 7-68, 7-69, 7-71, 7-72, 7-73, 7-74, 7-76, 7-77, 7-78, 7-80, 10-1, 10-8, 10-14, 10-15, 10-20, 10-21, 10-23, 10-39, 10-40, 10-52, 10-53, 10-54, 10-55, 10-56, 10-57, 10-58, 10-61, 10-62, 21 22 10-64, 10-65, 10-66

23

24 <u>Standards for Public Land Health</u>: In January 1997, Colorado BLM approved the Standards for

- Public Land Health. These standards cover upland soils, riparian systems, plant and animal
 communities, threatened and endangered species, and water quality. Standards describe
- 27 conditions needed to sustain public land health and relate to all uses of the public lands. Because
- 27 conditions needed to sustain public rand nearly and relate to an uses of the public rands. Because 28 a standard exists for these five categories, a finding must be made for each of them in an
- 29 environmental analysis. These findings are located in specific elements listed below.
- 30 RELATIONSHIP TO STATUTES, REGULATIONS OR OTHER PLANS: This TMP is an
- 31 implementing action for the OHV route designation decisions made in the Royal Gorge RMP.
- 32 In addition, coordination was completed with the US Forest Service for consistency with the
- 33 Forest Plan for the Pike and San Isabel National Forests.
- 34

35 Other statutes, regulations or plans were also identified and reviewed for consistency with this

- 36 TMP, including: Standards for Public Land Health in Colorado; Recreation Management
- 37 Guidelines to Meet Public Land Health Standards on Bureau of Land Management Lands in
- 38 Colorado; Executive Order 11644 Use of off-road vehicles on public lands; Code of Federal
- 39 Regulations (43 CFR Part 8340); H-1601-1, Land Use Planning Handbook Appendix C,
- 40 Section D; National Management Strategy for Motorized Off-Highway Vehicle Use on Public
- 41 Lands; National Mountain Bicycling Strategic Action Plan; and Colorado BLM Travel
- 42 Management Guidance.
- 43

1 PROPOSED ACTION AND ALTERNATIVES

3 <u>BACKGROUND/INTRODUCTION</u>:

4 5 LOCATION AND SETTING OF THE TMP PLANNING AREA: Map 1 in the Map Appendix 6 displays the boundaries of the Arkansas River TMP planning area. The planning area covers the 7 public lands included within the 75 mile-long Arkansas River corridor located between Canon 8 City and Buena Vista, Colorado. The planning area involves portions of Fremont, Chaffee, and 9 Custer Counties and encompasses approximately 531,736 acres of mixed private, state, and 10 federal ownerships, including 240,555 acres of BLM public lands. Decisions resulting from this 11 TMP apply only to the BLM public lands. 12 13 The following communities are contained within or near the TMP planning area, which are also 14 displayed on Map 1: Buena Vista (not shown on map), Canon City, Coaldale, Cotopaxi,

15 Howard, Poncha Springs, Salida, Silver Cliff, Wellsville, and Westcliffe. In addition to these

16 cities and small towns, numerous residential and summer home subdivisions are scattered

17 throughout or occur near the planning area. The locations of these subdivisions are shown on

18 Map 10 in the Map Appendix. According to US Census data for 2004, approximately 68,176

19 people reside in the three counties affected by the TMP: Fremont (47,413), Chaffee (16,922),

- 20 Custer (3,841).
- 21

2

22 Other important features contained in or near the planning area include: Arkansas Headwaters

Recreation Area, Royal Gorge Bridge and Park, DeWeese Reservoir, Arkansas Canyonlands
 ACEC, Browns Canyon ACEC, Grape Creek ACEC, High Mesa Grasslands Research Natural

Acted, Browns Carlyon Acted, Grape Creek Acted, High Wesa Grassiands Research Natura Area and Instant Study Area (RNA-ISA), Browns Canyon WSA, Upper Grape Creek WSA,

26 Lower Grape Creek WSA, McIntyre Hills WSA, and adjoining National Forest lands.

27

28 The Arkansas River is a major tourist attraction for whitewater sports and trout fishing, and

29 draws hundreds of thousands of visitors annually. In 2005 the Arkansas River was visited by

30 758,032 people that included 301,307 boaters, making it the most heavily used river in the world

- 31 for whitewater rafting and kayaking.
- 32

33 Topography, vegetation, and climatic conditions vary throughout the planning area. Relatively

34 mild winter conditions allow year round vehicular and non-motorized use of most of the BLM

- 35 lands that occur within the planning area. The lack of heavy snowfall excludes snowmobiling
- 36 and other winter sports activities as a significant use of the public lands in the TMP planning
- area. Summer months are typically very warm and dry and the winters are characteristically mild
- 38 with little or no snowfall accumulation. Cooler and wetter climatic conditions occur at higher

39 elevations. Elevations range from a maximum of 10,264 feet near Jack Hall Mountain to a

40 minimum of 5,357 feet on the Arkansas River at Canon City. Average amounts of precipitation

range from 8-14 inches per year for elevations below 9,000 feet, and 16-20 inches above 9,000
feet.

42 f 43

44 Additional information on the physical characteristics of the planning area is included in the

45 individual subunit descriptions (See Appendix 2).

1	ANALYSIS METHODOLOGY AND OTHER CONSIDERATIONS: This section explains the
2	procedures, methods, and other considerations that were utilized in the planning process to
3	develop, analyze and compare alternatives.
4	
5	1. TRENDS AND ASSUMPTIONS: The following trends and assumptions were considered in
6	evaluating and comparing the environmental and social effects that would result from different
7	levels of OHV use under the various travel management alternatives.
8	
9	 Traffic levels on roads and trails will increase
10	 Residential development of lands adjacent to BLM lands will increase.
11	 Road densities within private lands will increase.
12	• As more and more private lands are developed for residential uses, wildlife will become
13	increasingly more dependent on BLM lands for meeting habitat needs.
14	• Demands for all types of recreation uses will increase.
15	• Without adequate maintenance, soil erosion from roads and trails will continue to
16	increase.
17	• Conflicts between competing recreation uses will increase.
18	• Advances in technology will produce mechanized and motorized vehicles that will enable
19	people to go places where they could not go before.
20	• Technological advances in GPS, computerized mapping applications, and wireless
21	communications will result in increased off-trail exploration of inaccessible areas.
22	 Areas providing solitude and low levels of use will decrease.
23	• Illegal activities will increase (dumping, off road travel, theft of forest products, fire
24	violations, drug labs, vandalism, etc.)
25	• Costs for law enforcement and travel management compliance will increase.
26	• Costs of maintaining roads and trails will increase.
27	• Parking at trailheads will become more congested.
28	• Successful management of roads and trails will be dependent on BLM having adequate
29	funding and staffing.
30	• Narrow trails do not disturb as much surface area as wide trails; displacing less
31	vegetation and resulting in less soil loss.
32	• Existing trails that are closed to wide 4-wheeled vehicles are able to grow more
33	vegetation and will naturally reclaim themselves over time.
34	• Traffic is gradually confined to a narrower travel way that results in decreased amounts
35	of vegetation and soil loss.
36	 Motorized access provides more opportunities for dispersed camping, target shooting,
37	and hunting than non-motorized access.
38	 Increased human activity increases the potential for man-caused wildfires.
39	• Damage to soils and vegetation is worse during wet periods when ground conditions are
40	soft and muddy, or when snow makes it more difficult to stay on existing routes.
41	• The degree to which travel related activities adversely affects wildlife is directly related
42	to the type and amount of traffic that occurs on the travel routes. High amounts of traffic
43	disrupt wildlife more than low traffic levels; uses that produce high noise levels disrupt
11	wildlife means them aviet uses

44 wildlife more than quiet uses.

- The degree to which travel related activities adversely affects soil stability, vegetation, and water quality is directly related to the type and amount of traffic.
 - Routes with high levels of surface disturbing traffic cause more erosion, vegetation damage, and stream sedimentation than routes with low traffic levels and require more maintenance to control erosion.
- 5 6 7

1

2

3 4

> 2. SCALES OF ANALYSES: The travel management assessments for the Arkansas River TMP utilized an ecosystem management approach that considered a range of geographic scales of analysis, including Regional, Planning Area, Watershed, and Subunit geographic settings.

9 10

8

REGIONAL ANALYSIS - The regional analysis responded to the need to identify the origins 11 of the affected users and the locations of existing recreational travel opportunities that surround 12 13 the Arkansas River TMP planning area. The regional scale provided a "big picture" setting for 14 the project. It was used to compare the unique qualities and recreational travel opportunities that 15 are found in the Arkansas River planning area with those qualities and opportunities that occur in other parts of the region. The regional analysis produced the following information and 16 conclusions that guided the development and analysis of the alternatives that were considered in 17 18 the TMP. A map of the region (Map 11) showing the affected population centers and locations 19 of existing recreational travel opportunities is located in the Map Appendix.

20

21 Origins of affected users - The populations most affected by the TMP decisions reside in Buena 22 Vista, Canon City, Coaldale, Cotopaxi, Howard, Poncha Springs, Salida, Silver Cliff, Swissvale, 23 Wellsville, Westcliffe, and other smaller communities, residential subdivisions, and ranches 24 scattered throughout the immediate planning area. Many users also originate from large 25 population centers located outside of the immediate planning area, including Pueblo, Colorado

26 Springs, and the Denver metro area.

27

28 Existing recreational travel opportunities - Numerous federal, state, county, city, and 29 community lands are scattered throughout the region that provide a wide variety of recreational 30 travel and use experiences that are available to the public. Numerous motorized recreational

- 31 routes are available in other parts of the region that are not available or only found in limited
- 32 amounts within the Arkansas River planning area. Over 1,500 miles of 4WD, ATV, and 33 motorcycle routes occur on BLM and National Forest lands in the vicinity of the planning area,
- 34 including: Texas Creek Travel Management Area, Captain Jack Trail System, Temple
- 35 Mountain, Four Mile Trail Travel Management Area, Penrose Trail System, Corral Creek,
- 36 Rampart Range and Divide Trail Systems, and numerous trails on the San Carlos, Salida, and
- Leadville Ranger Districts, including Tanner Trail and the Rainbow Trail. An abundance of 37
- 38 bicycle, horse, and hiking trails also occur throughout the region.
- 39
- 40 **PLANNING AREA ANALYSIS** - An analysis was conducted at the planning area scale to respond to the need to identify the important qualities and recreation travel opportunities that 41 42 exist within the immediate Arkansas River planning area. When combined with the information 43 and conclusions that resulted from the regional analysis, the planning area analysis was used to
- 44 guide the development of a travel management alternative that would respond to both local and
- 45 regional needs for maintaining ecosystem health and providing recreation travel opportunities.

1 The combined regional and planning area assessments yielded the following information and 2 conclusions.

3

4 General characteristics of the existing transportation system - An inventory of the existing 5 transportation system was conducted as part of the planning area analysis. A total of 661 miles 6 of existing roads and trails were inventoried on BLM public lands within the planning area that 7 included 112 miles of federal, state, and county highways on public lands, and 549 miles of 8 roads and trails that are managed by BLM.

9

10 Within the planning area, the majority of the existing BLM-managed routes are primitive roads that were created for mining, ranching, removing (chaining) dense stands of pinyon-juniper 11 12 forests, and for constructing storm water retention dams. Few of these roads were developed 13 with recreation uses in mind and many were not designed or engineered for sustained motorized 14 travel. Many were intended for temporary access and have either become completely or partially

- 15 overgrown with vegetation.
- 16

17 Very few constructed single-track trails occur in the area. Most single-track routes were created

18 along drainage bottoms by livestock, which are also used by people for hiking, horseback riding,

19 and accessing areas with OHVs. Many trails that were originally single-tracks have been

- 20 widened by ATV use.
- 21

22 Land ownership patterns - The potential for increasing and enhancing recreational travel 23 opportunities is limited by land ownership patterns in many parts of the planning area. The BLM

24 lands in the area consist of scattered blocks of varying sizes that are separated by surrounding

25 private lands. The scattered nature of the BLM lands severely limits the opportunities for

26 developing new travel routes and loops that provide full-day or half-day recreation experiences.

27

28 **Classified special management areas -** The potential for increasing and enhancing recreational

29 travel opportunities is also constrained by existing classified special management areas,

30 including Arkansas Canyonlands ACEC, Browns Canyon ACEC, Grape Creek ACEC, Droney Gulch ACEC (adjacent to the planning area), High Mesa Grassland RNA/ISA, Browns Canyon 31

32 WSA, Upper Grape Creek WSA, Lower Grape Creek WSA, and McIntyre Hills WSA. The

33

existence of these special management areas places limits on where travel routes and motorized 34 uses can be allowed. The locations of the various special management areas are shown on Map

35 18 in the Map Appendix.

36

37 **Major attractions -** The planning area includes unique features that set the area apart from other 38 parts of the regional setting (See Map 15). The Arkansas River stretches through the center of 39 planning area and attracts hundreds of thousands of visitors annually, including local and

40 regional residents and out-of-state tourists. The Arkansas Headwaters Recreation Area provides

41 developments along the river for camping, picnicking, boating access, fishing access, and

wildlife viewing. The Browns Canyon, McIntyre Hills, and Upper and Lower Grape Creek 42

WSAs are rugged and sparsely trailed blocks of public lands that contain important natural 43

44 resources and provide high amounts of solitude and challenge. The Sangre De Cristo Wilderness

45 on the San Isabel and Rio Grande National Forests is also a major attraction that draws thousands

of visitors into the TMP planning area. The need to protect the unique resources and preserve 46

- the qualities of these attractions was an important consideration in the development and analysis
 of the travel management alternatives.
- $\frac{2}{3}$

Other significant recreational uses – Whitewater boating and fishing are the major recreation attractions in the planning area. Most recreation activity in the area is confined to the narrow corridor along the Arkansas River and US 50. Of the hundreds of thousands of people who visit the area every year, only a small fraction of visitors ever stray more than a hundred feet from the Arkansas River or US 50.

9

10 Except for the areas described above as major attractions, classified special management areas,

and isolated inaccessible blocks of BLM lands, recreational travel uses throughout most of the remaining portions of the planning area consist of a mixture of motorized, mechanized, and non-

13 motorized uses. Motorized uses predominate in some areas, while non-motorized uses

- 14 predominate in other areas. The locations of these areas are defined and discussed in the Subunit 15 analysis.
- 16

17 Due to the lack of sufficient miles of suitable routes that provide full-day riding experiences,

18 most of the planning area is not considered to be a destination attraction for users of OHVs.

19 Several areas and features do occur in and near the planning area, however, that are significant

20 attractions to OHV users, including Texas Creek Travel Management Area (TMA), Four Mile

21 TMA, the Rainbow Trail and the St. Elmo area. The Texas Creek TMA is located within the

22 planning area entirely on BLM lands. The Four Mile TMA is situated just outside of the

planning area near the town of Buena Vista and involves both BLM and National Forest lands.
Both are popular destination areas for OHV users that contain numerous roads and trails for

4WDs, ATVs, and motorcycles. The Colorado Motorcycle Trail Riders Association (CMTRA)

has requested expanding ATV and motorcycle riding opportunities in the Texas Creek TMA that

- 27 will be considered in this TMP.
- 28

29 The Rainbow Trail is located just outside of the western boundary of the planning area on

30 National Forest lands and extends over 100 miles from North Muddy Creek in southern Custer

31 County to Marshall Pass where it connects to the Colorado Trail. It is a very popular trail for

32 motorcycle riding, and although it is located on Forest Service lands, other trails and roads that

- 33 connect to it pass through BLM lands in several locations.
- 34

Mountain biking is a very popular activity around the town of Salida. Many of the existing roads and trails on BLM and Forest Service lands are used heavily for mountain biking, as well as for hiking and motorized uses. Many new trails have also been developed by local mountain bike enthusiasts. The Salida Mountain Park Trail Committee (SMPTC) has submitted a proposal for maintaining and constructing mountain bike and foot trails in the area that will also be considered in this TMP.

40 41

42 Weather and climate - The climate in Arkansas River planning area is warmer and drier than

- 43 most other parts of the state, particularly during the winter months. In the lower elevations
- 44 (5,300 to 8,500 feet), periods when access is limited by snow are short and infrequent and
- 45 opportunities for snowmobiling, snowshoeing, and cross-country skiing are typically not
- 46 available. Except for areas above 9,000 feet, the lack of snow and the high number of sunny and

1 mild days permit year-round access and use of most of the BLM lands in the planning area.

2 Because of the mild winter conditions, some areas actually experience more use during the

- 3 winter months, when temperatures are cooler, than during the hot summer months. The Texas
- 4 Creek TMA experiences more use during the winter when OHV opportunities in the high
- 5 mountains are limited by deep snow and cold temperatures. The characteristically mild winters
- 6 do have a down side, however. Since most of the planning area is accessible year around, many
- 7 of the roads become highly susceptible to rutting and erosion following periodic snowstorms
- 8 when warmer temperatures melt the snow and road surfaces become muddy.
- 9

10 WATERSHED ANALYSIS - The watershed analysis was used to respond to the need to identify impacts from all lands (private, state, federal, etc.) within a defined landscape. A 11 12 watershed scale analysis was done on the US Geological Survey (USGS) 6th level watersheds in 13 the Arkansas River planning area. The analysis displays the impacts from all the roads within the 14 watersheds, regardless of ownership. The watershed analysis helps to display the cumulative impacts of roads and other forms of development. This is important because as more private 15 16 land in the planning area becomes developed, the public lands become more valuable as wildlife 17 habitat, intact watersheds, and open space. As private lands become more developed, the impacts resulting from the greater numbers of roads and the numbers of people traveling on them 18 19 increase substantially. When looked at from the watershed scale, this increase in impacts from 20 roads and other forms of development can have a dramatic effect on wildlife, water quality, 21 vegetation and other resources. The 6th level watershed provides an appropriate scale within the 22 planning area to measure the differences in impacts on all the lands involved. Therefore, as the 23 area further develops the protection of public lands, which equates to better watershed 24 protection, becomes more tantamount.

24

26 SUBUNIT ANALYSIS - An analysis was done at the subunit level to respond to the need to 27 consider the special qualities and travel use opportunities that exist in different portions of the 28 planning area. Due to its large size and the different issues and characteristics of the lands that 29 occur over the entire TMP planning area, the subunit divisions allowed planners to focus on 30 much smaller areas that share the same or similar issues and land characteristics. Dividing the planning area into subunits allowed planners to account for these differences, and in turn, 31 32 resulted in the establishment of goals that were tailored to respond to the specific issues and land 33 characteristics occurring in each subunit. Since the subunits defined areas having different issues 34 and characteristics that resulted in different management goals, the management actions that are 35 proposed for the subunits are tailored to be responsive to their respective goals and objectives

36

37 A total of fourteen subunits were identified, based primarily on breaks along adjoining private

and state-owned land boundaries, classified special management area boundaries, access status
 (lack of permanent legal public access) and by natural topographical features that limit travel

- 40 management options. Map 1 shows the locations of the subunits and can be found in the Map
- 41 Appendix. Descriptions of the subunits, including identified issues and concerns, desired future
- 42 conditions (goals), and management objectives are included in Appendix 2.

1 <u>DESCRIPTIONS OF THE ALTERNATIVES</u>

2

3 Four alternatives were developed for analyzing and comparing the benefits and environmental

4 consequences that would result under different levels of access and use. Each alternative

5 represents a defined level of access and travel uses. The alternatives are named the No Action

6 Alternative, Alternative A, Alternative B, and Alternative C (Proposed Action).

7

8 Prior to reviewing the alternatives the reader should become familiar with the Travel Use

9 Categories (see Table 1) that are used in the written descriptions, tables, and maps that are found

10 throughout this document. The Travel Use Categories define the individual roads and trails in

11 terms of the types of uses that are permitted under each alternative. The individual travel use

12 categories are also symbolized and color-coded on maps for each of the alternatives. See

- 13 <u>Appendix 4</u> for detailed definitions of the categories.
- 14

15 The reader should also familiarize themselves with <u>Table 2-1</u>, Miles of Routes by Alternatives

16 and Travel Use Categories, to gain an understanding of trail miles in each travel use category..

17 Be mindful when reviewing this table that each individual travel use category also allows

18 secondary uses by those categories that are listed above it. For example, the ATV category also

19 allows secondary uses by the Bicycle, Equestrian, and Foot categories. Although secondary uses

20 are permitted, the secondary uses are not necessarily suitable for all of the routes included in the

- 21 individual categories.
- 22

- 1 When interpreting Table 1 it is important to understand that each Travel Use Category is named
- 2 for the type of use that it is primarily suited to accommodate. The other travel uses included in
- 3 the category should be considered as secondary uses. This distinction is important so that it is
- 4 recognized that just because secondary uses are <u>allowed</u> does not mean that all of the routes in
- 5 the category are <u>suitable</u> for those uses. For example, routes included in the General category
- 6 are primarily intended for use with full-size motor vehicles but they are also available for all
- 7 other uses; including hiking and horseback riding. Many hikers and equestrians, however,
- 8 would not consider these routes to be suitable for hiking and horseback riding because sharing
- 9 roads with motor vehicles does not offer the type of recreational experience that they would
- 10 *normally seek.*
- 11 Table 1 Travel Use Categories

Type Of Route	Symbol	Primary and Secondary Permitted Uses
	& Map Color	
Foot	F (dark green)	Foot
Equestrian	E (hot pink)	Foot, horse
Bicycle	B (apple-	Foot, horse, bicycle
	green)	
Motorcycle	M (olive-	Foot, horse, bicycle, motorcycle
	green)	
ATV	A (brown)	Foot, horse, bicycle, motorcycle, ATV
General	O (blue)	Open to all motorized , mechanized, and non-motorized
		uses (includes maintained dirt and gravel roads suitable
		for sedan travel, as well as un-maintained primitive
		4WD roads)
User Created	UC (red)	None (includes unauthorized travel routes that were created
		after the Royal Gorge RMP was approved on 5/13/96)
Non-BLM	Non-BLM	Open to street legal motor vehicles and other mechanized
	(light pink)	and non-motorized uses (includes county, state and federal
		roads and highways that access BLM lands but do not fall
		under BLM management jurisdiction)
Administrative*	AA (gold)	Foot and horse, in cases only where <i>permanent legal public</i>
Access		access exists **
Closed	CL (black	Routes which are not available for public or administrative
	dashed line)	uses. Includes many routes that lack permanent legal public
		access. Also includes routes in classified special
		management areas and those that were closed under
		-
	`	uses. Includes many routes that lack permanent legal public access. Also includes routes in classified special

12 * Routes included in the Administrative Access category are not available to the general public

13 for motorized or mechanized uses. AA routes are needed to provide administrative access for

14 BLM personnel and authorized holders of permits and right-of-ways, and will continue to be

- 15 used for administrative purposes. The routes included in the AA category are not managed for
- 16 specific recreation uses but, as long as the routes are legally accessible (not blocked by private

17 *lands*), they are available to the public for foot and horse travel.

18 ** Permanent legal public access exists if the road can be legally accessed without trespassing

19 over private lands; i.e., access is provided from county, state, or federal highways or via roads

20 where the BLM has obtained public easements.

1 MANAGEMENT COMMON TO ALL ALTERNATIVES

3 The four **OHV Closed** areas that currently exist in the Arkansas River TMP planning area;

4 Browns Canyon, McIntyre Hills, Upper Grape Creek, and Lower Grape Creek WSAs will

5 remain closed. Keeping in line with the closure of all other WSA areas, a fifth area with WSA

status, High Mesa Grassland RNA/ISA, that is currently designated limited, would be designated
closed as well.

8

2

9 The boundaries between BLM and private lands would be managed in accordance with the

10 access guidelines contained in Instruction Memorandum CO-200-07-01, *Royal Gorge Field*

11 Office – Guidelines for Managing Access between BLM and Private Lands that limits motorized

12 and mechanized uses that originate from adjoining private lands. Other than for foot and horse

13 uses, entry to public lands from private lands must comply with the designated transportation

system and be limited to the same means of travel that the general public uses from public accesspoints (See Appendix 3).

16

17 NO ACTION ALTERNATIVE (CURRENT SITUATION)

18

19 <u>Description</u>: Map 12 displays the No Action Alternative and is located in the map appendix.

20 Under the No Action Alternative most of the public lands in the planning area would retain their

21 current OHV designation of Limited to Existing Roads and Trails. The current OHV Open

22 designations for the Grand Canyon Hills, Texas Creek, and Sand Gulch, which contains Turkey

- 23 Rock, areas would be unchanged.
- 24

25 Within **OHV Limited** areas all existing roads and trails with permanent legal public access 26 would be available to OHV use except for those areas and individual routes that had been closed 27 to motorized uses prior to this planning effort, including routes closed under previous activity 28 plans in the Texas Creek, Falls Gulch, Crampton Mountain, and Kerr Gulch areas. In addition, 29 the routes identified in the road and trail inventory as "User Created", that were created by 30 recreational travel uses after the Royal Gorge RMP was approved (5/13/96), would also be closed. Future closures or restrictions of existing OHV routes to prevent resource damage or 31 32 user conflicts would be evaluated and implemented as needed through separate individual 33 activity plans or per emergency closure authorities provided under the Code of Federal 34 Regulations (CFR). Likewise, new routes proposed by CMTRA and SMTPC would not be 35 considered under the No Action Alternative. Future development of new roads or trails would be 36 evaluated and implemented through individual activity plan analysis. Existing policies 37 pertaining to bicycle travel and the distance vehicles are permitted to travel off existing roads for 38 parking, camping, and retrieving game would remain unchanged. Currently, the permitted 39 distance is 300 feet from existing roads.

40

41 Under the No Action Alternative, actions affecting management of target shooting would not be

42 addressed as a part of the travel management plan. Target shooting in the Turkey Rock and

43 Salida areas would continue under existing restrictions.

44

45 Implementation of the No Action Alternative would include the miles of routes by the respective

46 travel use categories, highlighted in Table 2-1. When reviewing the data in this table the reader

1 is reminded that each individual travel use category also allows secondary uses by those

2 categories that are listed above it. For example, the ATV category also allows secondary uses by

3 the Bicycle, Equestrian, and Foot categories. Although secondary uses are permitted, the

4 secondary uses are not necessarily suitable for all of the routes included in the individual

- 5 categories.
- 6

Travel Use	No Action	Alternative A	Alternative B	Alternative C
Category	Alternative			(Proposed Action)
Foot	5.4	1.4	7.9	1.4
Equestrian	27.2	58.2	18.6	48.5
Bicycle	2.5	47.3	16.8	26.9
Motorcycle	2.8	14.5	2.2	3.4
ATV	26.4	40.8	19.5	24.4
General	203.1	164.6	113.4	153.4
Non-BLM	111.8	107.5	106.8	107.5
Administrative				
Access*	125.7	95.6	116.3	103.2
Closed**	87.6	172.3	237.7	202.1
User created	68.1	0	0	0

7 Table 2-1 Miles of Routes by Alternatives and Travel Use Categories

8

9 * The Administrative Access category includes routes that are closed to the public for motorized

10 uses but that may be used by authorized persons for administrative purposes. Under the No

11 Action Alternative, this category includes 125.7 miles of routes, of which 65.5 miles do not have

12 permanent legal public access and 60.2 miles have permanent legal public access. Under the No

13 Action Alternative, the Administrative Access routes that have permanent legal public access

14 can be used by the public for hiking, horseback and bicycle riding, but are not available for use

15 *with motor vehicles.*

16 ** The Closed category includes routes that are not available for public or needed for

17 administrative uses. The category includes many routes that lack permanent legal public access

18 and also includes routes in classified special management areas and those that were closed

19 under previous activity plans. Under the No Action Alternative 87.6 miles of routes would

20 remain closed, including 20.0 miles with no permanent legal public access, 67.0 miles with legal

21 *public access, and 0.6 miles where the access status is unknown.*

1 The No Action Alternative would continue motorized uses on 232.3 miles of existing routes in

- 2 the General, ATV, and Motorcycle travel use categories. In addition, 111.8 miles of Non-BLM
- 3 routes would also be available, that are not affected by decisions made in this plan. The No
- 4 Action Alternative would also provide a total of 95.3 miles of restricted non-motorized access
- 5 routes, consisting of 35.1 miles in the Bicycle, Equestrian, and Foot travel use categories and
- 6 60.2 miles of Administrative Access routes with permanent legal public access that would also
- 7 be available for hiking, horseback riding, and bicycles.
- 8

9 ALTERNATIVE A

10

11 <u>Description</u>: Map 13 displays Alternative A and can be found in the map appendix. Alternative 12 A analyzes the effects of refining the OHV designation of the planning area from that of Limited 13 to Existing Roads and Trails to one of **Limited to Designated Roads and Trails**.

- 13
- 15 Under Alternative A the current **OHV Open** designations in the Grand Canyon Hills, Texas
- 16 Creek, and Sand Gulch areas would be changed to OHV Limited to Designated Roads, Trails
- 17 and Vehicular Type. The High Mesa Grassland RNA/ISA would be changed from OHV
- 18 Limited to OHV Closed, thereby assuring all WSA's in the planning areas are Closed to OHV
- 19 use. New **OHV Limited area** designations would be established at Sand Gulch and Reese
- Gulch where motorized travel off designated routes would be limited to users of trials bikes,only.
- 21 22
- Under Alternative A mechanized vehicles, including bicycles, would also be limited to
 designated roads and trails, and driving off roads would be limited to a maximum distance of 100
 feet.
- 25 26

27 During the inventory phase of the TMP, a number of county roads were identified in Fremont

and Chaffee County that provide important public access to BLM lands but that are not being

29 maintained by the counties. Under Alternative A, BLM would coordinate with both counties to

30 resolve this issue by either including the roads in county maintenance schedules, vacating the

31 county right-of-ways so that BLM can maintain them, or entering into agreements under which

- 32 BLM and the counties would exchange maintenance work so that the roads would be maintained.
- 33
- 34 Under Alternative A, target shooting would be prohibited at Turkey Rock and in several
- 35 locations near the City of Salida to improve public safety and reduce conflicts with other uses
- 36 (See Map 7 in the Map Appendix)

1 During public scoping for the TMP several organized groups came forward with requests for 2 new trails within the Texas Creek and Salida subunits. In considering these requests, the BLM 3 interdisciplinary team (ID team) identified a number of issues and concerns related to the 4 construction and maintenance of trails. These included concerns with the conditions found on 5 some existing trails due to poor trail design and the lack of adequate maintenance for controlling 6 soil erosion and correcting unsafe conditions. Due to the conditions found on some of the 7 existing trails in the Texas Creek and Salida areas, including some that have been requested by 8 user groups to be designated in the TMP, the ID team identified the need for establishing 9 guidelines and conditions under which the construction of new or re-opening of old trails would 10 be considered. As a result, the ID team developed a set of guidelines and conditions that would need to be satisfied before the construction of new or re-opening old trails would be approved. 11 12 Background information pertaining to the requests and descriptions of the guidelines and 13 conditions are found in Appendix 6, Requests for New Trails – Texas Creek, and Appendix 7, 14 Requests for New Trails-Salida.

15

16 Under Alternative A, 7.3 miles of additional ATV/motorcycle trails and 11.8 miles of single-

17 track motorcycle trails would be conditionally approved for construction and reconstruction in

the Texas Creek subunit, and 42.6 miles of foot/horse/bicycle trails would be conditionally 18

19 approved for construction and reconstruction in the Salida subunit. Actual construction and

20 reconstruction work would be subject to the conditions and guidelines outlined in Appendix 6

21 and Appendix 7. Future proposals for new roads or trails not conditionally approved in this TMP

22 would be considered and evaluated through individual activity plan analysis, and would also be 23 subject to the guidelines and conditions outlined in Appendices 6 and 7.

24

25 This alternative provides for a comparatively high level of motorized access and recreational

26 uses. Under Alternative A, access and travel use designations for motorized, mechanized, and

27 non-motorized uses would be established with emphasis placed on providing increased and

enhanced recreational uses. Most legally accessible roads and trails and some "User Created" 28

29 routes would be left open to OHVs and mountain bikes, and some new OHV and mountain bike

30 trails would be constructed to facilitate access and enhance recreation opportunities.

31

32 Implementation of Alternative A would include the miles of routes by the respective travel use

categories, highlighted in Table 2-2. When reviewing the data in this table the reader is 33 34 reminded that each individual travel use category also allows secondary uses by those categories

35 that are listed above it. For example, the ATV category also allows secondary uses by the

Bicycle, Equestrian, and Foot categories. Although secondary uses are permitted, the secondary 36 37 uses are not necessarily suitable for all of the routes included in the individual categories.

Travel Use	No Action	Alternative A	Alternative B	Alternative C
Category	Alternative			(Proposed Action)
Foot	5.4	1.4	7.9	1.4
Equestrian	27.2	58.2	18.6	48.5
Bicycle	2.5	47.3	16.8	26.9
Motorcycle	2.8	14.5	2.2	3.4
ATV	26.4	40.8	19.5	24.4
General	203.1	164.6	113.4	153.4
Non-BLM	111.8	107.5	106.8	107.5
Administrative				
Access*	125.7	95.6	116.3	103.2
Closed**	87.6	172.3	237.7	202.1
User created	68.1	0	0	0

1 Table 2-2 Miles of Routes by Alternatives and Travel Use Categories

2

3 4

* The Administrative Access category includes routes that are closed to the public for motorized

5 uses but that may be used by authorized persons for administrative purposes. Under Alternative

6 *A, this category includes 95.6 miles of routes, of which 50.3 miles do not have permanent legal*

7 public access and 45.3 miles have permanent legal public access. Under Alternative A, the

8 Administrative Access routes that have permanent legal public access can be used by the public

9 for hiking and horseback riding, but are not available for use with bicycles or motor vehicles.

10

11 *** The Closed category includes routes that are not available for public or administrative uses.*

12 The category Includes many routes that lack permanent legal public access and also includes

13 routes in classified special management areas and those that were closed under previous activity

14 plans. Under Alternative A, 172.3 miles of routes would be closed, including 45.3 miles with no

15 *permanent legal public access, 126.4 miles with legal public access, and 0.6 miles where the* 16 *access status is unknown.*

17

18 Alternative A would designate motorized uses on 219.9 miles of routes in the General, ATV, and

19 Motorcycle travel use categories. In addition, 107.5 miles of Non-BLM routes would also be

20 available that are not affected by decisions made in this plan. Alternative A also provides a total

of 152.2 miles of restricted non-motorized access routes, consisting of 106.9 miles in the

22 Bicycle, Equestrian, and Foot travel use categories, and 45.3 miles of Administrative Access

23 routes with permanent legal public access that are also available for hiking and horseback riding.

1 ALTERNATIVE B

2 3

4 B analyzes the effects of refining the OHV designation for most of the planning area from that of 5 Limited to Existing Roads and Trails to one of **Limited to Designated Roads and Trails**. The 6 current **OHV Open** designations in the Grand Canyon Hills, Texas Creek, and Sand Gulch areas 7 would be changed to **OHV Limited to Designated Roads and Trails** and the High Mesa 8 Grassland RNA/ISA would be changed from OHV Limited to OHV closed, thereby assuring all 9 WSA's in the planning area are Closed to OHV use. 10 11 Under Alternative B mechanized vehicles, including bicycles, would also be limited to 12 designated roads and trails; and driving off roads would be limited to a maximum distance of 100 13 feet. 14 15 During the inventory phase of the TMP, a number of county roads were identified in Fremont 16 and Chaffee County that provide important public access to BLM lands but that are not being 17 maintained by the counties. Under Alternative B, BLM would coordinate with both counties to 18 resolve this issue by either including the roads in county maintenance schedules, vacating the 19 county right-of-ways so that BLM can maintain them, or entering into agreements under which 20 BLM and the counties would exchange maintenance work so that the roads would be maintained. 21 22 Under this alternative action affecting the management of target shooting would not be addressed 23 as a part of the travel management plan. Target shooting in the Turkey Rock area would 24 continue under existing restrictions. New routes proposed by CMTRA and SMTPC would not 25 be considered under this alternative. Future development of new roads or trails would be 26 evaluated and implemented through individual activity plan analysis, and would be subject to the 27 guidelines and conditions outlined in Appendix 6 and Appendix 7. 28 29 This alternative provides for a comparatively low level of motorized access and recreational 30 uses. Under Alternative B, access and travel use designations for motorized, mechanized, and 31 non-motorized uses would be established with emphasis placed on protection of the natural 32 resources. Many of the existing roads and trails and "User Created" routes would be closed to 33 OHVs and mountain bikes, and no new OHV or mountain bike trails would be constructed. 34 35 Implementation of Alternative B would include the miles of routes by the respective travel use 36 categories, highlighted in Table 2-3. When reviewing the data in this table the 37 reader is reminded that each individual travel use category also allows secondary uses by those 38 categories that are listed above it. For example, the ATV category also allows secondary uses by 39 the Bicycle, Equestrian, and Foot categories. Although secondary uses are permitted, the 40 secondary uses are not necessarily suitable for all of the routes included in the individual 41 categories.

Description: Map 14 displays Alternative B and can be found in the map appendix. Alternative

- 42 43
- 43

Travel Use	No Action	Alternative A	Alternative B	Alternative C
Category	Alternative			(Proposed Action)
Foot	5.4	1.4	7.9	1.4
Equestrian	27.2	58.2	18.6	48.5
Bicycle	2.5	47.3	16.8	26.9
Motorcycle	2.8	14.5	2.2	3.4
ATV	26.4	40.8	19.5	24.4
General	203.1	164.6	113.4	153.4
Non-BLM	111.8	107.5	106.8	107.5
Administrative				
Access*	125.7	95.6	116.3	103.2
Closed**	87.6	172.3	237.7	202.1
User created	68.1	0	0	0

1 Table 2-3 Miles of Routes by Alternatives and Travel Use Categories

2

3 4

* The Administrative Access category includes routes that are closed to the public for motorized

5 uses but that may be used by authorized persons for administrative purposes. Under Alternative

6 *B*, this category includes 116.3 miles of routes, of which 55.0 miles do not have permanent legal

7 public access and 61.3 miles have permanent legal public access. Under Alternative B, the

8 Administrative Access routes that have permanent legal public access can be used by the public

9 for hiking and horseback riding, but are not available for use with bicycles or motor vehicles.

10

11 *** The Closed category includes routes that are not available for public or administrative uses.*

12 The category Includes many routes that lack permanent legal public access and also includes

13 routes in classified special management areas and those that were closed under previous activity

14 plans. Under Alternative B, 237.7 miles of routes would be closed, including 50.9 miles with no

15 *permanent legal public access, 186.2 miles with legal public access, and 0.6 miles where the* 16 *access status is unknown.*

17

18 Alternative B would designate 135.1 miles of motorized access routes in the General, ATV, and 19 motorcycle travel use categories. In addition, 106.8 miles of Non-BLM routes are also available

19 motorcycle travel use categories. In addition, 106.8 miles of Non-BLM routes are also available 20 that are not affected by decisions made in this plan. Alternative B also provides a total of 104.6

21 miles of restricted non-motorized access routes, consisting of 43.3 miles in the Bicycle,

Equestrian, and Foot travel use categories, and 61.3 miles of Administrative Access routes with

23 permanent legal public access that are also available for hiking and horseback riding.

24

25 26

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32

1 ALTERNATIVE C (PROPOSED ACTION)

2
 3 <u>Description</u>: Map 9 displays Alternative C and can be found in the map appendix. Alternative C
 4 is the Proposed Action, which is also discussed on pages 7 and 8 under the heading, SUMMARY
 5 DESCRIPTION OF THE PROPOSED ACTION.

6

7 Alternative C analyzes the effects of refining the OHV designation for most of the planning area

8 from that of Limited to Existing Roads and Trails to one of Limited to Designated Roads and

9 **Trails**. The current **OHV Open** designations in the Grand Canyon Hills, Texas Creek, and Sand

Gulch areas would be changed to OHV Limited to Designated Roads and Trails and the High
 Mesa Grassland RNA/ISA would be changed from OHV Limited to OHV Closed, thereby

12 assuring all WSA's in the planning area are Closed to OHV use. In addition, the Proposed Action

13 would designate the 52 acre Turkey Rock portion of Sand Gulch, as an **OHV** Limited area where

14 motorized travel off designated routes would be limited to users of trials bikes only.

15

16 Under Alternative C, mechanized vehicles, including bicycles, would also be limited to

designated roads and trails; and driving off roads would be limited to a maximum distance of 100
 feet.

19

20 During the inventory phase of the TMP, a number of county roads were identified in Fremont

and Chaffee County that provide important public access to BLM lands but that are not being

22 maintained by the counties. Under the Proposed Action, BLM would coordinate with both

counties to resolve this issue by either including the roads in county maintenance schedules,

vacating the county right-of-ways so that BLM can maintain them, or entering into agreements

under which BLM and the counties would exchange maintenance work so that the roads wouldbe maintained.

26 27

28 Under the Alternative C, target shooting would be prohibited at Turkey Rock and in several

29 locations near the City of Salida to improve public safety and reduce conflicts with other uses

30 (See Map 7 in the Map Appendix)

31

32 During public scoping for the TMP several organized groups came forward with requests for 33 new trails within the Texas Creek and Salida subunits. In considering these requests, the BLM 34 interdisciplinary team (ID team) identified a number of issues and concerns related to the 35 construction and maintenance of trails. These included concerns with the conditions found on 36 some existing trails due to poor trail design and the lack of adequate maintenance for controlling 37 soil erosion and correcting unsafe conditions. Due to the conditions found on some of the 38 existing trails in the Texas Creek and Salida areas, including some that have been requested by 39 user groups to be designated in the TMP, the ID team identified a need for establishing 40 guidelines and conditions under which the construction of new or re-opening of old trails would 41 be considered. As a result, the ID team developed a set of guidelines and conditions that would

42 need to be satisfied before the construction of new trails or re-opening of old trails would be

43 approved. Background information pertaining to the requests and descriptions of the guidelines

44 and conditions are found in Appendix 6, Requests for New Trails –Texas Creek, and Appendix

45 <u>7</u>, <u>Requests for New Trails–Salida</u>.

- 1 Under the Proposed Action, approximately 3 miles of additional ATV/motorcycle trails would be
- 2 conditionally approved for construction and reconstruction in the Texas Creek subunit, and 20
- 3 miles of foot/horse/bicycle trails would be conditionally approved for construction and
- 4 reconstruction in the Salida subunit. Actual construction and reconstruction work would be
- 5 subject to the conditions and guidelines outlined in Appendices 6 and 7. Future proposals for
- 6 new roads or trails not conditionally approved in this TMP would also be considered and
- 7 evaluated through individual activity plan analysis, and would be subject to the guidelines and
- 8 conditions outlined in Appendices 6 and 7.
- 9

10 Under Alternative C, the establishment of designated travel uses would be guided by the need to

- 11 maintain or improve the health of the Public Lands as defined by the Colorado Public Land
- 12 Health Standards (See <u>Appendix 5</u>). Some "User Created" and existing roads and trails would be
- 13 closed to public use. Other "User Created" routes, however, would be left open for use, and
- some new roads and trails would be constructed to facilitate access and provide for a variety of recreation uses.
- 15 recrea 16
- 17 Implementation of Alternative C would include the miles of routes by the respective travel use
- 18 categories, highlighted in Table 2-4. When reviewing the data in this table the reader is
- 19 reminded that each individual travel use category also allows secondary uses by those categories
- 20 that are listed above it. For example, the ATV category also allows secondary uses by the
- 21 Bicycle, Equestrian, and Foot categories. Although secondary uses are permitted, the secondary
- 22 uses are not necessarily suitable for all of the routes included in the individual categories.

Travel Use	No Action	Alternative A	Alternative B	Alternative C
Category	Alternative			(Proposed Action)
Foot	5.4	1.4	7.9	1.4
Equestrian	27.2	58.2	18.6	48.5
Bicycle	2.5	47.3	16.8	26.9
Motorcycle	2.8	14.5	2.2	3.4
ATV	26.4	40.8	19.5	24.4
General	203.1	164.6	113.4	153.4
Non-BLM	111.8	107.5	106.8	107.5
Administrative				
Access*	125.7	95.6	116.3	103.2
Closed**	87.6	172.3	237.7	202.1
User created	68.1	0	0	0

1
 Table 2-4
 Miles of Routes by Alternatives and Travel Use Categories

2

3

4 * The Administrative Access category includes routes that are closed to the public for motorized

5 uses but that may be used by authorized persons for administrative purposes. Under Alternative

6 C, this category includes 103.2 miles of routes, of which 50.5 miles do not have permanent legal

7 public access and 52.8 miles have permanent legal public access. Under Alternative C, the

8 Administrative Access routes that have permanent legal public access can be used by the public

9 for hiking and horseback riding, but are not available for use with bicycles or motor vehicles.

10

11 ** The Closed category includes routes that are not available for public or administrative uses.

12 The category Includes many routes that lack permanent legal public access and also includes

13 routes in classified special management areas and those that were closed under previous activity

14 plans. Under Alternative C, 202.1 miles of routes would be closed, including 50.1 miles with no

15 permanent legal public access, 151.4 miles with legal public access, and 0.6 miles where the 16 access status is unknown.

17

18 Alternative C would designate 181.2 miles of motorized access routes in the General, ATV, and 19 motorcycle travel use categories. In addition, 107.5 miles of Non-BLM routes are also available

that are not affected by decisions made in this plan. Alternative C also provides a total of 129.6 20

21 miles of restricted non-motorized access routes, consisting of 76.8 miles in the Bicycle,

22 Equestrian, and Foot travel use categories, and 52.8 miles of Administrative Access routes with

23

permanent legal public access that are also available for hiking and horseback riding.

24

25 ALTERNATIVES CONSIDERED BUT NOT CARRIED FORWARD: Due to the many

combinations of possible travel use designations that could be created from the large number of 26

27 roads and trails in the planning area, many other alternatives could have been developed for this

28 TMP. The three action alternatives, however, adequately address a range of alternatives, as

29 required by NEPA. In addition, the alternatives brought forward in this EA cover a wide variety

of options for many of the roads and trails, giving the decision maker the opportunity to select 30

different motorized and non-motorized options for individual routes. No other specific 31

32 alternatives were suggested by the public during the review periods. A summary of comparisons

33 between the four alternatives carried forward is as follows:

Table 2.5 Summary comparison of NEPA alternatives

2	1			
		2	<u></u>	1

				T
Actions	No Action	Alternative A	Alternative B	Alternative C
	Alternative			(Proposed Action)
Max. Distance for	300 feet from	100 feet from	100 feet from	100 feet from
Driving Off Roads	existing routes	designated routes	designated routes	designated routes
to Park and Camp	<u>emisting</u> routes	designated Foures	designated Fourtes	designated Foures
Target Shooting	No closures	Closures at Turkey	No closures	Closures at Turkey
Closures	considered	Rock and Salida	considered	Rock and Salida
Access from	Managed per IM	Managed per IM	Managed per IM	Managed per IM
Private Lands	CO-200-07-01	CO-200-07-01	CO-200-07-01	CO-200-07-01
Non-maintained		Resolve by	Resolve by	Resolve by
County Road	No Action	coordinating with	coordinating with	coordinating with
		counties	counties	counties
Proposals for	No additional	+7 miles A	No additional	+3 miles A
Additional Routes	routes considered	+12 miles M	routes considered	+20 miles B
		+43 miles B		(included below)
OHV Open Areas	No change	(included below) All OHV Open	All OHV Open	All OHV Open
On v Open Areas	110 change	areas change to	areas change to	areas change to
		OHV Limited; new	OHV Limited	OHV Limited;
		OHV Open area at		
		Turkey Rock and		
		Reese Gulch for		
		trials bikes		
OHV Closed Areas	All OHV Closed	All OHV Closed	All OHV Closed	All OHV Closed
	areas remain	areas remain	areas remain	areas remain
	closed	closed and High	closed and High	closed and High
		Mesa Grassland	Mesa Grassland	Mesa Grassland
		changes from	changes from	changes from
		Limited to Closed	Limited to Closed	Limited to Closed
OHV Limited	OHVs limited to	OHVs and mechanized uses	OHVs and mechanized uses	OHVs and mechanized uses
Areas	<u>existing</u> routes; mechanized uses	limited to	limited to	limited to
	not affected	designated routes	designated routes	designated routes
	not anecteu	designated routes	designated routes	and vehicle types.
				and <u>venicie types</u> .
Miles of Routes by				
Travel Use				
Category				
Foot	5.4	1.4	7.9	1.4
Equestrian	27.2	58.2	18.6	48.5
Bicycle	2.5	47.3	16.8	26.9
Motorcycle	2.8	14.5	2.2	3.4
ATV	26.4	40.8	19.5	24.4
General	203.1	164.6	113.4	153.4
Non-BLM	111.8	107.5	106.8	107.5
Administrative	105.5	05.6	11()	102.2
Access	125.7	95.6	116.3	103.2
Closed User created	87.6	172.3 0	237.7 0	202.1 0
User created	68.1	V	V	U

AFFECTED ENVIRONMENT / ENVIRONMENTAL CONSEQUENCES /MITIGATION MEASURES

3

4 <u>CRITICAL ELEMENTS</u>

5

6 AIR QUALITY

7 Affected Environment: Under the Clean Air Act Amendments of 1990, the U.S. Environmental 8 Protection Agency (EPA) established National Ambient Air Quality Standards for six pollutants: 9 lead, ozone, sulfur dioxide, oxides of nitrogen, carbon monoxide, and particulate matter smaller 10 than 10 microns in diameter (PM₁₀). In 2002, the U.S. Environmental Protection Agency (EPA) re-designated the entire state of Colorado as in attainment/maintenance of federal air quality 11 12 standards. Canon City, Colorado, due east and downwind of the Arkansas River travel planning 13 area was re-designated an attainment area for PM_{10} (particulate matter with an aerodynamic 14 diameter of 10 microns or less) in 2000. The closest federally designated Class 1 airshed (areas requiring the most stringent air pollution controls) to the Arkansas River Travel Planning Area is 15 16 the Great Sand Dunes National Park, 16 miles south of the planning area and topographically

17 separated by the Sangre de Cristo mountain range.

18

19 The primary sources of air pollution generated within the Arkansas River Travel Planning Area

20 are tailpipe emissions and fugitive dust from US Highway 50 vehicular traffic, rural traffic on

21 unpaved surfaces on both private and public land in Fremont, Chaffee and Custer Counties,

22 wood burning stoves, agriculture, wildfire, and mining activities at Parkdale, west of Canon City.

23 Spring seasonal haze in the Arkansas Travel Planning area originates largely from fallow

agricultural fields in the San Luis Valley. Summer haze in the study area is frequently attributed

25 to wildfire in Colorado and other western states.

26

27 Dispersion of fugitive dust (PM₁₀) from unsurfaced roads in the Arkansas River Travel Planning

Area is commonly restricted to localized areas due to rocky soils and steep terrain in the

29 Arkansas Canyon uplands. Under any given set of environmental conditions, however, the

30 amount of fugitive dust and tailpipe emissions is directly related to the size, weight, power,

31 speed, and amounts of traffic that occur on the region's roads and trails. As a general rule,

32 motorized uses that involve traveling at higher speeds tend to create more dust and pollution than

33 slower mechanized (muscle powered) and non-motorized uses (horse and foot travel).

34

35 Some planning area subunits, such as West McCoy Gulch do contain roads in flatter terrain that

36 allow vehicles to travel at high speeds and where large quantities of dust can be produced by

37 recreational and non-recreational traffic. Other sub-units, such as Texas Creek and Salida, reach

38 peak traffic loads on summer weekends that generate substantial fugitive dust in a localized area.

39 The nearest Colorado Department of Public Health and the Environment Air Quality Index

40 monitoring site is at Cripple Creek. Systematic measurement of recreational traffic on BLM

41 public lands, using traffic counters, has only recently been launched in the planning area.

42 Correlating BLM traffic levels to localized dust and establishing PM_{10} thresholds above which

43 dust mitigation measures are required has not been completed.

- 1 Environmental Consequences/Mitigation:
- 2

3 Direct impacts common to all alternatives include the growth of tailpipe emissions and

4 generation of fugitive dust area-wide in the upland environment from recreational OHV

5 motorized travel, and to a lesser extent from mountain bike use, of un-surfaced BLM roads and

6 trails. Growth in mechanized mountain bike traffic in the Salida subunit could result in some

7 increases in localized dust in that area in all alternatives, but that impact would be localized.

8 While traffic count data in the planning area is limited, upward trends in OHV registration in

9 Colorado, increasing out-of-state OHV visitation, and average monthly traffic measured over the

10 last 20 years in the neighboring Gold Belt Travel Planning area indicate increasing visitation and

11 vehicle traffic to public lands in the Arkansas Travel Planning Area over the next 10 years.

12

13 Compared to all other alternatives, the No Action alternative would account for the greatest

14 acreage and mileage of un-surfaced motorized roads and trails, as well as the highest geographic

15 reach of OHV traffic. Growth in unconfined off road traffic on dry soils in OHV open areas

16 within the Badger Creek and Grand Canyon Hills subunits could result in generation of PM₁₀ on

17 public lands in the No Action alternative that could potentially impact visibility at the Royal

18 Gorge State Park over time. Given the unconfined and incrementally increasing extent of user

19 created OHV roads and trails and assuming growth in OHV recreational use over a 10-yr period,

20 the No Action alternative would have the highest potential for generating fugitive dust and

adversely impacting air quality over the largest geographic area in the planning area. Under the

22 No Action Alternative, fugitive dust and pollution would be expected to increase in all planning

area subunits and potentially reach intensities that adversely impact air quality in communities

24 and subdivisions neighboring BLM lands.

25

26 Alternatives A, B, and C would all be expected to result in some level of vegetation recovery and

27 reduce generation of fugitive dust to localized areas as motorized travel is restricted to

28 designated routes. When comparing impacts to air quality between Alternatives A, B, and C,

29 total acreage of surface disturbance from motorized use, geographic reach of traffic, and

30 planning area distribution of fugitive dust would be expected to be most extensive in Alternative

A, least extensive in Alternative B, and intermediate in Alternative C. Of the three action

32 alternatives, Alternative B includes the least number of motorized routes and would result in the

33 greatest reductions to dust and pollution, geographically. When compared to Alternative A,

34 which includes a relatively high number of motorized routes that are only slightly fewer than the

35 current number, the benefits to air quality under Alternative B would also be considerably

36 higher. Alternative B would also result in substantially higher air quality benefits than

37 Alternative C, which includes 46.1 more miles of routes than Alternative B.

1 Mitigation

- 2 No specific mitigation measures for reducing dust and pollution are recommended at this time,
- 3 nor is it anticipated that the amount of dust from uses on BLM public lands is likely to reach
- 4 levels requiring wide-scale dust abatement measures in the next 10 years. As traffic levels
- 5 increase, however, the need to implement abatement measures may be required to address dust
- 6 generated in localized areas and from specific uses. Mitigation measures for reducing dust could
- 7 include the following actions: applying paving or other surfacing materials; watering or treating
- 8 roads with magnesium chloride or other dust abatement chemicals; installing speed bumps or
- 9 obstacles to reduce vehicle speeds.
- 10

11 Cumulative Effects

- 12 In addition to growth in recreational travel, reasonably foreseeable actions that may effect air
- 13 quality over the next 10 years on private and public lands in the Arkansas River basin include
- 14 continued residential growth, fuels reduction projects, utility corridor maintenance and upgrades,
- 15 and new road rights-of-way. Future activities on public lands between Browns Canyon and
- 16 Parkdale Bridge that could also potentially impact air quality, require mitigation, but cannot be
- 17 specified in terms of time and place in current analysis include special recreation events, the
- 18 proposed Over the River art project on the Arkansas River, commercial forest products
- 19 harvesting, and mining operations that involve increased traffic and hauling of materials over
- 20 dusty roads. Over the next 10 years, dust and pollution from these and other sources, including
- 21 local industries and from traffic on county and state roads and highways, cumulative to
- 22 recreational travel on BLM roads and trails, are expected to have long-term, low intensity/impact
- air quality, although.
- 24

25 CULTURAL RESOURCES

- 26 Affected Environment: The planning area contains cultural resources ranging from very early
- 27 (Paleo-Indian) aboriginal sites to 50-year-old historic sites. Aboriginal site types include, but are
- 28 not limited to, open camps, chipped stone manufacture and processing sites, open and sheltered
- architectural locales, and isolated artifacts and features. Sites in the planning area that date to the
- 30 historic period comprise mines, vernacular and commercial architectural sites, railroad grades,
- 31 homesteads, town sites, and ranches, as well as many other locations of past human activity.
- 32 Roads and trails themselves are often of historic age and are occasionally eligible for the
- 33 National Register of Historic Places.
- 34
- 35 Because of the magnitude and ongoing nature of the undertaking, BLM did not conduct intensive
- 36 cultural resource inventories on all of the roads and trails involved in this planning effort.
- 37 Instead, BLM and the Colorado State Historic Preservation Officer (SHPO) appended the
- 38 Colorado Protocol agreement to streamline the inventory portion of the Section 106 process
- 39 when roads and trails are involved. Intensive (Class III) inventory is only necessary when new
- 40 routes or areas, or changes to existing routes, are planned or when the BLM archaeologist
- 41 determines that the continuation of existing routes in archaeologically sensitive areas will
- 42 adversely impact historic properties. Where BLM determines that 100 percent intensive
- 43 inventory is not necessary, reconnaissance inventories (less than 100 percent) will be conducted
- 44 and documented.
- 45

- 1 As a general rule, cultural sites that can be accessed with OHVs are more exposed to potential
- 2 damage than those that cannot be accessed with motor vehicles. This is due to the fact that the
- 3 weight and power of motor vehicles cause more ground disturbance than non-motorized modes
- 4 of travel and also facilitate vandalism and the removal of artifacts.
- 5

6 Environmental Consequences & Mitigation:

- 7 Current Use (No Action): Historic properties, both historic and prehistoric in age, are impacted 8 in many different ways depending on their proximity to existing travel routes. Unless site 9 specific surveys were completed, the extent of the impacts would remain unknown. Under this 10 alternative, the OHV OPEN areas at Sand Gulch, Grand Canyon Hills, and Texas Creek would not be changed to OHV LIMITED, and the use of OHVs within OHV LIMITED areas would be 11 12 limited to existing travel routes that have been recognized as existing prior to 1996. Of all of the 13 alternatives, the No Action Alternative would allow the greatest number of routes to remain open to OHVs with the OHV LIMITED designation (232 miles), and would present the highest 14 potential for impacting historic properties. The closure of "User Created" routes that were 15 16 developed after 1996 would reduce potential impacts to some historic properties.
- 17
- 18 <u>Alternative A</u>: Under Alternative A, the three OHV OPEN areas would be changed to OHV
- 19 LIMITED and 220 miles of routes would be designated open to OHVs within the OHV
- 20 LIMITED areas. The potential impacts to historic properties would be higher than what would
- 21 occur under Alternatives B or C due to the greater number of designated routes, "user-created"
- 22 trails left open, and new trails constructed.
- 23
- 24 <u>Alternative B</u>: Under Alternative B, the three OHV OPEN areas would be changed to OHV
- LIMITED and 135 miles of routes would be designated open to OHVs within the OHV
- 26 LIMITED areas. The potential impacts to historic properties would be fewer than what would
- 27 occur under Alternatives A or C due to the smaller number of designated routes, the closure of
- 28 "user-created" routes and the absence of new trails.
- 29
- 30 <u>Alternative C (Proposed Action)</u>: Under Alternative C, the three OHV OPEN areas would be
- 31 changed to OHV LIMITED and 181 miles of routes would be designated open to OHVs within
- 32 the OHV LIMITED areas. The potential impacts to historic properties would be fewer than what
- 33 would occur under Alternative A but greater than what would occur under Alternative B. Under
- 34 the Proposed Action the potential impacts to recorded and undocumented historic properties
- 35 would be decreased from what would occur under the No Action Alternative due to the lower
- 36 number of routes and the closure of routes into sensitive areas.

1 Mitigation

- 2 Because no cultural resources inventories have been completed and historic properties have not
- 3 yet been found, it is not possible to identify specific mitigation measures. The range of treatment
- 4 (mitigation) activities possible is quite large, but a non-exhaustive list includes avoidance
- 5 (always the first choice), testing, excavation (salvage, partial, or total) and data recovery in the
- 6 form of archival recording (for standing structures and other historic-era phenomena). A
- 7 treatment plan is individually tailored to the historic property that will be adversely affected, in
- 8 consultation with the Colorado SHPO.
- 9

10 **Cumulative Effects**

- 11 As with mitigation, cumulative effects on historic properties cannot be specifically identified
- 12 until cultural resources inventories are completed and historic properties have been identified. In
- 13 general, however, erosion caused by vehicle travel, depending on its proximity to a site, could
- 14 have long-term negative impacts on both buried sites as well as those with standing structures.
- 15

16 NATIVE AMERICAN RELIGIOUS CONCERNS

- 17 Affected Environment: A traditional cultural property is defined as:
- 18
- 19 "....one that is eligible for inclusion in the National Register because of its association with
- 20 cultural practices or beliefs of a living community that (a) are rooted in the community's history,
- 21 and (b) are important in maintaining the continuing cultural identity of the community" (NRB
- 22

23

38:1).

- 24 In Colorado, three types of culturally significant phenomena are present. McBride (1999)
- 25 identifies traditional cultural properties (TCPs) as locations where wild foods or medicines are
- 26 gathered, or are landforms associated with aboriginal traditions or beliefs. She also notes that
- 27 locations with "intangible spiritual attributes" (ISAs) and contemporary use areas (CUAs) are
- 28 known in Colorado.
- 29
- 30 Unless specifically identified by Native Americans, many TCPs, ISAs and CUAs are extremely
- 31 difficult or impossible for a field archaeologist to recognize. Such sites, often considered sacred,
- 32 include mountain tops, waterfalls, river and trail confluences, the headwaters of streams,
- 33 ecotones (including the entire Front Range), clay sources, "origin places", anthropomorphic and
- 34 zoomorphic rock formations and springs. More readily identifiable are rock art, sweat baths,
- battle sites, sun dance arbors, vision quest sites, and medicine wheels (McBride 1999: 342-345).
- 36
- 37 In compliance with regulations interpreting the National Historic Preservation Act of 1966,
- amended 1992, specifically 36 CFR 800.2(c)(3)(i)-(vi), BLM consulted Indian tribes that might
- have an interest in the planning area [CR-RG-05-82 (NA)], including the following: Apache
- 40 Tribe of Oklahoma, Cheyenne and Arapaho Tribes of Oklahoma, Cheyenne River Lakota Tribe,
- 41 Comanche Tribe of Oklahoma, Crow Creek Lakota Tribe, Kiowa Tribe of Oklahoma, Northern
- 42 Arapaho Tribe, Northern Cheyenne Tribe, Northern Ute Tribe, Oglala Lakota Tribe, Pawnee
- 43 Nation of Oklahoma, Rosebud Sioux Tribe, Shoshone Tribe, Southern Ute Tribe, Standing Rock
- 44 Lakota Tribe, Ute Mountain Ute Tribe.
- 45

1 Environmental Consequences & Mitigation:

- 2 <u>Current Use (No Action)</u>: Sites of Native American Religious Concern are impacted in many
- 3 different ways depending on their proximity to existing travel routes. Until site specific surveys
- 4 are completed, the extent of these impacts would remain unknown. Under this alternative, the
- 5 OHV OPEN areas at Sand Gulch, Grand Canyon Hills, and Texas Creek would not be changed
- 6 to OHV LIMITED, and the use of OHVs within OHV LIMITED areas would be limited to
- 7 existing travel routes that have been recognized as existing prior to 1996. Of all of the
- 8 alternatives, the No Action Alternative would allow the greatest number of routes to remain open
- 9 to OHVs with the OHV LIMITED designation (232 miles), and would present the highest
- 10 potential for impacting sites of Native American religious concern. The closure of "User
- Created" routes that were developed after 1996 would reduce potential impacts to some sites ofNative American religious concern.
- 12 I 13
- 14 <u>Alternative A</u>: Under Alternative A, the three OHV OPEN areas would be changed to OHV
- 15 LIMITED and 220 miles of routes would be designated open to OHVs within the OHV
- 16 LIMITED areas. The potential impacts to sites of Native American religious concern would be
- 17 higher than what would occur under Alternatives B or C due to the greater number of designated
- 18 routes, "user-created" trails left open, and new trails constructed.
- 19
- 20 <u>Alternative B</u>: Under Alternative B, the three OHV OPEN areas would be changed to OHV
- 21 LIMITED and 135 miles of routes would be designated open to OHVs within the OHV
- 22 LIMITED areas. The potential impacts to sites of Native American religious concern would be
- 23 fewer than what would occur under Alternatives A or C due to the smaller number of designated
- routes, the closure of "user-created" routes and the absence of new trails.
- 25
- 26 <u>Alternative C (Proposed Action)</u>: Under Alternative C, the three OHV OPEN areas would be
- 27 changed to OHV LIMITED and 181 miles of routes would be designated open to OHVs within
- the OHV LIMITED areas. The potential impacts to sites of Native American religious concern
- 29 would be fewer than what would occur under Alternative A but greater than what would occur
- 30 under Alternative B. Under the Proposed Action the potential impacts to recorded and
- 31 undocumented historic properties would be decreased from what would occur under the No
- 32 Action Alternative due to the lower number of routes and the closure of routes into sensitive
- 33 areas.
- 34

35 Mitigation

- 36 Because no cultural resources inventories have been completed and sites of Native American
- 37 religious concern have not yet been identified, it is not possible to identify specific mitigation
- 38 measures. The range of treatment (mitigation) activities possible is quite large, but might include
- 39 avoidance (always the first choice) or providing access to tribes. Treatment is individually
- 40 tailored to the site of Native American religious concern that will be impacted, and consultation
- 41 with interested tribes is standard operating procedure.
- 42

43 **Cumulative Effects**

- 44 As with mitigation, cumulative effects on sites of Native American religious concern cannot be
- 45 specifically identified until cultural resources inventories are completed and such locales have
- 46 been identified. In general, however, erosion caused by vehicle travel, depending on its

- 1 proximity to a site, could have long-term negative impacts on both buried sites as well as those
- 2 with surface phenomena. The introduction of roads into an area might also increase the potential
- 3 for vandalism and looting.
- 4

5 ENVIRONMENTAL JUSTICE

6 Affected Environment: There are no minorities or low-income populations in or near the

- 7 project area.
- 8
- 9 Environmental Consequences & Mitigation: The Proposed Action and alternatives will not

10 have a disproportionately high and adverse human health or environmental effect on minorities

- 11 or low-income populations.
- 12
- 13 FARMLANDS, PRIME AND UNIQUE

Affected Environment: There are no prime or unique farmlands involved on BLM lands in theplanning area.

16

17 **Environmental Consequences & Mitigation**: There are no impacts to prime or unique

18 farmlands and no mitigation is necessary in any of the alternatives.19

20 INVASIVE, NON-NATIVE SPECIES:

21 Affected Environment: In the seven county region of Colorado that includes Lake, Chaffee,

22 Fremont, Park, Teller, Custer and Huerfano counties, 2556 incidents of invasive noxious weeds

23 have been inventoried by BLM and partners in the Upper Arkansas Weed Cooperative during the

24 period 1998-2005. Among inventoried noxious weed infestations, 363 occur within the Arkansas

25 River Travel Management Planning Area. Infestations occur primarily along county, state, and

26 federal roads and highways and include diffuse knapweed, Russian knapweed, spotted

27 knapweed, leafy spurge, Canada thistle, musk thistle, scotch thistle, bull thistle, hounds tongue,

28 salt cedar, Dalmatian toadflax, yellow toadflax, and a recent invasion of elongated mustard. The

species that are common in areas that have been disturbed by roads and trails and that are most at

30 risk to spread due to travel management decisions are leafy spurge, knapweed species, toadflax

- 31 species and hounds tongue.
- 32

33 Key factors driving the spread of invasive weeds are seed source, seed dispersal, and soil

34 disturbance. The risk of noxious weed invasion increases where expanding road and trail

35 networks, and associated soil disturbance, occur near established infestations. Confounding

36 forces in weed spread, in addition to seed dispersal by wind and water, is seed attachment and

37 dispersal by people, animals, motor vehicles, and construction equipment. Of particular concern

is seed imbedded in mud carried on vehicles and equipment, and weed seed contained in hay for

39 feeding horses. The recent establishment of invasive Elongated Mustard in the Wellsville area,

40 likely resulting from commercial traffic between seed sources in Nevada and the Arkansas River

- Travel Planning area, indicates threat of noxious weed spread by vehicle treads. Anticipated
 increases in recreational use of the public lands in the future will require mitigation for the
- 42 spread of weeds under all of the alternatives. However, the risk of weed spread and the degree to
- 44 which mitigations may be needed to prevent and control it correspond directly to the number

45 miles of designated travel routes, their location, and the amounts and kinds of use that occur on

46 them.

- 1 Weed treatment alongside county, state and federal highways is the responsibility of the
- 2 respective transportation agency. Since this plan does not have any effect on non BLM roads,
- 3 weed issues on those roads will not be assessed in this document.
- 4

5 Environmental Consequences:

6 Current Use Alternative (No Action): No weeds are being treated on public lands within the 7 project area presently. Over the next 10 years, however, increasing travel along BLM roads and 8 trails, particularly in the Crampton Mountain, Road Gulch, Kerr Gulch, Texas Creek, and Badger 9 Creek subunits, is likely to result in weed spread and higher weed control costs. Of particular 10 concern under this alternative is the potential for weed spread from adjacent subdivisions into the High Mesa Grasslands Research Natural Area. Weed issues could arise under this alternative if 11 12 "user created roads" are not controlled or if the number of users on the existing roads and trails 13 increases. Because of the relatively high mileage of routes available to the public under the 14 Current Use (No Action) Alternative (327.5 miles), as well as the extent and reach of user created routes, the potential for the spread of weed seeds by motor vehicles is very high, 15

16 compared to Alternatives B andC.

17

18 <u>Alternative A</u>: This alternative designates 372.1 miles of travel routes for public use, the highest

19 geographic extent and acreage of soil disturbance among the action alternatives. When compared

20 to the Current Use (No Action) alternative, Alternative A reduces the reach of potential weed

21 seed dispersal and spread due to restrictions on recreational travel in the Big Hole subunit and

High Mesa Grassland Research Natural Area. However, Alternative A poses a higher risk to

23 weed spread and establishment when compared to Alternatives B and C, due both to the linear

reach of routes within all subunits as well as their location, particularly up dry drainage basins. In

terms of potential adverse impact to vegetation and natural communities from invasive weeds,

Alternative A poses a higher risk than Alternatives B and C as measured by total area of soil

- 27 disturbance and proximity to inventoried weed infestations.
- 28

29 <u>Alternative B</u>: This alternative designates 239.7 miles of motorized routes for public use and has

30 the least extent and lowest acreage of soil disturbance among the action alternatives. The

31 geographic reach of motorized use and corresponding risk of seed dispersal by recreational travel

32 posed by Alternative B is the least among action alternatives analyzed. When compared to

33 Alternatives A and C, Alternative B is least likely to result in new weed infestations. This

34 alternative is the most favorable alternative among those analyzed from the standpoint of

35 reducing adverse impact from noxious weed spread as soil disturbance, proximity to established

36 noxious weed seed sources, and seed dispersal by recreational travel are limited by acreage and

- 37 extent of designated motorized routes.
- 38

39 <u>Alternative C (Proposed Action)</u>: The Proposed Action would decrease the total mileage of

40 designated routes that are available to the public under the Current Use (No Action) Alternative

41 from 327.5 miles to 310.8 miles, and reduces the reach of potential weed spread in Road Gulch,

- 42 West McCoy Gulch, and Kerr Gulch subunits. The potential for weed spread is somewhat
- 43 reduced under this option, particularly in subunits where recreational travel will be removed 44 from dry drainages and where potential growth in motorized travel in the High Mesa Grassland
- from dry drainages and where potential growth in motorized travel in the High Mesa Grassland
 Research Natural Area poses long-term risk of noxious weed spread to globally significant
- 46 natural communities . However, the new construction of ATV, motorcycle, and horse trails in

- this alternative in the Texas Creek and Grape Creek subunits, respectively, increases the risk and
 probability of new infestations along those routes.
- 3

13

4 **Mitigation**: Applicable to All Action Alternatives

- 56 1. Periodic monitoring of travel routes for new weed infestations
- 7 2. Treatment of new weed infestations
- 8 3. Use of weed free construction and maintenance equipment (removal of mud from tires, tracks, etc.)
- 10 4. Use of weed free seed and mulch for reclamation work
- Public education to promote cleaning recreational vehicles before riding on public
 lands; use of weed free horse feed

14 **Cumulative Effects**

- 15 In addition to growth in recreational travel, reasonably foreseeable actions that may effect
- 16 invasive and noxious weed spread over the next 10 years on private and public lands in the
- 17 Arkansas River basin include livestock grazing, residential growth, new road construction on
- 18 private lands, fuels reduction projects, utility corridor maintenance and upgrades, and new buried
- 19 utility rights-of-way. Other future activities on public lands in the travel planning area that could
- 20 also potentially impact the occurrence and spread of noxious weeds and require mitigation
- 21 include special recreation events, the proposed Over the River art project on the Arkansas River,
- 22 commercial forest products harvesting, and mining operations. The cumulative impacts to
- 23 noxious weed spread from all action alternatives will be dispersed and long-term and require on-
- 24 going monitoring and mitigation by BLM and partners.
- 25 26

27 WILDERNESS, AREAS OF CRITICAL ENVIRONMENTAL CONCERN, WILD AND

28 SCENIC RIVERS

- 29 Affected Environment: The Arkansas River Travel Management Plan (TMP) area includes
- 30 public lands within four Wilderness Study Areas (Upper and Lower Grape Creek, McIntyre
- 31 Hills, and Browns Canyon) and High Mesa Grassland Instant Study Area (ISA). The planning
- 32 area includes a portion of Browns Canyon Area of Critical Environmental Concern (ACEC) and
- 33 all of Arkansas Canyonlands ACEC and Grape Creek ACEC. There are no designated
- 34 Wilderness or Wild and Scenic Rivers within the planning area.

- 1 Wilderness Study Areas and Instant Study Areas:
- 2 The Wilderness Study Areas (WSA) and one Instant Study Area (ISA) were studied under
- 3 Section 603 of the Federal Land Policy and Management Act. Descriptions and analysis of these
- 4 areas are found in the *BLM Colorado State Office Intensive Wilderness Inventory* (November
- 5 1980), Cañon City District Wilderness Final Environmental Impact Statement (December,
- 6 1987), and BLM Colorado State Office Wilderness Study Report (October 1991).
- 7
- 8 Management of WSAs and ISAs is guided by BLM's Interim Management Policy for Lands
- 9 Under Wilderness Review (IMP). The IMP provides direction to BLM to maintain the

10 wilderness values of these areas until Congress either designates these lands as wilderness or

- 11 releases them for other purposes.
- 12

Below are descriptions of each WSA and the current uses and management concerns. The
locations of the WSAs are shown on Map 18 of the Map Appendix.

15

Browns Canyon WSA (CO-050-002) – Located approximately 6 miles south of Buena Vista in
 Chaffee County, this unit contains 6,614 acres of public land just east of the Arkansas River.

18 The southern half of the WSA (approximately 3,400 acres) is within the Arkansas River TMP

19 planning area; the northern half was included in the Fourmile TMP area. Rugged topography of

20 hills, gulches, and canyons characterizes the area. Elevation varies from 7,500 feet near the

- 21 Arkansas River to 8,400 feet near the eastern boundary that is contiguous with the San Isabel
- 22 National Forest. Human imprints identified during the Intensive Inventory were considered

23 minor (a few old mines and cabins) and substantially unnoticeable; thereby meeting the criteria

24 for naturalness set forth in Section 2 (c) of the Wilderness Act of 1964. Browns Canyon also

25 provides opportunities for solitude and for primitive and unconfined recreation (hiking, horse

riding, backpacking, hunting, wildlife viewing). Supplemental values identified during the

27 Intensive Inventory include important cultural resources and wildlife habitat. The entire area

- 28 was recommended by BLM as suitable for wilderness designation.
- 29

30 The primary trail access to Browns Canyon WSA is located along its north boundary near Ruby

31 Mountain (outside of the Arkansas River TMP area). Some visitors access the WSA from the

32 Arkansas River; however, this requires crossing the railroad right-of-way and is not legal access.

33 Hiking and horse riding in the area is slightly increasing as a result of population growth in the

34 local area and region. Also, the Browns Canyon Wilderness Bill (sponsored by Rep. Joel

35 Hefley) has increased interest in the area. Unauthorized motorized use originating from the San

36 Isabel National Forest (from the Turret Road) is an on-going management concern.

37

38 McIntyre Hills WSA (CO-050-013) – Located twelve miles southwest of Cañon City in Fremont

39 County, this unit contains 15,910 acres of public land and inholdings that include 520 acres of

40 State Trust Land, and 40 acres of private land. Rolling hills and steep rugged canyon and

41 mountain topography incised by small valleys and gullies characterize the area. Elevation varies

42 from 6,000 feet to 8,100 feet. The Intensive Inventory found that the area meets the basic

43 requirements for naturalness, opportunities for solitude and opportunities for primitive and

44 unconfined recreation (hiking, horse riding, camping, hunting). Supplemental values identified

- 45 during the Intensive Inventory include proximity to Front Range population centers and the
- 46 presence of numerous natural springs. The BLM did not recommend the area as suitable for

1 wilderness designation citing the limited extent of outstanding wilderness qualities within the 2 WSA.

3 4

5

6 7

8

McIntyre Hills WSA receives very limited use by the public due to limited access and lack of trails. Legal public access is available from the south near Poverty Mountain and Sheep Basin and from Five Point Gulch along US 50. Because of the rugged terrain and lack of trails, most of the recreation use occurs along drainages. Increasing development of private land along the east and south boundaries of the WSA has led to an increase of unauthorized motorized use within the WSA. Since 2005, BLM has closed four unauthorized routes within the WSA.

9 10

11 Lower Grape Creek WSA (CO-050-014) – Located approximately 7 miles west of Cañon City in

12 Fremont County, this unit contains 11,220 acres of public land and 75 acres of private

13 inholdings. Rugged, steep canyons formed by Grape Creek and its tributaries characterize the 14 area. Elevation varies from 6,400 feet to 8,300 feet. The Intensive Inventory found that the area

meets the basic requirements for naturalness, opportunities for solitude and opportunities for

15 16

primitive and unconfined recreation (hiking, horse riding, camping, hunting). Supplemental

17 values identified during the Intensive Inventory include a historic railroad grade that is the

remnants of a narrow gauge spur of the Denver and Rio Grande Railroad between Cañon City 18

19 and Silver Cliff. The BLM did not recommend the area as suitable for wilderness designation

20 stating in the BLM Colorado State Office Wilderness Study Report (October 1991) that "mineral

21 development related manageability problems and resource conflicts which could result if the area

22 23

was designated as wilderness."

24 Lower Grape Creek WSA receives relatively light recreation use although interest and use in the 25 area is slightly increasing. Hiking, horse riding, dispersed camping, hunting, and fishing are the 26 primary recreation activities. While designated trails do not exist at this time, visitors hike and 27 ride horses along cow paths, the abandoned railroad grade, and old mining roads. Primary access

into the area is from Sunset City Gulch, Bear Gulch, and Temple Canyon Park. Current 28

29 management concerns include controlling unauthorized motorized use and resolving access into

30 the unit from Temple Canyon Park where the public is trespassing on private land to access the

31 WSA.

32 33 Upper Grape Creek WSA (CO-050-017) – Located 10 miles southwest of Cañon City in 34 Fremont and Custer counties, this unit contains 10,200 acres of public land and 30 acres of 35 private inholdings. Rugged canyons formed by Grape Creek and its tributaries and rocky, rolling hills characterize the area. Elevation varies from 7,000 feet to 8,300 feet. The unit is separated 36 37 along its northern boundary from Lower Grape Creek WSA by a road that is closed on the west 38 side of Grape Creek along East Pierce Gulch but open on the east side (Bear Gulch). The 39 Intensive Inventory found that the area meets the basic requirements for naturalness, 40 opportunities for solitude and opportunities for primitive and unconfined recreation (hiking, horse riding, dispersed camping, hunting). Supplemental values identified during the Intensive 41 Inventory include a historic railroad grade that is the remnants of a narrow gauge spur of the 42 Denver and Rio Grande Railroad between Cañon City and Silver Cliff. The BLM did not 43 44 recommend the area as suitable for wilderness designation citing the limited extent of

45 outstanding wilderness qualities within the WSA.

46

1 Upper Grape Creek WSA receives relatively light recreation use although interest and use in the 2 area is slightly increasing. Hiking, horse riding, dispersed camping, hunting, and fishing are the 3 primary recreation activities. While designated trails do not exist at this time, visitors hike and 4 ride horses along cow paths, the abandoned railroad grade, and old mining roads. Primary access 5 into the area is from Bear Gulch. Private land along the west and east sides of the WSA makes 6 access difficult. Current management concerns include controlling unauthorized motorized use 7 that is occurring primarily from surrounding private land.

8

High Mesa Grassland ISA (CO-050-009) – On January 29, 1965, 680 acres known as the High
Mesa Grassland was withdrawn as a Research Natural Area by Public Land Order 3530. Section
603 of the Federal Land Policy and Management Act of 1976 directed accelerated wilderness
review for natural areas and primitive areas that were formally identified prior to November 1,
13 1975. These areas are referred to as "Instant Study Areas."

13 14

15 Located 13 miles northwest of Cañon City in Fremont County, High Mesa Grassland ISA

16 contains 680 acres of public land. The area includes the rolling mesa and steep slopes of Table

17 Mountain, locally known as Sommerville Table. Elevation varies from 8,500 to 9,100 feet. The

18 unit includes a relict plant community with 17 species of native grass. The report submitted by

19 the BLM Canon City District in 1979 to the Colorado State Director states "the area does not

20 meet the size requirement, is not natural within the context of wilderness requirements, and does 21 not offer outstanding opportunities for solitude or a primitive and unconfined type of recreation."

21

Access to High Mesa Grasslands is extremely limited due to a lack of legal public access. For

this reason, recreation use of the area is very limited. Visitors access the area by fording the
 Arkansas River near Echo Canyon and following old roads; however, this requires crossing the

railroad right-of-way north of the river which is closed to public access. The easiest access to the

area is from private land; this use is generally limited to family and friends of private

28 landowners. Current management concerns include controlling unauthorized motorized use

29 from adjacent private land and acquiring reasonable administrative access for BLM and legal

- 30 access for the public.
- 31

32 Areas of Critical Environmental Concern:

33

Areas of Critical Environmental Concern were designated in the Royal Gorge RMP (1996).

ACECs are to be managed to protect and enhance the special values identified in the RMP. Site specific plans for ACECs have not been developed.

37

38 Below are descriptions of each ACEC and the current uses and management concerns. The

39 locations of the ACECs are shown on Map 18 of the Map Appendix.

40

41 Arkansas Canyonlands ACEC (23, 921 acres) – This ACEC is managed to protect, enhance, and

42 interpret significant scenic, historic, and archaeological values, habitat for sensitive wildlife

43 (peregrine falcon and other raptors, bighorn sheep) and important fisheries. ACEC management

44 would also consider enhancing public access for recreation along the Arkansas River. The High

45 Mesa Grassland Research Natural Area (1,510 acres), a unique relict plant community and key

1 raptor habitat, is also part of this ACEC. High Mesa Grassland is also a Colorado Natural Area.

- 2 The northern portion of the McIntyre Hills WSA is within this ACEC.
- 3

4 Most of the public use within the ACEC occurs along the U.S. 50 and Arkansas River corridor.

- 5 There are eight recreation sites along the U.S. 50/Arkansas River corridor. According to BLM's
- 6 Recreation Management Information System, there were 193,000 visits to these sites in fiscal
- 7 year 2006. Common recreation activities are whitewater boating, fishing, driving for pleasure,
- 8 camping, picnicking, and wildlife observation. In areas of the ACEC outside of the
- 9 highway/river corridor, motorized access is very limited because of the rugged terrain. A few
- 10 user created motorized routes are present; however, they are limited by access and terrain.
- 11

12 Browns Canyon ACEC (11,697 acres/6,757 acres in the TMP area) – This ACEC is managed to

- 13 protect and enhance scenic values and peregrine falcon and bighorn sheep habitat. The ACEC 14 also encompasses the entire Wilderness Study Area. Current uses and management concerns of
- the WSA portion of the ACEC are discussed above. The ACEC (outside of the WSA) includes 15
- 16 all of the public lands along the Arkansas River through Browns Canyon just south of Ruby
- 17
- Mountain Recreation site to just east of Stone Bridge Recreation Site. This is the busiest stretch
- of the Arkansas River for whitewater boating. Visitor use at Hecla Junction Recreation Site was 18 19 estimated at 45,000 for fiscal year 2006. Three other recreation sites are located in the ACEC
- 20 (Ruby Mountain Recreation Site, Ruby Mountain Trailhead, and Bald Mountain Trailhead);
- 21 however, they are outside of the TMP boundary. Motorized access in the ACEC is limited to
- 22 two county roads. A hiking trail follows an abandoned road that starts at Hecla Junction and
- 23 runs south for approximately one mile along the west side of the river. Common recreation
- 24 activities are whitewater boating, fishing, camping, picnicking, and wildlife observation.
- 25

26 Grape Creek ACEC (15.978 acres) – This ACEC is managed to protect and enhance scenic 27 values, wildlife habitat, significant fisheries and riparian values. Portions of the Upper and

28 Lower Grape Creek WSAs are within the ACEC. BLM has two trailheads that provide access to 29 the ACEC – Bear Gulch and Dakota Water Gap. The public also accesses the ACEC from

- 30 Temple Canyon Park (City of Cañon City). In fiscal year 2006, visitor use at these two
- trailheads was estimated at just over 8,000. Common recreation activities are hiking, horseback 31 32 riding, fishing, dispersed camping, and hunting.
- 33

34 Current management concerns include controlling unauthorized motorized use that is occurring 35 primarily from surrounding private land (near Titusville Gulch) and resolving access into the unit

- from Temple Canyon Park where the public is trespassing on private land to access the 36
- 37 ACEC/WSA.
- 38

39 Central Colorado Wilderness Coalition "Wild Ten"

40

41 The planning area includes five areas identified by the Central Colorado Wilderness Coalition

- (CCWC) in its "Wild Ten" wilderness proposal. Three of these five areas (Browns Canyon, 42
- McIntyre Hills, and Grape Creek) are public lands that lie largely within BLM Wilderness Study 43
- 44 Areas. The lands within the CCWC Table Mountain (Big Hole subunit) and Badger Creek
- 45 proposed wilderness areas were not identified as having wilderness characteristics during BLM's

1 wilderness review process conducted in 1979 and 1980, and these areas are not managed to

- 2 maintain wilderness.
- 3 4

5

6

7

None of the alternatives propose new routes or the re-opening of existing closed routes in CCWC proposed wilderness areas for Browns Canyon, Badger Creek, McIntyre Hills, and Grape Creek. In addition, the Bear Gulch Road in the Grape Creek proposed wilderness would be closed to motorized and mechanized use under Alternative B. In the CCWC Table Mountain proposed wilderness, there would be no new routes under the Current Use Alternative and Alternatives B

8 wilderness, there would be no new routes under the Current Use Alternative and Alternatives9 and C. A new route open to motorcycle, mountain bike, equestrian, and hiking use would

10 allowed on the west side of the Table Mountain area under Alternative A.

11

13

12 Environmental Consequences/Mitigation:

Current Use (No Action):

14 Browns Canyon WSA and ACEC – Under this alternative, only non-motorized and non-

15 mechanized recreation is allowed within the WSA. There are no routes identified in the

16 inventory in the portion of Browns Canyon WSA within the Arkansas River TMP area. In the

- 17 ACEC outside of the WSA, motorized recreation would be restricted to the county road that
- 18 accesses Hecla Junction, Hecla Junction Recreation Site, and a short (.12 mile) spur route off of

19 the county road. An abandoned road near Hecla Junction that runs south for approximately one

20 mile along the west side of the river would continue to be used for foot travel. This alternative is

21 consistent with BLM's Interim Management Policy for Lands Under Wilderness Review and the

22 Browns Canyon subunit DFCs and management objectives found in <u>Appendix 2</u>. There would

23 be no short term, long term or cumulative impacts to wilderness or ACEC values.

24

McIntyre Hills WSA – Under this alternative, only non-motorized and non-mechanized
 recreation are allowed within the WSA. All user created routes would be closed. The motorized
 route that cuts across the far southwest corner of the WSA would be closed. This alternative is

27 route that cuts across the far southwest confer of the wSA would be closed. This alternative is 28 consistent with BLM's *Interim Management Policy for Lands Under Wilderness Review* and the

26 Consistent with BLW s *Interim Management Policy for Lands Under Wilderness Review* and the 29 McIntyre Hills subunit DFCs and management objectives found in Appendix 2. There would be

30 no short term, long term or cumulative impacts to wilderness values.

31

Arkansas Canyonlands ACEC— Under this alternative, motorized, mechanized, and non motorized and non-mechanized recreation would be allowed on existing routes. In the ACEC
 outside of the High Mesa Grassland ISA and McIntyre Hills WSA, motorized use on
 approximately 2 miles of routes would continue. All user created routes (approximately 1.6
 miles) would be closed. This alternative is consistent with BLM's *Interim Management Policy for Lands Under Wilderness Review* and the DFCs and management objectives for McIntyre
 Hills, Grand Canyon Hills, West McCoy Gulch, and Big Hole subunits found in Appendix 2.

Existing motorized public access may impact some of the ACEC values (scenic, historic, and

40 archaeological values, habitat for sensitive wildlife, fisheries) over the long term; however,

- 40 because motorized public access is very limited, the impact would also be limited and be offset
- 42 by the benefits of closing user-created routes. The continued availability of the network of

43 administrative access for authorized motorized use in the northern portion of the ACEC would

44 impact ACEC values; however, this impact would be limited as long as these routes are used

45 infrequently and maintained to prevent impacts to soils and vegetation and reduce visual impacts.

46

2 closed. Motorized use would be restricted to authorized administrative use only on the existing 3 primitive road. This alternative is consistent with BLM's Interim Management Policy for Lands 4 Under Wilderness Review and Big Hole subunit DFCs and management objectives found in 5 Appendix 2. The continued use of the primitive road for motorized administrative access would 6 impact wilderness values; however, the route existed at the time of the inventory and its use for 7 administrative access is permitted under the IMP. The impact would be very limited in scope as 8 long this route is used infrequently and maintained to prevent impacts to soils and vegetation. 9 10 Lower Grape Creek WSA, Upper Grape Creek WSA, and Grape Creek ACEC - Under this alternative, only non-motorized and non-mechanized recreation are allowed within the WSA. 11 All user created routes would be closed. In the ACEC outside of the WSA, motorized recreation 12 13 would be allowed on short spur routes (totaling about one mile) near Temple Canyon Park. This 14 alternative is consistent with BLM's Interim Management Policy for Lands Under Wilderness

High Mesa Grassland ISA- Under this alternative, the two user created ATV routes will be

15 *Review* and the Grape Creek subunit DFCs and management objectives found in <u>Appendix 2</u>.

16 There would be no short term, long term or cumulative impacts to wilderness or ACEC values.

17 18

1

Alternative A:

19 Browns Canyon WSA and ACEC – Under Alternative A, only non-motorized and non-

20 mechanized recreation are allowed within the WSA. In the ACEC outside of the WSA,

21 motorized use would be restricted to the county road that accesses Hecla Junction and the Hecla 22 Institute Description Site Askert (12 mile) are parts of a fithe second described and

Junction Recreation Site. A short (.12 mile) spur route off of the county road would be closed.
 An abandoned road near Hecla Junction that runs south for approximately one mile along the

An abandoned road near Hecla Junction that runs south for approximately one mile along the west side of the river would be designated for bicycle, horse, and foot travel. This alternative is

consistent with BLM's *Interim Management Policy for Lands Under Wilderness Review* and the

26 Browns Canyon subunit DFCs and management objectives found in Appendix 2. There would

27 be no short term, long term or cumulative impacts to wilderness or ACEC values.

28

29 McIntyre Hills WSA – The impacts would be the same as the Current Use Alternative except 30 that the user created route (3.5 miles) in Five Point Gulch would be designated for horse and foot travel and extended 2.5 miles to provide for legal public access from US 50. The trail that 31 32 enters the WSA just south of Five Points Campground would be designated for horse and foot travel instead of just foot travel. In the area of Poverty Mountain, a closed primitive road would 33 34 be designated for horse and foot travel. This alternative is consistent with BLM's Interim 35 Management Policy for Lands Under Wilderness Review and the McIntyre Hills subunit DFCs 36 and management objectives found in Appendix 2. There would be no short term, long term or 37 cumulative impacts to wilderness values.

38

39 Arkansas Canyonlands ACEC—The impacts would be the same as the Current Use Alternative 40 except that a trail would be designated for horse and foot travel in Five Point Gulch (see the 41 description under McIntyre Hills WSA above), 2.5 miles of administrative access would be 42 closed in the Big Hole area, and the foot trail from Five Points Campground would be designated 43 for foot and horse travel. The closure of administrative access would enhance scenic values 44 within the ACEC over time as these roads become less noticeable. This alternative is consistent 45 with BLM's Interim Management Policy for Lands Under Wilderness Review and the DFCs and

46 management objectives for McIntyre Hills, Grand Canyon Hills, West McCoy Gulch, and Big

1 Hole subunits found in Appendix 2. There would be no short term, long term or cumulative 2 impacts to ACEC values.

3

High Mesa Grassland ISA- The impacts would be the same as the Current Use Alternative.

4 5

6 Lower Grape Creek WSA, Upper Grape Creek WSA, and Grape Creek ACEC - The impacts 7 would be the same as the Current Use Alternative except that approximately 4 miles of 8 administrative access would be closed and a one-mile long route just south of Temple Canyon 9 Park would be closed to motorized and mechanized travel. These closures would reduce 10 motorized use and enhance wilderness and ACEC values. An additional mile of trail would be designated for horse and foot travel along the southwest side of the ACEC (outside of the WSA). 11 12 This alternative is consistent with BLM's Interim Management Policy for Lands Under 13 Wilderness Review and the Grape Creek subunit DFCs and management objectives found in 14 Appendix 2. There would be no short term, long term or cumulative impacts to wilderness or ACEC values. 15 16 17

Alternative B:

18 Browns Canyon WSA and ACEC – The impacts would be the same as Alternative A.

19 *McIntyre Hills WSA* – The impacts would be the same as the Current Use Alternative except

20 that 0.7 miles of administrative access would be closed and the user created route (3.5 miles) in

21 Five Point Gulch would be designated for horse and foot travel and extended 2.5 miles to

22 provide for legal public access from Five Point Gulch at US 50. This alternative is consistent

23 with BLM's Interim Management Policy for Lands Under Wilderness Review and the McIntyre

24 Hills subunit DFCs and management objectives found in Appendix 2. There would be no short

25 term, long term or cumulative impacts to wilderness values. 26

27 Arkansas Canyonlands ACEC— The impacts would be the same as the Current Use Alternative 28 except that a trail would be designated for horse and foot travel in Five Point Gulch (see the 29 description under McIntyre Hills WSA above) and 2.5 miles of administrative access would be 30 closed in the Big Hole area. The closure of administrative access would enhance scenic values within the ACEC over time as these roads become less noticeable. This alternative is consistent 31 32 with BLM's Interim Management Policy for Lands Under Wilderness Review and the DFCs and 33 management objectives for McIntyre Hills, Grand Canyon Hills, West McCoy Gulch, and Big 34 Hole subunits found in Appendix 2. There would be no short term, long term or cumulative 35 impacts to ACEC values.

36

37 *High Mesa Grassland ISA* – The impacts would be the same as the Current Use Alternative.

38

39 Lower Grape Creek WSA, Upper Grape Creek WSA, and Grape Creek ACEC – Approximately

40 4 miles of administrative access would be closed and an approximately one mile route just south

of Temple Canyon Park would be closed to motorized and mechanized travel. The Bear Gulch 41

Road would be closed to motorized and mechanized travel at the BLM/Forest boundary and 42

designated open to horse and foot travel into Grape Creek. This would likely reduce the 43 44 recreation use within this area of the WSA/ACEC. These road closures would reduce motorized

45 use and enhance wilderness and ACEC values. No other routes would be designated for horse or

foot travel; however, these uses would continue to occur. This alternative is consistent with 46

- 1 BLM's Interim Management Policy for Lands Under Wilderness Review and the Grape Creek 2 subunit DFCs and management objectives found in Appendix 2. There would be no short term, 3 long term or cumulative impacts to wilderness or ACEC values. 4 5 Alternative C (Proposed Action): 6 Browns Canyon WSA and ACEC – The impacts would be the same as Alternative A. 7 8 McIntyre Hills WSA – The impacts would be the same as Alternative A. 9 10 Arkansas Canyonlands ACEC— The impacts would be the same as Alternative A. 11 12 High Mesa Grassland ISA- The impacts would be the same as the Current Use Alternative. 13 14 Lower Grape Creek WSA, Upper Grape Creek WSA, and Grape Creek ACEC – The impacts 15 would be the same as Alternative A. 16 17 **VEGETATION** (includes a finding on Standard 3) 18 Affected Environment: The planning area includes a variety of vegetation communities 19 ranging in elevation from 5,000 feet to 10,500 feet. Annual precipitation varies from 10-20 20 inches, depending largely upon elevation. July and August are usually the wettest months. 21 Precipitation during these months, combined with the warmest temperatures during the year, 22 combine to produce the best growing conditions for most plant species. 23 24 A majority of the planning area was assessed for Public Land Health Standards on a fifth level 25 watershed basis between the years of 2002 and 2005. The watersheds within the planning area 26 that were assessed for compliance with the Standards for Public Land Health include; the Royal 27 Gorge, Tallahassee Creek, Lower Grape Creek, Texas Creek, Coaldale / Howard, South 28 Arkansas, and Browns / Salida Watersheds. Standards for Public Land Health describe the 29 conditions needed to sustain public land health and relate to all uses on public lands. These 30 standards are further described in Appendix 5. Public Land Health Standard No. 3 relates specifically to vegetation conditions and states, "Healthy, productive plant and animal 31 32 communities of native and other desirable species are maintained at viable population levels 33 commensurate with the species and habitat's potential. Plants and animals at both the community 34 and population level are productive, resilient, diverse, vigorous, and able to reproduce and 35 sustain natural fluctuations and ecological processes". The results of the health assessments are 36 described at the end of this section in the Finding on the Public Land Health Standard for Plant 37 and Animal Communities section. 38 39 The analysis of vegetation within the planning area is based on Range Site Descriptions. A 40 Range Site is used to describe plant communities using the interaction of soil properties, elevation, precipitation, topography, etc., based on the Soil Survey of Fremont, Chaffee and 41 Custer Counties. These site descriptions provide detailed information about the specific plant 42 species that can be expected to be present in the potential natural community for each specific 43
- 44 range site. The range sites within the planning area include both grassland and woodland
- 45 communities.
- 46

1 The grassland range sites are dominated by a grass and/or forbs component and tend to have 2 much deeper soils with a greater water-holding capacity than many of the other vegetation 3 communities in the planning area. The deep soils and relatively shallow root systems of grass 4 and forbs species tend to make these sites somewhat more susceptible to damage from vehicle 5 use than many of the other sites within the planning area. When soils are wet, these areas are 6 highly susceptible to rutting from vehicle tires. Furthermore, under wet conditions, vehicle 7 operators often tend to drive to the sides of existing ruts causing additional damage and 8 "braiding" of trails that result in further loss of vegetation. Grassland communities, however, 9 also tend to re-vegetate relatively rapidly when undisturbed. The grassland range sites within the 10 planning area consist of 33% of total vegetation and include Brushy Mountain Loam, Boulder Flats, Dry Shallow Loam, Dry Shallow Pine, Dry Mountain Outwash, Gravel Breaks, Gravelly 11 12 Foothill, Loamy Foothill, Loamy Glacial Outwash, Loamy Park, Loamy Plains, Mountain Loam, 13 Mountain Meadow, Mountain Outwash, Salt Meadow, Sandy Foothill, Shallow Loam, Shallow 14 Pine, Skeletal Loam, and Sandy Bench. 15 16 The Piñon-Juniper range site makes up a majority of the planning area on public land (182,395 17 acres). Sites containing a significant amount of Piñon and juniper vegetation are found at lower 18 elevations within the planning area. Piñon-Juniper range sites generally are characterized by

shallow soils and substantially less herbaceous ground cover than most of the other communities.
Erosion potentials for these vegetation communities tend to be somewhat higher due to these two
influences. These communities also often occupy very steep, rocky terrain. Areas with steeper
slopes have even higher erosion potentials. Also, due to the reduced amount of herbaceous

vegetation and shallow soils, natural re-vegetation of disturbed areas, such as roads or trails, is
 much slower in areas dominated by piñon/juniper vegetation than in other communities.

25

28

The upper elevation woodland communities are dominated by coniferous woodland species such as Ponderosa Pine, Douglas-fir, and Engelmann spruce. If undisturbed, they tend to have either:

29 1) Sufficient herbaceous understory species to provide soil protection and to control erosion.

30 This is the case with ponderosa pine sites that often include an understory of shrubs such as

- Gambel oak or mountain mahogany or grass species such as Arizona fescue or mountain muhley;
 or
- 33

Sufficient forest litter (needlecast, etc.) to provide soil protection and to control erosion. This
is the case with some of the spruce, fir or spruce/fir mix vegetation classes.

36

These communities occupy higher elevations than the Piñon/juniper woodland communities and,therefore, receive greater amounts of precipitation.

39

40 Vegetation accomplishes several key functions as part of the various landscapes within the

41 planning unit. These functions include: providing forage and other habitat elements for wildlife;

42 providing forage for domestic livestock use; stream bank stabilization; and protection and

43 stabilization of upland soil surfaces. Several of these functions are addressed in other portions of

44 this analysis. Certain plant communities, however, also have specific characteristics that will be

45 impacted differently by the amount and location of motorized roads and trails.

46

Environmental Consequences/Mitigation: Generally, the establishment of a road or trail precludes vegetation from occupying the same location. The presence of roads and trails provide no benefit to vegetation. The exception to this may apply where roads or trails are utilized to facilitate some type of land treatment, such as prescribed burning or weed treatments, etc., designed to improve overall vegetation conditions.

6

7 From a practical standpoint, the number of motorized roads or trails included in any of the

8 alternatives is insufficient to significantly impact the total amount of vegetation resources in the

9 planning area. For example, the Piñon/juniper range site occupies 182,395 acres of public land

10 within the planning area. Even under the current management situation (No Action Alternative),

11 which includes the highest number of roads and trails, only about 1,633 acres of direct vegetation

12 loss occurs in Piñon/juniper vegetation, or less than 1% of the overall acreage occupied by this

- 13 vegetation community.
- 14

15 While the direct impact of motorized roads and trails on the overall amount of vegetation

16 resources may be slight, the environmental consequences of vegetation loss due to roads and

17 trails can have a substantial impact on other resource values (soil erosion, wildlife forage and

18 habitat, etc.). In order to achieve the desired future conditions of the planning area and the

19 individual subunits, and to conform to BLM's mission to manage for sustainable landscapes that

20 are meeting the Standards for Public Land Health (<u>Appendix 5</u>), the interdisciplinary team

21 attempted to limit motorized uses to the most appropriate areas. This portion of the analysis

examines how vegetation characteristics of the planning area would be affected by each of the

alternatives. Table 3 displays the acres of impacts to individual range sites by alternative.

Range Sites	Alternative A	Alternative B	Alternative C (Proposed)	No Action (Current)	
Brushy Mountain Loam	17	18	17	20	
Boulder Flats	4	4	4	4	
Dry Shallow Loam	1	1	1	1	
Dry Shallow Pine	8	7	6	12	
Dry Mountain Outwash	30	30	30	41	
Gravel Breaks	0	0	0	0.5	
Gravelly Foothill	104	88	94	152	
Loamy Foothill	248	243	247	297	
Loamy Glacial Outwash	13	13	13	13	
Loamy Park	33	32	32	39	
Loamy Plains	1	1	1	1	
Mountain Loam	55	56	57	66	
Mountain Meadow	4	4	4	4	
Mountain Outwash	0	0	0	0.5	
Salt Meadow	0	0	0	1	
Sandy Foothill	142	133	138	170	
Shallow Loam	19	17	17	23	
Shallow Pine	20	22	20	29	
Skeletal Loam	20	17	19	25	
Sandy Bench	3	3	3	11	
Douglas-Fir	71	68	69	80	
Piñon-Juniper	1,341	1,260	1,309	1,633	
Ponderosa Pine	82	78	80	104	
Spruce-Fir	7	6	6	9	
TOTAL	2,233	2,101	2,167	2,736	

1 Table 3 – Acres of Vegetation Impacted by Roads and Trails

2

<u>No Action Alternative</u>: Under the No Action Alternative, vegetation would continue to be
 absent on approximately 2,736 acres of lands occupied by roads and trails. Extensive motorized
 uses would still occur to a large extent in many of the areas such as Grand Canyon Hills, Texas
 Creek, and Sand Gulch.

7

8 Under the No Action Alternative, the Standard for Public Land Health for vegetation would be

9 met for most of the TMP area. In some portions of the above listed areas, however, the impacts
10 to vegetation caused by routes would increase over time and gradually move away from

- 1 achieving the Standards for Public Land Health. There are no short term cumulative impacts
- 2 anticipated under this alternative, however, if more unauthorized routes are created and 3 unchecked, there may be long term cumulative impacts.
- 4
- 5 Alternative A: Under Alternative A, vegetation on approximately 2,233 acres would be absent
- 6 on lands occupied by travel routes. The routes that would be closed to motorized use, combined 7
- with the new routes to be constructed, would still result in a net improvement to vegetation on
- 8 approximately 503 acres or 18% decrease in direct impact to vegetation communities currently 9 impacted by motorized routes.
- 10
- 11 Under this alternative, most of the TMP area would be meeting or moving towards meeting the 12 Standard for Public Land Health for vegetation. However, some areas that are more affected by 13 travel uses may not be moving towards meeting the standard. These areas would include Turkey 14 Rock and Reese Gulch. Except for the No Action Alternative, this alternative provides for the greatest number of routes and thereby would have the greatest impact on the vegetation standard. 15 16 Even though there are less routes overall than the Current Use Alternative, areas such as Turkey
- 17 Rock and Reese Gulch would have more routes designated in a small area and possibly resulting
- 18 in long term direct impacts to vegetation in those areas.
- 19

20 Under Alternative A, driving off roads to park, camp, and retrieve game would be limited to a maximum distance of 100 feet. These activities would be short term and temporary resulting in 21

- 22 limited disturbance to vegetation.
- 23
- 24 Mitigation is same as Alternative C.
- 25

26 Alternative B: Alternative B provides the most benefit to vegetation resources within the

27 planning area. Under this alternative, vegetation would be absent on approximately 2,101 acres

of lands occupied by existing roads and trails. No new travel routes are constructed in this 28

29 alternative, and the routes that would be closed to motorized uses would result in a substantial

30 improvement to vegetation on approximately 635 acres or 23 % of the amount of vegetation

- currently impacted by motorized routes. Motorized uses would be reduced or precluded in many 31
- 32 of the vegetation communities that are most susceptible to damage from vehicles driving off
- 33 roads.

34

35 Under Alternative B, most of the TMP area would be meeting or moving towards meeting the 36 Standard for Public Land Health for vegetation. Of the action alternatives, however, this 37 alternative provides for the fewest number of roads and thereby would have the least impact on

- 38 the vegetation standard. There would be no short term or long term cumulative impacts to
- 39 vegetation.
- 40

41 Under Alternative B, driving off roads to park, camp, and retrieve game would be limited to a maximum distance of 100 feet. These activities would be short term and temporary resulting in 42

43 limited disturbance to vegetation.

- 44
- 45 Mitigation is same as Alternative C.
- 46

- 1 Alternative C (Proposed Action): Under the Proposed Action, approximately 2,167 acres of
- 2 vegetation would continue to be absent on lands occupied by travel routes. The routes that
- 3 would be closed to motorized use, combined with the new routes to be constructed, would still
- 4 result in a net improvement to vegetation on approximately 569 acres or 21% of the amount of
- 5 vegetation currently impacted by motorized routes.
- 6
- 7 Under the Proposed Action non-motorized uses are emphasized throughout the TMP area,
- 8 resulting in substantially reduced impacts to vegetation than under the No Action Alternative.
- 9 Some routes would be closed or restricted to uses that would reduce travel-way widths, resulting
- 10 in increased vegetation cover along these routes.
- 11
- 12 Under this alternative, motorized uses are emphasized in the Grand Canyon Hills, Texas Creek,
- 13 and Sand Gulch areas designated as OHV Limited to Designated Roads and Trails. A new OHV
- 14 Open designation would be established at Turkey Rock where motorized travel off designated
- routes would be limited to users of trials bikes only. In addition, new route construction is 15
- 16 proposed in both the Texas Creek and Salida sub-units. Both of these sub-units are dominated
- 17 by Piñon/Juniper woodland range sites interspersed with grassland sites. These communities
- contain only a small amount of herbaceous ground cover that could be impacted by vehicles. 18
- 19 Consequently, some increased impacts to vegetation would occur in both sub-units, resulting
- 20 from the construction of new routes. Because of the high level of motorized uses already
- 21 occurring in these sub-units, the additional impacts would be only slightly greater than under the
- 22 No Action Alternative.
- 23
- 24 The Proposed Action also includes the stipulation that driving off roads to park and camp would
- 25 be limited to a maximum distance of 100 feet. These activities would be short term and 26 temporary resulting in limited disturbance to vegetation.
- 27
- 28 After implementation of travel management in the planning area, there could be continuing
- 29 problems with illegal motorized vehicle use occurring off designated routes. Areas that contain
- 30 large amounts of open grassland communities and some of the relatively open ponderosa pine
- woodland communities are particularly susceptible to damage from this type of use. By 31
- 32 emphasizing motorized use in the Texas Creek, Grand Canyon Hills, Sand Gulch, and Turkey
- 33 Rock areas, the impacts to vegetation in other areas should be reduced, resulting in a net benefit
- 34 to vegetation throughout the planning area.
- 35 Under the Proposed Action, most of the TMP area would be meeting or moving towards meeting
- 36 the Standard for Public Land Health for vegetation. In the Texas Creek, Grand Canyon Hills,
- 37 Sand Gulch, and Turkey Rock areas, however, some movement away from meeting the
- 38 Standards would occur as a result of the greater number of roads and increased motorized use in
- 39 these areas. Overall, both short and long term cumulative impacts would be minimal under this alternative.
- 40
- 41
- 42 **Mitigation**: Reroute those sections of roads in grassland areas that show unnecessary impacts to
- vegetation, such as braided or parallel routes. Any artificial re-vegetation done on closed routes 43
- 44 should be seeded with native plant species adapted to the particular site.
- 45

1 In areas where motorized use continues to occur off designated roads, implement measures to 2 prevent this activity with signs, fencing, barriers, and other appropriate means.

2 3

4 Cumulative Effects: Historically, logging, mining, livestock grazing, fire suppression, and to 5 some degree recreation have impacted the composition and structure of vegetation present in the 6 planning area today. Currently, the primary forces driving vegetation condition and extent in the 7 planning area include drought, insect outbreak in pinon and mixed conifer forests, aspen die-off, 8 housing development, livestock grazing, recreation, and to some degree logging. Reasonably 9 foreseeable natural processes and human driven actions that may impact vegetation composition, 10 structure, and extent include expanding insect outbreak, wildfire, climate change, livestock grazing, recreation and development, The incremental impact of travel designation and OHV 11 12 travel cumulative to these other forces influencing vegetation is expected to be long-term but 13 minimal. 14

15

16 Finding on the Public Land Health Standard for Plant and Animal Communities (partial, see 17 also Wildlife, Aquatic and Wildlife, Terrestrial): As stated above, a majority of the planning area has 18 been assessed for Public Land Health Standards on a fifth level watershed basis between the 19 years of 2002 and 2005. The total area assessed within the travel management area included 20 221,220 acres. Approximately 190,070 acres were determined to be meeting this standard. Of 21 the approximately 31,000 acres that were not meeting this standard, over 30,000 acres were 22 primarily due to increases in the amount and density of Piñon/juniper woodland vegetation over 23 time. With the suppression and lack of naturally occurring fire in the area, Piñon and juniper 24 canopies have steadily grown increasingly dense. These woodlands have begun to encroach into 25 many open parks, meadows, grasslands and shrublands. As this continues over time, many areas 26 are characterized by decreasing amounts of herbaceous plant cover and higher amounts of bare 27 ground. Productivity, vigor and diversity of these areas begin to decrease. These areas begin to 28 retain less moisture during precipitation events and allow higher levels of surface runoff and soil 29 movement. A small amount of vegetation problems (approximately 1,000 ac.) were related to 30 livestock grazing within the watershed. Livestock use in those specific areas has been addressed 31 over the last several years through changes in livestock management and the implementation of 32 several fencing projects.

- 1 SOILS (includes a finding on Standard 1)
- 2 Affected Environment: The Arkansas River travel planning area covers a large area and
- 3 contains many different soil types. BLM uses soil surveys from the Natural Resources
- 4 Conservation Service for purposes of analysis. Surveys are complete for the entire area and are
- 5 available in a digital format that allows users to analyze data using GIS technologies.
- 6 Travel routes in the Arkansas River travel planning area within Fremont County alone cross 86
- 7 different soil types, with 77 being classified as having a high erosion hazard. In general, most of
- 8 the Arkansas River travel planning area has shallow soils with a granitic parent material. In the
- 9 Arkansas River valley between Coaldale and Salida there are areas of shallow soils derived from
- 10 sedimentary rock parent material. Most of these soils are low in nutrients, have a low water
- 11 holding capacity, and are slow to revegetate after disturbance.
- 12
- 13 The Colorado BLM is directed to address the Standards for Pubic Land Health. Standard
- 14 number one is directed at upland soils and states that "Upland soils exhibit infiltration and
- 15 permeability rates that are appropriate to soil type, climate, land form, and geologic processes.
- 16 Adequate soil infiltration and permeability allows for the accumulation of soil moisture
- 17 necessary for optimal plant growth and vigor, and minimizes surface runoff." The Standards for
- 18 Public Land Health are discussed in greater detail in <u>Appendix 5</u>.
- 19

20 At this time, most of the soils in the Arkansas River travel planning area are meeting standards.

- 21 In some areas soils are not meeting standards due to the encroachment of Piñon/juniper forests
- 22 out competing and eliminating herbaceous vegetation, resulting in less ground cover. The
- 23 presence of traveled routes contributes to not meeting land health standards for soils.
- 24

25 Environmental Consequences

- 26 Effects Common to All Alternatives: Roads and trails have many negative impacts and no 27 benefits to soils in an area. All alternatives in this plan would have negative impacts to the soil 28 resource in varying degrees depending on the miles of roads and trails left open. Factors such as 29 slope, precipitation, vegetative cover, presence of cryptogamic cover (organic crust), soil type, 30 and water runoff all affect the amount of erosion. Erosion is accelerated with manmade disturbances such as roads and trails. Most of the effects of routes on soils can be attributed to 31 32 soil compaction resulting in impacts to water quality and hydrologic functions. As soil is 33 subjected to pressure, the soil particles are pressed together into a denser mass, as air and gasses 34 are pushed out of the soil. This compaction creates a soil that is less permeable to water and air 35 infiltration and ultimately affects the soils ability to nourish plant roots and soil microbes. Soil 36 compaction is exacerbated when soils are wet. Soil compaction also increases the amount of 37 runoff that flows off the route into surrounding drainages, causing gullies and increased erosion. 38
- In addition to compaction, over time the shallow soils in the Upper Arkansas River region tend to erode down to larger materials. This results in routes spreading over larger areas as users seek smoother surfaces. This leads to increased impacts, as new soil is disturbed and larger materials get broken down by the mechanical action of feet, hooves, or wheels. The reader is also directed to the Water Quality and Hydrology section for further discussion of impacts related to soils
- 44 impacts.
- 45

Comparison of Alternatives: In order to analyze the soils impacts of the alternatives, soil loss from the entire network of routes was modeled using the best data available (Table 4). Using this data, soil erosion was estimated using the Revised Universal Soil Loss Equation (RUSLE). RUSLE predicts the average annual soil loss over a long period of time. Most of the soil loss in the Arkansas River travel planning area is from infrequent, large events where there could be several years of little or no soil loss and then one storm that produces four times the annual average.

8

9 These estimates demonstrate the amount of soil in tons per year that is being lost from routes on

10 BLM lands under the current management in this area, and show the amount of soil erosion that

11 can be expected under each of the alternatives. Table 4 shows the results of this analysis.

12

13 Table 4: Average Annual Soil Loss from the Arkansas River travel planning area

Alternative

The find we						
	No Action	Alternative C	Alternative B	Alternative A		
Soil Loss (tons/year)	2260	1850	1735	1930		

14

15

16 <u>No Action Alternative</u>: Under the No Action alternative a total 267 miles of roads and trails on 17 public lands would be available for public travel uses, not including Non-BLM routes (county 18 and state highways). Of this total, 232 miles would be available for motorized uses and 35 miles

for non-motorized and mechanized uses. Estimated annual soil loss from travel routes resulting

from the No Action Alternative would be 30% higher than in Alternative B and 22% higher than

21 in Alternative C. The No Action Alternative would be 30% inglief that in Alternative B and 22% inglief that 21

22 mitigation efforts over the long-term to control erosion and meet the Soil Standard for Public

23 Land Health. (See mitigation under Water Quality/Hydrology)

24

25 <u>Alternative A</u>: Under Alternative A, a total of 327 miles of roads and trails would be designated

for public travel uses, not including Non-BLM routes (county and state highways). Of this total,
220 miles would be designated for motorized uses and 107 miles for non-motorized and

27 220 miles would be designated for motorized uses and 107 miles for non-motorized and 28 mechanized uses. The estimated annual soil loss from designated travel routes in Alternative A

would reduce soil loss over the long-term by 17% when compared to the No Action Alternative

30 but would still be very high and require extensive mitigation measures to control erosion. (See

31 mitigation under Water Quality/Hydrology). Under this alternative there would be the greatest

32 possibility of the action alternatives that the Soil Standard for Public Land Health would not be

33 met in localized areas. It would also be very costly to meet Desired Future Conditions for soils

34 without extensive mitigation.

35

36 <u>Alternative B</u>: Under Alternative B a total of 178 miles of roads and trails would be designated

37 for public travel uses, not including Non-BLM routes (county and state highways). Of this total,

38 135 miles would be designated for motorized uses and 43 miles for non-motorized and

39 mechanized uses. Compared to the other alternatives, the estimated annual soil loss from travel

40 route designations in Alternative B would be relatively low and would require the least

41 mitigation to control erosion. (See mitigation under Water Quality/Hydrology) Under this

42 alternative, there would be the smallest possibility that the Soil Standard for Public Land Health

1 would not be met in localized areas. Desired Future Conditions for soils would best be achieved under this alternative.

2 3

4 Alternative C - Proposed Action: Under Alternative C a total of 258 miles of roads and trails

5 would be designated for public travel uses, not including Non-BLM routes (county and state

6 highways). Of this total, 181 miles would be designated for motorized uses and 77 miles for

- 7 non-motorized and mechanized uses. The estimated annual soil loss from travel route
- 8 designations in Alternative C would be moderate and would require mitigation to control
- 9 erosion. (See mitigation under Water Quality/Hydrology). Under this alternative there would be

10 a moderate possibility that the Soil Standard for Public Land Health would not be met in some

localized areas. With mitigation, Desired Future Conditions for soils within the planning area 11 could be met.

12 13

14 Mitigations: See mitigation under Water Quality/Hydrology

15 16 Cumulative Effects: The Arkansas River travel planning area has a very diverse land

17 ownership pattern that is rapidly changing. In looking at the entire area, there are many factors

affecting the soils. Much of the private land in this area is being subdivided and becoming 18

19 increasingly developed with new routes and home sites, adding to the impacts in the watersheds.

20 Thirty-five and forty acre parcels that were formerly parts of large ranches and used primarily for

21 livestock grazing are now being occupied for home sites with different management. Often this

22 management includes poorer soil conditions due to overgrazing and soil compaction resulting

- 23 from more animals on a piece of ground than its carrying capacity.
- 24

25 Along with the impacts caused by the development of new routes and home sites, there are 26 impacts associated with grazing and historical logging that continue to influence the soils of the 27 Arkansas River travel planning area. The Arkansas River TMP is an important piece of the 28 watershed and soils management equation. It will determine the kinds and amounts of travel 29 uses that will be allowed on the public lands within the affected watersheds. As the development 30 of private lands for residential homes and the demand for recreational uses on public lands continue to increase, the decisions made in the Arkansas River TMP will play an important role 31 32 in determining the overall health of these watersheds.

33

34

35 Finding on Public Land Health Standards for Soils (Standard 1): Under the No Action 36 Alternative, soil loss would continue at current levels and would likely increase overtime. Since 37 soil impacts are directly related to the footprint of the roads on the landscape, the amount of soils 38 meeting standards is directly related to the amount of land surface covered by roads. Therefore, 39 all the action alternatives would result in improvements over the No Action Alternative. Of the 40 three action alternatives, the land health standards for soils would be best met under Alternative B because it provides the lowest miles of routes. Alternative A would provide the least benefit to 41 soils due to the high number of routes, while the benefits from the Proposed Action would lie in 42 43 between. 44

- 45
- 46

- 1 WATER QUALITY, SURFACE AND GROUND (includes a finding on Standard 5)
- 2 Affected Environment: The Arkansas River travel planning area involves 11 5th level
- 3 watersheds and forty-five 6th level watersheds of which 32 of the 6th level are affected by travel
- 4 planning decisions. The names and Hydrologic Unit Codes (HUC) of these watersheds are listed
- 5 in (Tables 5-1 & 5-2). These watersheds are all tributary to the Arkansas River and supply
- 6 water for many downstream users. Among the users of water from the Arkansas River are the
- 7 Cities of Salida and Cañon City, along with several agricultural interests.
- 8 9
 - Table 5-1 5th Level Watersheds in the Arkansas River travel planning area

5 th Level Watershed Name	Hydrologic Unit Code
Browns/Salida Composite	1102000105
Tallahassee/Current Creek	1102000112
Badger Creek	1102000109
South Arkansas River	1102000107
Royal Gorge Composite	1102000110
Cañon City Composite	1102000204
Coaldale/Howard Composite	1102000108
Lower Grape Creek	1102000114
Texas Creek	1102000111
Hardscrabble Creek	1102000206
Upper Grape Creek	1102000113

10

6 th Level Sub-Watershed Name	Hydrologic Unit Code		
Brown Canyon Composite	110200010515		
Lowest Currant Creek	110200011206		
Lower Badger Composite	110200010910		
Salida Composite	110200010516		
East Salida Creeks	110200010518		
Lower Cottonwood Composite	110200011209		
Fernleaf Gulch	110200011004		
Tallahassee Creek	110200011210		
East Gulch	110200011010		
Howard Composite	110200010801		
Mouth of Badger Composite	110200010912		
Royal Gorge Composite	110200011014		
Poncha Springs Composite	110200010716		
Sand Creek	110200020404		
Canon City Composite	110200020405		
Echo Composite	110200011008		
Bear Creek	110200010802		
Coaldale Composite	110200010806		
Copper Gulch	110200011012		
Falls Gulch	110200011001		
Lowest Grape Composite	110200011408		
Texas Creek Composite	110200011105		
Sand Gulch	110200011006		
Pine Gulch	110200011406		
Hayden Creek	110200010810		
Oak Creek	110200011002		
Middle Grape Creek Composite	110200011402		
Big Cottonwood Creek	110200010814		
Upper Oak Creek	110200020401		
Deweese Reservoir Composite	110200011315		
Querida Gulch Composite	110200011404		
Westcliffe Composite	110200011314		

1 <u>Table 5-2 6th Level Watersheds in the Arkansas River travel planning area</u>

2 3

3 <u>Historical Overview</u>: Since European settlement, the Upper Arkansas River area has

4 experienced many changes in land use. Beginning in the mid-to-late 1800s, mining and related

5 logging in the Leadville area disturbed much of the headwaters of the Arkansas River. The

6 removal of trees in the area led to an increase in runoff and frequently tailings piles were placed

7 in streams. These impacts can be seen today in tailings piles scattered throughout the area.

8

9 After the mining boom, overgrazing by cattle and sheep in the early 1900s damaged many of the

10 watersheds in the planning area. These grazing practices resulted in stream channels losing their

11 stability due to a combination of two factors. The first factor was that grazing increased the

12 magnitude and timing of runoff, resulting in excess water delivery to the stream channels. The 13 second factor was the removal of streamside vegetation that historically stabilized the channel

13 second factor was the removal of streamside vegetation that historically stabilized th

14 and allowed flood flows to pass without channel damage.

- Travel corridors for timber cutting and settlement were put in near or immediately adjacent to
 watercourses during the early to mid 1900s. These routes further increased sediment yields and
- 3 the magnitude of water flow throughout the area. Routes also went through riparian vegetation,
- 4 further damaging stability by reducing valley width. Once a channel destabilizes it will try to
- 5 reach a balance between the new flows and sediment load. Many of the channels in the planning
- 6 area did this by down cutting and adding more sediment to the system.
- 7
- Buring the mid 1900s, aggressive rehabilitation was undertaken that included check dams, route
 maintenance, and better grazing practices. This improved the situation in many of the channels
- 10 throughout the area but many are still stabilizing.
- 11
- 12 <u>Existing Conditions</u>: The Colorado BLM is directed to address the Standards for Pubic Land
- 13 Health. Standard number five is directed at water quality and states that, "The water quality of
- 14 all water bodies, including ground water where applicable, located on or influenced by BLM
- 15 lands will achieve or exceed the water quality standards established by the State of Colorado.
- 16 Water quality standards for surface and ground waters include the designated beneficial uses,
- 17 numeric criteria, narrative criteria, and anti-degradation requirements set forth under state law as
- 18 found in (5 CCR 1002-8), as required by Section 303(c) of the Clean Water Act." The Standards
- 19 for Public Land Health are discussed in greater detail in <u>Appendix 5</u>.
- 20
- 21 The Colorado Water Quality Control Act gives authority to the Colorado Water Quality Control
- 22 Commission to classify and assign numeric standards to state waters. State waters are classified
- 23 for the present beneficial uses of water, or the beneficial uses that may be reasonably expected in
- 24 the future. The classifications for beneficial uses include: aquatic life, recreation, agriculture,
- and water supplies for various purposes. The numeric standards are assigned to define the
- allowable concentrations of various parameters under the following categories: physical and
- 27 biological, inorganic and metals.
- 28
- 29 The Colorado Water Quality Control Commission has included a narrative statement in the Basic
- 30 Standards for all surface waters that states, in part: "All waters (except in wetlands and/or except
- 31 where authorized by approved permits, certifications or plans of operation) shall be free from
- 32 substances attributable to human caused point or non-point source discharges in amounts,
- 33 concentrations or combinations that:
- 34 1. Can settle to form bottom deposits detrimental to the beneficial uses.
- 35 2. Are harmful to the beneficial uses or toxic to humans, animals, plants or aquatic life.
- 36 3. Produce a predominance of aquatic life (CO Dept of Health and the Environment)".
- 37
- Both sediment and nutrient loading in surface waters could result in violations of the abovestandard.
- 40
- 41 Waters within the state that are not meeting state water quality standards are placed on the 303(d)
- 42 list until the water quality is improved. Waters that are thought to be impaired but not enough
- 43 data exists to make a determination, are placed on the monitoring and evaluation list. Currently,
- 44 no waters within the planning area are on the 303(d) or the Monitoring and Evaluation lists
- 45 (Colorado Department of Public Health and Environment, 1998). While not on the state lists,
- 46 Badger Creek has historically been a major source of sediment to the main stem of the Arkansas

1 River and many projects have been implemented over the years to help control sediment loads in

- 2 Badger Creek.
- 3

4 Many water sources (springs, seeps, water developments, and wells) on public lands within the

5 planning area have adjudicated water rights for beneficial uses, including livestock, wildlife,

- 6 human consumption, recreation, and fire suppression. Sediment entering these sources shortens
- 7 their life span and increases the amount of maintenance that is required. Many of the structures
- 8 (dams, infiltration galleries, etc.) associated with these water sources were also designed to
- 9 accommodate a specific amount of runoff. Increased runoff could threaten the structural
- 10 integrity of these facilities. Other than the waters that are not meeting state water quality
- standards, all waters within the TMP area are meeting the water quality Standard for Public LandHealth.
- 12 13
- 14 The increase and the total number of travel routes seen today have a definite negative influence
- 15 on water quality and hydrology, much like was seen in the earlier part of the 20th century. As
- 16 routes and use increase, soil stabilizing vegetation is removed and soils are compacted, leading to
- 17 increased runoff, sedimentation and downstream channel destabilization.
- 18

19 Environmental Consequences:

- 20 <u>Effects Common to All Alternatives</u>: There are few, if any, environmental benefits to the
- 21 watershed and water quality from roads and trails. All alternatives in this plan would have
- negative impacts to water quality and hydrologic functions in varying degrees depending on the
- 23 miles of roads and trails that are designated for use.
- 24 The largest impact is sediment. Sediment loads carried by drainages are a natural part of
- 25 watersheds and maintains relative stability among bed and banks, including erosion and
- 26 deposition. Erosion in a watershed resulting from routes and other disturbances can overload a
- channel, aggrading the bed, changing channel pattern, and causing sedimentation of lakes,
- reservoirs, and ditches, along with changing stream response to flood waters. The sedimentation
- of lakes, reservoirs and ditches could have an effect on the beneficial uses of the waters as water users would be required to maintain water developments more frequently. The amount of
- users would be required to maintain water developments more frequently. The amount of
 additional sediment and runoff from roads and trails varies by type and levels of use. Given the
- 31 additional sedment and funion from roads and trans varies by type and levels of use. Given the 32 same soil types and slopes, foot trails with low use will have much less impact to the watershed
- than a wide road that is heavily used by vehicles. In general, impacts increase as width and
- 34 weight increase. The Soils Section of this document quantifies the amount of erosion and/or
- sedimentation in the planning area and represents the difference between all the alternatives
- 36 across the entire planning area.
- 37
- 38 Along with increased runoff, time-to-peak, erosion and sediment, roads and trails located in
- 39 channel bottoms have the most impact. This is because they remove stabilizing vegetation and
- 40 makes substrate available for mobilization and increase sediment loads over longer distances
- 41 then do routes in upland areas.
- 42
- 43 Route location is the biggest factor in the actual amount of impact to a waterway. A route that is
- 44 closer to a waterway will generally have a greater impact then one with a ridge top location. In
- 45 addition to route location, route density provides a comparative measure of total impermeable
- 46 surface in a watershed. Route density provides a relative estimate of mileage of surface

1 disturbance and aggregates impacts that route networks have on adjacent or nearby drainages

2 within a watershed. Route density is a function of length of routes by acreage. In this analysis

3 route density is measured on a miles of routes per square mile basis. High route densities

4 generally equal greater impacts to the watershed. The table in <u>Appendix 8</u> displays route

5 densities that would be provided under each alternative for sub-drainages within the sixth level

6 watersheds in the planning area. Route densities of 15 miles/square mile are typical densities of 7 urban areas.

8

9 The amount and time of use also has a large bearing on the level of impact that routes have on a 10 watershed. Use during wet periods results in increased soil movement and delivery. The ruts 11 caused by use during wet periods also cause routes to widen because, during dry periods, users

12 will try to stay on the smoother surfaces on either side of the ruts.

13

14 In general, route impacts can be mitigated in one of two ways. The first is proper construction

15 and maintenance of routes following Best Management Practices. The second is closure of

16 routes during wet periods. Proper construction includes locating the route away from drainages.

17 Routes that are located in drainage bottoms are, at best, very difficult to mitigate.

18

19 <u>No Action Alternative</u>: Under this alternative a total of 267 miles of roads and trails would be

20 designated for public travel uses, not including Non-BLM routes (county and state highways).

21 Of this total, 232 miles would be designated for motorized uses and 35 miles for non-motorized

and mechanized uses. Compared to the Proposed Action and Low Use Alternative, the total

amount of sediment and pollutants entering the stream system from the available roads and trails
would be high and require mitigation (see below). Table 5-3 shows the number of routes and

24 would be high and require initigation (see below). Table 5-5 shows the number of routes and 25 acreages of sub-watersheds within the planning area with low, moderate, high and very high

route densities. A map comparing route density of the No Action Alternative to the other

27 alternatives is included in the map appendix (Map 36). Many areas would continue to have high

route densities and would retain many short spurs and duplicate routes, adding to the impacts to

29 the watershed. Under this alternative there would be the greatest possibility that the water

30 quality Standard for Public Land Health would not be met in localized areas.

31

32 <u>Alternative A</u>: Under Alternative A, 327 miles of roads and trails would be designated for

33 public travel uses, not including Non-BLM routes (county and state highways). Of this total, 220

34 miles would be designated for motorized uses and 107 miles for non-motorized and mechanized

35 uses. The amount of sediment entering the stream system from designated roads and trails would

be very high and require extensive mitigation (see below). <u>Table 5-3</u> shows the number of

routes and acreages of sub-watersheds within the planning area with low, moderate, high and
 very high route densities. A map comparing route density of Alternative A to the other

39 alternatives is included in the map appendix (Map 36). Many areas would have high route

40 densities under this alternative. The Texas Creek sub-unit in particular would include more

41 routes than there are currently and the McCoy Gulch sub-unit would be heavily impacted by

42 routes in poor locations and in dry washes that would be very difficult to mitigate. Under this

43 alternative there would be the greatest possibility of the action alternatives that the water quality

44 Standard for Public Land Health would not be met in localized areas. It would also be very hard

to meet Desired Future Conditions for water quality without extensive mitigation.

46

1 <u>Alternative B</u>: Under this alternative a total of 178 miles of roads and trails would be designated

2 for public travel uses, not including Non-BLM routes (county and state highways). Of this total,

3 135 miles would be designated for motorized uses and 43 miles for non-motorized and

- 4 mechanized uses. This alternative would generate the least amount of sediment and pollutants
- 5 from the designated transportation system and require the lowest amount of mitigation. <u>Table 5-</u>
- <u>3</u> shows the number of routes and acreages of sub-watersheds within the planning area with low,
 moderate, high and very high route densities. A map comparing route density of Alternative B to
- the other alternatives is included in the map appendix (Map 36). This would leave many areas
- 9 with much lower route densities and impacts than any of the other alternatives. Most notably,
- 10 the Texas Creek, and Salida sub-units would have lower routes densities than the other
- 11 alternatives, resulting in much lower sediment originating from these areas. Under this
- 12 alternative there would be the smallest possibility that the water quality Standard for Public Land
- 13 Health would not be met in localized areas. Desired Future Conditions for soils would best be
- 14 achieved under this alternative.
- 15

16 Alternative C – Proposed Action: Under this alternative a total of 258 miles of roads and trails 17 would be designated for public travel uses, not including Non-BLM routes (county and state highways). Of this total, 181 miles would be designated for motorized uses and 77 miles for 18 19 non-motorized and mechanized uses. The amount of sediment entering the stream system from 20 designated roads and trails would be moderate and require mitigation (see below). Table 5-3 21 shows the number of routes and acreages of sub-watersheds within the planning area with low, 22 moderate, high and very high route densities. A map comparing route density of the Proposed 23 Action to the other alternatives is included in the map appendix (Map 36). Drainages with high 24 route density would be slightly greater then Alternative A under this alternative by shifting more 25 areas out of the very high density category; however, many of the routes under this alternative 26 would be open to motorized uses only for administrative access. By limiting the uses to 27 administrative access and non-motorized use, overall impacts to water resources are much less 28 since the amount and time of use is very limited. Some areas would have lower route densities 29 than under the High Use Alternative, while some areas would have higher route densities than 30 under the Low Use Alternative. In particular, the Texas Creek and Salida sub-units would be similar to the High Use Alternative, resulting in higher impacts. The McCoy Gulch sub-unit 31 32 would be similar to the Low Use alternative and have much less impact on water quality and hydrologic function than the High Use Alternative. Under this alternative there would be a 33 34 moderate possibility that the water quality Standard for Public Land Health would not be met in 35 some localized areas. With mitigation, Desired Future Conditions for water quality within the

36 planning area could be met.

Table 5-3: Drainages with Low, Moderate, High and Very High Route Densities				
	No Action Alternative	Alternative A	Alternative B	Proposed Action
Number drainages with low route density (route density = 0 mi/sqmi)	40	47	47	47
Number moderate route density drainages (route density = 0.1 - 1 mi/sqmi)	136	137	187	142
Number high route density drainages (route density = 1.1 - 2 mi/sqmi)	258	281	256	286
Number very high route density drainages (route density > 2 mi/sqmi)	286	255	230	245
Drainage acreage with low route density (route density = 0 mi/sqmi)	34311	42680	47275	42680
Drainage acreage with moderate route density (route density = 0.1 - 1 mi/sqmi)	170110	193118	372485	202803
Drainage acreage with high route density (route density = 1.1 - 2 mi/sqmi)	405983	481852	389227	489001
Drainage acreage with very high route density (route density > 2 mi/sqmi)	406921	299674	208338	282841

1 Table 5-3: Drainages with Low, Moderate, High and Very High Route Densities

2

3 Mitigation:

4

5 1. All new route construction would integrate Best Management Practices and be 6 constructed so that runoff and sediment production are limited and controlled. All new route 7 construction resulting in more than 1 acre of disturbance would require either a Phase I or II 8 Storm Water Permit. Most likely, any routes being constructed would require a Phase II permit 9 that is needed with any surface disturbing activity between 1 and 5 acres. A Phase II permit 10 would require that a storm water plan be developed and implemented that reduces water 11 pollution to the "maximum extent possible" in order to protect water quality and aquatic habitat, 12 and ultimately meeting the requirements of the Clean Water Act.

13

14 2. Route maintenance, proper construction, and wet weather closures are the best way to 15 mitigate the effects of routes on water quality and hydrologic function. It is assumed that under 16 all alternatives, routes will be adequately maintained and constructed over time as problems are 17 found. Wet weather closures are designed into the alternatives to mitigate some of the effects 18 that would result from the plan. If a severe problem occurs that cannot be mitigated by other 19 means, construct sediment detention structures and clean them on a regular basis. 20

3. If during monitoring, a route is discovered that is causing unacceptable impacts, it should
be closed or re-routed as soon as possible if it cannot be mitigated any other way.

Cumulative Effects: The Arkansas River travel planning area has a very diverse land ownership pattern that is rapidly changing. In looking at the entire area, there are many factors affecting the water quality and hydrology. Much of the private land in this area is being subdivided and becoming increasingly developed with new routes and home sites, adding to the impacts in the watersheds. Thirty-five and forty acre parcels that were formerly parts of large ranches and used primarily for livestock grazing are now being occupied for home sites with individual water wells, septic systems and routes.

8

9 Along with the impacts caused by the development of new routes and home sites, there are

10 impacts associated with grazing and historical mining that continue to influence the water quality

11 in the waters of the Arkansas River travel planning area and downstream users. The Arkansas

12 River TMP is an important piece of the watershed management equation. It will determine the

13 kinds and amounts of travel uses that will be allowed on the Public Lands within the affected

14 watersheds. As the development of private lands for residential homes, and the demand for

15 recreational uses on Public Lands continue to increase, the decisions made in the Arkansas River

16 TMP will play an important role in determining the overall health of these watersheds.

17

18 Finding on the Public Land Health Standard for Water Quality (Standard 5): Under the No 19 Action Alternative the impacts on water quality would continue at current levels and would 20 likely increase overtime due to continued and increased amounts of off-road travel and route 21 proliferation. Since the level of soil impact and subsequent sediment production are directly 22 related to the footprint of the roads on the landscape, the effect to water quality standards is 23 directly related to the amount of land surface covered by roads. Therefore, all the action 24 alternatives would result in improvements over the No Action Alternative. Of the three action 25 alternatives, the land health standards for water quality would be best met under Alternative B 26 because it provides the lowest miles of routes. Alternative A would provide the least benefit to 27 water quality due to the high number of routes, while the benefits from the Proposed Action 28 would lie in between.

29

30 FLOODPLAINS, WETLANDS & RIPARIAN ZONES (includes a finding on Standard 2)

31 Affected Environment: Floodplain, riparian and wetland areas affected by decisions of this

32 TMP are generally within small first and second order tributaries to the Arkansas River between

33 Nathrop and Canon City. Larger tributaries such as Badger Creek, Grape Creek, Texas Creek,

34 Tallahassee Creek, Road Gulch, and Copper Gulch are also within the plan area, as is much of

35 the Arkansas River itself.

36

37 Most route mileage analyzed under this planning effort is across upland areas removed from

38 perennial streams or wetland systems. However, these upland areas are bisected by numerous

39 ephemeral, intermittent, and perennial tributaries. Additionally, the steep natural topography in

40 many subunits can confine travel to the low point in many valleys and certainly was the case

with many of the longstanding larger access routes; e.g., US 50, Road Gulch Road and Copper
Gulch Road. Disturbance in non-riparian ephemeral tributaries can also be impacting to the

- Gulch Road. Disturbance in non-riparian ephemeral tributaries can also be impacting to the
 Arkansas River or other downstream tributaries because these channels lack consistent moisture
- 44 for producing vegetation that is necessary to resist erosion. OHV activity in these channels
- 44 for producing vegetation that is necessary to resist crosson. On v activity in these channels 45 further reduces the establishment of vegetation and results in added erosion from the many dry
- 46 channels that occur throughout the planning area. Although a considerable amount of sediment

- 1 originates from these dry channels that affect the Arkansas River and its tributaries, the analysis
- 2 of these impacts is <u>not</u> addressed in this section of the EA but is covered instead in the
- 3 Hydrology, Soils, and Water Quality sections.
- 4

5 The Arkansas River flows through the planning area in a generally east-west direction.

6 Consequently, tributary watersheds are either southern aspect with many dry washes, or northern

- 7 aspect where drainages tend to be wetter and often yield small perennial streams. The southern
- 8 aspect watersheds almost universally have sparse arid vegetation with a high blow-out potential
- 9 from storms that produce large flood flows. Northern aspect watersheds generally have more
- 10 vegetation to buffer overland flow. As a result, routes located in northern aspect watersheds
- usually hold up better and are less impacting to resources than routes located in southern aspectwatersheds. Other factors, however, also influence the degree to which routes impact the
- 13 environment, including such variables as local soils, slope, and the proximity of routes to the
- 14 drainages.
- 15

16 Riparian areas are often separated from each other by considerable distances. Many

- 17 streams\channels in the planning area have interrupted surface flows with segments of dry
- 18 channel between reaches of wetlands. Typical riparian communities tend to be
- 19 riparian/herbaceous/grass-sedge species mixed with narrow leaf cottonwood and coyote willow;
- 20 though there is high variation in the wetland plant species present (Colorado Natural Heritage
- 21 Program; June 2006; Survey of Critical Wetlands and Riparian Areas in Fremont County).
- 22 Many basins do not yield sufficient amounts of spring snow-melt/run-off to support wetlands,
- but stay wet via seep flow and by the effects of freezing winter temperatures that lower
- 24 evaporation and transpiration rates. The lower winter evaporation/transpiration rates allow a rise
- 25 in the water table and the formation of ice packs. These ice packs subsequently melt and can
- sustain a low intermittent discharge that can support small pockets of riparian or wetlands. Seeps
- are variable throughout the area and also support many small wetlands. Summer storms further
- enhance wetland conditions in some of the semi-wet drainages if channel slope and vegetationconditions are such that the precipitation does not just rapidly flow through.
- 30
- 31 Most streams that are found in the planning area were subject to land use and development
- 32 pressures that began with homesteading many years ago. Thus, most of the high production
- valley bottoms were long ago placed into private holdings. BLM, however, manages many
- important wetland and riparian areas on public lands with wide variations in elevation,
- 35 precipitation, watershed drainage area, soils, solar aspect, etc., that create a diversity of wetland
- 36 and riparian communities. In spite of this diversity, it is important to note that the climate of the
- 37 planning area is quite arid and that more acres of watershed are needed to create wetlands than in
- higher and wetter regions, such as occurs in the nearby Sangre de Cristo and Collegiate
- 39 Mountains. The scarcity of wetlands on the public lands makes them a unique and very valuable
- 40 resource.
- 41
- 42 There are numerous, sometimes subtle, impacts from the many routes in the planning area that
- 43 would not change under any alternative due to private land status or easements through public
- 44 lands. However on public lands, where possible, direction contained in agency policies
- 45 (<u>Appendix 9</u>) provides considerable guidance to the BLM for managing watersheds, floodplains
- and specific wetlands. Locally, and to the extent that it has controlling authority to do so, the

1 Royal Gorge Field Office adheres to this guidance. However, where BLM lands intersect with

2 larger county or state roads that are not under the BLM's control, riparian areas are often greatly

affected. Because they are not under the management jurisdiction of BLM, these larger state and
 county roads cannot be considered under this TMP for any changes in how they are managed.

5

6 An example of a non-BLM road that is adversely affecting the function of stream channels in the

7 planning area is Fremont County Road 28, which crosses BLM for much of its passage through

8 the Copper Gulch and Road Gulch watersheds. FCR 28 is well known for disrupting stream

9 functions and for being costly to maintain due to frequent flooding. This road, as well as many

10 miles of similar non-BLM roads in the planning area, would not be affected by any of the

alternatives being considered in this TMP and will continue to disrupt stream functions in the future.

12

14 Other examples of non-BLM roads affecting stream functions are not individually outlined in

15 this section of the document. The reader can gain a better understanding of the problems and

- 16 issues related to road-water interactions by referring to common literature (United States Forest
- 17 Service; Water/Road Interaction Technology Series; San Dimas Technology and Development
- 18 Center). Nearer to the planning area, regionalized impacts from major travel routes are described

19 in related travel management documents, including the Four Mile, Gold Belt and San Luis

20 Valley TMPs. These documents discuss the historic origins of routes relative to human

21 settlement, land use, and recreation changes through time. In addition, previous site specific

22 Environmental Assessments also detail the rational behind local TMP implementation decisions;

- 23 e.g., Texas Creek EA 1998 CO-O57-98-127.
- 24

To the extent possible, strategies to avoid routes into riparian areas were employed in developing all of the alternatives for the Arkansas River TMP. The wetlands and riparian impact analysis

relied heavily on the utilization of GIS technology, which provides a relatively easy way of

28 measuring and comparing route impacts at various landscape or geographic scales of reference.

29 The analysis was focused initially at the planning area scale to identify and measure the impacts

30 that would affect wetlands and riparian areas under each of the four alternatives. After the

- 31 impacts were identified and measured for each alternative, the three action alternatives (A, B,
- 32 and C) were compared against the No Action Alternative to distinguish the differences between
- 33 them.

For locating and quantifying wetland/riparian resources BLM uses an interagency riparian-

36 wetland data layer analyzed with ESRITM ArcMap GIS software (Colorado Division of Wildlife;

37 Riparian Mapping Data; Colorado Division of Wildlife Riparian Homepage).

38 The riparian-wetland data layer was generated in the early 1990's using 1988 color infra-red

39 aerial photography. This photography reflects red where plant community polygons are water

40 saturated, whereas adjacent dryer upland vegetation does not show up red. The polygons and

41 lines of riparian areas, seeps and wetlands that were derived from this technique of photo-

42 interpretation were delineated at a 1:24,000 scale and converted to a digital medium.

43 Subsequently, standardized plant community classification is applied to the polygons through

44 further interpretation and field work. Additional riparian information comes from staff

- 45 knowledge of the resource, conducting resource condition assessments and restoration project
- 46 work. This information is then combined with supplemental plant community information

1 collected by CNHP and BLM. This information compliments the riparian-data layer so that

2 wetland/riparian areas are fairly easily recognized and quantified. Overlays with mapped 3 transportation routes clearly shows where there is interaction between travel ways and wetland

- 4
- resources needing protection or management emphasis.
- 5

6 There are about 531,700 acres in this TMP plan area. Approximately 45% or 240,375 acres are 7 BLM public lands. The acreage and ratio of non-BLM to BLM land is given in each subunit 8 description (See Appendix 2). Within these acreage totals are housed approximately 25,984 9 acres of saturated vegetation (see methods/data sources discussed above; i.e., infra-red 10 reflectance). Irrigated agriculture lands can reflect a similar infra-red reflectance and there are large amounts within the Salida, Custer County, and Sangre Foothills subunits. Since the 11 12 irrigated agriculture lands generally do not represent typical area-wide riparian or wetland 13 systems and are usually supported by ditch water, these acres were omitted from the tabulation. 14 Removal of the irrigated agriculture wetland areas (14,486 acres) leaves 11,498 acres that represents a more realistic amount of wetland or riparian acres on both BLM and non-BLM lands 15 16 within all of the subunits in the planning area. This is just slightly over 2% of the landscape. 17 The 11,489 acres contained in this total consists of seeps and springs, true wetlands, and many miles of streamside riparian. Most of this acreage lies adjacent to approximately 2,759 miles of 18 19 stream channel in the planning area on both BLM and non-BLM lands; with only 1,266 miles on 20 BLM (extreme dry ephemeral channels are not counted; see also hydrology section). There are 21 comparatively fewer acres of riparian per mile of stream on BLM due to the productive valley 22 being homesteaded.

23

24 Within the total planning area acreage of over 531,000 acres, only 2,065 acres are mapped as

- 25 wetland or riparian on public lands (approximately 0.4% of the landscape). Non-BLM (mostly
- 26 private land) makes up the balance with approximately 9,433 riparian acres (1.8% of the 27 landscape).
- 28

29 An additional 930 acres are mapped as a Riparian Evergreen community, which are common in 30 headwater or first order tributaries. This plant community is basically faster growing evergreen 31 trees adjacent to and within dry channels. The acreage of this community is not counted because an under-story of wetland species is generally lacking. Riparian evergreen communities that 32 33 grow along drainage bottoms reflect a wetter *Infra-red* reflectance signature than upland trees 34 near by. Although riparian evergreen communities are not tallied, they are productive due to the 35 ground water connection and because they support large trees that produce debris that helps reduce the effects of flooding. There are some additional routes along channels of this type that 36 37 are not tabulated. Selecting out riparian evergreen and the non-vegetated reaches between wet 38 areas yields a smaller but more realistic 1,200 miles of streams in the planning area; 710 miles 39 non-BLM and 490 miles on BLM.

40

41 Some areas show a canopy of cottonwoods trees, but hydric soil conditions are not always

prevalent beneath them. These areas, however, are counted in the analysis because they tend to 42

43 occur at the tail end of streams that begin to loose surface flow to alluvial deposits.

44

45 Impacts to floodplains, riparian and wetland systems from transportation can be caused directly

46 from travel within active channels and disturbances of associated wetland vegetation; or

- 1 indirectly due to a route-water interaction whereby water interception and accelerated runoff
- 2 delivery to stream channels alters hydrology. Hydrological change resulting from route-water
- 3 interaction is a well understood principal that has been described in detail in BLM and other
- 4 public agency technical literature and academia. In addition to physical modifications, stream
- 5 and wetland habitat values can be diminished for dependent wildlife when excessive disturbance
- 6 occurs within valley bottoms (see also Terrestrial Wildlife section).
- 7
- 8 Identifying routes that impact riparian areas that occur on both BLM and non-BLM lands is
- 9 necessary to understand the cumulative impacts of regional travel as route designations
- 10 (permitted travel uses) change between alternatives. The following, <u>Table 6-1</u>, displays the
- 11 travel use impacts on riparian areas that are occurring for each subunit. The table includes two
- 12 classes of routes; those **directly within** riparian vegetation (i.e., wetland plants on both sides of a
- 13 moving traveler on a given route), and those routes **within 100 feet** of riparian vegetation (i.e.
- 14 traveling along side a stream course).
- 15
- 16 For interpreting the data in <u>Table 6-1</u> the reader should refer to <u>Table 2-1</u>, <u>Miles of Routes by</u>
- 17 Alternatives and Travel Use Categories, and Appendix 2, Subunit Issues and Concerns, DFCs,
- 18 and MOs. Route use categories are not presented, but relative comparisons can be extracted
- 19 from <u>Table 2-1</u> for the No Action Alternative. Obviously some subunits are managed under
- 20 Wilderness Study Area designation and are only open for foot and horse travel while others, such
- as Salida, are bisected by numerous county or state highways that parallel streams.

1	Table 6-1	Miles of Routes	Affecting R	iparian Habitat
---	-----------	-----------------	-------------	-----------------

Sub Unit	Miles of	Miles of	Miles of	Miles of	Miles of	Miles of
	Riparian	Routes	routes	Riparian	Routes	routes
	habitat,	directly	within 100	habitat,	directly	within 100
	non-BLM	within	feet of	BLM land	within	feet of
	lands	riparian on	riparian on	within the	riparian on	riparian on
	within	non-BLM	non-BLM	Subunits	BLM	BLM
	Subunits					
Brown's	0	0	0.4	17	0.6	0.6
Canyon						
Salida	95	26.1	30.6	6	2.0	2.5
Badger	38	2.4	6.7	58	4.4	8.5
Creek						
Red Gulch	29	0.8	7.1	22	0.1	3.8
Texas	14	0.2	2.5	40	1.2	7.4
Creek						
Big Hole	12	0.1	2.6	91	1.9	11.0
Crampton	45	0.5	5.6	53	1.7	5.2
Mountain						
Grand	35	0.6	4.6	15	0.9	3.3
Canyon						
Hills						
Custer	261	20.8	31.7	2	0.1	0.6
County						
Sangre	100	9.9	20.4	39	4.0	10.9
Foothills						
West	16	0.7	3.2	15	0.2	5.3
McCoy						
Gulch						
McIntyre	12	0.1	1.4	67	2.5	10.3
Hills						
Grape	13	0.5	2.3	49	8.7	7.8
Creek						
Road Gulch	40	5.4	10.7	16	1.1	4.4
Totals	710	68.1	129.8	490	29.4	81.6

3 4

The table shows stark differences between much wetter subunits, such as Sangre foothills, and more arid subunits like West McCoy Gulch.

Combining from Table 6-1, both the miles directly within, and miles within100 feet of riparian
 areas provides a means for gauging the relative amounts of disturbance that are currently
 resulting from travel routes. These values are presented in Table 6-2, and are expressed as

4 percentages of total miles of riparian for each subunit.

	bined Riparian A		Demonstraf	Demonstraf	Demonsterf
Subunit	Miles of	Miles of	Percent of	Percent of	Percent of
	Riparian	routes within,	riparian	riparian	riparian
	habitat within	AND within	habitat	habitat	habitat
	subunits, All	100 feet of	mileage with	mileage with	mileage with
	lands	riparian	a route	a route	a route
		habitat, All	within, AND	within, AND	within, AND
		lands	within 100	within 100	within 100
			feet of	feet of	feet of
			riparian	riparian	riparian
			habitat, All	habitat, non-	habitat, BLM
			lands	BLM land	land
Brown's Canyon	17	1.6	9.4 %	NA	7.0 %
Salida	101	61.2	60.6 %	59.7 %	75.0 %
Badger Creek	96	22	22.9 %	23.9 %	22.2 %
Red Gulch	51	11.8	23.1 %	27.2 %	17.7 %
Texas Creek	54	11.3	20.9 %	19.3 %	21.5 %
Big Hole	103	15.6	15.1 %	22.5 %	14.2 %
Crampton Mountain	98	13	13.3 %	13.5 %	13.0 %
Grand Canyon Hills	50	9.4	18.8 %	14.9 %	28.0 %
Custer County	263	53.2	20.2 %	20.1 %	3.5 %
Sangre Foothills	139	45.2	15.1 %	30.3 %	38.2 %
West McCoy Gulch	31	9.4	13.3 %	24.4 %	36.7 %
	79	14.3	18.8 %	12.5 %	19.1 %
McIntyre Hills					
Grape Creek	62	19.3	31.1 %	21.5 %	33.7 %
Road Gulch	56	21.6	38.6 %	40.3 %	34.3 %
Totals	1200	308.9	25.7 % (area	27.8 % (area	22.7 % (area
			wide)	wide)	wide)

Table 6-2 Combined Riparian Analysis

 1 Not surprisingly, subunits in Table 6-2 that display the highest percentages of routes impacting

- 2 riparian are usually those that contain the larger streams and drainages within their boundaries.
- 3 This relationship is due to the fact that the valleys along rivers and streams offer the least paths
- 4 of resistance, and humans have always utilized them as natural travel ways. During periods of
- 5 19th century settlement and development, trails along rivers and streams that were used by
- 6 nomadic tribes of Native Americans were utilized and developed to meet the needs of
- 7 European/American settlers. This development continued with advances in technology, and
- today, many of these historically used travel routes serve as the thoroughfares for major federal,state, and county highways.
- 9 10

11 A secondary analysis was also done to measure the extent of relative road densities in major

12 drainages in the planning area. This analysis involved identifying the number of named

- 13 tributaries in the planning area as shown on common USGS 1:24,000 quadrangle maps. This
- 14 analysis revealed a total of 231 named drainages on quadrangle maps within the TMP
- 15 boundaries; with 160 of these draining BLM lands. Of the 160, 105 have motorized routes either
- 16 within the riparian areas or within a distance of 100 feet. Only 55 named drainages have no
- 17 intersection on BLM between motorized routes and riparian habitats. These maps generally
- 18 name all drainages except for those located at the top ends of the headwater tributaries. The two
- 19 analyses clearly demonstrate a lot of watershed disturbance.
- 20

21 Environmental Consequences/Mitigation: Analysis was preformed by measuring and 22 comparing the impacts on wetland resources that would result under the different alternatives.

- 22 Comparing the impacts on wethand resources that would result under the different alternatives. 23 One of the most significant findings from the analysis revealed that only moderate differences
- exist between the three action alternatives for benefiting riparian and wetland resources. In other
- words, no one alternative offers changes in travel use designations that would substantially
- reduce riparian and wetland impacts more than any of the other action alternatives. The major
- 27 reason for this is due to the fact that most of the routes having flexibility as to use designation
- 28 were not located within or near riparian areas, and therefore, changes made between the
- alternatives for these routes would have limited effect on riparian and wetland resources. In
- 30 addition, as previously discussed, many of the roads that have the greatest impact on riparian and
- 31 wetland conditions are county, state, or federal highways which are not subject to actions
- 32 resulting from this TMP. On the other hand, the planning area currently includes numerous short
- 33 segments of routes, duplicate routes, connector routes, and public travel on Administrative
- 34 Access routes that would be affected differently under each action alternative. Although most of
- 35 these routes are roads and trails in non-riparian/wetland areas, the reduction of unnecessary roads
- and removing public uses from Administrative Access roads would benefit the overall health of
- 37 the watersheds.
- 38
- 39 Table 6-3 provides a comparison of the miles and acres of riparian impacted by routes for the
- 40 entire planning area that shows the differences that would occur between the alternatives.

1 Table 6-3: Comparison of Alternatives - Miles and Acres of Riparian Impacted by Travel Routes

	No Action	Alternative A	Alternative B	Alternative C
Miles of Routes in Riparian	29.3	30.1	22.3	30.0
Miles of Routes within 100 feet of Riparian	81.9	83.3	75.0	82.5
Total Miles of Routes Directly Impacting Riparian Habitat	111.2	113.4	97.3	112.5
Total Acres of Riparian Habitat Directly Impacted by Routes	412	364	345	359

2 for the Entire Arkansas River TMP Area

3

4 In comparing the data in Table 6-3 between the No Action Alternative and the three action

5 alternatives, it will be noticed that the total miles of routes that directly impact riparian habitat

6 actually increases under alternatives A and C but that the total acres of impacted habitat

7 decreases. The reason for this apparent discrepancy is due to the differences in the types of

8 routes that make up the respective mileages of each alternative. For example, a road with an

9 average width of 10 feet impacts a surface area of 1.2 acres per mile, whereas a horse trail with

10 an average width of 2 feet only impacts 0.24 acres per mile. Under the action alternatives, some

11 of the routes that are currently roads would either be closed or would be designated as trails with

12 narrower travel widths. This explains why the total acres of impacted riparian habitat would

13 decrease even as the mileages increase.

14

15 Because of the correlation that exists between route type and the corresponding travel widths, the

total acres included in Table 6-3 is actually a better measurement of the direct impacts on

17 riparian habitat than the mileages. In comparing the acreage data, all of the action alternatives

would result in reducing impacts to riparian habitat from current levels; including reductions of
48 acres for Alternative A, 67 acres for Alternative B, and 53 acres for Alternative C. In just

20 comparing the action alternatives, however, only a difference of 19 acres reduction occurs

20 comparing the action alternatives, nowever, only a difference of 19 actes feduction occurs 21 between Alternatives A and B, which produce the highest and lowest acres of impacted riparian

habitat, respectively. A substantial proportion of acreage difference between the alternatives can

be attributed to the Grape Creek Subunit where the Bear Gulch road is reduced to a trail in

Alternative B. In addition, no trail is designated along Grape Creek within that Alternative.

25 Another primary difference in acreage values among alternatives can be attributed to proposed

26 routes in the Texas Creek/Red Gulch area under Alternative A. Those routes are further

- 27 discussed in the following summaries.
- 28

29 <u>No Action Alternative (Current Use)</u>: Under the No Action Alternative, OHV uses would

30 continue to be limited to the existing network of roads and trails in the OHV Limited areas

31 throughout the planning area. Only "User Created" routes would be closed. No additional

- 32 motorized and non-motorized trails proposed in the Texas Creek, Red Gulch, and Salida subunits
- 33 would be approved for construction. The current OHV Open areas at Texas Creek, Grand

- 1 Canyon Hills, and Sand Gulch would continue to be available for off-road OHV use. Off-road
- 2 travel would also continue to be allowed for parking, camping, and game retrieval within 300
- 3 feet of existing open roads.
- 4

5 Under the No Action Alternative, current management and enforcement problems that result

- 6 from the removal of closure signs would continue to occur and would likely increase in the
- 7 future as more people use the public lands for motorized forms of recreation. The current travel
- 8 management policy of limiting OHVs to existing routes would continue to be confusing for the
- 9 public; contributing to the proliferation of new routes and conflicts with non-motorized users.

10 Continuing under the current policy of allowing vehicles to be drive up to 300 feet off existing

- roads for parking, camping, and game retrieval would also contribute to additional routeproliferation.
- 12

14 Under the No Action Alternative, approximately 111.2 miles of routes would directly impact 412

- 15 acres of riparian habitat through the interaction of traffic on vegetation. Of the four alternatives,
- 16 the No Action Alternative would do the least towards addressing the needs for protecting and
- 17 improving riparian and wetland conditions. Achieving public land health standards and Desired
- 18 Future Conditions throughout the planning area would be most difficult under this alternative.
- 19

20 <u>Alternative A</u>: Under Alternative A, OHV uses would be limited to designated routes in the

- 21 OHV Limited areas throughout the planning area. The current OHV Open areas in Texas Creek,
- 22 Grand Canyon Hills, and Sand Gulch would be changed to OHV Limited, and two small OHV
- 23 Open areas would be designated at Turkey Rock and Reese Gulch for riding trials bikes. All
- 24 additional motorized trails proposed in the Texas Creek and Red Gulch subunits, and all
- additional non-motorized trails proposed in the Salida subunit would be conditionally approved
- 26 for construction. The current allowance of 300 feet for driving off roads for parking, camping,
- and game retrieval would be changed to 100 feet from designated routes.
- 28

29 Under this alternative, current management and enforcement problems that result from the

- 30 removal of closure signs would be improved. Implementing a travel management policy that
- 31 limits OHVs to designated routes that are identified on maps and on the ground with signs would
- 32 be easier for the public to understand and for BLM to enforce; helping to reduce the proliferation
- 33 of new routes and potential damage to riparian and wetland resources. Reducing the distance
- 34 vehicles can be driven off roads for parking and camping to 100 feet from designated routes
- 35 would also help to control route proliferation.
- 36
- 37 Over most of the TMP planning area, Alternative A differs only slightly from Alternatives B and
- 38 C for the miles of motorized routes that would encroach within riparian areas. The most
- 39 significant difference occurs in the Texas Creek and Red Gulch subunits. Currently, and as
- 40 would also be the case under Alternatives B and C, Red Gulch is already largely accessible to
- 41 OHVs but is not connected to the Texas Creek OHV Area. Alternative A, however, would link
- 42 Red Gulch to the Texas Creek OHV Area and place additional new trails in the East Gulch,
- 43 Fernleaf Gulch, and Maverick Gulch drainages. Under Alternative A, additional ATV and dirt
- 44 bike trails would directly impact valuable riparian habitat in these watersheds. Linking the
- 45 highly used Texas Creek OHV Area with the Red Gulch subunit to the west would also very
- 46 likely increase the overall amount of motorized use of the area. Texas Creek is already a popular

destination for OHV recreation and expanding trails into adjoining subunits would likely result
 in substantially increasing the amount of use.

3

Many of the additional routes proposed in Alternative A within the Texas Creek and Red Gulch
subunits were previously analyzed in the Texas Creek EA (CO-057-98-127 EA), which contains
a detailed description and analysis of impacts that the routes would have on riparian resources.

7

8 Under the Alternative A, approximately 113.4 miles of routes would directly impact 364 acres of

9 riparian habitat through the interaction of traffic on vegetation. Of the three action alternatives,

10 Alternative A would do the least towards addressing the needs for protecting and improving

11 riparian and wetland conditions due to the relatively high number of motorized routes.

- 12 Alternative A would also increase pressure on riparian and watershed resources in the Texas
- Creek and Red Gulch subunits where well-known erosion and user compliance issues currentlyexist.
- 15

16 <u>Alternative B</u>: Under Alternative B, OHV uses would be limited to designated routes in the

17 OHV Limited areas throughout the planning area. The current OHV Open areas in Texas Creek,

18 Grand Canyon Hills, and Sand Gulch would be changed to OHV Limited. The two small OHV

19 Open areas proposed at Turkey Rock and Reese Gulch for riding trials bikes would not be

20 considered. No additional motorized trails proposed in the Texas Creek and Red Gulch subunits,

and only a few of the non-motorized trails proposed in the Salida subunit would be conditionally

22 approved for construction. The current allowance of 300 feet for driving off roads for parking,

23 camping, and game retrieval would be changed to 100 feet from designated routes.

24

Under this alternative, current management and enforcement problems that result from the removal of closure signs would be improved. Implementing a travel management policy that limits OHVs to designated routes that are identified on maps and on the ground with signs would be easier for the public to understand and for BLM to enforce; helping to reduce the proliferation of new routes and potential damage to riparian and wetland resources. Reducing the distance vehicles can be driven off roads for parking and camping to 100 feet from designated routes would also help to control route proliferation.

32

33 As discussed in the narrative for Alternative A, only slight differences were found for how the

34 three action alternatives would affect riparian and wetland resources throughout most of the

35 planning area. Substantial differences were seen, however, in the Texas Creek and Red Gulch

36 subunits where Alternative A would expand motorized uses into riparian areas located in East

37 Gulch, Fernleaf Gulch, and Maverick Gulch; whereas, Alternative B would not. Additionally,

38 the Bear Gulch road is reduced to a trail and no designated trail is established along Grape Creek

- 39 with in the Grape Creek Subunit.
- 40

41 Under the Alternative B, approximately 97.3 miles of routes would directly impact 345 acres of

42 riparian habitat through the interaction of traffic on vegetation. Of the three action alternatives,

43 Alternative B would do the most towards addressing the needs for protecting and improving

44 riparian and wetland conditions due to the relatively low number of motorized routes.

45 Alternative B would also avoid expanding motorized uses into sensitive riparian areas in the

46 Texas Creek and Red Gulch subunits.

1 <u>Alternative C (Proposed Action)</u>: Under Alternative C, OHV uses would be limited to

- 2 designated routes in the OHV Limited areas throughout the planning area. The current OHV
- 3 Open areas in Texas Creek, Grand Canyon Hills, and Sand Gulch would be changed to OHV
- 4 Limited, and a small OHV Open area would be designated at Turkey Rock for riding trials
- 5 motorcycles. Only a few additional motorized trails proposed in the Texas Creek subunit, and
- 6 many additional non-motorized trails proposed in the Salida subunit would be conditionally
- 7 approved for construction. The current allowance of 300 feet for driving off roads for parking,
- 8 camping, and game retrieval would be changed to 100 feet from designated routes.
- 9
- 10 Under this alternative, current management and enforcement problems that result from the
- 11 removal of closure signs would be improved. Implementing a travel management policy that
- 12 limits OHVs to designated routes that are identified on maps and on the ground with signs would
- 13 be easier for the public to understand and for BLM to enforce; helping to reduce the proliferation
- 14 of new routes and potential damage to riparian and wetland resources. Reducing the distance
- vehicles can be driven off roads for parking and camping to 100 feet from designated routes
- 16 would also help to control route proliferation.
- 17

18 As discussed in the narrative for Alternative A, only slight differences were found for how the

- 19 three action alternatives would affect riparian and wetland resources throughout most of the
- 20 planning area. Substantial differences were seen, however, in the Texas Creek and Red Gulch
- 21 subunits where Alternative A would expand motorized uses into riparian areas located in East
- 22 Gulch, Fernleaf Gulch, and Maverick Gulch; whereas, Alternative B would not expand routes
- into any of these drainages and Alternative C would provide one additional trail in MaverickGulch.
- 24 25

26 Under the Alternative C, approximately 112.5 miles of routes would directly impact 359 acres of

- 27 riparian habitat through the interaction of traffic on vegetation. Compared to the other action
- 28 alternatives, Alternative C would do more towards addressing the needs for protecting and
- 29 improving riparian and wetland conditions than Alternative A but not as much as Alternative B.
- 30 Although Alternative C would provide for an additional motorized trail in Maverick Gulch, the
- proposed location of the trail would avoid sensitive riparian areas along this drainage, and would
- not provide linkage between the Texas Creek and Red Gulch subunits.
- 33 34 **Mi**

34 Mitigation:35 Actions Applicable to All Alternatives

36

1. Whenever possible, and for all future route construction and reconstruction projects, relocate

- 38 routes that are directly within riparian/wetlands to adjacent terraces. For new trail construction
- and reconstruction and maintenance of existing trails, utilize best management practices to
- 40 provide stable travel facilities that will minimize impacts to soils and watersheds. Implement the
- recommendations outlined in Appendix 6 and Appendix 7 which establish conditions for guiding
 future management and development of the Texas Creek and Salida trail systems.
- 43
- 44 2. Make effective use of temporary wet weather and seasonal closures. Temporary road
- 45 closures during wet periods are one of most effective tools available for protecting resources;
- 46 second only to proper location, design and maintenance. During some winter-spring periods,

- 1 slow snowmelt keeps many areas saturated. Many of the problems created in the watershed
- result from a small number of OHVs using routes during wet periods. In addition, educate public
 to voluntarily limit use at any time when conditions are wet.
- 4
- 5 3. Incorporate the designated routes into the BLM road maintenance plan to minimize 6 unnecessary water drainage erosion problems.
- 7
- 4. Utilize the standard travel uses signing program developed by the Natural Resources Working
 Group and institute an aggressive sign maintenance program. Clear posting of travel ways has
- been shown to minimize resource impacts and route proliferation.
- 11

Cumulative Affects: Population growth and residential development of surrounding private lands, along with other resource impacting trends, will occur throughout the greater region that will result in increased amounts of recreational usage on public lands. The cumulative affects of providing a high number of additional routes to meet growing recreational demands would add to very predictable impacts to the watersheds within the Arkansas River TMP. Increases in the miles of recreational travel routes would create additional acres of semi-permeable and nonpermeable surfaces that would result in increased amounts of runoff, erosion, and drainage

- permeable surfaces that would result in increased amounts of runoff, erosionchanges.
- 20

21 Finding on the Public Land Health Standard for Riparian Systems: Under the No Action 22 Alternative (existing situation), and each of the action alternatives, there are routes that would 23 degrade riparian resources that are not improved by any of the actions presented in this EA. The 24 lack of improvement is largely due to the impacts from Non-BLM routes, which are not affected 25 by the decisions in this TMP. Mitigation will help some resources where they are currently affected by travel. Maintaining as much acreage within the watershed as permeable surfaces, 26 27 compared to the semi-permeable and non-permeable surfaces that occurs along travel routes, 28 would help counter large scale runoff and drainage changes. Compared to the No Action 29 Alternative, the amount of non-permeable surface area would be reduced by any of the action 30 alternatives. Of the three action alternatives, Alternative A would result in the greatest number 31 of additional routes that would have the greatest impact on the watersheds.

32

33 MIGRATORY BIRDS

34 **Affected Environment**: The planning area is a land of contrasts, a place where grasslands of the

- lower elevations abruptly give way to a backbone of rugged mountains and canyons to the north.
 The Colorado Bird Conservation Plan identifies 13 vegetation habitat types important to birds in
- 36 The Colorado Bird Conservation Plan identifies 13 vegetation habitat types important to birds
 37 Colorado. The habitat classifications and assignment of bird species to the habitats were
- 37 Colorado. The habitat classifications and assignment of ond species to the habitats were 38 developed by Colorado Bird Observatory (CBO) staff along with individuals who contributed to
- early development of the conservation prioritization scheme. Bird species were assigned to
- 40 specific habitats based on their restriction to, or strong representation within, that habitat type. Of
- 41 these 13 habitat categories, six are described for the planning area (aspen, grassland, riparian,
- 42 mixed conifer, mountain shrub, Piñon-juniper). Bird species typically found in these habitats are
- 43 described for each habitat type (Map 27).
- 44

1 Aspen

- 2 Aspen provides habitat for a variety of wildlife species from large ungulates to small non-game
- 3 birds and mammals. Because aspen is seral to and is usually mixed with adjacent conifer types,
- 4 the importance of aspen dominated woodlands to birds and other wildlife far exceeds the aerial
- 5 extent of the stands themselves. Approximately 134 species of birds are reported to use aspen-
- dominated habitats. This list includes 34 cavity nesters, 7 canopy nesters, 10 shrub nesters, and
 ground nesters. Few species are limited to aspen, but some reach their highest breeding
- 8 densities within this habitat type. Bird communities within aspen stands are often composites of
- aspen-associated species along with many species found in the surrounding conifer habitats.
- 10 However, the exact species mix depends on the relative amounts of aspen and conifer in the
- 11 stand. Perhaps the most important contribution of aspen-dominated woodlands to avian nesting
- 12 habitat is as a structural substrate for primary cavity excavators and secondary cavity nesters.
- 13 False tinder rot is a major source of heartwood decay in live aspens; it produces a hard sapwood
- 14 shell surrounding a soft interior that is ideal for cavity excavation. Habitat preferences of primary
- 15 cavity excavators and the decay characteristics of aspen combine to produce much higher cavity
- 16 densities in aspen than in surrounding conifer habitats. Species that are typically found in aspen
- 17 habitats include broad-tailed hummingbird, house wren, Lincoln's sparrow, white-crowned
- 18 sparrow, dark-eyed junco, violet-green swallow, purple martin, mountain bluebird, Cooper's
- 19 hawk, western wood-pewee, warbling vireo, red-naped sapsucker, mountain chickadee, pygmy
- 20 and white-breasted nuthatches, and western bluebirds.
- 21

22 Grassland

- 23 Grasslands provide habitat for many species. The severity of the semi-arid climate produces
- 24 contrasts in vegetation. Grassland birds thus evolved in a shifting landscape mosaic, with access
- 25 to patches of vegetation in a variety of successional stages and conditions. Species that are
- typically found in the grassland habitat in the planning area are ferruginous hawk, prairie falcon,
- 27 upland sandpiper, burrowing owl, Cassin's sparrow, lark bunting, grasshopper sparrow,
- 28 McCown's longspur, western meadowlark, great-horned owl, golden eagle, common raven,
- 29 mourning dove and American kestrel.
- 30

31 **<u>Riparian</u>**

- 32 Species most commonly found in the subalpine riparian shrubland habitats are broad-tailed
- 33 hummingbird, dusky flycatcher, yellow warbler, MacGillivray's warbler, Wilson's warbler,
- 34 Lincoln's sparrow, song sparrow, white-crowned sparrow, and fox sparrow. In deciduous
- 35 foothills riparian systems, yellow warbler is the species most frequently detected, followed by
- 36 American robin, northern flicker, house wren, warbling vireo, song sparrow, western wood-
- 37 pewee, and broad-tailed hummingbird. In coniferous systems, Cordilleran flycatcher is the most
- 38 frequently detected species, followed by broad-tailed hummingbird, ruby-crowned kinglet,
- 39 American robin, golden-crowned kinglet, Swainson's thrush, mountain chickadee, yellow-
- 40 rumped warbler, and western tanager.
- 41

42 Mixed Conifer

- 43 Mixed conifer habitats include ponderosa pine, white fir, and Douglas fir tree species with a few
- 44 other less common species intermixed. Birds typical of the ponderosa pine forest type include
- 45 Merriam's turkey, Williamson's sapsucker, pygmy nuthatch, western bluebird, band-tailed
- 46 pigeon, Mexican spotted owl, Grace's warbler, flammulated owl, red-breasted nuthatch, violet-

- 1 green swallow, western tanager, and chipping sparrow. Ponderosa pine forests support a rich
- 2 avifauna, in part a reflection of the prevalence of gambel oak in many ponderosa stands. Oak
- 3 adds structure and prey--insect densities are higher in oak than in nearby conifers.
- 4

5 Mountain Shrub

- 6 Mountain shrubland habitat provides valuable food and cover for many wildlife species. Many
- 7 shrub species produce edible fruits, and they provide a large selection of forage types. Often the
- 8 soil moisture is enough for shrubs to grow densely. Gambel oak acorns are an important mast
- 9 crop in many areas. Birds such as band-tailed pigeon, Merriams turkey, Lewis's woodpecker,
- steller's jay, western scrub-jay, and green-tailed towhee feed on the acorns. Other birds such as
- 11 the Virginia's warbler utilize mountain shrub habitat for resting, feeding, and nesting.
- 12

13 **Piñon Juniper**

- 14 Piñon-juniper habitat supports the largest nesting bird species list of any upland vegetation type
- 15 in the West. Lowland riparian habitats will, across an entire year, harbor more species of birds
- 16 due to their importance to migrants. A single ponderosa pine stand typically supports more
- 17 species than a single piñon-juniper stand. Aspen stands may hold a higher density of birds.
- 18 However, the richness of the piñon-juniper vegetation type is important due to its middle
- 19 elevation. Survey tallies in piñon-juniper are similar in species diversity to the best riparian.
- 20 Several species are found in the piñon-juniper habitat and include: black-chinned hummingbird,
- 21 gray flycatcher, Cassin's kingbird, gray vireo, piñon jay, juniper titmouse, black-throated gray
- 22 warbler, Scott's oriole, ash-throated flycatcher, Bewick's wren, mountain chickadee, white-
- 23 breasted nuthatch, and chipping sparrow.
- 24
- 25 Environmental Consequences/Mitigation: Impacts to migratory birds from roads and trails are 26 variable depending on a number of factors. Typically, impacts to birds from roads and trails
- aren't as great as those from intensive development where large areas of habitat are altered.
- 28 However, impacts do occur and even passive recreation such as hiking, horseback riding,
- 29 running, jogging and biking can affect birds and bird habitat in a variety of ways, both short and
- 30 long term. More significant impacts are associated with motorized OHV use as impacts to
- 31 vegetation are greater and disturbances to birds are more likely.
- 32

33 Impacts can be defined as direct and indirect. Direct impacts are those that result from close

- 34 encounters with birds and cause a flight reaction. The reaction is a function of the species,
- 35 closeness, type and intensity of the encounter, time of day, time of year, type of habitat,
- 36 vegetation screening, trail location, surrounding land use, and many other variables. Bird
- 37 characteristics, including species, group size, age and sex, also determine the response to a
- 38 disturbance. Disturbance by humans can cause nest abandonment, decline in parental care,
- 39 increased stress, shortened feeding times, and potentially lower reproductive success. Motorized
- 40 use may result in collisions with birds resulting in injury or death.
- 41
- 42 Indirect impacts are defined as impacts to habitat that do not directly impact the bird itself. The
- 43 construction of a road or trail results in a loss of habitat. Vegetation removed in the process of
- 44 building a trail is no longer available for use by birds. The uncontrolled proliferation of user
- 45 created roads and trails adds to the impacts to habitat. The existence of a road or trail can change
- 46 the characteristic of bird habitat. When a road or trail is created, increased light encourages new

1 growth of vegetation, creating habitat edge which results in a shift in the composition of bird

- 2 species. Habitat generalists (species that utilize a variety of habitats) increase while interior or
- 3 obligate species (species that depend on one type of habitat) decline. Predation may also
- 4 increase and in general biological diversity declines. Indirect impacts also occur as birds avoid
- 5 habitat along roads to reduce their exposure to negative stimulus associated with human uses.
- 6 While the habitat may provide for the needs of the species, it is not being utilized because of it's 7 nearness to a road or trail.
- / r 8
- 9 Another form of indirect impact is the fragmentation of habitat that occurs with increasing roads
- 10 and trails. Wildlife does better in larger blocks of undisturbed habitat rather than smaller
- 11 fragmented pieces. Habitat fragmentation is considered to be the greatest threat to biological
- 12 diversity. Determining when a road or trail causes habitat fragmentation and how it contributes
- 13 to a reduction in biological diversity is extremely difficult. Nevertheless, protecting large,
- 14 undisturbed areas of wildlife habitat was considered when decisions were made concerning
- 15 travel management in the Arkansas River travel planning area.
- 16
- 17 Preventing fragmentation of habitats also contributes to the maintenance of wildlife movement
- 18 corridors. Wildlife movement corridors are defined as linear habitat whose primary function is
- 19 to connect two or more significant habitat areas. Corridor use is influenced by topography,
- 20 vegetation, species of interest and nearby human activities. A wildlife corridor should serve to
- 21 provide for several functions such as providing wide-ranging animals an opportunity to travel,
- 22 migrate and meet mates, allow plants to propagate, provide for genetic interchange, allow for
- 23 populations to move in response to environmental changes, and to allow for individuals to
- recolonize habitats. Corridors are needed to maintain connectivity among formally contiguoushabitats.
- 23 26

27 Public lands are an increasingly important source of land for providing the connectivity of

- 28 habitats that is so important to many wildlife species. In addition, they provide some of the only
- 29 remaining large blocks of contiguous wildlands (core habitat) in many areas. Within the
- 30 Arkansas River planning area approximately 66% of the landscape across the entire planning
- 31 area is considered interior core habitat (Table 7.1) that is unaffected by roads and trails. More
- than 73% of the public lands managed by BLM within the planning area are considered interior
- 33 core habitat. The Arkansas River TMP area is dissected by private lands that were formally
- 34 working ranches that provided wildlife habitat. In recent years private lands are being sold to
- developers and becoming subdivisions that include roads, home sites and other support facilities.
- 36 As homes are built and people move into the wildlands, wildlife are being displaced and forced
- to move from traditional ranges. The only large habitat areas left are those that occur on public
- 38 lands.
- 39

1 Table 7-1: Core habitat analysis

	ALTERNATIVE				
	No Action	Α	B	С	
	(Current)				
Core Areas (acres)	351,651	351,274	368,230	361,141	
Core Areas BLM (acres)	175,279	174,252	190,206	183,310	
% of Planning Area in Core Areas	66.1	66.1	69.3	67.9	
% of BLM Land in Core Areas	72.9	72.4	79.1	76.2	
% of Planning Area Impacted by Traffic	33.9	33.9	30.7	32.1	
% of BLM Lands Impacted by Traffic	27.1	27.5	20.9	23.8	
Mean Size of 10 Largest Core Areas (acres)	33,922	33,847	37,246	35,607	
Number of Core Areas > than 20,000 acres	8	8	9	9	

2

3 Approximately 34% of all lands within the planning area are impacted by routes while less than

4 27% of public lands are impacted by routes (Table 7.1). BLM managers must ensure that these

5 areas remain as suitable habitat. In order to do that, critical decisions must be made during travel

6 management planning so that the ability of public lands to continue to provide habitat is not

- 7 compromised.
- 8

9 Large blocks of core habitat areas in the TMP area are those that occur on public lands such as

10 the McIntyre Hills WSA, Lower Grape Creek WSA, Upper Grape Creek WSA and the Browns

11 Canyon WSA. In addition, topography limits roads and trails along the north and south sides of

12 the Arkansas River canyon (McIntyre Hills and Big Hole subunits) and in areas surrounding the

13 Badger Creek drainage (Badger Creek subunit). In compliance with Public Lands Health

14 Standard 4, BLM managers seek to ensure that these areas remain viable as suitable habitat

15

16 Data on surface condition, route width, and relative traffic for the Arkansas River TMP area

17 were analyzed and maps generated that depict relative habitat fragmentation on the landscape-

18 level. Higher route densities and traffic result in less core habitat (more habitat fragmentation)

- 19 and fewer acres of effective wildlife habitat.
- 20

21 All routes within the TMP area were examined to determine the type of route present and current

22 use levels of that route. Routes were classified on an impact gradient from low to high using

four buffer distances based on type of use and relative traffic. The following buffer distanceswere used:

25 165ft (50 meters) Low impact routes that receive low use, i.e. trails

26 330ft (100 meters) Moderate impact routes; moderate use, trails and unimproved roads

- 820ft (250 meters) Moderate impact routes; motorized use, unimproved routes, high use
 trails
- 29 1,335ft (407 meters) High impact routes; major improved routes with high use, high use
- 30 motorized routes
- 31

32 These parameters defined the expected impacts to wildlife from individual and aggregate routes

and were used to map and measure acres of remaining core and undisturbed wildlife habitat.

- 34 These analyses were done for all four alternatives. Impacts on wildlife habitat (CDOW) were
- 35 determined for several species or groups of species.

1 Areas of wildlife habitat inside these buffers were considered to be impacted by the route.

2 These routes are depicted in Maps 22, 23, 24 and 25 for each alternative and show where

3 effective core habitat remains intact. Table 7.1 shows a comparison between alternatives and

4 core habitats. When analyzing the data on a landscape level (Arkansas River TMP) it becomes

5 obvious there are rather small differences in the four alternatives. This is due, in part, to the

6 large areas of habitat that are currently undisturbed and will remain undisturbed by roads and

7 trails in the McIntyre Hills WSA, the Upper Grape Creek WSA, the Lower Grape Creek WSA

8 and the Browns Canyon WSA the Phantom Canyon ACEC and other extremely rough areas such

9 as Cooper Mountain and the Shelf Road. All alternatives result in several (8-9) core areas that

are greater than 20,000 acres and mean core area size of 10 largest core areas greater than 33,800acres (Table 7.1).

11 12

13 An additional analysis completed compared the four alternatives, the habitat types and core

14 areas. Table 2 shows the percentages of each habitat type that remain in core habitat (based on

15 the total acres of that habitat type in the planning area). Table 7.3 shows the percentage of BLM

16 habitat that is impacted by routes. As expected, piñon-juniper habitat is the most affected (31%)

17 because it is the habitat type that is most commonly found on the public lands in this area.

18 Again, however, subtle differences are noted between alternatives when examining this data on a

19 landscape level.

20

21 Table 7-2: Acres of core habitat on BLM by habitat type and alternative

	ALTERNATIVE				
Habitat Type	No Action (Current)	Α	B	C	
Grassland	2,787	2,855	3,127	2,985	
Mountain Shrub	10,744	10,782	11,960	11,424	
Piñon/Juniper	114,359	115,004	125,278	120,429	
Aspen	1,264	1,260	1,312	1,308	
Mixed Conifer	44,324	42,571	46,623	45,286	
Riparian	528	543	604	575	
Total	174,006	173,015	188,904	182,007	

22

23 Table 7-3: Acres of habitat impacted by traffic on BLM by type and alternative

	ALTERNATIVE			
Habitat Type	No Action	Α	B	С
	(Current)			
Grassland	2,521	2,453	2,181	2,323
Mountain Shrub	6,614	6,576	5,398	5,934
Piñon/Juniper	44,706	44,062	33,788	38,637
Aspen	323	327	276	279
Mixed Conifer	9,837	11,591	7,538	8,875
Riparian	864	849	787	816
Total	64,865	65,858	49,968	56,864

24

25 Due to the size of the Arkansas River TMP area a large number of wildlife species are involved.

26 To be practical, only a few wildlife species can be addressed in detail (See Wildlife, Terrestrial

1 section). The assumption has been made that protection of core habitats will provide for all the

2 species that occupy those habitats. Key species for each habitat were previously described in the

- 3 Migratory Bird Affected Environment. Protection of core areas is expected to confer benefits on
- 4 the greatest number of species and includes species that have the greatest need for contiguous
- 5 habitats and effective corridors.
- 6
- 7 Table 7-3 describes traffic impacted habitat on BLM by alternative. About 200 acres of
- 8 grassland habitat and 700 acres of mountain shrub habitat will be protected in Alternative C
- 9 (Proposed Action) over the no action alternative. Piñon-juniper habitat is the most common
- 10 habitat type in the TMP area. Under Alternative C fewer acres are impacted (38,637 acres) as
- 11 compared to the no action alternative (44,706 acres). Aspen and riparian habitats affected by the
- 12 TMP are relatively rare-there are less than 100 acres of difference between the four alternatives.
- 13 Fewer acres of mixed conifer habitat (8,875 acres) are affected with the proposed action
- 14 (Alternative C) than the No Action alternative where 9,837 acres are affected.
- 15
- 16 **Mitigation**: Applicable to all alternatives
- 17
- 18 In order to be in compliance with the Migratory Bird Treaty Act, BLM will avoid actions that
- 19 "take" migratory birds. Generally this requires a seasonal restriction that requires that all

20 vegetation disturbance be avoided from May 15 thru July 15. This is the breeding and brood

21 rearing season for most Colorado migratory birds. Implementation of the Travel Management

22 Plan will need to adhere to this restriction.

2324 Cumulative Effects

25 In addition to growth in recreational travel, other reasonably foreseeable actions that could effect

- 26 migratory bird habitat over the next 10 years on private and public lands in the Arkansas River
- basin include residential growth, new road construction on private lands, fuels reduction projects,
- 28 utility corridor maintenance and upgrades, and new buried utility rights-of-way. Activities on
- 29 public lands in the travel planning area that could also potentially impact migratory bird habitat
- 30 and require mitigation include, the proposed *Over the River* art project on the Arkansas River,
- and commercial forest products harvesting. The cumulative impacts from these activities to
- migratory bird habitat from all action alternatives will be long-term and most adverse in the No
 Action and Alternative A, dispersed and long-term in Alternatives B and C.
- 33 *.* 34

35 THREATENED, ENDANGERED, AND SENSITIVE SPECIES (includes a finding on Standard 4)

36 Affected Environment: This Environmental Assessment (EA) analyzes the effects of

- 37 implementing the Royal Gorge Field Office (RGFO) Arkansas River Travel Management Plan
- 38 (TMP) on threatened, endangered, proposed, candidate, and sensitive species. Species addressed
- 39 in this EA are those that were identified by US Fish and Wildlife via correspondence dated
- 40 November 23, 2004 (<u>Appendix 16</u>). While sensitive species are not federally protected, it is
- BLM policy to manage these species to prevent future listing, thereby affording them the same
 level of protection as Threatened and Endangered (T&E) species in BLM programs. Only those
- 42 rever of protection as fineatened and Endangered (1 & E) species in BLM programs. Only those 43 species that may be affected by the implementation of the TMP are addressed in this section.
- 44 Federally listed or candidate species not addressed include: Mountain plover, Black-tailed Prairie
- 45 Dog, Whooping crane, Pallid sturgeon, Least tern, Piping plover, Uncompanyer fritillary
- 46 butterfly, Penland alpine fen mustard, Greenback cutthroat trout, Boreal toad and Arkansas

darter. The species not addressed in this document either do not occur on BLM lands or are
outside the Arkansas River TMP boundaries. Those species (Threatened, Endangered, Candidate
and BLM Sensitive) that occur in the TMP area and that may be affected by travel management
activities are listed below. In addition, discussion of the Colorado Natural Heritage Programs
(CNHP) Element Occurrence records is included.

6 7 1. Mexican Spotted Owl **Threatened-Critical Habitat** 8 2. Canada Lynx Threatened 9 3. Bald Eagle Threatened 10 4. Gunnison's Prairie Dog **BLM** Sensitive 11 5. Peregrine Falcon **BLM Sensitive** 6. Goshawk 12 **BLM Sensitive** 13 7. Townsends Big-eared Bat **BLM Sensitive** 14 8. Brandegee Wild Buckwheat **BLM Sensitive** 9. Golden Blazing Star 15 **BLM** Sensitive 16 10. Arkansas Canyon Stickleaf **BLM Sensitive** 17 11. Degener Beardtongue **BLM Sensitive** 18 12. Rock-loving Neoparrya **BLM Sensitive**

20 Species Descriptions

21

19

22 Mexican Spotted Owl

The Mexican spotted owl (*Strix occidentalis lucida*) currently occupies a broad geographic area
 but does not occur uniformly throughout its range. Instead the owl occurs in disjunct localities
 that correspond to isolated mountain systems and canyons. The range of the MSO in the United

26 States has been divided into six recovery units (RUs) as identified in the Recovery Plan. The

27 planning area is included in the Southern Rocky Mountain-Colorado RU.

28

29 Mexican spotted owls (MSO) breed sporadically and do not nest every year. In good years most

30 of the population will nest; whereas, in other years only a small portion of pairs will nest

31 successfully. Reasons for this pattern are unknown. MSO reproductive chronology varies

32 somewhat across its range. In Colorado, courtship apparently begins in March with pairs roosting

together during the day and calling to each other at dusk. Eggs are laid in early April. Incubation

begins shortly after the first egg is laid, and is performed entirely by the female. The northern

35 spotted owl incubates for approximately 30 days, and it is assumed that the MSO incubates for a

36 similar period. During incubation and the first half of the brooding period, the female leaves the

nest only to defecate, regurgitate pellets, or to receive prey from the male, who does all or most

of the foraging. The eggs usually hatch in early May with the nestling owls generally fledging

39 four to five weeks after hatching, then dispersing in mid September to early October.

40

41 All the MSO habitats found in canyons on public lands in the Pikes Peak area are located in

42 extremely rugged canyon habitats with steep canyon walls, cliffs, potholes and ledges. Stringers

43 of mixed conifer vegetation are found in the canyon bottoms in these areas. The primary

44 constituent elements essential to the conservation of the MSO include those physical and

45 biological features that support nesting, roosting and foraging. In canyon habitats the primary

46 constituent elements include the following attributes: cooler, often more humid conditions than

- 1 surrounding areas; clumps or stringers of trees and/or canyon walls containing crevices, ledges,
- 2 or caves; high percent of ground litter and woody debris; riparian or woody vegetation.
- 3

4 The MSO was listed as a threatened species on April 15, 1993. Two primary reasons were cited

- 5 for listing: historical alteration of its habitat as a result of timber management practices,
- 6 specifically the use of even-aged silviculture, plus the threat of these practices continuing. The
- 7 danger of catastrophic wildfire was also cited as a potential threat for additional habitat loss.
- 8 Riparian areas were also noted as an area of concern.
- 9
- 10 The general distribution of MSO on public lands in the RGFO occurs northeast of Canon City
- 11 (east of Fourmile Creek), north of Highway 50 between Canon City and Penrose, and west of
- 12 Highway 115 from Penrose to Colorado Springs. The northern boundary is Pikes Peak. Suitable
- 13 habitat is located on the eastern and southern slopes of Pikes Peak, Beaver Creek Wilderness
- 14 Study Area, Phantom Canyon and associated side canyons. MSOs have not been found west of
- 15 Canon City.16
- 17 In March of 2001, the US Fish and Wildlife Service designated Critical Habitat for the MSO.
- 18 The entire habitat for MSOs that occur on BLM lands in Colorado is within the RGFO; however,
- 19 there is no critical habitat within the TMP area. While a large area has been designated
- 20 (approximately 149,000 acres), the Recovery Plan makes it clear that only those areas that
- 21 contain the primary constituent elements necessary to support MSO's need to be considered as
- 22 critical habitat.
- 23

24 <u>Lynx</u>

- 25 Canada lynx (Lynx canadensis) are medium-sized, bobtailed cats, with a black-tipped tail, large
- 26 feet, tufted ears, and a grayish coat, with muted spots. They have long legs and large feet, an
- adaptation to walking on snow. Their main prey are snowshoe hares, but they also eat some
- carrion and capture ground-dwelling birds (like grouse) and small mammals such as squirrels,
- 29 porcupines, beavers, and mice.
- 30 Lynx populations are cyclic with snowshoe hair population cycles; however, snowshoe hare
- 31 populations are not thought to be cyclic in Colorado. Lynx require large areas of forest habitat.
- 32 The species is highly mobile and characteristically disperse more than 60 miles. Estimated home
- range for males in the southern range is 58 square miles, and 28 square miles for females. Home
- range sizes vary by gender and age, prey abundance, season, and population density. As a result,
- 35 they can colonize suitable but unoccupied habitats, augment existing resident populations, or
- 36 disperse to habitats where they cannot survive.
- 37 Mating occurs in late winter to early spring. Gestation is approximately nine weeks; females
- produce one litter per year of one to six young. Young open their eyes after ten to 17 days, and
- they begin to walk at 24 to 30 days. The young remain with the adult female until the following
- 40 spring mating season. Young lynx may remain together for weeks or months after separating
- 41 from the female; traveling and hunting co-operatively. Young disperse in the fall or following 42 spring. Individuals are considered convully mature after approximately two waves of a set
- 42 spring. Individuals are considered sexually mature after approximately two years of age.
- 43 Lynx inhabit dense sub alpine spruce-fir forests with rock outcrops and large boulders. Lynx
- 44 habitat in the Southern Rockies is sub alpine and upper montane forest zones between 8,000 and
- 45 12,000 feet in elevation. Relocated lynx were found in well-developed riparian and valley

- 1 wetland shrub habitats of the upper montane and sub alpine zones. The core range of Canada
- 2 lynx is in northern Canada and parts of Alaska below the Arctic Circle. In Colorado, Canada
- 3 lynx historically occurred above 8,000 feet in elevation in the central mountain areas. The
- 4 population declined due to habitat fragmentation, poisoning of wolves and grizzly bears, and
- 5 trapping, among other factors.
- 6
- 7 Lynx were designated as endangered in Colorado in 1973, the same year that the last known wild 8 lynx was illegally trapped in the Vail area. In 2000, the lynx became a federally listed threatened
- 9 species. While populations persisted in Colorado and Wyoming, they were not considered to be
- self-sustaining and were likely to go extinct. Following the initiation of a reintroduction 10
- program, 96 lynx were reintroduced into the San Juan and Rio Grande National Forests during 11
- 12 the winter and spring of 1998-1999 and 1999-2000. Most of the reintroduced lynx released
- 13 stayed in the core area: New Mexico state line north to Gunnison, west as far as Taylor Mesa, 14 and east to Monarch Pass. Some lynx have moved into adjacent states. As of 2005, 204 lynx
- 15 have been reintroduced into Colorado. In the 2005 breeding season, at least 46 kittens
- comprising 16 litters were born to the reintroduced lynx in Colorado. 16
- 17 Very little lynx habitat is found in the TMP area (Map 28). There are small areas of habitat
- 18 along the Sangre de Cristo range in the Kerr Gulch area, however, most BLM lands are generally
- 19 too low in elevation to support suitable habitat.
- 20

21 **Bald Eagle**

- 22 Colorado populations of bald eagles (*Haliaeetus leucocephalus*) typically nest in large
- 23 cottonwood trees along rivers and reservoirs. Eagle densities reach their peak during the winter
- 24 months when migrants arrive from the north. The bald eagle is a common winter (November
- 25 thru March) visitor to the Arkansas River valley. Typically, up to five birds can be found from
- Leadville to Canon City, and up to five birds can be found from Canon City to Pueblo Reservoir. 26
- 27 An active bald eagle nest is located on private land along Fourmile Creek north of Canon City.
- 28 These birds could be expected to forage on public lands. However, breeding use by eagles is so
- 29 incidental that preferred or critical areas such as roosting or feeding sites have not been
- 30 identified. Bald eagle use within the TMP area is limited to winter use along the Arkansas River
- 31 corridor. Eagles usually arrive in late November and will stay in the valley until late March.
- 32 Areas of high use have been identified along the river (Map 31).
- 33

34 **Gunnison's Prairie Dog**

- 35 This Gunnison's prairie dog (*Cynomys gunnisoni*) is limited to high mountain valleys and
- plateaus in the southern Rocky Mountains, and is found at elevations above 6,000 ft. Its 36
- 37 distribution centers on the Four Corners region where the states of Utah, Colorado, New Mexico,
- 38 and Arizona meet. The northernmost population of Gunnison's prairie dog is found in Park
- 39 County, CO, while the southernmost population resides in southwestern New Mexico. Compared
- 40 to the habitats of other prairie dog species, the habitat of this species varies greatly with respect
- 41 to topography and vegetation. In addition, the burrow systems are more similar to those of
- 42 ground squirrels than they are to other species of prairie dogs. Entrances are usually located on
- slopes or small hummocks rather than in depressions, which protects the burrows from flooding. 43
- 44 Gunnison's prairie dogs are often found in semi-social aggregations; yet, colonies of these 45

- 1 fewer than 50 to 100 individuals.
- 2
- 3 Gunnison's prairie dogs are very rare in the Arkansas River TMP area. Suitable habitat for the
- 4 species is not common in the mountainous topography of the planning area. The Colorado
- 5 Division of Wildlife recently collected all known records of this species in the southeast portion
- 6 of the state and few dog towns were documented. No occupied towns were documented in the
- 7 TMP area on public land. Gunnison's prairie dogs were probably never common in the planning
- 8 area due to the lack of suitable habitat.
- 9

10 Peregrine Falcon

- 11 Peregrine falcon (*Falco peregrinus*) habitat includes nesting and hunting sites, as well as
- 12 migration and wintering areas. Typical nesting sites are cliffs more than 200 feet high that
- 13 overlook water and permit extensive views of the surrounding area. Prey abundance and
- 14 diversity provided by these situations are major factors in eyrie (nest) selection. Peregrines may
- 15 travel up to 17 miles from nesting cliffs to hunting areas. Preferred hunting habitats include
- 16 cropland, meadows, river bottoms, marshes and lakes that provide an abundance of avian prey.
- 17 Birds are occasionally reported in Colorado during the winter, but most peregrines migrate to
- 18 Central and South America.
- 19
- 20 Peregrine falcons in the area are found in the roughest, most rugged, inaccessible areas BLM
- 21 manages (Map 31). Large canyon complexes with extensive rock are typically used during the
- 22 breeding season. One peregrine falcon eyrie is located in the TMP area in the Royal Gorge Park
- 23 west of Canon City. Eyries are also located outside the TMP area near Buena Vista at Chalk
- 24 Cliffs and Granite, and southwest of Canon City at Bear Gulch.
- 25
- 26 Recovery goals for nesting peregrines were exceeded several years ago. Colorado documents
- 27 over 100 nesting pairs of peregrines each year. The peregrine was down listed from a federal
- 28 threatened species to a state listed species of special concern as recovery progressed. The BLM
- considers the peregrine falcon a sensitive species.

31 Goshawk

- 32 Northern goshawks (*Accipiter gentiles*) are medium-sized, broad-winged, long-tailed hawks.
- 33 Adults have red eyes with black heads and face. Their tails are barred with dark bands and both
- tail and flight feathers are dark blue-gray dorsally and pale ventrally. Immature birds have
- 35 yellow eyes and brown feathers with a pale belly streaked with black. Medium sized, broad-
- 36 winged, long-tailed hawk. Their diet consists of small mammals such as ground squirrels,
- 37 cottontail rabbits, and birds such as flickers and jays. Northern goshawks hunt from tree perches,
- 38 therefore, an open under story contributes to successful prey capture.
- 39 Goshawks typically begin breeding activities in April. Eggs are generally laid around June 15
- 40 with the young fledging between July 15 and August 15. The young typically rely on adults for
- 41 food until the end of September. Nests are typically large stick platform structures built in a fork
- 42 near the trunk of the tree or on a large branch, and are usually 30 to 40 feet from the ground in
- 43 the lower two-thirds of the tree crown. Goshawks often build more than one nest, with
- 44 additional nests in adjacent trees or trees up to one mile from the active nest. The birds may
- 45 alternate between these nests each year. Goshawks reuse the same territory year after year and
- 46 sometimes reuse the same nest.

- 1 Northern goshawks primarily nest in older coniferous and mixed coniferous/deciduous forests
- 2 with a high percent (greater than 60 percent) canopy closure. The main forest types occupied in
- 3 the southwest are ponderosa pine, mixed-species, and spruce-fir. However, habitat utilization
- 4 varies by region, with 13 percent of nest observations in southern Colorado and New Mexico in
- 5 ponderosa pine woodlands. Average nest tree size is variable with mean tree diameters ranging
- 6 from 8 to 20 inches in Colorado. Goshawks appear to prefer denser tree stands on flatter slopes
- 7 for nesting sites, and require large areas of continuous forest with only small (less than 1 acre)
- 8 clearings for foraging and nesting. Nests can also be in stands of aspen and are also commonly
 9 found in areas near streams. Northern goshawks require home range sizes of approximately
- 6,000 acres. Home ranges are comprised of nest areas (30 acres), post fledging-family areas
- 11 (420 acres), and foraging areas (5,400 acres). Nests are usually located in a north facing
- 12 drainage or canyon. Nest areas are occupied by breeding pairs from early March until late
- 13 September.
- 14 In Colorado, northern goshawks nest in suitable areas throughout the western mountainous part
- 15 of the state. In 1991, the southwestern U.S. population of northern goshawks was petitioned for
- 16 listing as threatened. The USFWS determined that insufficient data exists to warrant listing.
- 17 The southwestern region of the USFS listed northern goshawk as a Sensitive Species in 1992 and
- 18 the BLM subsequently listed the species as Sensitive, as well. Northern goshawks require large
- 19 areas of mature, un-fragmented forests for nesting and foraging. Declines may be caused by
- 20 logging, and to a lesser extent fire suppression, livestock grazing, drought, and pesticides.
- 21 Goshawks are limited by prey and habitat availability. Goshawks are uncommon in the TMP
- 22 area due to a lack of suitable habitats. Highest concentrations of the birds would be expected to
- 23 occur along the Sangre de Cristo range.
- 24

25 Townsend's Big-eared Bat

- 26 Townsend's big-eared bats (Corynorhinus townsendii) are medium-sized bats that are slate or 27 gray dorsally with brown at the tips of hairs. The ears are long and coil down and back across 28 their head when hibernating, but are up and turned forward during flight. Their wingspan is 12 29 to 13 inches and they weigh 0.3 to 0.4 ounces. This bat feeds on caddis flies, small moths, and 30 other insects that they either glean from vegetation or catch mid-air. In winter, Townsend's big-31 eared bats roost (hibernate) alone in caves or abandoned mines, though larger groups of around 32 30 individuals can form in Colorado. The species is not known to migrate long distances and individuals use the same roosting locations year after year. Hibernacula must have appropriate 33
- temperature and humidity for Townsend's big-eared bats to use and bats will move to anotherlocation if necessary.
- 36
- 37 Females form maternity colonies in caves, mines, and buildings in mid-March; males are
- 38 generally solitary. Maternity colonies form in spring and summer and break up in August.
- 39 Townsend's big-eared bats begin mating in fall and continue through winter. The female stores
- 40 the sperm during hibernation and fertilization occurs in the spring. Gestation ranges from 56 to
- 41 100 days with a single young born in June. The species has a life span of up to 16 years. Only
- 42 11 maternity roosts have been identified in Colorado. In Colorado, Townsend's big-eared bats
- 43 occur at elevations up to 9,500 feet. Mines are the only known roosts for Townsend's big-eared
 44 bat in Colorado. Roosts are located in abandoned mines in sagebrush, semi-desert scrub, Piñon-
- bat in Colorado. Roosts are located in abandoned mines in sagebrush, semi-desert scrub, Piñon juniper, and ponderosa pine woodland, and montane forest. Abandoned buildings and rock
- 46 crevices on cliffs are also used for day roosts and hibernacula.

- 1 Townsend's big-eared bats occur in western North America, and range from southern British
- 2 Columbia to southern Mexico. In Colorado, Townsend's big-eared bats are found throughout the
- 3 state except on the eastern plains. Townsend's big-eared bats are a BLM sensitive species and
- 4 are considered to be declining throughout its range due to loss of suitable roost sites, its
- 5 sensitivity to human disturbance, and low-reproductive rates. The availability of roosts sites
- 6 with suitable temperatures determines the distribution of the species. Therefore, protection of
- 7 suitable roost sites is necessary to conserve this species. Townsend's big-eared bats are easily
- 8 disturbed by human noise or disturbance around mines. Access to mines that are habitat for
- 9 Townsend's big-eared bats should be limited to protect the species.
- 10 Townsend's big-eared bats have been documented in old mine openings near Salida at Cleora
- 11 and in the Parkdale area. It is likely that they occur in other locations within the planning area;
- 12 however, surveys have not been completed for the entire TMP area.
- 13

14 Brandegee Wild Buckwheat

15 The Brandegee wild buckwheat (*Eriogonum brandegei*) is as a BLM sensitive species. It is

- 16 found in the valley of the upper Arkansas River in Chaffee and Fremont Counties, Colorado. It
- 17 occurs on barren clay-loam soil in the Morrison formation. The Colorado Natural Areas
- 18 Program designated a site in Chaffee County as the Droney Gulch State Natural Area. The
- 19 Droney Gulch site represents the best known occurrence in the world for this species. This
- 20 species also occurs in the Garden Park area north of Canon City outside the TMP area. Several
- 21 thousand individual plants are found in several sites along Fourmile Creek. Much of the area has
- 22 been disturbed by past mining and increases in off-road vehicle use in recent years. The area that
- 23 contains the Buckwheat plant is designated as the Garden Park Research Natural Area by the
- state of Colorado and as a BLM Area of Critical Environmental Concern (ACEC). An equally
- important site within the TMP area is the Castle Gardens site (formally called Cleora), located
 southeast of Salida. The Castle Gardens site is the only site containing Eriogonum brandegei
- within the TMP area. The site is described as a north-flowing tributary to the Arkansas River that
- has cut through a fine textured, grey to brown deposit of the Dry Union formation. The
- 29 landscape in the basin is barren, and some of the steep and sharply eroded slopes and ridges are
- 30 devoid of vegetation. Most of the basin has about 10% total vegetation cover of Eriogonum
- 31 brandegei, Oryzopsis hymenoides (Indian ricegrass), and Yucca glauca (Yucca). The
- 32 surrounding landscape is dominated by Piñon pine, juniper, and mountain mahogany. CNHP has
- 33 assigned this site as B1: Outstanding Biodiversity Significance and has designated the area as a
- 34 Conservation Site. The Conservation site contains the barren slopes where the species is found,
- as well as some surrounding Piñon-juniper woodlands where the species has been documented.
- 36

37 Golden Blazing Star

- 38 Golden blazing star (*Menzelia chrysantha*) is a tall plant with yellow flowers. The habitat
- 39 consists of barren slopes of limestone, shale or clay at elevations of 5120 -5700 ft. This species is
- 40 known from less than 20 locations in the Arkansas Valley from Pueblo Reservoir to Canon City
- 41 and is not found anywhere else in the world. BLM lands support two excellent populations of
- 42 blazing star in the Fourmile Creek drainage north of Canon City and the other at Blue Heron
- 43 ponds in the dry uplands. Both populations of this species that occur on public lands provide an
- 44 important potential haven for the Golden blazing star. A small population has been documented
- 45 within the Arkansas River TMP area along Highway 9, just north of the junction of Highway 9

- 1 and Highway 50. In this area, blazing star grows along the road cuts on both sides of the
- 2 highway.
- 3

4 Arkansas Canyon Stickleaf

- 5 Arkansas Canyon Stickleaf (Nuttallia densa) is a Colorado endemic, found in the Arkansas River
- 6 canyon. It occupies washes, naturally disturbed sites and steep rocky slopes. It occurs on dry
- 7 open sites, often with Piñon-juniper and mountain mahogany at elevations of 5800-7200 ft. This
- 8 species has been documented throughout the lower elevations in the TMP area, especially within
- 9 the Arkansas River canyon and associated side drainages.
- 10

11 Degener Beardtongue

- 12 Degener Beardtongue (Penstemon degeneri) is endemic to central Colorado in Fremont and
- 13 Custer counties. Its habitat is Piñon-juniper woodlands and montane grasslands on coarse
- 14 gravelly or rocky reddish soil with igneous bedrock. It is also found in cracks of large rock
- 15 slabs. The species is limited to elevations of 6000-9500 ft. CNHP has mapped occurrences along
- 16 the Arkansas River in the McIntyre Hills area.
- 17

18 Rock-loving Neoparrya

- 19 Rock-loving Neoparrya (Aletes lithophilus) is found in Colorado in Chaffee, Conejos, Fremont,
- 20 Huerfano, Rio Grande and Saguache Counties. It is found on igneous outcrops or sedimentary
- 21 rock derived from extrusive volcanic formations. It is usually found on north-facing cliffs and
- 22 ledges within Piñon-juniper woodlands from 7000-10,000 ft elevation. CNHP has documented
- 23 two occurrences in the TMP area: the Midland Hills area south of Salida near the radio tower and
- 24 northeast of Spiral Drive.
- 25

26 Colorado Natural Heritage Program (CNHP) Element Occurrences

- 27 CNHP has Element Occurrence data for the species listed below for the Arkansas River planning
- area at a level of precision (seconds) that will allow for the analysis of route impacts. Several of
- these species have been described previously in this section of the EA. Others are not considered
- 30 BLM sensitive species and will not be described in further detail. Detailed descriptions of plant
- associations are not included in this document. All element occurrence records have been
- 32 mapped and impacts to all element occurrences will be evaluated in the Environmental
- 33 Consequences section of the EA. Definitions of CNHP rankings are located in <u>Appendix 10</u>.
- 34

1 2	Specie	Common Name	Global/State Rank	BLM Status
3	<u>Birds</u>			
4 5	Falco peregrinus anatum	American Peregrine Falcon	G4T3/S3B	Sensitive
6	Mammals			
7	Lynx Canadensis	Canada Lynx	FT SE	Threatened
8	•	Townsend's Big-eared Bat Subsp	G4 T4 S2	Sensitive
9	r records rownsenant parteseens	Townsend's Dig cured Dut Subsp	011102	Belisterve
10	Plants			
10	<u>Eriogonum brandegeei</u>	Brandegee Wild Buckwheat	G1G2 S1S2	Sensitive
12	Mentzelia chrysantha	Golden Blazing Star	G1G2 S1S2	Sensitive
12	Nuttallia chrysantha	Golden Blazing Star	0102 5152	Sensitive
13 14	Nuttallia densa	Arkongog Convon Stickloof	G2 S2	Sensitive
14		Arkansas Canyon Stickleaf Rock-loving Neoparrya	G2 S2 G3 S3	Sensitive
15	Aletes lithophilus	Degener Beardtongue	G2 S2	Sensitive
17	Penstemon degeneri	Degener Beardioligue	02.32	Sensitive
18	Plant Communities:			
19	POPULUS ANGUSTIFOLIA/	Montane Riparian Forest	G2G3 S3	
20 21	JUNIPERUS SCOPULORUM			
$\frac{21}{22}$	BETULA OCCIDENTALIS/	Foothills Riparian Shrubland	G3 S2	
23	MESIC FORB	r oounns rupurun sinuoluna	03.52	
24	MESIC FORD			
25	POPULUS ANUGUSTIFOLIA	/Montane Riparian Forest	G3 S2	
26	BETULA OCCIDENTALIS	Wontane Kiparian Polest	05.52	
27	bereenderverendervertens			
28	POPULAS ANGUSTIFOLIA/	Montane Riparian Forest	Gl G3 S3	
29	ALNUS INCANA	Wontane Kiparian Polest	010555	
30				
31	CAREX AQUATILIS	Montane Wet Meadows	G5 S4	
32	eniumiquini	Montane Wet Meddows	0551	
33	SALIX EXIGUA/	Coyote Willow/Mesic Graminoid	G5 S5	
34	MESIC GRAMINOID	Coyote Willow/Mesie Grammond	05.05	
35	WESTE OKTIMITOID			
36	POPULUS ANGUSTIFOLIA/	Montane Riparian Forest	G3 S2	
37	PSEUDOTSUGA MENZIESII	Wontane Repartan Polest	05.62	
38	I SLODOI SOOA WEIVZIESII			
39	POPULUS ANGUSTIFILIA/	Narrowleaf Cottonwood	G4 S2	
40	SALIX EXIGUA	Riparian Forest	0+52	
41	SALIA LAIGUA	Ripartan i orest		
42	POPULUS DELTOIDES SSP	Plains Cottonwood	G3 G4 S3	
43	MONILIFERS-	Riparian Woodland	05 07 55	
44	(SALIX AMYGDALOIDES)/	Ripartan Woodland		
45	SALIX AM TODALOIDLS/			
45 46	SI LIN LINOUA			
40 47	JUNIPERUS SCOPULORUM	Riparian Woodland	GNR S3 S4	
47	JOINII EKOS SCOF ULOKUM		0111 53 54	
48 49				
49 50				
50				

Environmental Consequences/Mitigation: Analysis of impacts from the four alternatives will be described for each species listed under the Affected Environment at the beginning of this section. The reader is directed to read the impact analysis described in the Terrestrial section of the EA. Much of that discussion applies to T&E species, as well. The discussion of habitat fragmentation and maintenance of movement corridors and providing habitat connectivity are

- 6 important to T&E species (see Terrestrial section of the EA).
- 7
- 8 Landscape-level Trends

9 Population growth experienced over the last 20 years, along with the increasing extent of private

10 land subdivision and residential development in Fremont, Chaffee and surrounding counties have

11 dramatically altered the state of remaining wildlife habitat in the Arkansas Travel Management

12 Planning area. The Arkansas River TMP area is dissected by a matrix of public lands and private

- 13 lands; the latter consisting of lands that were formally working ranches.
- 14

15 Historically, private ranches provided a level of core-interior, low-traffic wildlife habitat. In

- 16 recent years, many of these ranches have been sold to developers and converted to subdivisions
- 17 that include roads, home sites and other support facilities. As homes are built and people move

18 into former open space, wildlife are being displaced and forced to move from traditional ranges.

19 As a result, BLM public lands are an increasingly critical source of land for providing core,

20 undisturbed habitat for all species (including T&E and sensitive species), as well as connectivity

21 of habitats that is so important to many wildlife species. Table 7-4 details the level of

- 22 importance of public lands in maintaining core wildlife habitat and large blocks of contiguous
- 23 open space on the landscape in the planning area.
- 24

	ALTERNATIVE				
	No Action	Α	B	С	
	(Current)				
Core Areas (acres)	351,651	351,274	368,230	361,141	
Core Areas BLM (acres)	175,279	174,252	190,206	183,310	
% of Planning Area in Core Areas	66.1	66.1	69.3	67.9	
% of BLM Land in Core Areas	72.9	72.4	79.1	76.2	
% of Planning Area Impacted by Traffic	33.9	33.9	30.7	32.1	
% of BLM Lands Impacted by Traffic	27.1	27.5	20.9	23.8	
Mean Size of 10 Largest Core Areas (acres)	33,922	33,847	37,246	35,607	
Number of Core Areas > than 20,000 acres	8	8	9	9	

25 Table 7-4: Core habitat analysis

26

27 Currently, within the Arkansas River TMP area approximately 66% of the landscape across the

28 entire planning area is considered interior core habitat, unaffected by roads, trails, and human

29 traffic. Conversely, approximately 34% of all lands within the planning area are impacted by

30 routes and traffic. Approximately 27% of BLM lands are impacted by routes, trails and human

31 traffic leaving more than 73% of the public lands managed by BLM within the planning area as

32 interior core habitat.

33

34 Large blocks of core habitat areas in the TMP area are those that occur on public lands, such as

35 the McIntyre Hills WSA, Lower Grape Creek WSA, Upper Grape Creek WSA and the Browns

1 Canyon WSA. In addition, topography limits roads and trails along the north and south sides of

- 2 the Arkansas River canyon (McIntyre Hills and Big Hole subunits) and in areas surrounding the
- 3 Badger Creek drainage (Badger Creek subunit). In order to comply with Public Lands Health
- 4 Standard 4, BLM managers seek to ensure that these areas remain viable as suitable habitat.
- 5
- 6 <u>T&E and Sensitive Species Impact Analysis</u>
- 7 The BLM Royal Gorge Field Office analyzed T&E and sensitive species impacts under four
- 8 travel management scenarios: current levels of use, low levels of use, moderate levels of use, and
- 9 high levels of use; as developed by the ID Team and in response to public input. BLM route
- 10 inventory data, derived from GPS mapping and Digital Orthophotoquad interpretation, were
- 11 modeled for traffic-impacts using Geographic Information System tools and comparatively
- 12 assessed in terms of core-undisturbed and traffic-impacted habitat in relation to BLM, Colorado
- 13 Division of Wildlife, and Colorado Natural Heritage Program wildlife habitat datasets.
- 14 Analytical products included map overlays and statistical information produced to depict relative
- habitat fragmentation, traffic-impact areas, and remaining wildlife core areas both within the
- 16 planning area and among 6th level watersheds.
- 17
- 18 All routes within the TMP area were initially examined and characterized as to type, width, type
- 19 of use, and to the current levels of use. These parameters defined a *generalized* current impact
- assessment of a route to individuals, populations, and habitat for a particular species or group ofspecies.
- 22

Similarly, within the GIS, habitat impact results were viewed and assessed across different scales
of the landscape, such as between watersheds or across the whole TMP planning area. Routes

- were ranked from high to low impact based on the aforementioned attributes and buffered by
- four distances to determine areas of habitat that are being impacted from the effective habitat
 base. The traffic-buffer classes used in this assessment were:
- 28
- 29 165 ft. (50 meters) Low impact routes that receive low use; i.e., trails
- 30 330 ft. (100 meters) Moderate impact routes; moderate use, trails and unimproved roads
- 31 820 ft. (250 meters) Moderate impact routes; motorized use, unimproved routes, high use trails
- 1,335 ft. (407 meters) High impact routes: major improved routes with high use, high use
 motorized routes
- 34

For instance, a foot trail that receives low use was buffered by 165' (50 meters) on both sides of the route. Similarly, County roads that receive high use were buffered by 1,335' (407 meters or ¼ mile). These analyses were done for all four alternatives. These buffers were developed for local use and conditions referencing previous research. Future traffic and type of use, and thus

- 39 route wildlife impact, were projected from route designation per travel alternative and traffic-
- 40 counter data as collected by the Royal Gorge Field Office.
- 41
- 42 Areas of T&E species habitat inside or outside of these traffic-weighted route buffers were
- 43 considered to be either impacted by the route network or core-interior wildlife habitat,
- respectively. These routes are depicted in Maps 22, 23, 24 and 25 for each alternative and show
- 45 where effective core habitat remains intact. Table 7.1 shows a comparison between alternatives
- 46 and core habitats. When analyzing the data on a landscape level (Arkansas River TMP) it

- 1 becomes obvious that differences between the four alternatives are small. This is due to the scale
- 2 of observation, the relative state of road density in the planning area, and the relatively minor
- 3 mileage statistics impacted by BLM travel decisions.
- 4
- 5 Similarly, at the ecosystem and landscape scale, large areas of habitat that are currently
- 6 undisturbed, will remain undisturbed by roads and trails in the McIntyre Hills WSA, the Upper
- 7 Grape Creek WSA, Lower Grape Creek WSA, Browns Canyon WSA and other extremely rough
- 8 areas, such as Big Hole, Sommerville Table and upper Badger Creek no matter what decision
- 9 results. All alternatives result in several core areas that are greater than 20,000 acres and mean

10 core area sizes for the ten largest core areas are more than 33,800 acres (Table 7-4).

11

12 The T&E species impact analysis compared the four alternatives, the habitat types and core

- 13 areas. Table 7.4 shows the percentages of each habitat type that remain in core habitat (based on
- 14 the total acres of that habitat type in the planning area). Table 7-6 shows the percentage of BLM
- 15 habitat that is impacted by routes. As expected, Piñon-juniper habitat is the most affected (31%)
- 16 because it is the habitat type that is most commonly found on the public lands in this area. Only
- 17 subtle differences are noted between alternatives when examining this data on a landscape level.
- 18

19 Table 7-5: Acres of core habitat on BLM by habitat type and alternative

	ALTERNATIVE			
Habitat Type	No Action	Α	B	С
	(Current)			
Grassland	2,787	2,855	3,127	2,985
Mountain Shrub	10,744	10,782	11,960	11,424
Piñon/Juniper	114,359	115,004	125,278	120,429
Aspen	1,264	1,260	1,312	1,308
Mixed Conifer	44,324	42,571	46,623	45,286
Riparian	528	543	604	575
Total	174,006	173,015	188,904	182,007

20

22 Table 7-6: Acres of habitat impacted by traffic on BLM by habitat type and alternative

	ALTERNATIVE				
Habitat Type	No Action	Α	В	С	
	(Current)				
Grassland	2,521	2,453	2,181	2,323	
Mountain Shrub	6,614	6,576	5,398	5,934	
Piñon/Juniper	44,706	44,062	33,788	38,637	
Aspen	323	327	276	279	
Mixed Conifer	9,837	11,591	7,538	8,875	
Riparian	864	849	787	816	
Total	64,865	65,858	49,968	56,864	

23

24 Despite the large size of the Arkansas River TMP area, only a small number of T&E and

25 sensitive species are involved. The assumption has been made that protection of core habitats

26 will provide for all the species that occupy those habitats. Protection of core areas is expected to

²¹

1 confer benefits on the greatest number of species and includes species that have the greatest need

- 2 for contiguous habitats and effective corridors.
- 3

4 Data for individual species is found in Table 7.6. This table shows the amount of acres of core

5 BLM habitat for each species, the acres of traffic impacted habitat and the percentage of traffic

6 impacted habitat for that species based on the total TMP area. Data for Element Occurrence

7 Records are found in Table 7.7.

8

9 Table 7-7: Acres and percent of core threatened & endangered (T&E) species habitat impacted

10 by traffic on BLM

	ALTERNATIVE				
T&E Species	No Action	Α	B	С	
	(Current)				
Lynx	-	-	-	-	
Core Areas (acres)	1,863	1,975	2,053	1,975	
Traffic Impacted Core Areas (acres)	1,479	1,366	1,288	1,366	
Traffic Impacted Core Habitat (%)	0.61	0.57	0.54	.57	
Bald Eagle	-	-	-	-	
Traffic Impacted Core Areas (acres)	312	312	269	312	
Traffic Impacted BLM Habitat (%)	0.13	0.13	0.11	0.13	

11

12 Table 7-8: Element occurrence records from 2006 CNHP Database (acres of traffic impacted

habitat)

,	ALTERNATIVE			
	No Action	Α	В	С
Rare Plant Species	(Current)			
Ark canyon stickleaf	48.7	46.6	45.4	46.6
Brandegee w. buckwheat	15.2	6.1	6.1	6.1
Degener beardtongue	2.0	2.0	2.0	2.0
Golden blazing star	4.4	3.7	3.9	3.7
Jeweled blazing star	8.5	5.7	5.7	5.7
Pale blue-eyed grass	0.1	0.0	0.0	0.0
Rock loving neoparry	0.0	0.0	0.0	0.0
Plant Associations*				
Coyote Willow/Bare Ground	18.0	3.4	2.7	3.2
Foothills Riparian Shrubland	2.4	0.8	0.8	0.8
Montane Riparian Forest	40.9	34.2	9.3	33.3
Cottonwood Riparian Forest	19.5	4.4	2.8	3.9
Riparian Woodland	35.1	13.5	0.0	13.5
Mammals				
Townsend's big-eared bat	0.5	0.0	0.0	0.0

14 * The reader is encouraged to read the Floodplains, Wetlands and Riparian Areas section of this

15 EA for a more complete description of the riparian resources that occur within the planning area.

16 Plant association data provided by CNHP consists of a small subset of CNHP surveyed riparian

17 resources within the larger riparian resource base.

¹³

1 EFFECTS COMMON TO ALL ALTERNATIVES

2 Some species were included in this analysis because the potential exists for them to be found in

- 3 the planning area, including Mexican spotted owl, peregrine falcon, and Gunnison's prairie dog.
- 4 Upon review of the available data, including species distribution maps, it is apparent that there
- 5 will be no impacts to these species from any decisions made in the TMP.
- 6
- 7 Suitable Mexican spotted owl (MSO) habitat has not been documented in the TMP planning area
- 8 and there are no records of spotted owls for the area. The Royal Gorge FO has been actively
- 9 inventorying and monitoring MSO in an area north and east of Canon City in the large canyon
- 10 complexes in the Fourmile, Beaver Creek, and Eightmile Creek drainages. These areas contain
- 11 abundant suitable habitat. Similar habitat is not found within the TMP planning area. Hence,
- 12 there will be no further discussion of MSO.
- 13
- 14 Within the Arkansas River TMP area, there is one active peregrine falcon eyrie in the Royal
- 15 Gorge. The eyrie is located on property owned by Canon City within the Royal Gorge Park, and
- 16 has been active for many years. Another active eyrie is located outside the planning area at Bear
- 17 Gulch on USFS land southwest of Canon City. While peregrines from these sites could be
- 18 expected to forage in the travel planning area, no travel management decisions are being
- 19 considered that will impact peregrine falcons.
- 20

21 There are no known locations for Gunnison's prairie dogs on public lands within the TMP area.

- 22 Gunnison's prairie dogs may be found on private lands in the area in suitable habitats but BLM
- 23 decisions will have no affect on private lands in the area.
- 24

25 **T&E Analysis**

- 26 Figures provided in Tables 7-6 and 7-7 show acres of habitat affected by each alternative. As
- 27 previously stated, despite the large size of the Arkansas River TMP area, only a small number of
- 28 T&E and sensitive species are involved. Most of the roads and trails in the TMP area are outside
- 29 of habitat for T&E, sensitive species and CNHP element occurrence records. Therefore,
- 30 individual discussions of T&E impacts by alternative are unnecessary and redundant. Impacts to
- 31 individual species, while minimal, are described below.
- 32
- 33 Bald eagles will not be impacted by increased and uncontrolled use of roads and trails in any
- 34 alternative. Only one known nest site is located within the vicinity and it is located on private
- 35 land along Fourmile Creek north of Canon City (outside the TMP area). Eagles using this nest
- 36 site are unlikely to utilize riparian habitats within the TMP area. Wintering bald eagles are found
- along the entire length of the Arkansas River from Canon City to Salida. During a typical winter
- 38 up to 5 birds may be using the river. Most of the use occurs on private lands where the canyon
- 39 opens up into wider valley bottoms such as the areas around Coaldale, Howard and Swissvale.
- 40 These areas contain the large cottonwood galleries that provide ideal perch and roost sites for
- 41 bald eagles. <u>Table 7-4</u> shows the results of route analysis and shows that traffic impacted habitat
- 42 consists of a very small amount of habitat. Because winter habitats along the river corridor are
- adjacent to Highway 50 it can be shown that all the impacted habitat acres are the result of theproximity to Highway 50. Decisions in the TMP will have no effect on bald eagles.
- 44 45

1 Lynx habitat throughout the TMP area is minimal and the quality of the habitat is poor. The only

- 2 area where lynx habitat occurs in the TMP area is in the Sangres Foothills subunit. There are
- 3 small acreages of BLM land that occur in the Kerr Gulch area but the habitat consists of low
- 4 elevation, dry mixed conifer forest. Historically, many of these areas were non-lynx habitat
- 5 consisting of dry ponderosa pine forests. They were converted to mixed conifer after logging of
- the ponderosa pine and years of active fire suppression. A small amount of lynx habitat is
 affected by roads and trails in the TMP area. These acres of impacted habitat occur in Kerr
- 8 Gulch where the primary BLM road accesses BLM and USFS lands thru potential habitat. In all
- 9 the alternatives the primary access road would remain open to motorized traffic. Therefore,
- 10 Table 7-6 shows some acres of impacted habitat. The difference between all alternatives is only
- 11 191 acres and the difference between alternatives consists of several short access roads that
- 12 extend from the primary road. Decisions in the TMP will have no effect on lynx.
- 13
- 14 Goshawks are rare on BLM lands throughout the TMP area due to a lack of large landscapes of
- 15 suitable mixed conifer forest. Most BLM lands that contain suitable habitat occur in the Sangres
- 16 Foothills subunit. Habitat for goshawks has not been mapped in the TMP area. Therefore,
- 17 comparisons between alternatives are not possible.
- 18
- 19 Impacts to Colorado Natural Heritage Program Element Occurrences are depicted in Table 5.
- 20 Differences in acres of habitat affected for plants, plant associations and mammals are extremely
- 21 small and insignificant for the four alternatives. Arkansas canyon stickleaf is a BLM sensitive
- 22 plant. <u>Table 7-8</u> would indicate that approximately 45-48 acres of habitat would be affected,
- 23 depending on which alternative is selected. This plant has been mapped and documented as
- 24 growing along Highway 50 and Highway 69 in many locations. The impacted acres are a result
- the plants occurring close to the highways and for locations in and around the Texas Creek OHV area.
- 26 27
- 28 Brandegee wild buckwheat is found in the TMP area in the Castle Gardens area. Under the
- 29 Current (No Action) alternative, 15.2 acres of habitat for this species is affected. These acres are
- 30 the result of unrestricted and uncontrolled motorized use in buckwheat habitat. All other
- 31 alternatives result in the same number of acres impacted (6.1 acres), because most routes were
- 32 eliminated in buckwheat habitat. Some habitat is still impacted because primary BLM access
- roads and county roads would be not closed and one main trail would be maintained through thehabitat.
- 34 35

36 Degener beardtongue, golden blazing star, jeweled blazing star and pale blue-eyed grass are

- included in <u>Table 7-8</u> and show insignificant differences between alternatives. Rock loving
- neoparryi is not affected in any alternative. There are five plant associations in the planning area
- that are tracked by CNHP. All are associated with riparian corridors. These corridors are
- 40 typically where roads and trails have been constructed in the past. Travel management decisions
- 41 can only affect a certain number of acres of plant associations due to the fact that many of the
- 42 roads are either county or BLM primary access roads. However, the data displayed in <u>Table 7-8</u>
- 43 shows a significant difference between the No Action Alternative and the three action
- 44 alternatives. The No Action Alternative would affect a total of 116 acres of the five plant
- 45 associations; Alternative A would impact 56 acres, Alternative B would impact 15.6 acres and
- 46 Alternative C would impact 54.7 acres.

- 1 Townsend's big-eared bat is the only CNHP tracked mammal that is affected by the TMP with
- 0.5 acre impacted by the No Action Alternative and no impacts showing for any of the otheralternatives.
- 4

5 **Mitigation**: Perform appropriate levels of T&E surveys and inventory prior to any new trail 6 construction (applies to all alternatives). Avoid sensitive areas by rerouting existing trails where 7 possible.

8

9 **Cumulative Effects**

10 In addition to growth in recreational travel, other reasonably foreseeable actions that could effect

11 T&E habitat over the next 10 years on private and public lands in the Arkansas River basin

12 include residential growth, new road construction on private lands, fuels reduction projects,

13 utility corridor maintenance and upgrades, and new buried utility rights-of-way. Activities on 14 public lands in the travel planning area that could also potentially impact T&E habitat and

public lands in the travel planning area that could also potentially impact T&E habitat and require mitigation include, the proposed *Over the River* art project on the Arkansas River, and

15 require mitigation include, the proposed *Over the River* art project on the Arkansas River, and 16 commercial forest products harvesting. The cumulative impacts from these activities to T&E

10 commercial forest products narvesting. The cumulative impacts from these activities to T&

17 habitat from all action alternatives will be long-term and most adverse in the No Action and 18 Alternative A dispersed and long term in Alternatives P and C

18 Alternative A, dispersed and long-term in Alternatives B and C.

19 20

21 Finding on Standard 4 of the Public Land Health Standards for Threatened & Endangered

22 **Species**: The Standards pertinent to impact assessment of Arkansas River Travel Planning

23 Alternatives on wildlife include those related to riparian systems, plant and animal communities;

24 sensitive, threatened, and endangered species. Standard 4 provides direction for BLM Royal

25 Gorge Field Office to manage T&E and sensitive species and maintain and enhance populations

26 on both a local and landscape level and reads:

27

28 Special status, threatened and endangered species (federal and state), and other plants and

animals officially designated by the BLM, and their habitats are maintained or enhanced by

30 sustaining healthy, native plant and animal communities. Indicators: All the indicators

31 associated with the plant and animal communities standard apply. There are stable and

32 increasing populations of endemic and protected species in suitable habitat. Suitable habitat is

33 available for recovery of endemic and protected species.

34

Previous discussions in this document of impacts to T&E and sensitive species show that none of the alternatives identify significant impacts. Impacts that are shown are typically those situations where existing county or BLM roads are located in sensitive habitats. Decisions in the TMP do

38 not make changes to established Non-BLM and major BLM system roads, therefore these

39 impacts will remain. Despite this situation, decisions made in the Arkansas River Travel

40 Management Plan will not affect the public land health standards for threatened and endangered

- 41 species.
- 42

43

- 1 WILDLIFE, AQUATIC (includes a finding on Standard 3):
- 2 Affected Environment: Stability characteristics of aquatic wildlife populations are dependent
- 3 upon the habitat in which they reside. Affects from routes to wetland and stream habitats are
- 4 broad and partially described within the Floodplain, Wetland and Riparian section, Water
- 5 Quality/Hydrology section, and Soils sections of this document. In summary, in-stream aquatic
- 6 habitats in the planning area as related to travel management are primarily impacted by:
- 7 impairment of riparian function, sediment loading from travel routes, changed water tables and
- 8 channel shape from altering runoff patterns (often down-cutting), and to a lesser extent from
- 9 vehicles driving directly in the waterways.
- 10

11 There are many viable populations of aquatic wildlife species that reside in varying aquatic

- 12 habitats, both seasonal and perennial within the plan boundary. The plan area includes the
- 13 Arkansas River, several large streams, small streams, intermittent streams, seeps, springs and
- 14 wetlands. Man-made ponds are also common. These and other minor habitats support many
- 15 different species and help build the foundation of some ecological food webs.
- 16

17 Important recreational fisheries are also present within this region. There are 82 miles of streams18 with fisheries in the plan area. A large portion, 35 miles, are along the Arkansas River. Other

- 19 fisheries are scattered with only short segments on BLM throughout many of the subunits. No
- 20 threatened or endangered aquatic species are imperiled due to the current transportation network.
- 21 Vehicular travel and excessive road density, however, does limit the viability of the species that
- 22 are present in a number of places. Turbidity in the Arkansas is well known and a portion of this
- is attributable to roads. Leopard Frogs are a species of Special Concern both to the State of
- 24 Colorado and BLM, and potentially some streams could support Greenback cutthroat trout (a
- 25 threatened species), but no introductions are currently planed on BLM within the plan area.
- 26 Route induced sediment combined with other land use impairments impact food chains, pool
- 27 depths, bank stability, spawning areas, and a host of other variables that limit population
- viability. High sediment systems in the plan area are generally more prone to increased negative
- 29 effects of whirling disease and other silt favored pathogens and favor with silt tolerant
- 30 invertebrates that replace species requiring clearer waters.
- 31

32 In order to meet Public Land Health Standards, the health of aquatic resources needs to be

- 33 maintained or improved. Improvement needs to partially come by reversing the negative affects
- in the trend of route proliferation and poor route maintenance in some areas. To the extent
- 35 possible, direct impacts to streams, riparian area, and tributary channels caused by routes and
- trails should be reduced through reduction in the number of crossings and miles of routes within
- 37 or near drainages. Additionally, improved route maintenance and the implementation of Best
- 38 Management Practices in designing and constructing roads and trails is necessary. Direct and
- 39 indirect disturbance of wetland vegetation and standing or flowing water should be reduced so
- 40 that these areas can function properly to provide maximum benefits to aquatic wildlife
- 41 populations. Many of the Desired Future Condition images for the various subunits discuss
- 42 improving problem situations.
- 43
- 44 Numerous route segments were evaluated. Each route segment has unique variables and settings
- 45 that determine its relative impact to aquatic environments. Slope, soil, surrounding vegetation,
- 46 distance to wetlands, and channel type are prominent variables that determine direct, indirect,

1 and cumulative impacts to water. As discussed previously in the Floodplain Section, floodplain

- 2 resource conditions in much of the planning area are degraded by many other factors that impair
- 3 aquatic habitat and cannot just be attributed to travel related activities. Nevertheless, the
- 4 pressure for more motorized recreation opportunities and the corresponding trend towards un-
- 5 managed growth of route networks on both public and private land are further degrading
- 6 floodplain conditions that adversely affect aquatic habitats. Statistics describing the percentages
- 7 of the area that support aquatic habitat and that are currently being impacted by travel routes are
- 8 presented in the Floodplains, Wetlands, and Riparian Zones section.
- 9

10 Environmental Consequences/Mitigation: Analysis was preformed by measuring and

- 11 comparing the impacts on wetland resources that would result under the different alternatives.
- 12 One of the most significant findings from the analysis was the discovery that only small
- 13 differences existed between the three action alternatives for benefiting aquatic wildlife resources.
- 14 In other words, no one alternative offered changes in travel use designations that would
- 15 substantially reduce impacts on streams more than any of the other action alternatives. The
- 16 inability of the action alternatives to show any differences is largely due to the nature of the
- 17 existing transportation system, including the presence of well-established, historic and traditional
- 18 public uses of the roads and trails that would be difficult to change. As previously discussed,
- 19 many of the roads that have the greatest impact on riparian and wetland conditions are county,
- 20 state, or federal highways which are not subject to actions resulting from this TMP. In addition,
- 21 most routes having flexibility as to use designation were not located within or near streams, and
- therefore, changes made between the alternatives for these routes would have little or no effecton aquatic wildlife.
- 23 24
- 25 On the other hand, the planning area includes numerous short segments of routes, duplicate
- 26 routes, connector routes, and public travel on Administrative Access routes that would be
- affected differently under each action alternative. Although most of these routes are roads and
- trails in non-aquatic wildlife habitat, the reduction of unnecessary roads and removing public
- uses from Administrative Access roads would benefit the overall conditions for aquatic wildlife.
- 30
- 31 No Action Alternative (Current Use): Under the No Action Alternative, OHV uses would
- 32 continue to be limited to the existing network of roads and trails in the OHV Limited areas
- throughout the planning area. Only "User Created" routes would be closed. No additional
- 34 motorized and non-motorized trails proposed in the Texas Creek, Red Gulch, and Salida subunits
- 35 would be approved for construction. The current OHV Open areas at Texas Creek, Grand
- 36 Canyon Hills, and Sand Gulch would continue to be available for off-road OHV use. Off-road
- 37 travel would also continue to be allowed for parking, camping, and game retrieval within 300
- 38 feet of existing open roads.
- 39
- 40 Under this alternative, current management and enforcement problems that result from the
- 41 removal of closure signs would continue to occur and would likely increase in the future as more
- 42 people use the public lands for motorized forms of recreation. The current travel management
- 43 policy of limiting OHVs to existing routes would continue to be confusing for the public;
- 44 contributing to the proliferation of new routes and conflicts with non-motorized users.
- 45 Continuing under the current policy of allowing vehicles to be driven up to 300 feet off existing

1 roads for parking, camping, and game retrieval would also contribute to additional route

- 2 proliferation.
- 3

4 Under the No Action Alternative, approximately 203 miles of roads and 28 miles of trails would

5 be available to the public for motorized uses, not including 112 miles of non-BLM roads that

6 also access the public lands in the planning area. Of the four alternatives, the No Action

- 7 Alternative would do the least towards addressing the needs for protecting aquatic wildlife
- 8 habitat. Achieving public land health standards and Desired Future Conditions throughout the
- 9 planning area would be most difficult under this alternative.
- 10

11 <u>Alternative A</u>: Under Alternative A, OHV uses would be limited to designated routes in the

12 OHV Limited areas throughout the planning area. The current OHV Open areas in Texas Creek,

- 13 Grand Canyon Hills, and Sand Gulch would be changed to OHV Limited, and two small OHV
- 14 Open areas would be designated at Turkey Rock and Reese Gulch for riding trials bikes. All
- additional motorized trails proposed in the Texas Creek and Red Gulch subunits, and all
- 16 additional non-motorized trails proposed in the Salida subunit would be conditionally approved

17 for construction. The current allowance of 300 feet for driving off roads for parking, camping,

- 18 and game retrieval would be changed to 100 feet from designated routes.
- 19

20 Under this alternative, current management and enforcement problems that result from the

21 removal of closure signs would be improved. Implementing a travel management policy that

22 limits OHVs to designated routes that are identified on maps and on the ground with signs would

23 be easier for the public to understand and for BLM to enforce; helping to reduce the proliferation

of new routes and potential to aquatic wildlife resources. Reducing the distance vehicles can be

driven off roads for parking and camping to 100 feet from designated routes would also help to

26 control route proliferation.

27

28 Over most of the TMP planning area, Alternative A differs only slightly from Alternatives B and

29 C for the miles of motorized routes that would encroach within riparian areas. The most

30 significant difference occurs in the Texas Creek and Red Gulch subunits. Currently, and as

- 31 would also be the case under Alternatives B and C, Red Gulch is already largely accessible to
- 32 OHVs but is not connected to the Texas Creek OHV Area. Alternative A, however, would link
- Red Gulch to the Texas Creek OHV Area and place additional new trails the East Gulch,

34 Fernleaf Gulch, and Maverick Gulch drainages. Under Alternative A, additional ATV and dirt

35 bike trails would directly impact valuable riparian habitat in these watersheds. Linking the

36 highly used Texas Creek OHV Area with the Red Gulch subunit to the west would also very

37 likely increase the overall amount of motorized use of the area. Texas Creek is already a popular

38 destination for OHV recreation and expanding trails into adjoining subunits would likely result

- 39 in substantially increasing the amount of use.
- 40

41 Many of the additional routes proposed in Alternative A within the Texas Creek and Red Gulch

42 subunits were previously analyzed in the Texas Creek EA (CO-057-98-127 EA), which contains

43 a detailed description and analysis of impacts that the routes would have on watershed and

44 aquatic wildlife resources.

45

- 1 Under the Alternative A, approximately 165 miles of roads and 55 miles of trails would be
- 2 available to the public for motorized uses, not including 108 miles of non-BLM roads that also
- 3 access the public lands in the planning area. Of the three action alternatives, Alternative A
- 4 would do the least towards addressing the needs for protecting and improving riparian and
- 5 wetland conditions due to the relatively high number of motorized routes. Alternative A would
- 6 also increase pressure on watershed resources in the Texas Creek and Red Gulch subunits where
- 7 well-known erosion and user compliance issues currently exist.
- 8
- 9 <u>Alternative B</u>: Under Alternative B, OHV uses would be limited to designated routes in the
- 10 OHV Limited areas throughout the planning area. The current OHV Open areas in Texas Creek,
- 11 Grand Canyon Hills, and Sand Gulch would be changed to OHV Limited. The two small OHV
- 12 Open areas proposed at Turkey Rock and Reese Gulch for riding trials bikes would not be
- 13 considered. No additional motorized trails proposed in the Texas Creek and Red Gulch subunits,
- 14 and only a few of the non-motorized trails proposed in the Salida subunit would be conditionally
- 15 approved for construction. The current allowance of 300 feet for driving off roads for parking,
- 16 camping, and game retrieval would be changed to 100 feet from designated routes.
- 17
- 18 Under this alternative, current management and enforcement problems that result from the
- 19 removal of closure signs would be improved. Implementing a travel management policy that
- 20 limits OHVs to designated routes that are identified on maps and on the ground with signs would
- 21 be easier for the public to understand and for BLM to enforce; helping to reduce the proliferation
- 22 of new routes and potential impacts on aquatic wildlife resources. Reducing the distance
- 23 vehicles can be driven off roads for parking and camping to 100 feet from designated routes
- 24 would also help to control route proliferation.
- 25

As discussed in the narrative for Alternative A, only slight differences were found for how the

- 27 three action alternatives would affect riparian and wetland resources throughout most of the
- 28 planning area. Substantial differences were seen, however, in the Texas Creek and Red Gulch

29 subunits where Alternative A would expand motorized uses into riparian areas located in East

- 30 Gulch, Fernleaf Gulch, and Maverick Gulch; whereas, Alternative B would not.
- 31

32 Under the Alternative B, approximately 113 miles of roads and 22 miles of trails would be

- 33 available to the public for motorized uses, not including 108 miles of non-BLM roads that also
- 34 access the public lands in the planning area. Of the three action alternatives, Alternative B
- 35 would do the most towards addressing the needs for protecting and improving conditions for
- 36 aquatic wildlife due to the relatively low number of motorized routes. Alternative B would also
- 37 avoid expanding motorized uses into sensitive riparian areas in the Texas Creek and Red Gulch
- 38 subunits.
- 39
- 40 <u>Alternative C (Proposed Action)</u>: Under Alternative C, OHV uses would be limited to
- 41 designated routes in the OHV Limited areas throughout the planning area. The current OHV
- 42 Open areas in Texas Creek, Grand Canyon Hills, and Sand Gulch would be changed to OHV
- 43 Limited, and a small OHV Open area would be designated at Turkey Rock for riding trials bikes.
- 44 Only a few additional motorized trails proposed in the Texas Creek subunit, and many additional
- 45 non-motorized trails proposed in the Salida subunit would be conditionally approved for

construction. The current allowance of 300 feet for driving off roads for parking, camping, and
 game retrieval would be changed to 100 feet from designated routes.

 $\frac{2}{3}$

4 Under this alternative, current management and enforcement problems that result from the

5 removal of closure signs would be improved. Implementing a travel management policy that

- 6 limits OHVs to designated routes that are identified on maps and on the ground with signs would
- 7 be easier for the public to understand and for BLM to enforce; helping to reduce the proliferation
- 8 of new routes and potential damage to riparian and wetland resources. Reducing the distance
- 9 vehicles can be driven off roads for parking and camping to 100 feet from designated routes
- 10 would also help to control route proliferation.
- 11
- 12 As discussed in the narrative for Alternative A, only slight differences were found for how the
- 13 three action alternatives would affect riparian and wetland resources throughout most of the
- 14 planning area. Substantial differences were seen, however, in the Texas Creek and Red Gulch
- 15 subunits where Alternative A would expand motorized uses into riparian areas located in East
- 16 Gulch, Fernleaf Gulch, and Maverick Gulch; whereas, Alternative B would not expand routes
- 17 into any of these drainages and Alternative C would provide one additional trail in Maverick
- 18 Gulch.
- 19

20 Under the Alternative C, approximately 153 miles of roads and 28 miles of trails would be

- 21 available to the public for motorized uses, not including 108 miles of non-BLM roads that also
- 22 access the public lands in the planning area. Compared to the other action alternatives,
- 23 Alternative C would do more towards addressing the needs for protecting and improving aquatic
- 24 wildlife habitat conditions than Alternative A but not as much as Alternative B. Although
- 25 Alternative C would provide for an additional motorized trail in Maverick Gulch, the proposed
- 26 location of the trail would avoid sensitive riparian areas along this drainage, and would not
- 27 provide linkage between the Texas Creek and Red Gulch subunits.

28

29 Mitigation:

- 30 Actions Applicable to All Alternatives
- 31

32 1. Whenever possible, and for all future route construction and reconstruction projects, relocate

- 33 routes that are directly within riparian/wetlands to adjacent terraces. For new trail construction
- 34 and reconstruction and maintenance of existing trails, utilize best management practices to
- 35 provide stable travel facilities that will minimize impacts to soils and watersheds. Implement the
- 36 recommendations outlined in <u>Appendix 6</u> and <u>Appendix 7</u> which establish conditions for guiding
- 37 future management and development of the Texas Creek and Salida trail systems.
- 38
- 39 2. Make effective use of temporary wet weather and seasonal closures. Temporary road
- 40 closures during wet periods are one of most effective tools available for protecting resources;
- 41 second only to proper location, design and maintenance. During some winter-spring periods,
- 42 slow snowmelt keeps many areas saturated. Many of the problems created in the watershed
- 43 result from a small number of OHVs using routes during wet periods. In addition, educate public
- 44 to voluntarily limit use at any time when conditions are wet.
- 45
- 46 3. Incorporate the designated routes into the BLM road maintenance plan to minimize

- 1 unnecessary water drainage erosion problems.
- 2 3

4. Utilize the standard travel uses signing program developed by the Natural Resources Working

- 4 Group and institute an aggressive sign maintenance program. Clear posting of travel ways has
- 5 been shown to minimize resource impacts and route proliferation.6

7 **Cumulative Affects:**

- 8 Population growth and residential development of surrounding private lands, along with other
- 9 resource impacting trends, will occur throughout the greater region that will result in increased
- 10 amounts of recreational usage on public lands. The cumulative affects of providing a high 11 number of additional routes to meet growing recreational demands would add to very predictable
- 12 impacts to the watersheds within the Arkansas River TMP. Increases in the miles of recreational
- 13 travel routes would create additional acres of semi-permeable and non-permeable surfaces that
- 14 would result in increased amounts of runoff, erosion, and drainage changes.
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Finding on the Public Land Health Standard for Riparian Systems: Under the No Action Alternative (existing situation), and each of the action alternatives, there are routes that would degrade aquatic wildlife resources that are not improved by any of the actions presented in this EA. The lack of improvement is largely due to the impacts from Non-BLM routes, which are not affected by the decisions in this TMP. Mitigation will help some resources where they are currently affected by travel. Maintaining as much acreage within the watershed as permeable surfaces, compared to the semi-permeable and non-permeable surfaces that occurs along travel routes, would help counter large scale runoff and drainage changes. Compared to the No Action Alternative, the amount of non-permeable surface area would be reduced by any of the action alternatives. Of the three action alternatives, Alternative A would result in the greatest number of additional routes that would have the greatest impact on aquatic wildlife habitat.

- 26 27
- 28 WILDLIFE, TERRESTRIAL (includes a finding on Standard 3):
- 29 Affected Environment: Introduction: The planning area consists of a variety of habitat types.
- 30 The habitat type descriptions are taken from the Partners in Flight, Colorado Bird Conservation
- 31 Plan and are for the Southern Rocky Mountain Physiographic Region. Information for some
- 32 species, particularly ungulates, is from the Colorado Division of Wildlife. The Natural Diversity
- 33 Information System (NDIS) was also used in describing the existing environment. The habitat
- 34 classification used for this effort is described in the Colorado Bird Conservation Plan. It
- 35 identifies 13 vegetation-based categories. Six categories (Map 27) will be described for the TMP
- area (aspen, grassland, riparian, mixed conifer, mountain shrubland, Piñon-juniper).
- 37
- 38 The planning area covers an area of approximately 531,869 acres. Of this, approximately 45%
- 39 (240,375 acres) are public lands administered by BLM. The topography is rugged and ranges in
- 40 elevation from 5000 ft to 10,500 ft. Annual precipitation varies from 10-20 inches, much of it
- 41 occurring as snowfall during the winter months. Local precipitation is heavily influenced by
- 42 elevation. Elevation and exposure, and their effects on soil moisture, also strongly influence
- 43 plant communities. Understory vegetation is sparse in most forest types except for aspen.
- 44 Forests in the planning area may be naturally "patchy" and fragmented than most other forest
- 45 types in Colorado due to the weather, topography and the effects of other forces such as fire,
- 46 insects, and disease. The resulting landscape pattern is a complex mosaic of open meadows and

1 forest stands of varying age and species composition. The primary large-scale disturbance agents

2 are fire and insect outbreaks. Habitats are also fragmented due to the large numbers of people

3 that live in the area that results in subdivisions, roads, towns and other infrastructure.

4

5 HABITAT DESCRIPTION

- 6 Habitat types found in the planning area are shown in Table 7-9. Two sources of data were used
- 7 to generate figures for habitat types in the planning area. CDOW/BLM Landsat Vegetation
- 8 Classification was used for upland vegetation. This data is derived from 30 meter pixel
- resolution taken from satellite imagery. This classification is excellent for upland vegetation
 types that cover large areas but less accurate for riparian vegetation classification due to the
- small areas of riparian vegetation that occur in the planning area. The riparian vegetation was
- 12 classified using National Aerial Photography Program (NAPP) color-infrared aerial photography
- and riparian polygons were mapped at 1:24,000 scale. See the Riparian section of the EA for
- 14 additional details. There will be no discussion of urban, agricultural, rock or alpine types since
- 15 they represent such a small amount of the total habitat in the TMP area.
- 16

	Acres	% of Total	Acres (BLM)	% of BLM*
Туре	(Ark_River TMP)	area		
Urban	1,035	0.5	0	0
Agricultural	19,391	3	195	0
Grassland	39,335	7	5,308	13
Mountain Shrub	103,393	18	17,358	17
Pinion-Juniper	270,784	49	159,066	59
Aspen	4,518	1	1,587	35
Mixed Conifer	107, 324	19	54,161	50
Rock	1,200	0.5	43	3
Alpine	3,670	1	1,408	38
Riparian	5,572	1	1,392	25

Table 7-9 - Estimated acres of habitat types in the planning area.

19 * = % of habitat type that occurs on BLM.

20

21 Grassland

- 22 Shortgrass within the planning area is dominated by the low-growing warm-season grass blue
- 23 grama. Western wheatgrass is also present, along with taller vegetation, including widespread
- 24 prickly-pear cactus and cholla in the south. Mixed grass (needle-and-thread, side-oats grama)
- 25 communities occur locally as does mountain grasslands dominated by Arizona fescue and
- 26 mountain muhly. Grasslands make up approximately 39,335 acres in the planning area with
- about 5,308 acres (13%) administered by BLM. Grasslands are typically intermixed within other
- 28 habitat types such as Piñon-juniper and ponderosa pine forests. Large expanses of open
- 29 grassland habitat are rare in the planning area.
- 30

31 Mountain Shrub

- 32 Mountain shrubland is typically found in the transition zone between semi-arid Piñon-juniper
- 33 woodlands and the forest above. Mountain shrubland in the planning area consists primarily of
- 34 gambel oak and other associated shrubs, including serviceberry, mountain mahogany,

1 chokecherry, and snowberry. Gambel oak is a large shrub or small tree and is probably the best

- 2 known of the mountain shrubs. The mountain shrubland habitat is widely distributed throughout
- the Arkansas River TMP area. It occupies about 103,393 acres of land in the planning area, of
- 4 which 17,358 acres (17 %) occur on lands managed by BLM. Gambel oak has been described 5 as a climax indicator in a number of habitat types. It reproduces by suckering, and very large
- as a climax indicator in a number of habitat types. It reproduces by suckering, and very large
 areas can be populated by clones. Gambel oak is extremely fire tolerant, vigorously re-sprouting
- from stem bases or from underground tubers and rhizomes following fire. It can recover to
- 8 original heights from a fire in 30 to 40 years. A healthy stand of gambel oak contains shrubs of
- 9 varying heights and has robust native bunchgrasses and forbs growing between them and
- 10 relatively little bare ground. Mountain mahogany is the most common shrub species associated
- 11 with gambel oak in the planning area. It grows with and adjacent to oak, but on drier sites.
- 12 Chokecherry is a large shrub common to mountain shrublands, but it rarely dominates large
- 13 areas. Snowberry is a lower stature species that often grow with gambel oak. Other shrubs
- 14 occurring in mountain shrubland communities (e.g., Squaw currant, curl-leaf mountain
- 15 mahogany, and mountain spray) do not become widespread dominants.
- 16

17 Piñon-Juniper

18 Piñon-juniper habitat extends over large areas in the planning area. The estimate of total area

- 19 covered in this habitat type is 270,784 acres in the planning area, of which 159,066 acres (59%)
- 20 is administered by BLM. The piñon-juniper habitat type is an evergreen woodland situated
- above desert or grassland vegetation and below mountain shrub. Elevations range from 4,500-
- 22 7,500 ft. Colorado piñon pine is the predominate piñon species in the area and Rocky Mountain
- juniper is also dominate. Proportions of juniper and piñon within this habitat type vary greatly,
- and pure stands of either tree may occur. Typically, as elevation increases piñon dominance
- increases, juniper density decreases, total tree density increases, and trees become larger. piñon
 pines drop out completely at the lowest elevations. Depending on site variables, Piñon-juniper
- 27 may range from an openly spaced savanna to a closed forest. Piñon-juniper understories vary
- 28 from completely open to quite dense, with the densest understories occurring in open canopy
- woodland/oak communities. Soils underlying piñon-juniper often are shallow, rocky and low in
- 30 fertility. Piñon-juniper habitats in the planning area are generally mixed with shrub species such
- as gambel oak and mountain mahogany, and provide browse for mule deer, elk and bighorn sheep.
- 32 s 33

34 Aspen

Aspen is not abundant; only occurring at higher elevations in the planning area. There are about 4,518 acres of aspen-dominated woodlands in the planning area, of which approximately 1,587

- acres (35 %) is administered by BLM. Aspen grows under a wide variety of environmental
- 38 conditions and upland sites. Required site conditions include long growing seasons, deep snow,
- 39 and annual precipitation exceeding 16-20 in. In the Rockies, the best stand development occurs
- 40 on well-drained, sandy to silt-loam soils and on southerly to easterly exposures. Aspen-
- 41 dominated woodlands are highly valued for summer forage for livestock grazing, watershed
- 42 protective cover, timber harvest, firewood, and scenic beauty. Aspen occurs primarily as an
- early seral species, eventually being replaced by shade-tolerant late-seral conifers. In Colorado,
 it is a major seral constituent of Engelmann spruce-subalpine fir, Douglas-fir, white fir, blue
- it is a major seral constituent of Engelmann spruce-subalpine fir, Douglas-fir, white fir, blue
 spruce, and ponderosa pine forests. At lower elevations typical of the Arkansas River valley, it
- spruce, and ponderosa pine forests. At lower elevations typical of the Arkansas River valley, it
 is often found as stringers along riparian corridors, or in small mesic islands surrounded by drier

- 1 pine uplands. Following severe disturbance, such as stand-replacement fires or clear cutting,
- 2 aspen usually dominates sites for many decades. The value of aspen habitats to wildlife is
- 3 directly related to the structural diversity of the canopy and undergrowth. Stands with a
- 4 predominantly aspen overstory allow sufficient light to reach the forest floor to support multi-
- 5 layered herb and shrub understories, and are often more lush than adjacent conifer stands. As
- 6 aspen dominance gives way to conifer dominance, less light reaches the forest floor, and
- 7 understory diversity and abundance declines. In the planning area, the most common understory
- 8 shrubs are snowberry, western serviceberry, chokecherry, and rose. The most common forbs
- 9 include geranium, valerian, yarrow, and dandelion.
- 10

11 Mixed Conifer

- 12 This forest type is found at elevations of 5,600-10,000 ft, where it is transitional between
- 13 ponderosa pine and spruce-fir forests. At lower elevations, ponderosa pines are common, with
- 14 Douglas-fir on north-facing slopes and in drainages. Mixed conifer gives way to spruce-fir at
- 15 higher elevations. Aspen stands are an important component, and so pervasive as to be
- 16 considered an integral part of the mixed conifer forest. Other tree species present include blue
- 17 spruce, white fir, lodgepole pine, limber pine, and bristlecone pine. Approximately 54,161 acres
- 18 of mixed conifer is administered by BLM in the planning, out of a total of 107,324 acres overall.
- 19 The stand and landscape-level structure of mixed conifer forests is shaped by fire, blowdown,
- 20 and insect infestations (western spruce budworm, Douglas-fir bark beetle, and Douglas-fir
- 21 tussock moth).
- 22

23 Riparian

24 This habitat type consists of subalpine riparian shrubland and foothills riparian forests. Within the planning area there are approximately 5,572 acres of riparian habitat with 1,392 acres (25 %) 25 26 administered by BLM. Subalpine riparian shrublands are rare in the planning area due to the 27 higher elevations in which they are found. These ecosystems may be extensive in broad, glacial 28 valleys, along stream systems and other wetlands from 8,000-12,000 ft elevation. They have 29 relatively low plant diversity; comprised mostly of willows, shrubby cinquefoil, and bog birch. 30 The low plant diversity along with the short growing season usually results in low avian species diversity as well. However, the dense willow thickets provide many protected nest sites and an 31 32 abundance of insects. This results in a high density of nesting birds in a given area. The Foothills riparian forests are distributed along stream systems in the foothills, lower mountains 33 34 and mountain parks from 5,500-10,000 ft elevation. In some areas the riparian forest is 35 dominated by a deciduous component, especially narrowleaf cottonwood, a variety of willow species, box elder, mountain alder and river birch. In other areas, Colorado blue spruce and 36 37 other coniferous trees dominate, and conifers often form a mixture with cottonwoods. The 38 understory of these systems is typically rich, with a wide variety of shrubs and herbaceous 39 plants. The Colorado Breeding Bird Atlas reported that foothills riparian forests dominated by 40 deciduous trees comprised nearly 85% of all foothills riparian forests, while conifer-dominated systems comprised just over 15%. Riparian areas represent a transition zone between the aquatic 41 ecosystem and the drier uplands. The riparian zones are well defined, unique, and highly 42

- 43 productive areas, and are sensitive to disturbance.
- 44

1 SPECIES DESCRIPTIONS

3 **Bighorn Sheep**

2

4 Mountain sheep, also called bighorn sheep or simply bighorns, are blocky, heavily built 5 mammals whose color varies seasonally and geographically from gravish brown to medium 6 brown. Mountain sheep conjure images of pristine, wilderness conditions because of their 7 association with the high mountains and steep canyons. In part because of impacts imposed by 8 humans, they typically occur only on steep, precipitous terrain. In Colorado, mountain sheep 9 prefer high-visibility habitat dominated by grass, low shrubs, and rock cover, areas near open 10 escape terrain, and topographic relief. Vegetation succession has led to declines in sheep in 11 recent years on some ranges. 12 13 The bulk of the diet is grasses and grass-like plants, browse, and some forbs. At lower elevations 14 browse appears to be the staple in winter. Mountain sheep are gregarious, social mammals.

- 15 They have a high degree of site fidelity, which ties them closely to areas that are familiar and
- 16 leads to slow rates of expansion. Such fidelity renders them vulnerable to increased stress levels
- 17 when a disturbance to their range occurs. During spring and summer, mountain sheep segregate
- 18 by sex and age. Rams form small bachelor herds, while females, lambs, and younger rams form
- 19 larger units.
- 20

21 Seasonally, mountain sheep may make relatively short migrations from summer to winter

- 22 ranges. Many populations make this migration through a series of deliberate, short-distance
- 23 moves; using favored habitat along the way. Barriers to movement include large expanses of
- timber or dense brush (which restrict the view), as well as large rivers and wide valley floors.
- 25
- 26 Bighorns are common in the planning area primarily along the Arkansas River corridor (Map
- 27 19). The bighorn sheep population has been estimated to be approximately 500-550 individuals.
- 28 These low elevation sheep have become an important part of bighorn sheep management in
- 29 Colorado and have established themselves into three herds; the Arkansas Canyon, Grape Creek,
- 30 and Browns Canyon herds. Although some interchange between the herds has occurred, it is not
- 31 common.
- 32 The Browns Canyon herd (approximately 125 sheep) was established after reintroduction efforts
- in the early 1980s. The main herd, approximately 50-60 head, is located primarily in the Turret,
- Long Gulch, Railroad Gulch, and Stafford Gulch areas on BLM and USFS lands east of the
- 35 Arkansas River. A smaller herd of about 30 sheep inhabits the lower end of Browns Canyon
- 36 throughout the year.
- 37 The Arkansas Canyon herd, which numbers approximately 120 sheep, is located north of the
- river and uses the south-facing slopes between Big Hole and Parkdale year-round. Ewes
- 39 generally move up elevation to rougher terrain to lamb in the spring. Because the area lacks
- 40 natural springs, this herd uses the Arkansas River as a water source, often in mid-morning to
- 41 mid-afternoon.
- 42 The Grape Creek herd consists of approximately 115 sheep and is located south of the Arkansas
- 43 River. Also established in the 1980s, this herd primarily uses two areas: lower Grape Creek
- 44 between Temple Canyon and Bear Gulch and along Highway 50 south of the river just west of
- 45 Texas Creek to Baker Gulch.

- 1 The north herd occurs most frequently between Pinnacle Rock and the railroad siding at
- 2 Parkdale. However, a smaller group of sheep has also been detected along the east side of the
- 3 river in the vicinity of Wellsville. A transplant of sheep occurred several years ago in Fernleaf
- 4 Gulch and sheep use has expanded in the area. Sheep are habitually observed in several areas
- 5 between Parkdale and Echo Canyon. These include: areas north of Pinnacle Rock to Three-
- Rocks Rapid and from north of Five Points picnic area to 3/4 km east. The north side of the river 6 7
- between the Parkdale Siding and Pinnacle Rock encompasses winter and lambing range for the 8 north herd of sheep, as well as access to the river for drinking and possibly movement or
- 9 migration routes. Areas commonly inhabited on the south side of the canyon include an area east
- 10 of the curve near Pinnacle Rock and southeast of the Five-Points Picnic area.
- 11
- 12 Elk
- 13 The elk is a large cervid whose general body color is pale tan or brown. Elk are among the better
- 14 studied big game mammals of North America. Once the animals ranged well eastward on the
- Great Plains, but today they are associated with semi-open forests or forest edges adjacent to 15
- 16 parks, meadows, and alpine tundra.
- 17
- 18 Generalist feeders, elk are both grazers and browsers. In the northern and central Rocky
- 19 Mountains, grasses and shrubs compose most of the winter diet, with the former becoming of
- 20 primary importance in the spring months. Forbs become increasingly important in late spring
- and summer, and grasses again dominate in the fall. Browse constitutes over 56 percent of the 21
- 22 winter diet. Elk breed in the fall with the peak of the rut in Colorado occurring in late September.
- 23
- 24

25 Most calves are born in late May or early June. Calving grounds are carefully selected by the 26 cows and are generally in locations where cover, forage, and water are in juxtaposition. During 27 spring and summer adult bulls usually segregate from cows, calves, and younger bulls, and form 28 small bands of their own. Elk tend to inhabit higher elevations during spring and summer and

29 migrate to lower elevations for winter range. During winter, elk form large mixed herds on

- 30 favored winter range.
- 31

32 Mortality is due mostly to predation on calves, hunting, and winter starvation. Elk were almost

- 33 extirpated from Colorado in the early 1900s when market hunting caused populations to decline
- 34 to 500 to 1,000 individuals. A very successful program of restoration (using elk from Wyoming)
- 35 and careful management have led to current high elk population in Colorado.
- 36
- 37 Elk are distributed throughout the travel planning area in all habitats (Map 26). In the last ten
- 38 years elk have become established in less traditional habitats such as low elevation Piñon-juniper
- 39 habitats. Elk use of hayfields and wet meadows on private lands is common and in many
- 40 locations cause damage to private lands. Elk numbers are at or above Colorado Division of
- 41 Wildlife objectives and efforts are underway to reduce elk numbers in many areas.
- 42

43 **Mule Deer**

- 44 Mule deer are medium-sized cervids with conspicuously long ears and a coarse coat. Mule deer
- 45 occupy all ecosystems in Colorado from grasslands to alpine tundra. They reach their greatest
- 46 densities in shrublands on rough, broken terrain, which provide abundant browse and cover.

1 In the Rocky Mountains, fall and winter diets of mule deer consist of browse from a variety of

- 2 trees and shrubs. In the spring and summer, browse contributes 49 percent of the diet, and forbs
- and grasses make up about 25 percent of each. Mule deer seem to be able to survive without free
- 4 water except in arid environments. Over much of Colorado the species is migratory, summering
- 5 at higher elevations and moving down slope to winter range. During midwinter, deer move to
- 6 lower elevations and forage on more protected south-facing exposures. This latter movement is
- 7 timed with severity of weather. Spring and summer ranges are most typically mosaics of
- 8 meadows, aspen woodlands, alpine tundra-subalpine forest edges, or montane forest edges.
 9 Montane forests and Piñon-juniper woodlands with good shrub understory are often favored
- winter ranges.
- 11
- 12 In Colorado, mule deer breed in November and December. Yearling females typically produce a
- 13 single fawn, and older females in good condition produce twins. Does are solitary during
- 14 fawning. They form small groups of yearlings, does, and fawns when the young are several
- 15 months old. As winter approaches the size of herds increases and large numbers may congregate
- 16 on wintering grounds. When not in rut, adult males often form pairs or small groups of three to
- 17 five individuals.
- 18
- 19 Mortality in mule deer varies with age class and region. Fawn mortality is due to predation and
- 20 starvation. Most mortality in older age classes occurs from hunting or winter starvation.
- 21 Predators include coyotes, bobcats, golden eagles, mountain lions, black bears, brown bears, and 22 domestic dogs.
- 22
- 24 Mule deer are found in the planning area in all ecosystems (Map 30). Highest densities are
- 25 found in mountain shrub and mixed conifer communities at approximately 7500 ft elevation.
- 26 Mule deer in the area frequently use wet, hay meadows on private lands, especially in the spring.
- 27 Deer densities are slowly increasing after several years of below average populations.
- 28

29 Black Bear

- 30 A medium-sized bear, this species is Colorado's largest surviving carnivore. Color varies
- 31 greatly, from black to pale brown and blond. Black bears can survive in practically any habitat
- 32 that offers sufficient food and cover, from the deserts of Arizona to the coniferous forests of
- 33 northern Canada. In Colorado the species is most common in montane shrublands and forests,
- 34 and subalpine forests at moderate elevations, especially in areas with well-developed stands of
- 35 oak brush or berry-producing shrubs, such as serviceberry and choke-cherry. However, the
- animals also occupy habitats ranging from the edge of the alpine tundra to the lower foothills and
- 37 canyon country.
- 38
- 39 Although their mainstay is vegetation, black bears are omnivorous and the diet depends largely
- 40 on what kinds of food are seasonally available. In spring, emerging grasses and
- 41 succulent forbs are favored. In summer and early fall, bears take advantage of a variety of
- 42 berries and other fruits. In late fall, preferences are for berries and mast (acorns), where
- 43 available. When the opportunity is present, black bears eat a diversity of insects, including
- 44 beetle larvae and social insects (ants, wasps, bees, termites, etc.), and they kill a variety of
- 45 mammals, including rodents, rabbits, and the young or unwary ungulates.

- 1 Black bears for the most part are retiring and secretive animals, typically staying close to
- 2 rough topography or dense vegetation that provides escape cover. Numbers are usually low in
- 3 any particular locale, making it difficult to census and study the animals. In Colorado, winter
- 4 denning may begin as early as the first week in October and extend to late December. In
- 5 Colorado, black bears generally use rock cavities or excavations under shrubs and trees for den
- 6 sites. Black bears in Colorado probably breed from early June to perhaps mid-August. Cubs are
- 7 born in the den in late January or February, while the mother is in hibernation. Litter size is two
- 8 or three. Black bears are typically solitary, except for family groups (a sow and cubs), or
- 9 aggregations at concentrated food resources, where bears may show a relatively high tolerance
- 10 for each other.
- Black bear populations are difficult to estimate. Black bears are locally common in suitable
- habitats in all of the planning area (Map 20), and occur in all habitat types throughout the area.
- 14 Highest population densities occur in the montane shrublands along the Sangre de Cristo range.
- 15

16 Mountain Lion

- 17 The mountain lion is the largest cat in the United States. Its color is brownish to reddish brown.
- 18 Colorado individuals are among the largest representatives of the species. Mountain lions
- 19 inhabit most ecosystems in Colorado, including the eastern plains according to periodic reports.
- 20 They are most common in rough, broken foothills and canyon country, often in association with
- 21 montane forests, shrublands, and Piñon-juniper woodlands.
- 22
- 23 Mountain lions may hunt either during the day or at night, requiring sufficient cover for stalking
- 24 prey and a lack of high human activity. Most kills are reported from brushy, wooded, or rough
- terrain. They hunt by stealth rather than by chase, and the kill is accomplished with a final short
- rush and lunge. Mountain lions prey mainly on deer in North America and also take elk and
- 27 moose, where they are available. In some situations they prey on mice, ground squirrels,
- 28 beavers, rabbits, porcupines, raccoons, and domestic livestock.
- 29
- 30 Resident mountain lions maintain contiguous home ranges, whose size varies seasonally
- 31 depending on prey density as well as a lion's sex, reproductive condition, and age. In western
- 32 states, individual mountain lions often show distinct winter-spring and summer-fall home ranges
- 33 that correspond to movements of ungulate prey and local weather conditions. In Colorado, much
- of the best mountain lion habitat is at mid elevations, such as the foothills of the Front Range. In
- 35 these habitats resident deer herds may be relatively sedentary and lions rarely make significant
- 36 seasonal shifts in home range.
- 37
- 38 Mountain lions have the widest distribution of any mammal in the New World. They once were
- 39 distributed over all of the conterminous United States, but populations mostly have been
- 40 extirpated in the East and over significant areas in the West as well. In Colorado, the species is
- 41 still common in much of the western two-thirds of the state, although largely eliminated from the
- 42 eastern plains. Mountain lions are common in the planning area and some of the highest
- 43 densities in the state are found in the Arkansas River watershed (Map 29). There are no
- 44 population estimates available for lions in the planning area.

1 Raptors

2 A variety of raptor species occur in the planning area (Map 31). The following species have

3 been documented as occurring regularly in the area: golden eagle, peregrine falcon, prairie

4 falcon, red-tailed hawk, Coopers hawk, sharp-shinned hawk, goshawk, kestrel and osprey. The

5 following species rarely occur in the TMP planning area due to the small amount of suitable

6 habitat: ferruginous hawk, rough-legged hawk, Swainsons hawk and northern harrier.

7

8 Golden eagles are common in the area and nest in suitable habitats, primarily cliffs and rock

9 outcroppings. The large amount of canyon habitat found along the Arkansas River and adjacent

10 drainages provide abundant nest sites. Peregrine breeding pairs nest on cliffs and forage over

adjacent coniferous and riparian forests. Migrants and winter residents occur mostly around
 reservoirs, rivers, and marshes, but may also be seen in grasslands, agricultural areas, and less

13 often in other habitats. Only one active peregrine nest (Royal Gorge Park) can be found within

the TMP area. Prairie falcons are widespread in the area utilizing cliff and rock habitats. Red-

15 tailed hawks are the most common broad-winged hawk found in the area at all elevations and

16 most habitat types. The forest hawks: Coopers hawk, goshawk and sharp-shinned hawk occur in

- 17 smaller numbers due to the absence of large tracks of forested landscape. Kestrels can be found
- 18 at the lower elevations. Ferruginous, rough-legged, northern harrier and Swainsons hawk are

19 primarily plains species that would rarely be observed in the planning area. Ospreys are regular

- 20 migrants along the Arkansas River.
- 21

22 Merriam's Turkey

23 The Merriam's turkey is a fairly common resident in foothills and mesas of southern Colorado,

24 primarily found from Montezuma County east to Archuleta County and from Las Animas

25 County east to southwestern Baca County and north to Fremont County. The Merriam's

26 subspecies is the native form but the Rio Grande subspecies was introduced on the eastern plains

27 starting in 1981, and now common along the major rivers including the Arkansas River. This

28 subspecies is not native to Colorado. The Merriam's turkey is very common in the planning area

in suitable habitat (Map 32). Merriam's are found primarily in ponderosa pine forests with an

understory of gambel oak. Tall pines are used during all seasons for roosting. In the planningarea it is often found in other foothill shrublands (mountain mahogany), Piñon-juniper

- 32 woodlands, foothill riparian forests, and in agricultural areas. Turkeys are found in large flocks
- 32 woodfands, foothin fiparian forests, and in agricultural areas. Turkeys are found in large flocks 33 during the winter months in several areas along the Sangre de Cristo Range. Smaller flocks are
- 35 during the winter months in several areas along the Sangre de Cristo Kange. Smaller nocks are 34 located near agricultural areas and along riparian habitats. During the spring birds disperse to
- habitats adjacent to the winter ranges and can be found throughout the planning area, except at
- 36 higher elevations.
- 37

Environmental Consequences/Mitigation: In February 1997, Standards for Public Land
 Health in Colorado (Standards) were approved by the Secretary of Interior and adopted as

decisions in all of BLM's land use plans, commonly referred to as Resource Management Plans
 (RMP). The Standards describe natural resource conditions that are needed to sustain public

41 (RMP). The Standards describe natural resource conditions that are needed to sustain public 42 land health. The Standards encompass upland soils; riparian systems; plant and animal

42 rand health. The Standards encompass uprand sons, ripartan systems, prant and annual 43 communities; special, threatened, and endangered species; and water quality. The Standards

45 communities; special, infeatened, and endangered species; and water quanty. The St 44 relate to all uses of the public lands, including recreational use.

1 Standard 3 reads: *Healthy, productive plant and animal communities of native and other*

- 2 desirable species are maintained at viable population levels commensurate with the species and
- 3 *habitat's potential. Plants and animals at both the community and population level are*
- 4 productive, resilient, diverse, vigorous, and able to reproduce and sustain natural fluctuations,
- 5 and ecological processes. Indicator: Landscapes exhibit connectivity of habitat or presence of
- 6 *corridors to prevent habitat fragmentation.*
- 7

8 In January 2000, BLM formed an implementation team to formulate recreation guidelines to 9 address OHV use on public lands. The recreation guidelines also provide for healthy plant and 10 animals communities and Standard 3.3. directs BLM to "Protect wildlife habitat by preserving 11 connectivity and avoiding fragmentation". There is also direction for BLM to manage wildlife 12 habitat and populations on a landscape level and to assure connectivity is maintained and 13 enhanced and that fragmentation is avoided.

13 14

15 Impacts to wildlife species from roads and trails are variable depending on a number of factors.

16 Typically, impacts to wildlife from roads and trails aren't as great as those from intensive

17 development where large areas of habitat are altered. However, impacts do occur and even

18 passive recreation such as hiking, horseback riding, running, jogging and biking can affect

19 wildlife and wildlife habitat in a variety of ways, both short and long term. More significant

20 impacts are associated with motorized OHV use as impacts to vegetation are greater and

- 21 disturbances to animals themselves are more likely.
- 22

23 Impacts can be defined as direct and indirect. Direct impacts are those that result from close

24 encounters with wildlife that cause a flight reaction. The reaction is a function of the species,

closeness, type and intensity of the encounter, time of day, time of year, type of habitat,

vegetation screening, trail location, surrounding land use, and many other variables. Wildlife

characteristics, including type of animal, group size, age and sex, also determine the response to

a disturbance. Disturbance by humans can cause nest abandonment, decline in parental care,

29 increased stress, shortened feeding times, and potentially lower reproductive success. Motorized

30 uses sometimes result in collisions, resulting in injury or death of animals.

31

32 Indirect impacts are defined as impacts to habitat that do not directly impact the animal itself.

33 The construction of a road or trail results in a loss of habitat. Vegetation removed in the process

of building a trail is no longer available for use by wildlife. The uncontrolled proliferation of

35 user created roads and trails adds to the impacts to habitat.

36

The existence of a road or trail can change the characteristic of wildlife habitat. When a road or trail is created, increased light encourages new growth of vegetation, creating habitat edge which

results in a shift in the composition of wildlife species. Habitat generalists (species that utilize a

40 variety of habitats) increase, while interior or obligate species (species that depend on one type

41 of habitat) decline. Predation may also increase and in general biological diversity declines.

42 Indirect impacts also occur as wildlife avoid habitat along roads to reduce their exposure to

43 negative stimulus associated with human uses. While the habitat may provide for the needs of

44 the species, it is not being utilized because of its nearness to a road or trail.

1 Another form of indirect impact is the fragmentation of habitat that occurs with increasing roads

- 2 and trails. Wildlife survive better in larger blocks of undisturbed habitat rather than smaller
- 3 fragmented pieces. Habitat fragmentation is considered to be the greatest threat to biological
- 4 diversity. Determining when a road or trail causes habitat fragmentation and how it contributes
- 5 to a reduction in biological diversity is extremely difficult. Nevertheless, protecting large,
- 6 undisturbed areas of wildlife habitat was considered when decisions were made concerning
- 7 travel management in the Arkansas River TMP planning area.
- 8

9 Preventing fragmentation of habitats also contributes to the maintenance of wildlife movement

- 10 corridors. Wildlife movement corridors are defined as linear habitat whose primary function is
- 11 to connect two or more significant habitat areas. A good example of a movement corridor is the
- 12 habitat that separates elk summer and winter range. Elk need the area between summer and
- 13 winter range to move back and forth, however, they may not spend much time in the corridor
- 14 itself. Corridor use is influenced by topography, vegetation, species of interest and nearby
- 15 human activities. A wildlife corridor should serve to provide for several functions, such as
- 16 providing wide-ranging animals an opportunity to travel, migrate and meet mates, allow plants to
- 17 propagate, provide for genetic interchange, allow for populations to move in response to
- 18 environmental changes, and to allow for individuals to re-colonize habitats. Corridors are
- 19 needed to maintain connectivity among formally contiguous habitats.
- 20

21 Public lands are an increasingly important source of land for providing the connectivity of

- habitats that is so important to many wildlife species. In addition, they provide some of the only
- 23 remaining large blocks of contiguous wildlands (core habitat) in many areas. Within the
- 24 Arkansas River planning area approximately 66% of the landscape across the entire planning
- area is considered interior core habitat (see Table 7.1) that is unaffected by roads and trails.
- 26 More than 73% of the public lands managed by BLM within the planning area are considered
- 27 interior core habitat. The Arkansas River TMP area is dissected by private lands that were
- 28 formally working ranches that provided wildlife habitat. In recent years private lands have been
- sold to land developers and platted as subdivisions that include roads, home sites and other
- 30 support facilities. As homes are built and people move into the wildlands, wildlife are being
- displaced and forced to move from traditional ranges. The only large habitat areas left are those
- 32 that occur on public lands. Approximately 34% of all lands within the planning area are
- 33 impacted by routes, while 27% of public lands are impacted by routes (Table 7.1). BLM
- 34 managers must ensure that these areas remain as suitable habitat. In order to do that, critical
- 35 decisions must be made during travel management planning so that the ability of public lands to
- 36 provide habitat is not compromised.

1 Table 7-4: Core habitat analysis

	ALTERNATIVE			
	No Action	Α	В	С
	(Current)			
Core Areas (acres)	351,651	351,274	368,230	361,141
Core Areas BLM (acres)	175,279	174,252	190,206	183,310
% of Planning Area in Core Areas	66.1	66.1	69.3	67.9
% of BLM Land in Core Areas	72.9	72.4	79.1	76.2
% of Planning Area Impacted by Traffic	33.9	33.9	30.7	32.1
% of BLM Lands Impacted by Traffic	27.1	27.5	20.9	23.8
Mean Size of 10 Largest Core Areas (acres)	33,922	33,847	37,246	35,607
Number of Core Areas > than 20,000 acres	8	8	9	9

2

3 Terrestrial Species Impact Analysis

4 Analysis of available data for the Arkansas River TMP area resulted in maps depicting relative 5 habitat fragmentation and remaining wildlife core areas among 6^{th} level watersheds, as measured

6 by road density. Higher road densities result in less core habitat (more habitat fragmentation)

and fewer acres of effective wildlife habitat. All routes within the TMP area were examined to

8 determine the type of route that was present and the current use levels of that route. These

9 parameters defined the expected impacts to wildlife from the individual routes on the landscape.

10 Routes were classified from high impact to low impact and impacts were determined for several

11 species or groups of species. These data were used when decisions were made on how routes

12 should be managed. Additionally, routes were buffered by four distances to determine areas of

13 habitat that are being lost from the effective habitat base (see <u>Appendix 17</u> - Research

14 References for the Development of Buffer Distances Used in the Arkansas River TMP Route

15 Impact Analysis).

used:

16

17 These analyses were done for all four alternatives. For instance, a foot trail that receives low use

18 was buffered by 165' (50 meters) on both sides of the route. Similarly, County roads that receive

19 high use were buffered by 1,335' (407 meters or ¹/₄ mile). The following buffer distances were

20 21

22 165ft (50 meters) Low impact routes that receive low use, i.e. trails

23 330ft (100 meters) Moderate impact routes; moderate use, trails and unimproved roads

24 820ft (250 meters) Moderate impact routes; motorized use, unimproved routes, high use 25 trails

26 1,335ft (407 meters) High impact routes; major improved routes with high use, high use

- 27 motorized routes
- 28

29 Areas of wildlife habitat inside these buffers were considered to be impacted by the route.

30 These routes are depicted in Maps 22, 23, 24 and 25 for each alternative and show where

31 effective core habitat remains intact. In some cases these core habitat areas extend outside the

32 TMP area. Table 7.1 shows a comparison between alternatives and core habitats. When

analyzing the data on a landscape level (Arkansas River TMP) it becomes obvious there are

34 rather small differences in the four alternatives in most areas. This is due, in part, to the large

areas of habitat that are currently undisturbed and will remain undisturbed by roads and trails in

1 the McIntyre Hills WSA, the Upper Grape Creek WSA, the Lower Grape Creek WSA and the

2 Browns Canyon WSA. In addition, topography limits roads and trails along the north and south

3 sides of the Arkansas River canyon (McIntyre Hills and Big Hole subunits) and in areas

4 surrounding the Badger Creek drainage (Badger Creek subunit). However, in some subunits the

5 core habitat changes considerably under the four alternatives. All alternatives result in several

- 6 core areas that are greater than 20,000 acres and mean core area sizes for the ten largest core
 7 areas are more than 33,800 acres (Table 7.1). There are important differences in alternatives and
- 8 core habitats for certain subunits that have the potential to impact wildlife. Impacts to subunits
- 9 will be described under each alternative.
- 10

11 An additional analysis was conducted that compared the four alternatives, the habitat types and 12 core areas. Table7.4 shows the acres of each habitat type that remain in core habitat. When

12 viewed at a landscape scale, differences are small. The Proposed Action (Alternative C) would

15 viewed at a fandscape scale, differences are small. The Proposed Action (Alternative C) would 14 protect an additional 6,100 acres of Piñon/juniper core habitat over the No Action alternative.

15 This is the largest difference and is expected due to the large amount of Piñon/juniper habitat in

15 This is the largest difference of the TMP area.

17

18 Table 7-5: Acres of core habitat on BLM by habitat type and alternativ

	ALTERNATIVE			
Habitat Type	No Action	Α	В	С
	(Current)			
Grassland	2,787	2,855	3,127	2,985
Mountain Shrub	10,744	10,782	11,960	11,424
Piñon/Juniper	114,359	115,004	125,278	120,429
Aspen	1,264	1,260	1,312	1,308
Mixed Conifer	44,324	42,571	46,623	45,286
Riparian	528	543	604	575
Total	174,006	173,015	188,904	182,007

19

20

21 Table 7.5 shows the acres of BLM habitat that are impacted by routes. As expected, Piñon-

22 juniper habitat is the most affected because it is the habitat type that is most commonly found on

the public lands in this area. Approximately 6,100 acres of Piñon/juniper habitat would be

24 protected from traffic impacts under the Alternative C (Proposed Action) compared to the No

25 Action alternative. Alternative C, across all habitat types, protects a total of 8,000 acres of

26 habitat over the No Action alternative.

	ALTERNATIVE			
Habitat Type	No Action	Α	В	С
	(Current)			
Grassland	2,521	2,453	2,181	2,323
Mountain Shrub	6,614	6,576	5,398	5,934
Piñon/Juniper	44,706	44,062	33,788	38,637
Aspen	323	327	276	279
Mixed Conifer	9,837	11,591	7,538	8,875
Riparian	864	849	787	816
Total	64,865	65,858	49,968	56,864

1 Table 7-6: Acres of habitat impacted by traffic on BLM by habitat type and alternative

2

3 Due to the size of the Arkansas River TMP area a large number of wildlife species are involved.

4 Impacts to a few key wildlife species are discussed in detail. The assumption has been made that

5 protection of core habitats will provide for all the species that occupy those habitats. Key

6 species for each habitat were previously described in the Affected Environment. Protection of

7 core areas is expected to confer benefits on the greatest number of species and includes species

8 that have the greatest need for contiguous habitats and effective corridors.

9

10 Data for individual species is found in Table 7.9. This table shows the amount of acres of core

11 BLM habitat for each species, the acres of traffic impacted habitat and the percentage of traffic

12 impacted habitat.

1 Table 7-7: Acres of core habitat available for each species by alternative (all types of habitat:

2 winter range, production areas, summer ranges etc. have been combined for each species in this

3 analysis, with the exception of mule deer).

	ALTERNATIVE			
	No Action	Α	В	С
Bighorn Sheep	(Current)			
Core Areas, BLM (Acres)	95,362	94,692	102,051	98,239
Traffic Impacted Core Areas (Acres)	30,434	31,105	23,746	27,557
Traffic Impacted Habitat (%)	12.7	12.9	9.9	11.5
Elk	-	-	-	-
Core Areas, BLM (Acres)	101,626	102,893	108,422	106,262
Traffic Impacted Core Areas (Acres)	27,439	26,172	20,643	22,803
Traffic Impacted Habitat (%)	11.4	10.9	8.6	9.5
Mule Deer	-	-	-	-
Core Areas, BLM (Acres)	174,273	173,159	189,114	182,217
Traffic Impacted Core Areas (Acres)	63,301	64,415	48,461	55,357
Traffic Impacted Habitat (%)	26.3	26.8	20.1	23.0
Black Bear	-	-	-	-
Core Areas, BLM (Acres)	167,486	166,798	182,047	175,512
Traffic Impacted Core Areas (Acres)	62,036	62,724	47,475	54,010
Traffic Impacted Habitat (%)	25.8	26.1	19.7	22.5
Mountain Lion	-	-	-	-
Core Areas, BLM (Acres)	175,279	174,251	190,206	183,310
Traffic Impacted Core Areas (Acres)	65,238	66,266	50,311	57,208
Traffic Impacted Habitat (%)	27.1	27.5	20.9	23.8
Raptors	-	-	-	-
Core Areas, BLM (Acres)	538	562	568	562
Traffic Impacted Core Areas (Acres)	287	263	257	263
Traffic Impacted Habitat (%)	0.12	0.11	0.11	0.11
Merriam's Turkey	-	-	-	-
Core Areas, BLM (Acres)	155,481	154,562	168,650	161,947
Traffic Impacted Core Areas (Acres)	53,970	54,890	40,802	47,504
Traffic Impacted Habitat (%)	22.4	22.8	17.0	19.7

4

5 <u>No Action Alternative (Current Use)</u>

6 Under this alternative use is limited to existing routes that would remain open except for those

7 that have been closed under previous activity plans. The core areas of wildlife habitat that would

8 be available under the No Action Alternative are displayed on Map 25. The alternative does not

9 address the increased use on the planning area's routes and does not provide for proactive future

10 management. BLM has made the assumption that traffic levels on roads and trails on public

lands will increase as more people recreate on public lands. Under this alternative use will
 increase, conflicts will increase, damage to public land resources will increase and wildlife will

become more dependent on public lands for habitat. While not readily apparent in the data, the

No Action Alternative has the greatest potential to impact wildlife species due to anticipated

15 population growth and increased human use of the public lands. Data depicted in the tables

- 1 shows impacts for the current situation that is recognized as not remaining the same. All the
- 2 other alternatives channel, control, and manage travel at different levels, but prevent the
- 3 uncontrolled proliferation of new roads and trails in areas where they currently do not exist.
- 4 Under the No Action Alternative the number of core areas greater than 20,000 acres is 8 with the
- 5 mean size of the 10 largest areas at 33,922 acres.
- 6
- 7 <u>Table 7-1</u> demonstrates the importance of public lands in providing core habitats while private
- 8 lands become less able to support wildlife populations. While some habitats are less impacted,
- 9 others such as Piñon-juniper, mountain shrub and mixed conifer are affected under this
- 10 alternative (<u>Table 7-5</u>). BLM manages large areas consisting of these habitat types and must be
- 11 proactive in maintaining these habitats as intact as possible for future wildlife needs. Table 7-9
- 12 demonstrates the impacts to a variety of wildlife species from this alternative. More acres of
- 13 core habitat will be available for all species under the Proposed Action as compared to the No
- 14 Action alternative.
- 15
- 16 <u>Alternative A</u>
- 17 This alternative analyzes the effects of implementing OHV route designations that provide a high
- 18 level of motorized access and recreational use. The core areas of wildlife habitat that would be
- 19 available under Alternative A are displayed on Map 22. This alternative allows for increased
- 20 recreational travel opportunities with an emphasis on recreational benefits, opportunities, and
- 21 access by providing maximum hiking, biking, equestrian, and OHV travel opportunities for the
- 22 public. It accepts a higher environmental cost to public land health as measured by the
- 23 cumulative travel-related impacts to soils, watersheds, riparian and wetlands, plant and animal
- communities. It also does not respond to larger ecosystem issues of fragmentation of wildlife
- 25 habitat, increasing road densities, and loss of open space.
- 26

27 While the high amount of use under Alternative A allows for increased recreation use over a

- 28 much larger area, it does limit use to that identified in the travel plan, as opposed to the No
- Action Alternative, which would allow for uncontrolled growth over time and potentially result in impacts that are more significant than Alternative A. Alternative A allows motorized uses in
- in impacts that are more significant than Alternative A. Alternative A allows motorized uses in
 many areas, thus reducing core habitat areas and increasing fragmentation (Table 2). Habitat
- fragmentation is increased in this alternative in the Upper Grape Creek, Big Hole, Texas Creek,
- and Salida subunits. Alternative A also would add roads and trails in the Texas Creek subunit
- that were closed in a previous activity plan for the Texas Creek OHV area. That effort,
- 35 completed in 1998, restricted motorized uses in sensitive wildlife habitats. Alternative A would
- add roads and trails in sensitive wildlife habitats in the Texas Creek area that would further
- 37 contribute to habitat fragmentation in this area. Under Alternative A, the increased number of
- 38 mountain bike trails in the Salida subunit would also impact wildlife habitat in that subunit.
- 39
- 40 <u>Alternative B</u>
- 41 The core areas of wildlife habitat that would be available under the Alternative B are displayed
- 42 on Map 23. This alternative emphasizes the protection of ecosystems to restore, maintain and
- 43 improve public land health by providing a relatively low level of access and travel opportunities.
- 44 Improved public land health translates to improvements in habitat conditions and wildlife
- 45 populations. Core areas for wildlife habitat are maximized in this alternative, thereby reducing
- 46 habitat fragmentation and maintaining wildlife corridors. Table 7.1 shows that the number of

1 core areas greater than 20,000 acres are increased by one and the combined size of the area of the

- 2 10 largest core areas is 37, 246 acres; an increase of nearly 3,500 acres over Alternative A. More
- 3 and larger core areas translate into less fragmentation and positive benefits for wildlife.
- 4 Moreover, this alternative also provides the highest percentage (79%) of the BLM lands as core
- 5 wildlife areas and reduces the percentage of traffic impacted wildlife habitat on BLM lands to
- 6 21%. Core wildlife habitat is maintained in the Upper Grape Creek, Texas Creek, Big Hole and
- 7 Salida subunits. Therefore, Alternative B will benefit wildlife more than the other alternatives.
- 8
- 9 Alternative C (Proposed Action)
- 10 Alternative C represents the Proposed Action. The core areas of wildlife habitat that would be
- 11 maintained under Alternative C are displayed on Map 24. This alternative analyzes the effects of 12 implementing OHV route designations that provide access and recreational use within the limits
- 13 of the land and resources to sustain recreational impacts over time, and within the capabilities of
- 14 the BLM to maintain and enforce the proposed designated system of roads and trails.
- 15

16 This alternative is designed to apply travel management on a landscape level with a balanced

17 emphasis on recreation travel, ecosystem maintenance, and public land health as measured by the

18 condition of soils, watersheds, riparian and wetlands, plant and animal communities. It would

- 19 reduce road and trail densities to prevent disturbances to watersheds, riparian and wetlands, plant
- 20 and animal communities and maintain viable interior habitat while channeling increasing human
- 21 traffic flow away from remote land parcels with valuable wildlife habitat. It would respond to
- 22 larger ecosystem issues of fragmentation of wildlife habitat, private land subdivision, increasing
- regional road densities, loss of open space, increasing human traffic, and accelerating spread of user created routes on Public Lands. This alternative would benefit the wildlife resource by
- 25 allowing for recreation use in areas that least affect wildlife and protecting habitat areas from
- 26 motorized use where it is not appropriate. Table 7.8 demonstrates that this alternative is very
- 27 similar to Alternative B because critical core areas would be maintained and core area sizes are
- 28 similar. Under this alternative there are nine core areas greater than 20,000 acres, the same as
- 29 Alternative B. The mean core area size of the 10 largest core areas is only 1,639 acres less than

30 Alternative B. Core habitat for wildlife species would be maintained with this alternative.

31

32 Mitigation:

- 33 <u>Mitigations Applicable to All Alternatives</u>
- 34

1. Whenever possible, and for all future route construction projects, avoid locating routes that

36 would adversely affect core wildlife habitat and migration corridors. Implement the

37 recommendations outlined in <u>Appendix 6</u> and <u>Appendix 7</u>, which establish conditions for

38 guiding future management and development of the Texas Creek and Salida trail systems.

39

40 2. Make effective use of seasonal closures. Seasonal road closures are effective for reducing

41 impacts to wildlife. Disturbances to wildlife can be minimized by closing routes during critical

42 wintering and birthing periods. In addition, educate public to the need for seasonal closures for

43 reducing wildlife disturbance.

1 **Cumulative Effects**

- 2 In addition to growth in recreational travel, other reasonably foreseeable actions that could affect
- 3 terrestrial wildlife habitat over the next 10 years on private and public lands in the Arkansas
- 4 River basin include residential growth, new road construction on private lands, fuels reduction
- 5 projects, utility corridor maintenance and upgrades, and new buried utility rights-of-way.
- 6 Activities on public lands in the travel planning area that could also potentially impact terrestrial
- 7 wildlife habitat and require mitigation include, the proposed *Over the River* art project on the
- 8 Arkansas River, and commercial forest products harvesting. The cumulative impacts from these
- 9 activities to T&E habitat from all action alternatives will be long-term and most adverse in the
- 10 No Action and Alternative A, dispersed and long-term in Alternatives B and C.
- 11

12 Finding on the Public Land Health Standard for Plant and Animal Communities (partial, see

- 13 also Vegetation and Wildlife, Aquatic): Standard 3 reads: Healthy, productive plant and animal
- 14 communities of native and other desirable species are maintained at viable population levels
- 15 commensurate with the species and habitat's potential. Plants and animals at both the community
- 16 and population level are productive, resilient, diverse, vigorous, and able to reproduce and
- 17 sustain natural fluctuations, and ecological processes. Indicator: Landscapes exhibit connectivity
- 18 of habitat or presence of corridors to prevent habitat fragmentation.
- 19

20 The No Action Alternative would seriously threaten habitat connectivity and maintenance of

- 21 core habitat areas, the most critical attributes of healthy landscapes. The potential exists for a
- 22 proliferation of roads and trails into previously undisturbed core habitat. The public land health
- standard for plant and animal communities may be compromised under this alternative.
- 24

25 Alternative A would also threaten the most critical attributes of healthy landscapes: habitat

- 26 connectivity and maintenance of core habitat areas. However, the impacts would be less than
- 27 the No Action Alternative. Alternative A identifies more roads and trails for public use but still

28 limits the uncontrolled proliferation of roads and trails in many key core areas. The public land

- health standard for plant and animal communities would be maintained under this alternative.
- 31 Alternative B would maintain the most habitat connectivity and preserve the greatest amount of
- 32 core habitat area, critical attributes of healthy landscapes. Alternative B identifies fewer roads
- and trails for public use and still limits the proliferation of roads and trails in many key core
- 34 areas. The public land health standard for plant and animal communities will be maintained
- 35 under this alternative.
- 36
- Alternative C would maintain a high level of habitat connectivity and preserve a large amount of
 core habitat area, critical attributes of healthy landscapes. Alternative
- 39 C would identify fewer roads and trails for public use than Alternative A and more than
- 40 Alternative B. Alternative C would still limit the proliferation of roads and trails in many key
- 41 core areas. The public land health standard for plant and animal communities would be
- 42 maintained under this alternative.
- 43

1 WASTES, HAZARDOUS OR SOLID

- 2 Affected Environment: Easy access to Public Lands from Canon City, Salida, and other
- 3 communities and tipping fees charged at legal disposal sites result in some dumping of materials
- 4 on Public Lands. The dumping is serious in localized areas near population centers but minor in
- 5 isolated areas; although there is some evidence that frequency of dumping may be increasing.
- 6 The increase in dumping is probably related more to a growing population in the area than to any
- 7 other factor. Dumping is typically exempt household solid waste consisting of building
- 8 materials, furniture, appliances and yard waste. Dumping of hazardous materials occurs less
- 9 commonly. Dumped materials that may include hazardous waste are typically oil products and
- 10 remnants of methamphetamine labs. Both types of wastes are cleaned up and properly disposed
- 11 of as an ongoing part of Public Land management.
- 12

13 Environmental Consequences & Mitigation:

- 14 Impacts Common to All Alternatives: None of the considered alternatives will directly result in
- 15 the generation, use, storage or disposal of hazardous or solid waste as a direct result of this
- 16 action. Specific mitigation for hazardous or solid waste is unnecessary. It will remain the policy
- 17 of the BLM that dumped wastes will be legally disposed of as soon as they become known, as a
- 18 means of protecting the safety of the Public Land user and land management employees. In
- 19 cases where the person responsible for the dumping can be determined, legal action will be taken
- 20 to compensate the government for disposal costs and to deter additional dumping by the public.
- 21

22 FIRE MANAGEMENT

- 23 Affected Environment: The Public Lands addressed in the proposed Travel Management Plan
- 24 are included within portions of the C-2 Middle Arkansas and C-4 Upper Arkansas Fire
- 25 Management Units as identified and described in the 2004 <u>Royal Gorge Field Office Fire</u>
- 26 <u>Management Plan.</u>
- 27

28 As the proposed Travel Management Plan will impact off road motorized vehicle and other non-

- 29 motorized use, its outcome may affect the extent and frequency of future human caused wildland
- 30 fire occurrence within the planning area. The current Fire Management Plan emphasizes that a
- 31 suppression oriented response is required for all human caused fires, and this direction would
- 32 apply to all alternatives under consideration. Historical fire occurrence within the Arkansas
- 33 River Travel Management planning area is statistically dominated by lightning caused fires.
- 34 Human caused ignition sources account for approximately 20% of the planning area fire
- 35 occurrence with railroads being the leading statistical human cause. Other specific human
- 36 caused ignition sources include abandoned campfires, smoking, fireworks, exhaust systems and
- 37 exhaust sparks.
- 38

39 Environmental Consequences:

- 40 <u>No Action Alternative (Current Use)</u>: No appreciable short term change in the existing historical
- 41 pattern of human caused fire occurrence is expected. However, depending on the actual increase
- 42 in recreational use based on the region's anticipated future population growth, human caused fire
- 43 occurrence will correspondingly increase. Long term human caused fire occurrence under this
- 44 alternative will likely be somewhat higher than that which can reasonably be expected under the
- 45 Proposed Action and Low Use Alternatives.
- 46

- 1 <u>Alternative A:</u> This alternative provides the highest level of motorized vehicle accessibility, and
- 2 can generally be expected to result in a higher number of human caused fire incidents.
- 3 Presumably, the greater number of available motorized vehicle miles suggested under this
- 4 alternative would also facilitate suppression vehicle access, thereby reducing response time
- 5 which will improve the efficiency of suppression operations resulting in fewer acres burned.
- 6 While this alternative presents the highest potential for an increase in the number of human
- 7 caused fires, the corresponding fire size potential should decrease.
- 8
- 9 <u>Alternative B:</u> Under this alternative, with significantly fewer miles available for motorized
- 10 vehicle access, human caused fire occurrence can be expected to decline. This alternative has
- 11 the lowest potential for human caused fire occurrence of all alternatives under consideration. As
- 12 human caused risk factors associated with vehicle access are reduced, human ignition sources
- 13 will be further confined within a shorter distance from established motorized travel routes.
- 14 Under this premise and depending on the situation, a shortened timeframe for suppression force
- 15 response would inevitably limit the size of most fire incidents.
- 16
- 17 <u>Alternative C (Proposed Action)</u>: The Proposed Action reduces the number of miles available to
- 18 motorized use, and correspondingly limits potential human caused ignition sources. A
- 19 significant reduction in human caused fire occurrence would not be expected under this
- 20 alternative, but as the regional population base continues to grow, some increase in human
- 21 caused risk can reasonably be expected over the long term. The decrease in the total miles of
- 22 motorized routes is not substantial and is not anticipated to have a significant impact on human
- 23 caused risk factors.
- 24

25 Mitigation: Applicable to all Alternatives26

- 27 1. Fire prevention and education activities should continue to focus on OHV user groups, clubs28 and organizations.
- 29 2. Increase fire patrol presence, enforcement activities and signing especially during periods of30 high fire danger and when fire restrictions are implemented.

3132 Cumulative Effects

- 33 The alternatives under consideration create no long-term cumulative effects to fire management
- in the travel planning area when considered with other reasonably foreseeable actions.
- 35

36 FOREST MANAGEMENT

- 37 Affected Environment: The travel management planning area includes most of the major forest
- types found throughout in the Royal Gorge Field Office (RGFO). The dominant forest type in
- 39 the lower elevations is the Piñon and juniper woodlands. There is currently 30,000 acres of
- 40 Piñon/juniper woodlands within the planning area that do not meet health standards, due to high
- 41 tree densities. These high forest densities result in a loss of understory plant diversity.
- 42
- 43 Ponderosa pine is found in the mid elevations. This tree species is typically found in pure stands
- 44 or mixed with Douglas-fir and/or Piñon and juniper. Aspen, spruce, white fir, lodgepole pine and
- 45 Douglas-fir are found in the higher elevations of the planning area. Aspen is typically found as

1 scattered small stands within forests dominated by conifers. Most aspen stands within the area 2 are being encroached upon by conifers.

3

4 The tree species found throughout the assessment area are hardy and drought-tolerant, and are 5 well suited to the landscape. To ensure optimum tree health, forest management 6 recommendations include providing adequate spacing and water, and avoiding wounding of the 7 trees. Generally, overcrowded forests are more susceptible to insect and diseases than trees with 8 adequate light and space. Maintaining a mix of forest age classes or stages in development in a 9 mosaic pattern will maximize forest age class diversity and provide a wider variety of habitat. 10 11 The lack of disturbance has reduced age class diversity over the area and allowed the 12 encroachment of shade tolerant species into the understory of shade intolerant species. Some of 13 the stands are inoperable for mechanical equipment due to steep slopes and lack of access. 14 Thinning and burning in all vegetative types will improve forest health, reduce fuels, and

increase diversity by returning a natural component of the ecosystem. 15

16

17 Substantial changes have taken place in the forests over the past 150 years. Past forest

18 management activities includes heavy harvesting during the settlement of the Arkansas River

19 Valley. Timber was utilized for energy and to build infrastructure. More recently, from the

20 1960's to the early 1980's, timber was harvested for lumber near Arkansas Mountain, Kerr

Gulch, Crampton Mountain, and Sand Gulch. Most of the roads within the subunits were 21

22 created for grazing, hunting, forest product removal, minerals extraction, and for recreation activities.

23

24

25 Current forest conditions exhibit several indicators of poor health including overstocked small 26 diameter trees, moderate to high natural fuel accumulations, limited herbaceous production, and 27 an increase in bark beetle activity. Many forested stands within the planning area have between 28 500 to 2500 trees per acre. These high forest densities result in individual tree competition for 29 limited nutrients, water and sunlight. There is evidence that wildfire was once part of these 30 forests and that past logging has occurred throughout much of the area.

31

32 Most of the larger trees have been harvested and naturally occurring wildfire has been

33 suppressed. Wildfires played an important ecological role in maintaining the function and

34 pattern of the vegetation on the landscape. Wildland fires reduced natural fuel accumulations,

35 maintained forest health by keeping tree densities low, recycled nutrients, maintained openings

and parks, and improved wildlife habitat. The past 100 years of wildfire suppression, cattle 36

grazing, rural development, and forest management have interrupted the natural frequency and 37

38 intensity of wildfires, which has resulted in overstocking of the forests. These overstocked stands

39 of mainly small trees provide a ladder for wildfire to move into the forest canopy. Canopy or

- 40 crown fires are the most destructive and difficult to control.
- 41

42 Bark beetle activity has increased within all forest types and is expected to continue to expand

due to the high tree densities. Future forest health and fuels reduction work would likely include 43

44 using existing roads to move in machinery and remove forest products. Existing roads provide

45 the best, sometimes the only, feature on the landscape that will serve as a fuel break for fire

46 control.

- 1 Some commercial fuel wood harvesting and off road travel is occurring in this area. Both
- 2 commercial and personal use Christmas tree and transplant harvesting occurs in designated
- 3 locations within several of the subunits. On-going forestry and fuels reduction projects include
- 4 Kerr Gulch, Western Fremont Forest Health and Fuels Reduction, Road Gulch, Poverty
- 5 Mountain, Arkansas Mountain, Soapy Hill, Sand Gulch, and 3-Peaks. These projects protect
- 6 recreation opportunities by creating healthy disturbance resilient forests.
- 7
- 8 Personal use firewood gathering is authorized by permit throughout most of the Arkansas River
- 9 planning units. Stipulations for minimizing resource damage are attached to each permit that is
- 10 issued. Forest product permits that are issued to the general public currently include a stipulation
- 11 that limits parking to within 10 feet of existing open roads.
- 12

13 Environmental Consequences & Mitigation

- 14 On a minimal scale, closing roads would limit the public's ability to access forest products in
- 15 some areas. Closing roads with exclusive private landowner access could actually help to reduce
- 16 theft of forest products. There are suspected cases within the planning area where private
- 17 landowners with exclusive access are believed to be removing forest products without the
- 18 required permit. Most roads selected for closure in the proposed action alternative have
- 19 exclusive access or are in such poor condition that major reconstruction would be needed before
- 20 they could be used for removing forest products.
- 21
- 22 Changing existing roads to trails would likely increase the costs of future forest management.
- 23 Modifying old roads to be managed as ATV or single-track trails could cause controversy when
- 24 forest health work requires utilization of a designated trail that at one time was a road.
- 25
- 26 Closing roads with gates would allow easy access for fire control, future forest health and fuels
- 27 reduction projects. Permanent closures by mechanical means with boulders and tank traps could
- result in higher future costs for fire suppression, fuels and forest management activities.
- 29
- 30 Future and on-going forestry operations would utilize some of the roads within the planning area
- 31 to remove forest products and allow mechanical access. Additionally, some forest and fuels
- 32 projects would require temporary road construction in order to remove forest products. Standard
- 33 timber sale and service contracts require closing all temporary roads once the forest products
- have been removed and treatment has been completed. It could be possible to close some
- 35 existing roads identified for closure through forestry contracts.
- 36
- No Action Alternative: The No Action alternative would be the least costly to implement, but
 would result in a lost opportunity to close exclusive access roads, reduce erosion along roads in
 poor condition, and prevent resource damage from off-road travel.
- 40
- Alternative A: Compared to the other action alternatives, Alternative A would provide the most
 opportunities for gathering forest products, due to the fact that most forest products are gathered
 close to open roads.
- 44
- 45 Alternative B: Of the three action alternatives, Alternative B would provide the fewest
- 46 opportunities for gathering forest products, since fewer open roads would be available.

Alternative C (Proposed Action): The proposed action would only slightly effect the public's
 ability to gather forest products. If future forestry needs are considered after travel management
 has been implemented, the proposed action should have little impact on future treatments.

4 5

6

Mitigation: Applicable to all of the alternatives

7 1. Monitor off road travel from forest products gathering to avoid creating new roads.

8 Typical personal use gathering includes 1 or 2 trips off road to gather forest products in a9 specific area.

- Ensure all temporary roads created by forestry activities are properly closed to avoid
 the creation of new roads. Close roads with gates where possible to facilitate future forest
 management.
- 13

14 Cumulative Effects

- 15 The alternatives under consideration create no long-term adverse or beneficial cumulative effects
- 16 to forest management in the travel planning area when considered with other reasonably
- 17 foreseeable actions.
- 18

19 GEOLOGY AND MINERALS

- 20 Affected Environment: The affected environment includes the Arkansas River corridor and
- 21 immediately surrounding areas between Salida and Canon City, Colorado. This region contains
- 22 important mineral resources including several active mines as well as historic mining districts
- that produced gold, copper, coal, clay, oil, and pegmatites in the early 1900's. The geology of the area consists primarily of Precambrian and metamorphic terrain covered in alluvial deposits of
- 24 area consists primarily of Precambran and metamorphic terrain covered in antivial deposits of 25 the Arkansas River. The alluvial deposits are mined for placer minerals such as gold, especially
- along the banks of the Arkansas River, and for sand and gravel used in construction.
- 27 Additionally, the Precambrian rock is mined for decorative stone used in landscaping and in road
- work.
- 29
- 30 Active mining is occurring in 7 of the 14 subunits including the Salida, Badger Creek, Sangres
- 31 Foothills, Red Gulch, West McCoy Gulch, Road Gulch, and Custer County Subunits. In general,
- 32 access for any mining activity is described and approved in the associated mining plan which
- also includes a reclamation plan for any disturbance created accessing the mined area. Current
- 34 use of all roads used to access active mines is designated as either administrative access or open
- 35 to all motorized vehicles. The status of these access roads would remain unchanged in
- 36 alternatives A, B, and C and therefore this travel management plan would not have an affect on
- 37 active mining within the analysis area.
- 38

39 Environmental Consequences/Mitigation:

40

41 <u>No Action Alternative</u>: No impact to mineral resources; all mining access proposed as
 42 administrative access or open to all motorized vehicles

43

44 <u>Alternative A</u>: No impact to mineral resources; all mining access proposed as administrative

- 45 access or open to all motorized vehicles
- 46

<u>Alternative B</u>: No impact to mineral resources; all mining access proposed as administrative
 access or open to all motorized vehicles

3

6

Alternative C (Proposed Action): No impact to mineral resources; all mining access proposed
 as administrative access or open to all motorized vehicles

- 7 LAW ENFORCEMENT
- 8 Affected Environment: Problems with unauthorized or illegal OHV use on public lands are
- 9 numerous and growing. In addressing these problems the Law Enforcement program focuses on
- 10 education, compliance checks, and issuing written warnings and violation notices. The ability of
- 11 the Law Enforcement program to increase compliance with existing OHV use regulations is
- 12 comprised of three main problems:
- 13
- 14 <u>Manpower Limitations</u>: At present only one law enforcement officer (Ranger) is stationed in the
- 15 Royal Gorge Field Office. A single Ranger is responsible for enforcement activities on all public
- 16 lands. In addition to enforcing OHV use violations, the Ranger must also handle mineral, land
- 17 and realty, grazing, recreation, wild horse and burro, and other program violations.
- 18
- 19 Low Fines for Violations of OHV Regulations: Under the present BLM collateral fine schedule
- 20 the fine for operating a motor vehicle off existing or designated routes is \$50.00. Many OHV
- 21 users accept the risk of paying a small fine because they realize that law enforcement is limited
- and the possibility of getting caught is minimal. Some violators have commented that paying the
- small fine is just part of the cost of recreating on public land. Attempts to raise the fines for
 violations of OHV and other BLM regulations have been on-going for many years. Currently, a
- violations of OHV and other BLM regulations have been on-going for many years. Currently, a
 new collateral schedule has been proposed and presented to the Justice Department for approval
- 25 new conateral schedule has been proposed an 26 but no action has occurred to date.
- 27
- 28 <u>Current Travel Management Policy</u>: Under the BLM's current OHV regulations, motorized

travel in the Arkansas River TMP area is permitted on all <u>existing</u> roads and trails, with the

- 30 exception of those where motorized access has been restricted by activity plans or special orders.
- 31 Roads are assumed to be open to OHVs unless posted as closed.
- 32

The current OHV regulations are difficult for the public to understand and for the BLM to

- 34 enforce. Although the current regulations prohibit driving off existing roads and trails, many
- 35 unauthorized "User Created" travel routes have been developed over the years that visitors now
- regard as existing motorized roads or trails. The creation of such roads and trails often results in
- 37 damage to public lands, causes adverse impacts to other resources, or creates conflicts with other
- uamage to public rands, causes adverse impacts to other resources, or creates conflicts with other
 users. Signs are posted on "User Created" routes indicating that they are closed to motorized use
- 39 but many do not stay up for very long.
- 40

41 Environmental Consequences and Mitigation

- 42 Impacts Common to All Action Alternatives: The primary benefit for law enforcement in
- 43 switching to a designated route system is that Rangers will know the routes that are available for
- 44 designated uses. This will assist Rangers in enforcing user compliance and in court proceedings.
- 45 Without additional manpower, however, the implementation of the designated route travel
- 46 management system proposed under all of the action alternatives will do little to alleviate the

- 1 problems that law enforcement has with illegal OHV use. Some of these problems include the
- 2 need for additional public education, BLM field presence, and the installation and replacement of
- 3 signs and vehicle barriers.
- 4

5 <u>No Action Alternative</u>: Under the No Action Alternative, law enforcement personnel would
 6 continue to operate under current travel management regulations that limit the ability to
 7 effectively enforce the closures of User Created routes.

8

Alternative A: Alternative A would implement a designated route travel management system
that would improve the ability of law enforcement personnel to enforce OHV restrictions.
Alternative A would initially create a greater need for compliance and law enforcement actions
but this would improve over time as users become familiar with the new travel management
system. Since more routes would be available for OHV use, in the long term, a lower level of
law enforcement presence could possibly be required.

15

16 <u>Alternative B</u>: Alternative B would implement a designated route travel management system 17 that would improve the ability of law enforcement personnel to enforce OHV restrictions. This 18 alternative would, however, require the most law enforcement presence, since the number of 19 road and trails that are designated for OHV use would be substantially reduced. This could lead 20 to overcrowding and increased user conflicts in some areas, increased violations of OHV use on 21 non-motorized routes, and increased attempts to establish illegal routes.

21 22

Alternative C (Proposed Action): The Proposed Action would implement a designated route
 travel management system that would improve the ability of law enforcement personnel to
 enforce OHV restrictions. The Proposed Action would initially create a greater need for
 compliance and law enforcement actions but this could improve over time as users become
 familiar with the new travel management system.

28

29 PALEONTOLOGY

30 Affected Environment: The affected environment includes the Arkansas River corridor and 31 immediately surrounding areas between Salida and Canon City, Colorado. Although several 32 important paleontologic resources are found within the affected area, the geologic formations

- 33 that contain the most important paleontologic resources are located within the Salida and Grand
- 34 Canyon Hills subunits. These are the Dry Union Formation especially in the King Gulch area
- 35 south of Salida in the Salida Subunit, and the Morrison and Dakota formations located near
- 36 Temple Canyon City Park west of Canon City within the Grand Canyon Hills Subunit. These
- 37 formations are important because they regularly produce abundant identifiable vertebrate
- 38 remains that have high scientific value and importance.
- 39
- 40 To protect the paleontologic resources from human degradation, access to these highly sensitive
- 41 paleontologic resources should be limited. In general, alternatives B and C considered for this
- 42 travel management plan would limit access to these areas better than Alternative A because
- 43 alternatives B and C are lower use alternatives than A.
- 44
- 45 <u>Salida Subunit, Dry Union Formation</u>: Alternatives A, B, and C propose to close a network of
- 46 user created routes located below the radio tower in King Gulch south of Salida that contain

- 1 high concentrations of vertebrate remains. This action would benefit the paleontologic resources
- 2 located here by limiting travel within this area to non-motorized travel which would generally
- 3 reduce impact to paleontologic resources in the area. 4
- 5 Grand Canyon Hills Subunit, Morrison and Dakota Formations: Alternatives A, B, and C would
- 6 limit use of areas that contain significant paleontologic resources to foot travel and/or 7 administrative access.
- 8

9 **Environmental Consequences/Mitigation:**

- 10 No Action Alternative: Potential impacts to paleontologic resources would continue to occur under this alternative. Under the No Action Alternative motorized uses would continue to be 11 12 available on existing routes and areas with paloeontologic resources would be more susceptible 13 to damage.
- 14
- 15 Alternative A: No impact to paleontologic resources; all routes adjacent to paleontologic 16 resources are proposed for foot travel or administrative access only.
- 17
- 18 Alternative B: No impact to paleontologic resources; all routes adjacent to paleontologic 19 resources are proposed for foot travel or administrative access only.
- 20 21 Alternative C (Proposed Action): No impact to paleontologic resources; all routes adjacent to 22 paleontologic resources are proposed for foot travel or administrative access only.
- 23 24 NOISE
- 25 Affected Environment: Ambient sound and noise levels vary greatly throughout the Arkansas 26 River Travel Management Planning area. Ambient sound includes the Arkansas River, wind, and noise originating from vehicle traffic on state highways and Fremont County roads. Other noise 27 sources include industrial activities, farming and ranching activities, mining, aircraft over-flights, 28 29 recreational target shooting, and activities related to uses around residential areas. Many areas 30 within the planning area are, however, relatively quiet. The preponderance of these quiet areas is 31 found on public lands.
- 32

33 Vehicles on US 50 create are the largest noise contributors to public lands in this area. Most of 34 the public lands in the area are more influenced by the noise from motor vehicles on roads and 35 trail than from other sources. Those subunits that border US 50 are exposed to continuous high 36 levels of traffic noise from cars and large trucks. The level of noise generated by car and truck traffic generally lessens with increased distance from the highway but the sounds of traffic can 37 38 often be heard from many miles away. The degree to which the sounds of traffic noise can be 39 heard away from the highway is dependent on the nature of the local terrain and wind direction. 40 Noise can be blocked or muted by the surrounding vegetation and topography.

- 41
- 42 The use of recreational vehicles on BLM roads and trails is another major source of noise in
- some portions of the planning area. As a general rule, ATVs and motorcycles produce more 43
- 44 noise than full-size 4WDs and SUVs. ATVs and motorcycles produce more noise because their
- exhaust systems are not as effective at muffling noise and the machines are often operated at 45
- high rpms; whereas full-size vehicles are usually equipped with effective muffling systems and 46

- 1 are operated at slower speeds. Consequently, the subunits with the highest noise levels are those
- 2 that contain numerous roads and trails that attract high amounts of ATV and dirt bike use.
- 3
- 4 Within the Arkansas River TMP area, the subunits that are most affected by noise from
- 5 recreational vehicles include Texas Creek, Salida, and portions of Sangres Foothills in the Kerr
- 6 Gulch and Falls Gulch areas. The town of Howard and property owners adjacent to Turkey Rock
- 7 have experienced direct noise impact on a periodic basis from 14 BLM permitted motorcycle
- 8 trials bike events since 1992 (Table 10.1). The subunits that are least affected by noise from
- 9 recreational vehicles are Grape Creek, McIntyre Hills, and Browns Canyon.
- 10
- 11 Table 10.1 Measured (⁺) and predicted (⁻) visitation (staff + guests) at Turkey Rock motorcycle
- 12
 trials bike events permitted on BLM lands, Howard, CO, 1992-2006.

 Year
 Visitors
 Year
 Visitor

Year	Visitors	Year	Visitors
1992	76+	2000	no permit
1993	64^+	2001	74+
1994	64	2002	60-
1995	57+	2003	89 ⁺
1996	53+	2004	84^{+}
1997	49+	2005	73+
1998	91 ⁺	2006	74 ⁺
1999	80-	2007	no permit (9/8/2007)

- 13
- 14

15 An additional source of noise in some of the subunits comes from target shooting. Throughout

- 16 most of the planning area, target shooting is an isolated, intermittent, and legal activity. In some 17 subunits, however, the amount of target shooting has increased sharply and has become
- established as the dominant use in local areas. In addition to the noise, areas that experience
- 19 high levels of recurring use for target shooting often experience problems with littering, trash
- 20 dumping, and conflicts with other uses as well.
- $\frac{1}{21}$

22 BLM has very little ability to change the noise patterns on the non-federal lands in the planning

- area. The noise on and from these non-federal lands can also be expected to increase as new
- subdivisions are created and as traffic on the major Federal, state and local roads increases.
- These increases are fueled primarily by increasing rural residential development and recreational uses.
- 27

28 Currently, visitors to the public lands in the planning area can find a variety of areas that vary

- 29 with the amount of noise that may or may not affect their recreational experiences. Those
- 30 seeking peace and quiet with low levels of noise can find it in subunits like Grape Creek and
- 31 McIntyre Hills. Those who can tolerate higher levels of noise can utilize subunits like Salida and
- 32 Grand Canyon Hills. There are numerous subunits that provide a range of noise levels between
- 33 these extremes.
- 34

1 Environmental Consequences/Mitigation:

2 No Action Alternative: Noise levels under this alternative will change in a variety of ways. In 3 a few areas, noise levels will go down as illegally created roads are closed. In most areas, 4 however, noise levels will increase, varying from slight increases in some areas (the subunits 5 with fewer motorized routes) to major increases in others (such as in the Texas Creek and Salida 6 subunits). Though some increases in noise levels will come from increasing development on 7 adjacent private lands, most of the increases on public lands will come from recreational vehicle 8 use. Short-term, direct seasonal noise impacts from BLM approved motorcycle trials bikes 9 events at Turkey Rock would impact the town of Howard and adjacent property owners, on 10 average, once a year under the No Action Alternative, assuming RMTA application and continued BLM approval of Special Recreation Permits. Overall, under this alternative, noise 11 12 levels will experience a slow but gradual increase throughout the planning area. A variety of 13 noise levels will still be able to be found in the planning area, as not all subunits will experience 14 the same levels and types of increases in noise.

15

16 Under this alternative, concentrated target shooting would continue at Turkey Rock and adjacent

17 to the city of Salida and noise levels from this source would continue to slowly increase over

18 time. The levels of noise from target shooting in the remainder of the planning area would

19 generally remain the same but could experience slight increases from increased levels of

- 20 recreational use in some areas.
- 21

22 Alternative A: Under Alternative A, noise levels are expected to rise in the planning area but 23 only a small amount over that described for Alternative C. This increase would be slight in areas 24 that are currently relatively quiet, and could rise sharply in those subunits that currently receive a 25 moderate to high amount of motorized use. The increase in noise levels would come from the 26 continuation of use on some routes, the addition of new routes in certain areas, and the overall 27 increase in use throughout the planning area. Subunits like Grand Canyon Hills, Crampton 28 Mountain, and Road Gulch could see low to moderate increases in noise levels. The overall 29 increase in visitors would probably result in low to moderate increases in noise levels on those 30 BLM roads that remain open and on adjacent Federal, state and local roads. This increase is mostly based on the greater availability of motorized routes on public lands than under 31 32 Alternative C.

32 33

34 Under Alternative A, short-term, direct seasonal noise impacts from BLM approved motorcycle 35 trials bikes events at Turkey Rock would impact the town of Howard and adjacent property 36 owners, on average, once a year, assuming RMTA application and continued BLM approval of 37 Special Recreation Permits. The designation of an open trials bike practice area at Turkey Rock 38 could extend direct noise impact to the town of Howard and adjacent property owners beyond 39 single permitted events to a year-round noise source. Year-round noise impacts from motorcycle 40 trials bike practice near the source at Turkey Rock would likely be sporadic and less intense than 41 trials bike events, assuming participation is limited by drive time to Turkey Rock during weekdays. Noise-levels, and potentially user-conflict, could be higher on weekends when trials 42 43 bike users travel to Turkey Rock from origins more distant such as Colorado Springs and Pueblo. 44 45 Under Alternative A, there would be a marked improvement in lowered noise levels resulting

46 from the closure of all the concentrated target shooting areas. Some of the users will

1 undoubtedly look to other nearby public lands but this will be in the form of dispersed target

- 2 shooting and the impacts to noise will be more spread out and intermittent.
- 3

4 Alternative B: Under Alternative B, noise levels are expected to decrease in the planning area 5 but only a small amount under that described for the Alternative C. The decrease would be slight in areas that are currently relatively quiet but substantial in those subunits with the largest 6 7 amount of road closures. Under this alternative, noise levels in the Sangres Foothills and West 8 McCoy Gulch subunits would drop sharply. The overall increase in visitors would probably 9 result in a low to moderate increase in noise levels on those public land roads that remain open 10 and on adjacent Federal, state, and local roads. This would be caused by users of motorized vehicles shifting their use to those roads that remain open. 11 12

- Under Alternative B, short-term, direct seasonal noise impacts from BLM approved motorcycle
 trials bikes events at Turkey Rock would impact the town of Howard and adjacent property
- 15 owners, on average, once a year, assuming RMTA application and continued BLM approval of
- 16 Special Recreation Permits.
- 17

18 Under Alternative B, concentrated shooting would remain generally the same as under the No

19 Action Alternative. This would result in high noise levels in portions of the Badger Creek and

20 Salida subunits that would continue to slowly increase over time. The levels of noise from target

21 shooting in the remainder of the planning area would generally remain the same but some areas

- 22 could experience slight increases from increased levels of recreational use.
- 23

Alternative C (Proposed Action): Under the Proposed Action, noise levels can be expected to increase in some of the subunits, while decreasing in other sub-units. Lower levels of noise are anticipated in areas where roads are closed or are converted from motorized to non-motorized use.

28

29 Sharp decreases in noise levels resulting from decreased amounts of motorized vehicle use

would be found in the Sangres Foothills subunit in Kerr Gulch and Falls Gulch. Increased noise
 levels would occur in the Texas Creek and Crampton Mountain subunits. The remaining

- 32 subunits would generally retain current noise levels, with some road closures offset by overall
- 33 increases in use levels.
- 34

35 Overall, the proposed closure of certain roads would result in decreased noise levels in the 36 immediate vicinities of closed roads. Conversely, roads that remain open or the new routes that 37 are constructed would lead to increases in noise levels in the surrounding areas. In the planning 38 area as a whole, there would be an increase in the number and size of areas where low levels of 39 noise are found, as well as some localized areas where noise levels would increase. Similar to 40 Alternative A, under Alternative C, short-term, direct seasonal noise impacts from BLM 41 approved motorcycle trials bikes events at Turkey Rock would impact the town of Howard and adjacent property owners, on average, once a year, assuming RMTA application and continued 42 43 BLM approval of Special Recreation Permits. 44

45 The designation of an open trials bike practice area at Turkey Rock could extend direct noise

46 impact to the town of Howard and adjacent property owners beyond single permitted events to a

year-round noise source. Year-round noise impacts from motorcycle trials bike practice near the
 source at Turkey Rock would likely be sporadic and less intense than trials bike events, assuming

- 3 participation is limited by drive time to Turkey Rock during weekdays. Noise-levels, and
- 4 potentially user-conflict, could be higher on weekends when trials bike users travel to Turkey
- 5 Rock from origins more distant such as Colorado Springs and Pueblo.
- 6
- 7 Under the Proposed Action, the amount of noise from concentrated target shooting areas would
- 8 decrease, with the closure of the areas at Turkey Rock and near the town of Salida. Noise from
- 9 dispersed target shooting may increase in those subunits nearest to Salida and Howard, as
- 10 shooters look for other suitable places to practice their sport.
- 11

Mitigation: Mitigations 1-3 would apply to all alternatives. Mitigation 4 would apply toAlternatives A and C.

- 14
- Implement public information/education efforts to encourage controlling noise levels
 while recreating on public lands.
- 17 2. Enforce state noise level standards pertaining to the operation of motor vehicles.
- 18 3. Monitor noise levels of trials bike events and practice area use
- 19 4. Develop and apply time of use stipulations for Turkey Rock trials bike practice to
- 20 reduce noise impacts on adjacent property owners
- 21 22

23 Cumulative Effects

In addition to growth in recreational travel, other reasonably foreseeable actions that could effect regional ambient sound and noise levels over the next 10 years on private and public lands in the

- Arkansas River basin include residential growth, new road construction on private lands, fuels
- 27 reduction projects, utility corridor maintenance and upgrades, and new buried utility rights-of-
- 28 way. Activities on public lands in the travel planning area that could also potentially impact
- ambient sound and noise levels and require mitigation include, the proposed Over the River art
- 30 project on the Arkansas River, and commercial forest products harvesting. The cumulative
- 31 effects to ambient sound from these activities in addition to noise from all action alternatives will
- 32 be long-term and most adverse and dispersed in the No Action and Alternative A, contained and
- 33 long-term in Alternatives B and C.
- 34

35 RANGE MANAGEMENT

- 36 Affected Environment: The area covered by this plan includes approximately 77 livestock
- 37 grazing allotments. BLM grazing permits authorize specific ranchers, or permittees, to utilize
- 38 these allotments for domestic livestock grazing. These permits specify livestock numbers and
- 39 the periods of authorized grazing use for each allotment. Grazing use on Public Land is
- 40 managed to comply with the *Guidelines for Livestock Grazing* in Colorado and help achieve
- 41 Standards for Public Land Health.
- 42
- 43 Over the years, numerous range improvements (fences, springs, stock ponds, etc.) have been
- 44 authorized and constructed on many of the grazing allotments in the planning area.
- 45 Maintenance of these improvements is normally assigned to the individual grazing permittee on
- 46 each allotment. Permittees are also responsible for checking their livestock and ensuring that

1 they are in compliance with the dates, times and locations specified in individual grazing

- 2 permits. This requires that permittees utilize many of the roads and trails within each allotment
- 3 by foot, horseback or vehicle. Except where it is prohibited in special areas, such as the four
- 4 Wilderness Study Areas, BLM has historically allowed grazing permittees vehicular access for
- 5 performing administrative work on the allotments (i.e., maintenance responsibilities or
- 6 management requirements). BLM has also traditionally permitted occasional vehicle use off
- 7 roads as part of the administrative use of grazing allotments. In some cases, grazing permittees
- 8 and the public share the use of many of the existing roads and trails on the allotments. On some
- 9 allotments, many of the roads and trails utilized by the permittee are only accessible by crossing
- 10 private land and thus are not available for use by the general public.
- 11

12 During the preliminary phases of this travel management plan, comments were received from

- 13 permittees who have grazing allotments located within the Badger Creek, Little Hole, Texas
- 14 Creek, and West McCoy Gulch Subunits. These comments were specific as to which routes
- 15 should be closed and which should be left open and areas where specific conflicts are present
- 16 between livestock grazing and motorized recreational use. These conflicts included issues such
- 17 as gates being left open resulting in cattle moving into pastures where they were not authorized,
- 18 harassment of cattle by ATV operators, and damage to vegetation by OHV use. General

19 comments from grazing permittees have also been received to the effect that grazing permittees

20 are required to follow Grazing Guidelines to meet the Public Land Health Standards, while OHV

21 use on their grazing allotments is damaging soil and vegetation to a degree that that the Health

- 22 Standards may not be met.
- 23

24 In most cases, the limited amount of use made by individual grazing permittees or BLM staff is

- 25 not sufficient to cause substantial impacts to Public Lands. There may be cases, however, where
- specific roads that are needed for range management purposes are causing or contributing to
- erosion or other problems. Although such roads are used only occasionally by the permittee,
- their slope, location or design may be causing problems that need to be corrected.
- 29

30 Environmental Consequences:

31 **Consequences Common to All Alternatives**: None of the alternatives would affect access or

32 uses of existing roads and trails for administering grazing operations. Authorized holders of

- 33 grazing permits would still be allowed to drive on existing roads for the purpose of managing
- 34 their grazing operations under all of the alternatives. A number of the routes utilized in range
- 35 management activities are included in the "Non-system" category under each of the alternatives.
- 36 The Non-system category includes routes that are closed to motorized use by the public but that
- 37 may be used by authorized persons for administrative purposes. BLM grazing permittees will
- continue to be allowed vehicular use on Non-system roads needed for managing their operations.
 Occasional off road vehicle use will also be permitted for administrative purposes only and
- 40 where such use does not result in undo resource damage. Vehicle use by permittees of BLM
- 41 non-system roads for purposes other than official administrative duties will not be authorized.
- 42 Permittees will only be allowed vehicle use on non-system roads on allotments where they hold a
- 43 valid BLM grazing authorization.
- 44

45 The use of Public Lands for grazing does not preclude other uses from occurring on these same

46 parcels, such as hunting, target shooting, hiking, horseback riding, etc. BLM regulations prohibit

anyone, including grazing lessees or permittees, from interfering with lawful uses or users of
 Public Land, including obstructing free transit by force, threat, intimidation, signs, barriers or
 locked gates. Other uses, however, sometimes have negative impacts on livestock and grazing

- 4 operations when gates are not closed, fences are cut, or when livestock are disturbed by high
- 5 levels of activity. Likewise, the presence of livestock sometimes results in conflicts with other
- 6 recreational uses. As a general rule, areas that are readily accessible to the public and that
- 7 receive high levels of recreational use usually result in increased conflicts and have greater
- 8 impacts on livestock and grazing than areas with limited access and low levels of recreational
- 9 use. As a result of projected population growth in the region and increased recreation use on

10 Public Lands, the level of conflict with other uses and impacts on livestock and grazing are 11 expected to increase in the future under all of the alternatives.

12

13 **No Action Alternative**: The No Action Alternative includes 327.5 miles of existing travel

14 routes that would be available to the public for all types of recreational uses. Of this total,

approximately 232.3 miles would be open to motorized travel, and 35.1 miles would be limited

16 to non-motorized uses. Approximately 60.2 miles would be managed as Non-system routes and

- 17 would be available for administrative uses only.
- 18

19 The No Action Alternative would generally maintain the status quo for grazing and range

- 20 management. Access and travel for managing permitted grazing operations would not be
- 21 affected. Conflicts with other uses resulting from grazing and impacts to livestock and grazing
- 22 operations would gradually increase as recreational uses on Public Lands increase. Those sub-
- 23 units containing high densities of travel routes and motorized access, such as Texas Creek,
- 24 Badger Creek, and West McCoy Gulch would be most affected by conflicts and impacts to
- 25 grazing caused by higher levels of recreational traffic. The level of conflicts and impacts to
- grazing in those sub-units that currently experience low to moderate levels of motorized use,
 such as Red Gulch, Road Gulch, Crampton Mountain, and Sangres Foothills could increase
- such as Red Gulch, Road Gulch, Crampton Mountain, and Sangres Foothills could increase
 substantially as recreation uses in these areas increases over time. Conversely, grazing
- 28 substantially as recreation uses in these areas increases over time. Conversely, grazing 29 operations in those sub-units that have limited access and low densities of travel routes, such as
- 30 Grape Creek, Big Hole and Browns Canyon would not be substantially affected.
- 31

Alternative A: Alternative A includes 372.1 miles of designated travel routes that would be
 available to the public for all types of recreational uses. Of this total, approximately 219.9 miles
 would be open to motorized travel, and 106.9 miles would be limited to non-motorized uses.

35 Approximately 43.5 miles would be managed as Non-system routes, and would be available for

- 36 administrative uses only.
- 37

38 This alternative would not affect access and the use of travel routes for managing permitted

39 grazing operations. Due to the relatively high number of routes that would be available to the

- 40 public for recreational uses, Alternative A would provide high travel route densities and high
- 41 levels of traffic that would have the most impacts on livestock and the management of grazing
- 42 operations of all the alternatives. Under Alternative A, most of the existing travel routes and
- 43 many new routes would be available to the public for motorized uses throughout all sub-units of
- 44 the planning area, and numerous new routes would be constructed into remote areas that could
- 45 increase traffic and disturbances to livestock.

<u>Alternative B</u>: Alternative B includes 239.7 miles of designated travel routes that would be
 available to the public for all types of recreational uses. Of this total, approximately 135.1 miles
 would be open to motorized travel, and 43.3 miles would be limited to non-motorized uses.
 Approximately 61.3 miles would be managed as Non-system routes, and would be available for
 administrative uses only.

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Alternative B would not affect access and the use of travel routes for managing permitted grazing operations. Because of the relatively low number of routes that would be available to the public for recreational uses, Alternative B would provide for low levels of traffic that would have the least impacts on livestock and the management of grazing operations of all the alternatives. Under Alternative B, many existing travel routes throughout all sub-units of the planning area

12 would be closed to use or limited to non-motorized travel, and no new routes would be

13 constructed that could increase traffic and disturbances to livestock in remote areas.

14

15 Alternative C (Proposed Action): The Proposed Action includes 310.8 miles of designated 16 travel routes that would be available to the public for all types of recreational uses. Of this total, 17 approximately 181.2 miles would be open to motorized travel and 76.8 miles would be limited to non-motorized uses. Approximately 52.8 miles would be managed as Non-system routes and 18 19 would be available for administrative uses only. The Proposed Action would reduce by 17 miles 20 the amount of travel routes for public use than the No Action Alternative. There would be about 50 fewer miles of motorized routes but about 35 more miles of non-motorized routes than in the 21 22 No Action Alternative. The additional 23 miles includes 3 miles of new ATV and motorcycle 23 routes and 20 miles of new foot, horse, and bicycle routes

24

25 Compared to the No Action Alternative, conflicts with other uses and the impacts to livestock 26 and the management of grazing operations resulting under the Proposed Action would increase 27 in some areas but would improve in others. The Proposed Action would not affect access and 28 the use of routes for managing permitted grazing operations. The construction of approximately 29 13 miles of new ATV and motorcycle routes in the Texas Creek subunit would increase the route 30 density and traffic levels in the area and result in increased impacts to livestock and grazing operations. The impact would increase the difficulty of livestock to utilize the forage in the areas 31 32 of increased motorized use. In addition, the development of new foot and horse trails in the 33 Salida subunit would improve access and attract increased numbers of recreational users into 34 remote areas that could result in increased disturbance to livestock and potential 35 grazing/recreation conflicts. The impacts to range management would be reduced in other areas, such as West McCoy Gulch subunit, where existing motorized travel routes would be designated 36 37 for non-motorized uses, resulting in lower amounts of traffic and disturbing activities. 38

39 Mitigation:

40

Non-system route use and vehicle use off routes for livestock management purposes
 should be monitored on each allotment as part of BLM's on-going range management program.
 In areas where specific routes are needed for range management purposes but also
 may be causing or contributing to erosion or other problems, BLM will address maintenance
 needs on a case-by-case basis. Actions may include assignment of route maintenance
 responsibilities to the permittee, BLM maintenance of routes, adjustments in the maintenance or

- 1 management practices on the allotments, or route closure/rehab.
- New travel routes established under the Proposed Action and High Use alternatives
 should be located so as to minimize impacts to existing range improvements or livestock water
- 4 sources.
- 5 4. In locations where there are chronic problems with gates being left open, "please 6 close gate" signs will be posted or ATV cattleguards will be placed.

8 **Cumulative Effects**

- 9 In addition to growth in recreational travel, other reasonably foreseeable actions that could effect
- 10 range management over the next 10 years on private and public lands in the Arkansas River
- 11 basin include residential growth, fuels reduction projects, utility corridor maintenance and
- 12 upgrades, and new buried utility rights-of-way. Activities on public lands in the travel planning
- 13 area that could also potentially impact range management include, the proposed Over the River
- 14 art project on the Arkansas River, and commercial forest products harvesting. The cumulative
- 15 effects to range management will be long-term and most adverse and dispersed in the No Action
- 16 and Alternative A, limited and long-term in Alternatives B and C.
- 17 18

7

19 REALTY AUTHORIZATIONS:

- 20 Affected Environment: This planning area is made up of one very large "block" of Public land
- that is contiguous the length of the planning area, a handful of moderately sized "blocks" of
 Public land, and numerous very small isolated generally unmanageable parcels. There is
- relatively good public access to most of the "blocks" and parcels, although topographically
- 25 relatively good public access to most of the blocks' and parcels, although topographically 24 portions of the "blocks" would be considered inaccessible or at least having only difficult foot
- 24 portions of the blocks would be considered maccessible of at least having only difficult foot 25 access. Some of the small parcels do not have legal public access. The majority of the land is
- 26 identified in the Royal Gorge Resource Management Plan for retention and multiple use
- 27 management, although many of the small isolated parcels are identified for eventual disposal out
- 28 of Federal ownership.
- 29
- 30 Roads and trails within the planning area have been constructed or created by many means and to
- 31 satisfy many purposes. Historically, The Public lands were considered open to any and all off
- 32 road travel and because of that, the majority of the roads were created to get from some point A
- along an existing road to some point B where a person wanted to get to. The reasons include
- 34 livestock management, forest development, fuel wood sales, mining development, cutting travel
- 35 short-cuts, access to homesteads or home sites, access to utility lines and communication sites,
- 36 hunting access, and most recently for increasing recreational activities.
- 37
- 38 There are many roads within the planning area that are legally authorized uses of the Public
- 39 lands. These roads remain under BLM control, in that the BLM determines the appropriate
- 40 public use of the road and may close the road to all but the authorized holder of the right-of-way.
- 41 Generally, if there is legal public access to these roads they remain open to public use, unless as
- 42 determined differently.
- 43
- 44 The Federal Land Policy and Management Act of 1976 (FLPMA) Title V grants the BLM
- 45 authority to grant rights-of-way for all kinds of uses, including roads and trails. Any private
- 46 individual, group, or commercial use (road or trail) on Public land must be authorized prior to

- 1 construction or maintenance. It is BLM policy to only authorize road rights of way where a
- 2 private landowner needs to cross Public land, where the private land is surrounded by Public land
- 3 and an environmentally acceptable route is determined to be acceptable. Hence, any user created
- 4 trail or road on Public land is unauthorized and in trespass on the Public lands. Federal
- 5 regulations allow for the prosecution of trespassers through administrative financial liability
- 6 means and provides for closure and rehabilitation of such unauthorized roads or trails.
- 7 Authorized right-of-way roads or trails may be left open to public use or closed by BLM, or type
- 8 of use managed. If closed by BLM (or where there is no legal public access), only the holder of
- 9 the right-of-way is allowed to use and maintain the road or trail for mechanized transportation.
- 10 In this plan, these roads and trails are noted as Administrative Access (AA) in gold. An
- 11 inventory of all rights-of-way is maintained by BLM in the Master Title Plat (MTP-geographic
- 12 based) and Lands Record System (LR2000-data based) systems.
- 13
- 14 BLM also has acquired easements across non-BLM lands for access to Public lands. Seven are
- 15 for public access and four are for BLM administrative access only. BLM has a responsibility to
- 16 maintain those roads (11 miles).
- 17

18 Environmental Consequences/Mitigation:

- 19 <u>No Action Alternative</u>: The Royal Gorge Resource Management Plan (RGRMP) requires all
- 20 roads and trails on Public lands (234 miles) to be maintained to protect the environment. Roads
- authorized by a right-of-way are required to be maintained by the holder. All other roads and
- trails are maintained by the BLM. Due to the extensive road and trail network and limited
- budget to accomplish maintenance, only critical maintenance work is accomplished annually.
 Emergency repairs due to washouts and similar damage often creates budgetary problems for the
- 25 field office. There are many miles of roads that should be maintained that are being neglected
- 26 due to lack of funding. The occasional recreational use infrequently causes appreciable damage
- and the BLM attempts to temporarily close those roads where that might occur. On the other
- hand, daily repetitive traffic such as a driveway use frequently causes substantial damage that
- 29 can be expensive to correct.
- 30
- 31 Realty Authorizations would not be impacted by the decisions of this plan, except where in the
- 32 rare case that an authorized road will be closed to public travel and the holder would be required
- 33 to enter through a locked gate, and where an unauthorized user becomes prohibited by the
- 34 closure of a road. All authorized roads are designated as administrative access as a minimum
- 35 means of assuring the holders rights of access. Future road needs for authorized activities are
- 36 reviewed and determined if necessary, environmentally acceptable, and mitigation developed as
- 37 necessary on a case by case basis, using the Royal Gorge Resource Management Plan
- designations under the utility corridor study: 1. Exclusion Areas, 2. Avoidance Areas, and 3.
- 39 Open Areas. These three categories were determined by certain resource values analysis in the
- 40 Royal Gorge Resource Management Plan (RG RMP).
- 41
- 42 <u>Alternative A</u>: The Royal Gorge Resource Management Plan (RG RMP) requires all roads and
- 43 trails on Public lands (263 miles) to be maintained to protect the environment. Roads authorized
- 44 by way of a right-of-way are required to be maintained by the holder. All other roads and trails
- 45 are maintained by the BLM. Due to the increase in the extensive road and trail network and no
- 46 change in the limited budget to accomplish maintenance, less critical maintenance work would

- 1 be accomplished annually. Emergency repairs due to washouts and similar damage would create
- 2 more frequent budgetary problems for the field office. There would be even more miles of roads
- 3 that should be maintained that would be neglected because of this situation.
- 4 Realty Authorizations would be less likely to be impacted by the decisions of this plan, where in
- 5 the rare case that an authorized road will be closed to public travel and the holder would be
- 6 required to enter through a locked gate, and where an unauthorized users motorized use becomes
- 7 prohibited by the closure of a road.
- 8
- 9 <u>Alternative B</u>: The Royal Gorge Resource Management Plan (RG RMP) requires all roads and 10 trails on Public lands (135 miles) to be maintained to protect the environment. Roads authorized 11 by way of a right-of-way are required to be maintained by the holder. All other roads and trails 12 are maintained by the BLM. Due to the slightly reduced road and trail network and no change in 13 the limited budget to accomplish maintenance, more critical maintenance work would be 14 accomplished annually. Emergency repairs due to washouts and similar damage would create 15 less frequent budgetary problems for the field office. There would be fewer miles of roads that
- 16 should be maintained that would be neglected because of this situation.
- 17
- 18 Realty Authorizations would be slightly more likely to be impacted by the decisions of this plan,
- 19 where in the rare case that an authorized road will be closed to public travel and the holder would
- 20 be required to enter through a locked gate, and where an unauthorized users motorized use
- 21 becomes prohibited by the closure of a road.
- 22
- 23 Alternative C (Proposed Action): The Royal Gorge Resource Management Plan (RG RMP) 24 requires all roads and trails on Public lands (202 miles) to be maintained to protect the environment. Roads authorized by way of a right-of-way are required to be maintained by the 25 holder. All other roads and trails are maintained by the BLM. Due to the slightly reduced road 26 27 and trail network and no change in the limited budget to accomplish maintenance, more critical 28 maintenance work would be accomplished annually. Emergency repairs due to washouts and 29 similar damage would create less frequent budgetary problems for the field office. There would 30 be fewer miles of roads that should be maintained that would be neglected because of this 31 situation. 32
- 33 Realty Authorizations would be slightly more likely to be impacted by the decisions of this plan,
- 34 where in the rare case that an authorized road will be closed to public travel and the holder would
- 35 be required to enter through a locked gate, and where an unauthorized user's motorized use
- 36 becomes prohibited by the closure of a road.
- 37

38 RECREATION

- 39 Affected Environment: Overview
- 40 Recreational use within the planning area has increased significantly over the last fifteen years.
- 41 This increase can be attributed to population growth in Colorado (30.6% increase in population
- 42 from 1990 to 2000; 8.4% increase from 2000 to 2005). Approximately 3.5 million Colorado
- 43 Front Range residents live within a three hour drive of the planning area. Population growth
- 44 within Fremont, Chaffee, and Custer counties also has a direct impact on recreation use within
- 45 the planning area because many local residents and their families and friends recreate on public
- 46 lands near their homes. Fremont County population increased by approximately 47% from

1 1990-2005. For the same period, Chaffee County and Custer County populations increased by

- 2 33% and 92%, respectively.
- 3

4 Colorado Travel Year 2005 Longwoods International report on overnight travel and tourism, 5 which recorded why people visit Colorado, illustrates the importance of the outdoors and public 6 lands to the experience of Colorado visitors who cite mountains, wilderness, and lakes/rivers as 7 important elements of their vacation experience. Royal Gorge Bridge and Park, Salida, and 8 Buena Vista are among the most popular destinations for overnight pleasure trips within 9 Colorado's South Central Travel Region. The Arkansas River is a regional and national 10 recreation destination – primarily because of the popularity and variety of the whitewater boating opportunities. In recent years, the river has also become widely known as a destination for fly 11 fishing.

12 13

14 There are 37 developed recreation sites within the planning area; 21 of these sites are primarily

river access for boating, fishing and/or recreational placer mining. While visitor data for river 15

- 16 recreation and the use of developed recreation sites along the river is readily available, visitor
- 17 data for the majority of the public lands in the TMP area is very limited. Traffic counter data is
- available only from one location within the planning area (Texas Creek). BLM does estimate 18

19 visitor use on annual basis. In 2006, BLM estimated 351,396 visits to public lands in the

20 planning area that were not related to river recreation/access. Areas of concentrated visitor use

21 (non-river related) are the Texas Creek subunit, DeWeese Reservoir in the Custer County

22 subunit, Castle Gardens, Methodist Mountain and S Mountain in the Salida subunit, Temple 23 Canyon/Ecology Park and Grand Canyon Hills in the Grand Canyon Hills subunit, Bear Gulch in

24 the Grape Creek subunit, and Kerr Gulch in the Sangres Foothills subunit.

25 26 The increase in recreation use of the public lands throughout the TMP area has had a direct effect 27 on the condition of the roads and trails. Many roads and trails were constructed for or developed

28 for specific uses such as timber cutting, mining, range improvements, utility corridors, and 29 access to residential subdivisions. Most of these routes were not designed for the type and

30 amount of use that they are receiving from the recreating public. In popular areas, the rapid

increase in use has lead to an increase in user created routes. Without a designated system of 31

32 roads and trails, visitors are uncertain about what routes are open and available for their use and

33 are more likely to develop user created routes as well as use routes created by others. The

34 substantial increase in OHV use on public lands has impacted both resources and recreation

35 settings. Statewide, OHV registrations have increased an average of 18% annually since 1995. 36 In the local area, businesses selling OHVs actively market the public lands to their customers.

Mountain bike use has also increased in the TMP area, particularly around Salida. The increase 37

38 in recreation use has also been accompanied by an extension in the season of use - many of the

39 public lands in the planning area are snow free for most of the year increasing year round

- 40 recreation use.
- 41

42 Recreation Settings, Activities, Experiences, and Benefits in the Planning Area

The planning area provides a wide variety of recreation settings, opportunities, experiences, and 43

44 benefits for visitors, communities, and the environment. Proposed travel management decisions

45 must be evaluated for their impacts in achieving or sustaining recreation settings and providing

targeted opportunities, experiences, and benefits to visitors, communities, and the environment. 46

- 1 The Recreation Opportunity Spectrum (ROS) defines recreation settings, activities, and
- 2 experience opportunities. It classifies recreation environments along a continuum ranging from
- 3 primitive, low use to urban, high use. The ROS classes for the planning area were updated
- 4 recently to improve accuracy and consistency with RMP management objectives. The ROS
- 5 classes in the planning area (public, state, and private lands) include: Semi-Primitive Non-
- 6 Motorized (129,783 acres), Semi-Primitive Motorized (70,878 acres), Roaded Natural (246,948
- 7 acres), Rural (81,293 acres), and Urban (2,834 acres). The city of Salida and the town of Poncha
- 8 Springs are in the Urban class. There are no public lands in the Urban class. The only class not
- 9 represented in the TMP area is Primitive. Refer to Map 33 depicting the ROS classes in the
- 10 planning area.
- 11

12 The Browns Canyon, Big Hole, McIntyre Hills, and Grape Creek subunits are primarily

- 13 classified as Semi-Primitive Non-Motorized (SPNM). Badger Creek subunit also has a large
- 14 area in the SPNM class. Texas Creek, Crampton Mountain, and Grand Canyon Hills subunits
- 15 have smaller but substantial areas in the Semi-Primitive Non-Motorized class. Salida, Sangres
- 16 Foothills, West McCoy Gulch, and Red Gulch subunits have much smaller areas in this setting
- 17 but some of these areas connect with the larger SPNM areas in other subunits. The Road Gulch
- 18 and Custer County subunits have very small areas in the SPNM class, and these areas connect
- 19 with larger SPNM areas in McIntyre Hills and Grape Creek, respectively. SPNM areas have
- 20 predominantly naturally appearing landscapes. SPNM areas provide visitors with opportunities
- 21 for non-motorized activities in a backcountry setting hiking, backpacking, hunting, fishing,
- boating (non-motorized), and wildlife observation. Mountain biking is permitted outside of
 WSA boundaries. Contacts with other people tend to be infrequent and group sizes small.
- WSA boundaries. Contacts with other people tend to be infrequent and group sizes small.
 Evidence of use such as fire rings and dispersed campsites may be common but developed
- 24 Evidence of use such as the migs and dispersed campsites may be common out developed
 25 facilities are few. Experiences that these areas provide include access to back country recreation,
- solitude, risk taking adventure, spending time with friends and families, and enjoying nature.
- 27 Personal benefits to visitors include improved physical fitness and self confidence, stress relief,
- 28 greater self-reliance, enhanced environmental awareness, and improved outdoor knowledge and
- 29 skills. SPNM areas in Browns Canyon and Grand Canyon Hills (the Royal Gorge) provide direct
- 30 and substantial economic benefits to local communities because of their importance to river-
- 31 based recreation tourism. Big game hunting in SPNM areas also provides economic benefits to
- 32 local communities.
- 33

34 Public lands in the Semi-Primitive Motorized (SPM) class are scattered throughout the planning 35 area. The Badger Creek, Sangres Foothills, and Texas Creek subunits have more lands in the 36 SPM class than the other subunits. Areas in the SPM class have a naturally-appearing landscape 37 except for primitive roads. Recreation opportunities are based on both motorized and non-38 motorized activities in a middle country setting. Contacts with other people are more frequent 39 and group size may be larger than in SPNM. High use areas (such as campsites, trailheads) show 40 signs of frequent use. Facilities may include maintained and marked trails, simple trailhead developments, signs, and basic toilets. Experiences that these areas provide include enjoying 41 diverse recreation opportunities, developing skills and abilities, enjoying nature, spending time 42 with family and friends, and participating in group outdoor events. Personal benefits to visitors 43 44 include stress relief, improved outdoor skills, knowledge and self-confidence, and enhanced 45 environmental awareness. SPM areas in the Browns Canyon and Salida subunits provide direct

46 and substantial economic benefits to local communities because of their importance to river-

1 based recreation tourism. The SPM areas in Texas Creek and Grand Canyon Hills subunits

2 provide economic benefits locally related to motorized recreation tourism – some of these

3 benefits derive from special events like Motorcycle Trials competitions. Big game hunting in

- 4 SPM areas also provides economic benefits to local businesses and communities.
- 5

6 Areas in the Roaded Natural (RN) class dominate the planning area - this includes most of the 7 private land in the planning area. The public lands in the Roaded Natural class are often adjacent 8 to communities, rural residential subdivisions and along improved roads. Areas in the RN class 9 have natural landscapes that are partially modified by roads and utility lines. Recreation 10 opportunities are based on motorized and non-motorized activities in a front country setting. Contacts with other people are common, and large groups may be present. Improved facilities 11 12 such as developed campsites and restrooms may be present. High use areas (such as travel 13 routes, campsites, trailheads) show signs of frequent use. Experiences that these areas provide 14 include enjoying diverse recreation opportunities, developing skills and abilities, enjoying nature, spending time with family and friends, and participating in group outdoor events. 15 16 Personal benefits to visitors include physical fitness, stress relief, improved outdoor skills, knowledge and self-confidence, and enhanced environmental awareness. Public lands in the RN 17 class provide benefits to local communities because they are easily accessible to residents for 18 19 recreation. These are often areas with highest levels of user conflict and resource damage. 20 21 Areas in the Rural class are located along the primary highways in the planning area. These 22 areas are natural landscapes substantially modified by agricultural or industrial development.

23 Recreation opportunities are based on motorized access from primary highways but they include

24 significant motorized and non-motorized opportunities. Much of the Arkansas River (except for

25 Browns Canyon and the Royal Gorge) is included in the Rural class because of proximity to US

26 50; the recreation opportunities available there are primarily non-motorized such as rafting,

kayaking, fly fishing, picnicking, and camping. People seem to be generally everywhere and

groups can be quite large (26-50 people). Facilities are modern and include boat ramps,
 campgrounds, group shelters, and interpretive exhibits. Experiences that these areas provide

30 include enjoying diverse recreation opportunities, developing skills and abilities, enjoying

- 31 nature, learning about the environment, spending time with family and friends, and participating
- 32 in group outdoor events. Personal benefits to visitors include physical fitness, stress relief,

33 improved outdoor skills, knowledge and self-confidence, and enhanced environmental

34 awareness. Rural settings along the Arkansas River provide direct and substantial economic

35 benefits to local communities because of their importance to river-based recreation tourism. The

36 three scenic byways in the TMP planning area (Gold Belt Tour, Collegiate Peaks, and Frontier

37 Pathways) are also included in the Rural class, providing additional recreation benefits to visitors

- 38 and economic benefits to communities.
- 39

40 <u>Commercial and Special Recreation Uses</u>

- 41 BLM issues Special Recreation Permits (SRPs) to authorize and manage commercial and
- 42 competitive recreation uses and organized group events on public lands and waters. In FY2006,
- 43 approximately 27 BLM Special Recreation Permits were active in the TMP area. These permits
- 44 were issued for a variety of activities and events including camping, rock climbing, ATV tours,
- 45 hunting (big game and mountain lion), trials motorcycle competitions, a mountain bike race, and

- 1 a running event. The benefits and impacts of these activities are evaluated by BLM through the
- 2 NEPA process when permit applications are received.
 - 3

4 Colorado State Parks (Arkansas Headwaters Recreation Area) authorizes and manages all

- 5 commercial recreation and special uses directly related to the Arkansas River. There were 86
- 6 active commercial permits in 2006: 55 Boating, 15 Walk and Wade Fishing, 11 Photo/Imaging,
- 7 and 5 Shuttle Services.
- 8
- 9 The recreation opportunities provided by commercial and special recreation uses produce
- 10 important benefits for visitors, businesses, communities, and the environment. The road and trail
- system on public lands is essential to all of these commercial and special recreation uses, and the
- 12 impacts of travel management decisions to these activities was considered in developing the
- 13 alternatives. Each of the alternatives would allow the activities and events currently authorized
- 14 by SRPs to continue. Specific alternatives would offer benefits to specific activities authorized
- by SRP, and this is discussed under each alternative. In all cases, new SRP applications would
- be evaluated through the NEPA process to determine conformance with travel managementdecisions.
- 17 d 18
- 19 <u>Relevant Planning and Guidance</u>
- 20 Travel management planning is closely linked to recreation planning and management. Below is
- a brief description of the existing policies and recreation management decisions relevant to this
- 22 planning effort.
- 23
- 24 Royal Gorge Resource Management Plan (RMP)—The Arkansas River Travel Management Plan affects two Recreation Management Areas identified in the RMP - the Arkansas River 25 26 Special Recreation Management Area (SRMA) and the Royal Gorge Extensive Recreation Management Area (ERMA). The RMP directs that the Arkansas River SRMA be managed to 27 28 provide upland recreational opportunities that complement the water-based opportunities. The 29 RMP directs that the Royal Gorge ERMA be managed for a variety of dispersed recreation 30 opportunities. By BLM policy, SRMAs are managed to provide specific, structured recreation opportunities, experiences, and benefits geared to an identified primary market (destination, 31 32 community or undeveloped). In ERMAs, management is custodial in nature and addresses activity opportunities, visitor safety, user conflicts, and resource protection - ERMAs are not 33
- 34 managed for *structured* recreation opportunities.
- 35
- Arkansas River Recreation Management Plan—This plan focuses on recreation management
 on the river and public lands immediately adjacent to the Arkansas River between Leadville and
 Dealer Dealer
- 38 Pueblo Reservoir. The vision statement for the plan states that the area "...shall be managed to 39 emphasize its natural resources, resource sustainability and the standards for public land health,
- 40 recognizing and respecting private property, while embracing numerous recreational,
- 41 educational, and commercial activities." There are many actions in this plan targeted at river-
- 42 related recreation; none of the actions have a direct impact to the upland recreation that is the
- 43 focus of this travel management plan. Some of the actions within the plan do indirectly affect
- 44 upland recreation in particular, increasing visitor education on land use ethics and visitor
- 45 information regarding upland recreation opportunities; developing new facilities and acquiring
- 46 new access along the river corridor that would link to upland areas.

Recreation Management Guidelines to Meet Public Land Health Standards on BLM Lands in 1 2 Colorado—Recreation planning and implementation must also conform to the Standards for 3 Public Land Health. These guidelines outline methods that can be used by managers to meet the 4 Standards for Public Land Health. Refer to <u>Appendix 11</u> for the text of the guidelines. 5 6 *Other*—The development of this travel plan should follow the strategy set forth in BLM's 7 National Management Strategy for Motorized Off-highway Vehicle Use on Public Lands 8 (January 2001) and The BLM's Priorities for Recreation and Visitor Services (May 2003). 9 10 **Environmental Consequences/Mitigation:** 11 12 No Action Alternative (Current Use): Under this alternative, OHV use would be limited to 13 existing roads and trails. To manage recreation use under this alternative, BLM would 14 implement and maintain closures on all existing user created and closed routes. This would involve a variety of actions including posting closure signs and installing physical barriers. 15 16 Travel management signs would not be installed on existing routes indicating what types of 17 travel are permitted although maps of existing routes would be made available to visitors. Every existing route would be open to any type of travel that the route could accommodate except in 18 19 WSAs where signs would indicate prohibitions on motorized and mechanized uses. Cross-20 country (off trail) mountain bike, horse, and foot travel would be permitted. This approach to recreation and travel management would be difficult for BLM to implement and confusing for 21 22 visitors. It would require constant monitoring to ensure that closures are maintained, new user 23 created routes are eliminated, and resource damage and user conflicts are adequately assessed. 24 This system would be confusing to visitors because of the ambiguity regarding which routes are 25 existing, and therefore open to use, especially when closures are breached and signs are 26 vandalized. 27 28 Under the No Action Alternative, OHV Open Areas in the Badger Creek, Texas Creek, and 29 Grand Canyon Hills subunits would be maintained. Recreation management would be further 30 complicated in OHV Open Areas because travel off of existing routes is permitted as long as it does not result in resource damage. This would require a level of management and monitoring 31 32 that would be difficult to achieve, particularly as use continues to increase. 33 34 For recreation uses authorized by Special Recreation Permit, this alternative would allow the 35 activities and events currently authorized to continue. It would provide the highest level of

- 36 motorized access and would enhance opportunities for commercial outfitters offering motorized
- 37 recreation activities. It would not enhance opportunities for commercial outfitters offering non-
- 38 motorized activities (hunting, mountain biking, horseback riding, and hiking).
- 39
- 40 The No Action Alternative would be compatible with the recreation settings, provide targeted
- 41 recreation activity opportunities, experiences, and benefits, and help to achieve recreation related
- 42 Desired Future Conditions (DFCs) in the **Browns Canyon, Red Gulch, Crampton Mountain**
- 43 and Custer County subunits. However, in several other subunits, it would be difficult for BLM
- 44 to achieve or sustain recreation settings, provide targeted activity opportunities, experiences, and
- 45 benefits to visitors, communities, and the environment, and achieve recreation related DFCs.
- 46 Details for these subunits are provided below.

1 In the **Salida subunit**, this alternative would be compatible with the recreation settings but it 2 would not provide targeted recreation opportunities, experiences and benefits. This alternative 3 would be unresponsive to the desire of many local residents because it would reduce recreation 4 opportunities on public lands that are adjacent to Salida and Poncha Springs. The proposal 5 brought forward by the Salida Mountain Trails Park Committee would not be considered. User 6 conflicts would likely intensify as all users have fewer routes available and the quality of 7 recreation experiences would decrease. Because of the increased amount of mountain bike use 8 in this subunit, allowing mountain bike use to continue off of existing routes is likely to result in 9 resource damage and user conflicts. Intensive recreation management of public lands around 10 Castle Gardens, Methodist Mountain, and S Mountain would be necessary to enforce closures and prevent the proliferation of user created routes and other illegal activities (trash dumping, 11 12 underage drinking parties, etc.). The No Action Alternative also does not address the impact of 13 target shooting. Concentrated target shooting in certain areas of the subunit is incompatible with the other recreation uses occurring there. It is a safety concern and contributes to trash dumping 14 and littering. This alternative would not help achieve DFCs to reduce impacts from target 15 16 shooting, littering, and trash dumping and to provide a well-managed system of designated roads 17 and trails that serve a variety of motorized, mechanized, and non-motorized travel uses. 18 19 In the **Badger Creek subunit**, the No Action Alternative is compatible with the recreation

- settings but the targeted recreation opportunities, experiences and benefits would not be
 provided. Management of the existing OHV Open Area, especially in light of increasing
- 22 motorized use, would require intensive management and monitoring by BLM. User conflicts are
- 23 likely to increase and the quality of the recreation experience decrease. This alternative also
- 24 does not address the impact of target shooting. Target shooting in this area is incompatible with
- 25 the other recreation uses occurring here. It is a safety concern and contributes to trash dumping
- and littering. The proposal endorsed by the Rocky Mountain Trials Association to establish an
- area at Turkey Rock for year round use by trials motorcycle riders would not be considered.
- 28 This alternative would not help achieve DFCs to reduce impacts from target shooting, littering,
- and trash dumping and to provide a well-managed system of designated roads and trails that
- 30 serve a variety of motorized, mechanized, and non-motorized travel uses.
- 31

32 In the **Sangres Foothills subunit**, the No Action Alternative is generally compatible with the 33 recreation settings. However, maintaining these settings would be better achieved with a system 34 of designated routes because of the heavy use of certain areas (Kerr Gulch) and the growing use 35 of the entire area by local residents. The proliferation of spur routes and user created routes in Wellsville, Kerr Gulch and Falls Gulch adversely affect certain recreation opportunities such as 36 37 big game hunting. This alternative would not assist in achieving the DFC to provide a well-38 managed system of designated roads and trails that serve a variety of motorized, mechanized, 39 and non-motorized travel uses.

- 40
- 41 In the **Texas Creek subunit**, the OHV Open designation in the majority of this subunit is not
- 42 compatible with sustaining the recreation settings, providing targeted recreation opportunities,
- 43 experiences, and benefits, and achieving recreation related DFCs. The Open designation
- 44 prompted BLM to take action in 2000 to reduce unacceptable resource damage and user conflicts
- 45 The OHV Open area also includes some areas in the SPNM class which are incompatible with
- this non-motorized recreation setting. Although there are no existing routes (except for those

1 closed under previous NEPA actions) in the SPNM areas, the OHV Open designation would

- 2 allow for motorized use off of existing routes. In addition to these conflicts, changing the current
- 3 management of this area where routes are signed and designated for specific types of travel to a
- 4 system where only closed routes are signed would confuse visitors and lead to an increase in
- 5 resource damage and user conflicts. Under this alternative, the proposal brought forward by the
- 6 Colorado Motorcycle Trail Riders Association (CMTRA) for additional ATV and motorcycle
- 7 trails would not be considered. The proposal endorsed by the Rocky Mountain Trials
- 8 Association to establish an area in Reese Gulch for year round use by trials motorcycle riders 9
- would not be considered. This alternative would provide economic benefits to local businesses

10 (restaurants, grocery stores) and motorized recreation service providers (motor sports stores, tour 11 operators).

12

13 The southwest side of the **Big Hole subunit** is included in the OHV Open category (contiguous

- 14 with the Open area in Texas Creek). Most of the OHV Open area in Big Hole is in the SPNM
- class, which is incompatible with this non-motorized recreation setting. Although there are no 15
- 16 existing routes in the SPNM area and the terrain is extremely rugged, the OHV Open designation
- 17 would allow for motorized use in this area. This is incompatible with the DFC to provide
- 18 opportunities for non-motorized recreation uses in a quiet and remote backcountry setting. Other
- 19 than the OHV Open designation in part of this subunit, this alternative would maintain the
- 20 recreation settings, opportunities, experiences and benefits.
- 21

22 In the West McCoy Gulch subunit, Fremont County Road 37 is designated as open to ATVs by 23 Fremont County. This designation encourages ATV use on this road and has resulted in more 24 spur routes and extension of existing routes as ATV riders seek additional recreation 25 opportunities. The continued proliferation of spur routes and user created routes would 26 adversely affect certain recreation opportunities such as big game hunting and make it more 27 difficult to maintain the SPNM setting in part of the subunit. This alternative would not help to

- 28 achieve the recreation related DFC for this subunit because it would not provide visitors with a
- 29 managed system of designated roads and trails that serve a variety of motorized, mechanized,
- 30 and non-motorized travel uses.
- 31

32 In the Grape Creek subunit, the No Action Alternative would generally sustain the recreation 33 settings, provide the targeted recreation opportunities, experiences and benefits, and help achieve 34 the DFC to provide opportunities for recreation uses that are compatible with maintaining the 35 quiet and pristine qualities of the WSA and ACEC. This alternative does not address the need to 36 resolve access issues in the Temple Canyon Park area and eliminate unnecessary Administrative 37 Access routes; both of these actions would enhance recreation settings and opportunities.

- 38
- 39 In the Grand Canyon Hills subunit, the OHV Open designation is not compatible with
- 40 sustaining the recreation settings and providing targeted recreation opportunities, experiences,
- and benefits. Part of the OHV Open Area is in the SPNM setting that includes YMCA Mountain 41
- and the Temple Canyon portion of Grape Creek. Although there are no existing motorized routes 42
- in the SPNM area and the terrain is rugged, the OHV Open designation would allow for 43
- 44 motorized use in this area. Some of the existing routes are spur routes that provide minimal
- 45 recreation opportunities and benefits but are an on-going management problem for BLM due to
- trash dumping and other illegal activities. The No Action Alternative would not help to achieve 46

1 DFCs that visitors travel via a designated system of roads and trails that serve a variety of

2 motorized, mechanized, and non-motorized travel uses and that impacts from dumping trash,

3 target shooting, off-road vehicle play, unauthorized trail construction, and other illegal uses are

- 4 no longer evident.
- 5

6 In the McIntyre Hills and Road Gulch subunits, the No Action Alternative would not be 7 compatible with recreation settings, would not provide targeted recreation opportunities and 8 benefits, and would not help achieve recreation related DFCs. The public lands in the Lookout 9 Mountain and Poverty Mountain area border the McIntyre Hills WSA. A continual management 10 issue for BLM is the extension of existing motorized routes into the WSA from Lookout Mountain and Poverty Mountain. Limiting OHVs to existing routes (rather than designated 11 12 routes) in the Road Gulch subunit adversely affects the recreation setting, opportunities, and 13 benefits in the McIntyre Hills subunit. 14

15 Cumulative impacts to Recreation (No Action Alternative): Under this alternative, it would be

16 difficult for BLM to achieve or sustain recreation settings and provide targeted activity

17 opportunities, experiences, and benefits to visitors, communities, and the environment in most of

- 18 the TMP area.
- 19

20 Summary of Mitigation (No Action Alternative): Post signs to define the boundaries of OHV

Open Areas in Badger Creek, Texas Creek, and Grand Canyon Hills subunits. 21

22

23 Alternative A: In general, a system of designated roads and trails is more favorable to 24 sustaining recreation settings and providing targeted recreation opportunities and benefits than the No Action Alternative. This alternative would also restrict mechanized vehicles such as 25 26 bicycles to designated roads and trails and restrict driving off roads to park, camp, and for other 27 legitimate purposes to a maximum distance of 100 feet from a designated route. These actions 28 would also help sustain recreation settings - particularly in areas with high levels of use. This alternative would provide two OHV Open areas at Turkey Rock and Reese Gulch but they would 29 30 be small in size, and use would be restricted to trials motorcycles. They are also located in areas 31 where motorcycle trials competitions (under BLM permit) have been held for many years. This 32 would provide targeted recreation opportunities and benefits while sustaining the setting.

33

34 Alternative A is generally compatible with the recreation settings in the TMP area; however,

35 there are specific areas where this is not the case and more detail is provided in the specific

36 subunit discussions that follow. Most routes with legal public access would be open to

37 motorized uses, and some user created routes would be designated for use by OHVs and

38 mountain bikes. Some new routes would be conditionally approved for construction under this

39 alternative. In several areas within the SPNM setting, unnecessary Administrative Access routes

40 would be closed which would help sustain the back country setting.

41

42 For recreation uses authorized by Special Recreation Permit, this alternative would allow the

activities and events currently authorized to continue. It would enhance opportunities for 43

44 commercial outfitters that provide ATV, mountain bike, and horseback tours because new ATV,

- mountain bike, and horse routes would be designated and developed over time. This would also 45
- offer benefits to individuals seeking opportunities for guided ATV, mountain bike, and 46

1 horseback tours. This alternative would potentially benefit outfitters and their clients that hunt

2 mountain lions because driving roads to track lions is a common practice so greater motorized

3 access increases chances of success. This alternative would potentially impact opportunities for

- 4 big game (elk and deer) hunting outfitters and their clients by increasing motorized access,
- overall recreation use, and disturbance to elk and deer thereby negatively affecting their clients
 hunting experience and success.
- 7

8 In the **Browns Canyon subunit**, Alternative A would be compatible with the recreation settings,

9 provide targeted recreation opportunities, experiences and benefits, and help achieve recreation

10 related DFCs. It would help maintain the SPNM setting on the west side of the Arkansas River

better than the Current Use Alternative because short motorized spur routes that lead into this

- area would be closed. It would allow bicycle use on the trail that runs from Hecla Junction alongthe west side of the Arkansas River.
- 14

15 In the **Salida subunit**, Alternative A would be compatible with the recreation settings, provide 16 targeted recreation opportunities, experiences and benefits, and help achieve recreation related 17 DFCs. This alternative would respond to the desire of many local residents and community groups for enhanced non-motorized recreation opportunities adjacent to Salida and Poncha 18 19 Springs. To mitigate resource concerns, new routes would be constructed to meet accepted 20 standards, and user created routes that would become designated routes under this alternative would be reconstructed as necessary and maintained regularly. Intensive management of the trail 21 22 system in partnership with local volunteers and community groups would be necessary to 23 provide the targeted recreation opportunities, experiences and benefits and to address user 24 conflicts. Illegal activities would decrease such as trash dumping, underage drinking parties, and the proliferation of user created routes would decrease. This alternative would produce benefits 25 26 to the local economy by enhancing hiking and mountain biking opportunities close to local 27 communities. These opportunities would be particularly attractive to residents and visitors 28 during the winter and spring when hiking and mountain biking opportunities on the National 29 Forest are limited due to snowpack. 30 31 In the **Badger Creek subunit**, Alternative A would be compatible with the recreation settings,

32 provide targeted recreation opportunities, experiences and benefits, and help achieve recreation

- 33 related DFCs. Reducing the size and restricting the use of the OHV Open Area to Turkey Rock
- 34 would sustain the recreation setting and still provide recreation opportunities to the trials
- motorcycle riders who have traditionally used this area. An agreement with the Rocky Mountain
 Trials Association to assist with monitoring and maintaining the area would assist in
- 30 Thats Association to assist with monitoring and maintaining the area would assist in 37 management. Target shooting would be prohibited in the Turkey Rock area under this
- 38 alternative. This would address safety concerns, user conflicts, dumping and littering in this
- 39 area. Dispersed target shooting would be allowed in the rest of the subunit.
- 40

41 In the **Sangres Foothills subunit**, Alternative A would be compatible with sustaining the

- 42 recreation settings and help achieve recreation related DFCs. It reduces the number of spur
- 43 routes and user created routes in Kerr Gulch and Falls Gulch that adversely affect certain
- 44 recreation opportunities such as big game hunting. It would maintain motorized access for
- 45 hunting and dispersed camping and would enhance ATV riding opportunities in Kerr Gulch.
- 46

In **Red Gulch subunit**, Alternative A would be compatible with the recreation settings, provide
 targeted recreation opportunities, experiences and benefits, and help achieve recreation related
 DFCs. Motorized recreation use would likely increase in this subunit with the expansion of
 opportunities for ATV and motorcycle riders on the west side of the Texas Creek subunit (see

5 6 below).

7 In the **Texas Creek subunit**, reducing the size and restricting the OHV Open designation to 8 Reese Gulch would help to sustain the recreation settings and provide targeted recreation 9 opportunities, experiences, and benefits; however, maintaining any OHV Open area (even a 10 restricted one) in the Texas Creek subunit with current and projected increases in visitor use would require intensive management and monitoring. In general, Alternative A would enhance 11 12 motorized recreation opportunities by re-opening closed routes that provide longer rides, greater 13 opportunities for loops, and more miles of single track. It would also re-open the route that 14 connects Red Gulch with the entire Texas Creek trail system - increasing opportunities for ATVs and motorcycles. This alternative would help achieve the recreation related DFC for this subunit 15 16 by providing numerous opportunities throughout the subunit for motorized recreation uses, including designated routes of varying levels of difficulty for users of 4WDs, ATVs, and 17 motorcycles. This alternative would adversely affect the SPNM recreation setting in the Long 18 19 Gulch and East Gulch areas by re-opening the routes on the north and west side of Table 20 Mountain and in the East Gulch area. Intensive management of the Texas Creek trail system in 21 partnership with volunteers and user groups would be necessary to sustain the recreation settings 22 and provide the targeted recreation opportunities, experiences and benefits. This alternative 23 would produce benefits to motor sports stores, restaurants, and other businesses in the local area 24 and region that provide goods and services to motorized recreationists. 25

In the **Big Hole subunit**, closing the OHV Open area would sustain the recreation setting and provide backcountry recreation opportunities and benefits; however, the proposed motorcycle trail would adversely impact the SPNM setting and backcountry recreation opportunities and benefits. It would not help achieve the DFC to provide opportunities for non-motorized recreation uses in a quiet and remote backcountry setting.

31

32 In the West McCoy Gulch subunit, Alternative A would sustain the recreation setting and provide targeted recreation opportunities and benefits by expanding designated equestrian and 33 34 foot trails in SPNM setting. It also closes short spur routes while maintaining longer routes for 35 motorized recreation and access for hunting. It would help achieve the DFC for a managed system of designated roads and trails that serve a variety of motorized, mechanized, and non-36 37 motorized travel uses where some areas are managed for hiking, horseback riding, and mountain 38 biking in quiet and remote settings and other areas provide opportunities for motorized 39 recreation.

40

41 In the **McIntyre Hills** and **Road Gulch subunits**, Alternative A would sustain the recreation

42 settings and provide targeted recreation opportunities and benefits by expanding recreation

43 opportunities on designated trails for equestrians and hikers in McIntyre Hills WSA, Turkey

44 Gulch and Heck Gulch. This alternative would also help maintain the backcountry setting in the

- 45 McIntyre Hills WSA by reducing motorized access along the WSA boundary in the Lookout
- 46 Mountain and Poverty Mountain areas. It would help achieve recreation related DFCs.

1 Opportunities for big game and turkey hunting would be maintained because reasonable access

- 2 would be available. The closure of spur routes would reduce illegal trash dumping along Road 3 Gulch.
- 4

5 In the Grape Creek subunit, Alternative A would eliminate unnecessary Administrative Access

6 routes and address the need to resolve access issues in the Temple Canyon Park area; both of

7 these actions would enhance recreation settings and opportunities and help achieve the recreation 8 related DFCs.

9

10 In the Grand Canyon Hills subunit, changing the OHV Open designation to limited to designated routes area would be compatible with sustaining the recreation settings, provide 11 12 targeted recreation opportunities, experiences, and benefits, and help achieve recreation related 13 DFCs. It would also close spur routes in Grand Canyon Hills and near Temple Canyon where illegal dumping is a problem. On the public lands adjacent to the Ecology Park, the designation 14 of both existing and user created routes for mountain bike, equestrian and hiking uses would 15 16 provide recreation opportunities that the public desires.

17

18 In the Crampton Mountain subunit, Alternative A would be compatible with recreation 19 settings and would enhance recreation opportunities for equestrians and hikers by designating a 20 trail in the Cottonwood Creek area. It would also enhance opportunities for all types of 21 recreation in the area east of Crampton Mountain by providing motorized access to a large area 22 that has been largely inaccessible to the public due to a locked gate near the boundary of a 23 private land in-holding. It would also provide additional motorized access and recreation 24 opportunities on Crampton Mountain itself by reopening a closed route. This helps achieve the 25 DFC to provide opportunities for hiking, horseback riding, and mountain biking in quiet and 26 remote settings in some parts of the subunit, and opportunities for motorized recreation uses in 27 other parts of the subunit.

28

29 In the **Custer County subunit**, Alternative A would not affect recreation settings or

30 opportunities because it would close only small segments of road on fragmented public land just 31 north of Silver Cliff. These lands do not offer significant recreation opportunities. It would help achieve the DFC to provide access for dispersed recreation activities on public land.

32

33 34 Cumulative impacts to Recreation (Alternative A): This alternative would achieve or sustain 35 recreation settings and provide targeted activity opportunities, experiences, and benefits to

visitors, communities, and the environment in the majority of the TMP area. It would not 36

37 achieve or sustain recreation settings and provide targeted activity opportunities, experiences,

38 and benefits to visitors, communities, and the environment in portions of the Texas Creek

- 39 subunit. Over time, the areas in the SPNM (back country) setting in the Texas Creek subunit
- 40 would change to the SPM (middle country) setting because of motorized recreation use. In the
- Big Hole subunit, if the proposed motorcycle trail is constructed, the SPNM (back country) 41
- setting would be changed to SPM (middle country) and this portion of the subunit would not 42
- provide backcountry recreation opportunities and benefits because of motorized recreation use. 43
- 44 This alternative would require intensive management of public lands in the Salida, Badger
- 45 Creek, and Texas Creek subunits to achieve or sustain recreation settings and provide targeted
- activity opportunities, experiences, and benefits to visitors, communities, and the environment. 46

1 Summary of Mitigation (Alternative A):

Work with Salida Mountain Trails Park Committee, other community groups, and individuals to
 manage the trail system in the Salida subunit.

5

2

- Develop an agreement with the Rocky Mountain Trials Association to assist with monitoring and
 maintaining the OHV Open Areas at Turkey Rock and Reese Gulch.
- 8
- 9 Develop partnerships with user groups to assist with management of the Texas Creek trail 10 system.
- 11

12 <u>Alternative B</u>: As in Alternative A, a system of designated roads and trails is more favorable to 13 sustaining recreation settings and providing targeted recreation opportunities and benefits than 14 the No Action Alternative. Alternative B would not designate any areas in the OHV Open 15 category. More of the existing roads and trails and user created routes would be closed to OHVs 16 and mountain bikes under this alternative as compared to the No Action Alternative and 17 Alternative A. New OHV or mountain bike trails would not be constructed although some user 18 created routes would become designated routes. Mechanized vehicles such as bicycles would be 19 restricted to designated roads and trails, and driving off roads to park, camp, and for other 20 legitimate purposes would be restricted to a maximum distance of 100 feet from a designated 21 route. Target shooting would not be restricted within the TMP area – the impacts of this are

- 22 addressed in the Badger Creek subunit discussion below.
- 23

For recreation uses authorized by Special Recreation Permit, Alternative B would allow the activities and events currently authorized to continue. It would benefit commercial big game (elk and deer) outfitters by reducing human contact with these species by closing many existing motorized routes. This would enhance the experience of their clients and potentially increase success in tracking and hunting elk and deer. This alternative would potentially impact outfitters

and their clients hunting mountain lions because it would reduce their opportunities to track and

- 30 hunt lions from the roads.
- 31

32 Alternative B is generally compatible with the recreation settings in the TMP area; however,

33 there are specific areas where this alternative would change the recreation setting and would not

34 provide targeted recreation opportunities, experiences, and benefits. More detail is provided in

35 the specific subunit discussions below. In the Browns Canyon and Custer County subunits,

the impacts of this alternative are the same as Alternative A.

37

38 In the **Salida subunit**, Alternative B would be compatible with the recreation settings and it

39 would provide targeted recreation opportunities, experiences and benefits; however, not to the 40 extent of Alternative A. It would assist in achieving recreation-related DFCs. This alternative

41 would be somewhat responsive to the desire of local residents and community groups for

42 enhanced non-motorized recreation opportunities adjacent to Salida and Poncha Springs because

43 it would provide some additional opportunities for bicycling, equestrian and hiking uses – mostly

44 on user created routes. It would not provide for the construction of new trails. To mitigate

45 resource concerns, user created routes that become designated routes under this alternative would

46 be reconstructed as necessary and maintained regularly. Under this alternative, illegal activities

1 would decrease such as trash dumping, underage drinking parties, and the proliferation of user

- 2 created routes would decrease. Management of the trail system in partnership with local
- 3 volunteers and community groups would be necessary to provide the targeted recreation
- 4 opportunities, experiences and benefits and to address user conflicts. This alternative would
- 5 produce some limited benefits to the local economy by enhancing hiking and mountain biking
- 6 opportunities close to local communities.
- 7 8 In the **Badger Creek subunit**, Alternative B would be compatible with the recreation settings 9 and provide some of the targeted recreation opportunities, experiences and benefits. Removing 10 the OHV Open designation would sustain the recreation settings; however, it would not provide the recreation opportunities and benefits to trials motorcycle riders who have traditionally used 11 12 this area. This alternative would not prohibit target shooting in the Turkey Rock area. This 13 would be incompatible with the other recreation uses and would not address concerns related to 14 safety, trash dumping and littering. It would not help achieve the DFC to reduce impacts from target shooting, littering, and trash dumping. 15
- 16

17 In the **Red Gulch subunit**, Alternative B would be compatible with the recreation settings but 18 would provide fewer motorized recreation opportunities than Alternatives A and C. It would not 19 provide a connection for motorized recreation between Red Gulch and Texas Creek. It would

- 20 help to achieve recreation related DFCs.
- 21

22 In the **Texas Creek subunit**, Alternative B would be compatible with the recreation settings but 23 would provide fewer motorized recreation opportunities and associated benefits than Alternatives 24 A and C. By reducing motorized recreation opportunities, it would not assist in meeting the 25 recreation related DFC for this subunit. Changing the OHV Open designation to designated 26 routes would enhance the recreation settings although it would provide fewer opportunities and 27 benefits to those seeking off route challenges. This alternative would sustain SPNM recreation 28 setting in the Long Gulch and East Gulch areas by maintaining existing route closures. This 29 alternative would produce more limited benefits to the businesses that serve motorized 30 recreationists as compared to the other Alternatives.

31

32 In the **Big Hole subunit**, closing the OHV Open area would sustain the recreation setting and

33 provide backcountry recreation opportunities and benefits. It would also help to achieve the

34 DFC to provide opportunities for non-motorized recreation uses in a quiet and remote
 35 backcountry setting.

36

In the Crampton Mountain subunit, Alternative B would reduce motorized access in the Soapy Hill and Crampton Mountain areas. This would not provide targeted recreation opportunities and benefits to visitors such as big game hunters because of the reduction in motorized routes that provide access to a relatively large and otherwise inaccessible area of public land in the southern part of the subunit. Also, this would shift the recreation setting in this area from SPM to SPNM.

- 42 This alternative would not enhance recreation opportunities for equestrians and hikers because a
- 43 new trail would not be designated in the Cottonwood Creek area. This alternative would only
- 44 minimally achieve the DFC to provide opportunities for hiking, horseback riding, and mountain
- 45 biking in quiet and remote settings in some parts of the subunit, and opportunities for motorized
- 46 recreation uses in other parts of the subunit.

1 In the **Sangres Foothills subunit**, Alternative B would be compatible with sustaining the 2 recreation settings except in the Wellsville area. By eliminating most motorized recreation near 3 Wellsville, the SPM setting would shift to SPNM. In Kerr Gulch, it would reduce the number of 4 spur routes and user created routes - particularly along the lower part of the road. It would 5 reduce opportunities for dispersed camping and motorized recreation in the upper part of Kerr Gulch near the National Forest boundary. In Falls Gulch, the only one designated motorized 6 7 route would be the main road; this would reduce access for big game hunting. This alternative 8 would assist in achieving the DFC to provide a well-managed system of designated roads and 9 trails that serve a variety of motorized, mechanized, and non-motorized travel uses. 10 11 In the West McCoy Gulch subunit, all motorized routes (except for 3 short spurs) would be 12 closed. This would change the setting on the west side of the subunit from SPM to SPNM. 13 Alternative B would not enhance recreation opportunities for equestrian and hiking use on 14 designated trails. Because it substantially limits motorized travel and new non-motorized routes, it would only partially assist in achieving the DFC for a managed system of designated roads and 15 16 trails that serve a variety of motorized, mechanized, and non-motorized travel uses where some 17 areas are managed for hiking, horseback riding, and mountain biking in quiet and remote settings and other areas provide opportunities for motorized recreation. Suggested mitigation for this 18 19 alternative: Request Fremont County to prohibit ATV use on the county road since no recreation 20 motorized opportunities would be available on adjacent public lands. 21 22 In the **McIntyre Hills subunit**, the recreation setting would be sustained. Alternative B would 23 slightly enhance recreation opportunities for equestrian and hiking use on designated trails. It 24 would assist in achieving recreation related DFCs. 25 26 In the Road Gulch subunit, the closure of existing routes next to the McIntyre Hills WSA 27 boundary in the Poverty Mountain area would help maintain the SPNM setting in the WSA. 28 Recreation opportunities that require motorized access into Turkey Gulch and Likely Gulch

would be reduced; however, recreation opportunities for equestrians and hikers would beenhanced in Turkey Gulch. This alternative would assist in achieving recreation related DFCs.

31

32 In the **Grand Canyon Hills subunit**, Alternative B would reduce motorized recreation

33 opportunities in Grand Canyon Hills by leaving only the main route open to motorized use. It

34 would not enhance recreation opportunities for equestrians and hikers on designated trails in

35 Temple Canyon. This alternative would not help to achieve the DFC that visitors travel via a

36 designated system of roads and trails that serves a variety of motorized, mechanized, and non-

- 37 motorized travel uses.
- 38

39 In the **Grape Creek subunit**, Alternative B would sustain the recreation settings but it would not

- 40 provide the targeted recreation opportunities and benefits. It would not provide for the
- 41 designation of an equestrian and hiking trail in Grape Creek. This alternative would not address
- 42 the need to resolve access issues in the Temple Canyon Park area that would help to achieve the
- 43 DFC to maintain traditional access from Temple Canyon to the Grape Creek State Trust Lands
- 44 and BLM public lands for non-motorized travel uses. The Bear Gulch Road would be closed to
- 45 motorized access at the private subdivision/National Forest boundary (2.75 miles). This would
- 46 significantly reduce recreation opportunities and benefits to visitors.

1 Cumulative impacts to Recreation (Alternative B): Under this alternative, it would be difficult 2 for BLM to achieve or sustain recreation settings and provide targeted activity opportunities, 3 experiences, and benefits to visitors, communities, and the environment in some subunits. 4 Because this alternative would substantially reduce motorized recreation opportunities, it would 5 change SPM (middle country) settings to SPNM (back country) in Crampton Mountain, Sangres 6 Foothills, and West McCoy Gulch subunits. This also would change the recreation opportunities 7 and benefits provided by these areas over time. In the Texas Creek subunit, this alternative 8 would sustain the recreation settings but it produces limited benefits to the visitors and to 9 businesses that serve motorized recreationists over time. Reducing the number of designated 10 routes in the Texas Creek subunit would require strict controls to manage the impacts of 11 increasing use of this area. In the Grand Canyon Hills and Grape Creek subunits, Alternative B 12 would not address the access issues in the Temple Canyon area and the demand for additional 13 recreation opportunities for equestrians and hikers close to Canon City. Over time, this would 14 lead to increasing user conflicts, user created routes, and the need for stricter controls as use in this area increases. The closure of the Bear Gulch Road to motorized use at the private 15 16 subdivision/National Forest boundary would significantly alter the recreation opportunities and 17 benefits provided to visitors by reducing access to Grape Creek. A substantial decrease in hiking, hunting, and fishing use would occur in this part of Grape Creek. 18 19 20 Summary of Mitigation (Alternative B): 21 22 Request Fremont County to prohibit ATV use on the county road since no recreation motorized 23 opportunities would be available on adjacent public lands. 24 25 Work with Salida Mountain Trails Park Committee, other community groups, and individuals to 26 manage the trail system in the Salida subunit. 27 28 Develop partnerships with user groups to assist with management of the Texas Creek trail 29 system. 30 31 Alternative C (Proposed Action): As in Alternative A and B, a system of designated roads and 32 trails is more favorable to sustaining recreation settings and providing targeted recreation 33 opportunities and benefits than the No Action Alternative. A new **OHV Open** designation 34 would be established at Turkey Rock where motorized travel off designated routes would be 35 limited to users of trials motorcycles, only. There would no longer be any areas in the OHV 36 Open category in the Texas Creek and Grand Canyon Hills subunits. BLM would prohibit target 37 shooting at Turkey Rock and in areas near Salida to improve public safety and reduce conflicts 38 with other uses. Mechanized vehicles such as bicycles would be restricted to designated roads 39 and trails, and driving off roads to park, camp, and other legitimate purposes would be restricted 40 to a maximum distance of 100 feet from a designated route. Some new route construction would 41 be allowed under this alternative. 42 43 For recreation uses authorized by Special Recreation Permit, Alternative C would allow the 44 activities and events currently authorized to continue. It would enhance opportunities for

- 45 commercial outfitters that provide mountain bike and horseback tours because new mountain
- bike and horse routes would be designated and developed over time. It would slightly enhance

opportunities for ATV tours in the Texas Creek area by providing some additional routes. It
 would benefit commercial big game (elk and deer) outfitters by somewhat reducing human
 contact with these species. This would enhance the experience of their clients and potentially

- 4 increase success in tracking and hunting elk and deer.
- 5

6 This alternative is generally compatible with the recreation settings in the TMP area; however,

7 there are specific areas where this alternative would change the recreation setting and would not

8 provide targeted recreation opportunities, experiences, and benefits. More detail is provided in

9 the specific subunit discussions below. In the **Browns Canyon**, McIntyre Hills, Grape Creek,

and Custer County subunits, the impacts are the same as Alternative A. For the Big Hole

- 11 **subunit**, the impacts are the same as Alternative B.
- 12

13 In the **Salida subunit**, Alternative C would be compatible with the recreation settings and it 14 would provide targeted recreation opportunities, experiences and benefits; however, not to the extent of Alternative A but it would provide more opportunities than Alternative B. It would 15 16 assist in achieving recreation-related DFCs. This alternative would be somewhat responsive to 17 the desire of local residents and community groups for enhanced non-motorized recreation opportunities adjacent to Salida and Poncha Springs because it would provide some additional 18 19 opportunities for bicycling, equestrian and hiking uses on user created routes that would be 20 designated and on some new routes that would be constructed. All of the non-motorized routes would be multi-use trails that would be shared by mountain bikers, hikers, and equestrians. To 21 22 mitigate resource concerns, new routes would be constructed to meet accepted standards, and 23 user created routes that would become designated routes under this alternative would be 24 reconstructed as necessary and maintained regularly. Under this alternative, illegal activities 25 would decrease such as trash dumping, underage drinking parties, and the proliferation of user 26 created routes would decrease. Management of the trail system in partnership with local 27 volunteers and community groups would be necessary to provide the targeted recreation opportunities, experiences and benefits and to address user conflicts. This alternative would 28 29 produce benefits to the local economy by enhancing hiking and mountain biking opportunities 30 close to local communities. Target shooting would be prohibited on certain public lands near Salida addressing safety, trash dumping and littering concerns. 31 32 33 In the **Badger Creek subunit**, Alternative C would be compatible with the recreation settings

and would provide targeted recreation opportunities, experiences and benefits. Removing the
 OHV Open designation would sustain the recreation settings. A very limited OHV Open area
 would be designated around Turkey Rock to provide recreation opportunities and benefits to
 trials motorcycle riders who have traditionally used this area. This alternative also would
 prohibit target shooting in the Turkey Rock area addressing safety, trash dumping and littering

39 concerns.40

41 In the **Red Gulch subunit**, the impacts of Alternative C would be very similar to the Current

42 Use Alternative except that it would shift some (about 3 miles) of the motorized recreation

43 opportunities from full-size vehicles to ATVs and reduce motorized use of spur routes. This

44 alternative would be compatible with the recreation settings, provide targeted recreation

45 opportunities, experiences and benefits, and assist in achieving recreation related DFCs.

46

1 In the **Texas Creek subunit**, Alternative C somewhat enhances motorized recreation

- 2 opportunities and associated benefits as compared to the Current Use Alternative but does not
- 3 provide the opportunities and benefits of Alternative A. It would assist in achieving the
- 4 recreation related DFC for this subunit. Changing the OHV Open designation to designated
- 5 routes and closing spur routes would maintain the recreation settings and require less intensive
- 6 management than Alternative A. This alternative would provide fewer opportunities to those
- 7 seeking off route challenges and dispersed camping opportunities. This alternative would not
- sustain SPNM recreation setting in the Long Gulch area because the closed route in this area
 would be re-opened for motorized recreation (ATVs, motorcycles). This alternative would
- would be re-opened for motorized recreation (ATVs, motorcycles). This alternative would
 produce benefits to the businesses similar to the Current Use Alternative.
- 11

12 In the **Crampton Mountain subunit**, the impacts would be similar to Alternative A except that 13 this alternative would not re-open one of the route closures (2.3 miles) on Crampton Mountain.

14

15 In the **Sangres Foothills subunit**, Alternative C would be compatible with sustaining the

- 16 recreation settings. This alternative would assist in achieving the DFC to provide a well-
- 17 managed system of designated roads and trails that serve a variety of motorized, mechanized,
- 18 and non-motorized travel uses. In Kerr Gulch, it reduces the number of spur routes and user
- 19 created routes particularly along the lower part of the road. It somewhat reduces opportunities
- 20 for dispersed camping and motorized recreation in the upper part of Kerr Gulch near the National
- 21 Forest boundary. It would not enhance ATV riding opportunities in Kerr Gulch. Motorized
- 22 recreation opportunities would be available in the Wellsville area although a few spur routes
- would be closed.
- 24
- 25 In the West McCoy Gulch subunit, Alternative C would sustain the recreation setting and 26 provide targeted recreation opportunities and benefits although not to the same extent as 27 Alternative A because there would be fewer opportunities for equestrians and hikers on 28 designated trails in SPNM setting, and fewer opportunities for ATV riders. It would assist in 29 achieving the DFC for a managed system of designated roads and trails that serve a variety of 30 motorized, mechanized, and non-motorized travel uses where some areas are managed for 31 hiking, horseback riding, and mountain biking in quiet and remote settings and other areas 32 provide opportunities for motorized recreation. Suggested mitigation for this alternative: 33 Request Fremont County to prohibit ATV use on the county road since few recreation motorized 34 opportunities would be available on adjacent public lands. 35
- 36 In the **Road Gulch subunit**, Alternative C would sustain the recreation settings and provide
- 37 targeted recreation opportunities and benefits by expanding recreation opportunities on
- 38 designated trails for equestrians and hikers. This alternative would also help maintain the
- 39 backcountry setting in the McIntyre Hills WSA by reducing motorized access along the WSA
- 40 boundary in the Lookout Mountain and Poverty Mountain areas. Opportunities for big game and
- 41 turkey hunting would be maintained because reasonable access would be available. The closure
- 42 of spur routes would reduce illegal trash dumping along Road Gulch. It would assist in43 achieving recreation related DFCs.
- 44
- 45 In the **Grand Canyon Hills subunit**, Alternative C would sustain the recreation settings, provide
- 46 targeted recreation opportunities and benefits, and help achieve recreation related DFCs. It

1 2 3	would enhance recreation opportunities for mountain bikers, equestrians and hikers on public lands near the Ecology Park, Temple Canyon, and Dawson Ranch. It would maintain motorized recreation opportunities in the Grand Canyon Hills area while closing spur routes that are
3 4 5	problem areas for illegal dumping.
6	Cumulative impacts to Recreation (Alternative C): This alternative would be compatible with the
7 8	recreation settings and provide targeted activity opportunities, experiences, and benefits to visitors, communities, and the environment in the majority of the TMP area over the long term.
9	In the Texas Creek subunit, it would not sustain SPNM recreation setting in the Long Gulch area
10 11	because the closed route in this area would be re-opened for ATV and motorcycle use. This would change the SPNM (back country) setting to SPM (middle country) and provide different
12 13	recreation opportunities and benefits.
14 15	Summary of Mitigation (Alternative C):
16	Request Fremont County to prohibit ATV use on the county road since no recreation motorized
17 18	opportunities would be available on adjacent public lands.
18 19	Develop an agreement with the Rocky Mountain Trials Association to assist with monitoring and
20 21	maintaining the OHV Open Area at Turkey Rock.
22	Work with Salida Mountain Trails Park Committee, other community groups, and individuals to
23 24	manage the trail system in the Salida subunit.
25	Develop partnerships with user groups to assist with management of the Texas Creek trail
26 27	system.
27 28 29	Mitigation Common to All Alternatives:
30	1. Monitor and evaluate the levels and types of uses and visitor experiences on existing or
31	designated routes to evaluate impacts on achieving or sustaining recreation settings and
32 33	providing targeted opportunities, experiences, and benefits.
34	2. Develop visitor information about travel management and land use ethics, and distribute this
35 36	information widely and in a variety of formats.
37	3. Provide accurate maps, signs, and other information relevant to travel management for public
38 39	land visitors.
40 41	4. Develop staging and parking areas and trailheads at key access points.
42 43	5. Develop and maintain partnerships with key stakeholders to assist with travel management.
44 45 46	6. As necessary, implement temporary route closures to protect infrastructure, resources and public safety.

- 1 7. Contact visitors on-site by using BLM staff, volunteers, and partners.
- 2

8. To maintain dispersed camping opportunities along routes open to motorized and mechanized
travel, identify short spur routes that provide access to appropriate campsites and incorporate
them into the travel system.

5 6

7 VISUAL RESOURCES

8 Affected Environment: The Arkansas River Travel Management area offers a great diversity of landforms and vegetation. The area is highly valued by the public and local communities for its 9 10 scenic quality. Browns Canyon ACEC, Arkansas Canyonlands ACEC, and Grape Creek ACEC were designated primarily or in part because of the outstanding scenic quality of these areas. 11 12 Between Cañon City and Salida, US 50 follows a scenic route, closely following the Arkansas 13 River for the majority of this distance; the highway passes through rugged canyons and opens 14 into valleys that provide scenic vistas of the Sangre de Cristo and Sawatch mountain ranges. In 2005, the Colorado Department of Transportation designated the Collegiate Peaks Scenic 15 16 Byway-that follows US 50 and US 24 through Salida, Poncha Springs, Buena Vista, and

17 Granite. Colorado Highway 96 near Westcliffe is part of the Frontier Pathways National Scenic

- 18 Byway. Colorado Highway 9 along the eastern boundary of the planning area is part of the Gold
- 19 Belt Tour National Scenic Byway. Preserving scenic quality is important to local communities
- 20 because they depend on tourism as a major component of their economy.
- 21

22 On public lands in the Arkansas River Travel Management area, the existing impacts to visual

- resources are related to roads, fences, communication sites, utility lines and rights-of-way, active
- mineral material (gravel) mining, land treatments (chaining, rollerchopping, etc.), and impacts
 related to abandoned mines (shafts, mine tailings, and structures). On private lands, many of the
- related to abandoned mines (shafts, mine tailings, and structures). On private lands, many of the same impacts exist in addition to residential and commercial development and the railroad right-
- 27 of-way along the Arkansas River.
- 28

Roads and trails are visual intrusions but they also provide a means for the public to experience and enjoy the outstanding scenery. Many of the roads within the planning area have been in existence for decades and were developed by miners, ranchers, and loggers. These roads were not designed to minimize impacts to visual resources. In many areas, the visual impact of these

- 33 roads is decreased substantially because of screening provided by highly varied topography and
- 34 vegetation.
- 3536 Over the past ten years, the proliferation of user created routes in certain areas has impacted
- 37 scenic quality. This is most evident in areas such as Castle Gardens and S Mountain (Salida)
- subunit), Kerr Gulch and Howard area (Sangres Foothills subunit), and portions of the Texas
- 39 Creek subunit.
- 40
- 41 Visual Resource Management (VRM) is a classification system for identifying and
- 42 characterizing visual resource values. VRM classes (I through V) were assigned in the RMP for
- 43 all BLM administered lands in the Royal Gorge Field Office. Any projects or on-going
- 44 management on public lands should meet the applicable VRM class objectives. In the planning
- 45 area, public lands were identified in three of the five VRM classes (II, III, and IV). There are no

- VRM Class I areas within the planning area; there are no VRM class V areas in the Royal Gorge
 Field Office.
- 3

4 The following is a brief description of the class, class objectives, and general locations of public 5 lands in each class within the planning area. A detailed map showing the VRM classes for the 6 planning area can be found in Map 34

6 planning area can be found in Map 34.7

8 <u>Class II</u> – Areas highly valued for visual resources. Management activities may be seen, but

9 should not attract the attention of the casual observer. The general location of these public lands

10 within the planning area is along the Arkansas River, along Grape Creek north of Temple

11 Canyon Park, along Colorado Highway 9, and Colorado Highway 69 along Texas Creek.

12

13 <u>Class III</u> – Areas moderately valued for visual resources. Management activities may attract

- 14 attention, but should not dominate the view of the casual observer. The general location of these
- 15 public lands within the planning area is north of the Arkansas River corridor, Copper Gulch,
- 16 Temple Canyon, West McCoy Gulch, and Custer County except for public lands along the base
- 17 of the Sangre de Cristo Mountains (VRM Class II).
- 18

19 <u>Class IV</u> – Areas of least value for visual resources. Management activities may dominate the

20 view and be the major focus of viewer attention. The general location of these public lands

- 21 within the planning area is the DeWeese Plateau.
- 22

23 Environmental Consequences/Mitigation:

24 No Action Alternative (Current Use): This alternative provides the greatest amount of motorized public access (232 miles) and also the greatest amount of administrative access (125.7 25 26 miles). Generally, fewer routes and less mileage enhance scenic quality while more routes and 27 mileage reduce scenic quality. Maintaining the OHV Open designations in Grand Canyon Hills, 28 Texas Creek, and Sand Gulch areas would degrade scenic quality in these areas over time due to 29 an increase in the number and density of roads and trails. The existing OHV Open designations 30 do not meet VRM Class II objectives that were established for these areas in the RMP. The No Action Alternative would also close 66.9 miles of user created routes. With effective closures in 31 32 place, these routes would become less noticeable over time. This would enhance scenic quality 33 in areas where these routes have increased in recent years (Castle Gardens, S Mountain, Kerr 34 Gulch, Howard area, and portions of the Texas Creek subunit). Effective closures of user created 35 routes would be necessary to meet management objectives in VRM Class II areas.

36

37 <u>Alternative A:</u> This alternative would provide the greatest amount of new trails (both motorized

and non-motorized). This includes designating several miles of trails for bicycle, horse and foot

use in Salida subunit – some these trails would follow existing user created routes and some
 would require new construction. To meet VRM Class II objectives in the Salida subunit where

- 40 would require new construction. To meet VKM Class It objectives in the Sanda subunit wher 41 these trails are proposed, new trail construction proposals would be required to incorporate
- 41 design techniques that reduce visual impacts. Additionally, regular maintenance of and
- 43 reconstruction of portions of the user created routes that would be designated under Alternative
- 44 A would assist in maintaining scenic quality and reducing visual impact. The re-opening of
- 45 closed routes in the Texas Creek subunit would increase the density of roads and trails.
- 46 Generally, increasing the density of roads and trails reduces scenic quality; however, these routes

1 are within a VRM Class III area and this would meet the VRM Class III objectives. The

- 2 construction of a new motorcycle route in the Big Hole subunit occurs primarily in a VRM Class
- 3 III area; however, the lower segment of this proposed route is within the VRM Class II area.
- 4 Additionally, portions of this route may be visible from US 50; therefore, careful consideration
- 5 to location and design would be necessary for this route to meet VRM Class II objectives. New
- 6 OHV Open designations at Turkey Rock and Reese Gulch (for trials bikes only) would not
 7 substantially affect scenic quality due to the limited extent of this use. The miles of routes
- substantially affect scenic quality due to the limited extent of this use. The miles of routes
 designated for equestrian use would double as compared to the Current Use Alternative. Most of
- 9 these routes would follow old roads that are currently closed. These designations would not
- affect visual resources. The reduction is administrative access and the closure of many user
- 11 created routes would reduce visual impacts.
- 12

13 Alternative B: This alternative would reduce number of miles of designated routes by 14 approximately one-third as compared to the Current Use Alternative. Most of this reduction would be in the mileage of motorized routes. The number of miles of designated bicycle routes 15 16 would increase (in the Salida subunit) from 2.5 to 16.8 – these routes would follow existing user 17 created trails. Regular maintenance of and reconstruction of portions of the user created routes that would be designated under this alternative would assist in maintaining scenic quality and 18 19 reducing visual impact. The current OHV Open designations in the Grand Canyon Hills, Texas 20 Creek, and Sand Gulch areas would be changed to OHV Limited to Designated Roads and 21 Trails. Alternative B would enhance scenic quality and reduce impacts to visual resources throughout the planning area. It would meet all VRM objectives for the planning area.

22 thi 23

24 Alternative C: Compared to the Current Use Alternative, this alternative would reduce 25 motorized routes by approximately 51 miles and increase designated non-motorized routes by 26 approximately 42 miles. Administrative access routes would decrease by 22.5 miles. The 27 reduction is motorized routes, administrative access routes, and the closure of many user created 28 routes would reduce visual impacts. The designated bicycle routes (in the Salida subunit) routes 29 would follow existing user created trails. Regular maintenance of and reconstruction of portions 30 of the user created routes that would be designated under this alternative would assist in maintaining scenic quality and reducing visual impact. Designated equestrian routes would 31 32 follow old roads that are currently closed; thereby, having very little impact on visual resources. The current OHV Open designations in the Grand Canyon Hills, Texas Creek, and Sand Gulch 33 34 areas would be changed to OHV Limited to Designated Roads and Trails. New OHV Open 35 designation at Turkey Rock (for trials bikes only) would not substantially affect scenic quality due to the limited extent of this use. Alternative C would enhance scenic quality and reduce 36 37 impacts to visual resources throughout the planning area. It would meet all VRM objectives for 38 the planning area.

- 39
- 40 <u>Mitigation Common to All Alternatives</u>: Any new routes should meet VRM class objectives and
- 41 incorporate design elements that reduce visual impacts. In VRM Class II areas, designated
- 42 routes that follow user created routes should be evaluated for maintenance and reconstruction
- 43 needs in order to meet VRM Class II objectives.
- 44

1 **Cumulative Effects**

- 2 In addition to growth in recreational travel, other reasonably foreseeable actions that could affect
- 3 visual resources over the next 10 years on private and public lands in the Arkansas River basin
- 4 include residential growth, new road construction on private lands, fuels reduction projects,
- 5 utility corridor maintenance and upgrades, and new buried utility rights-of-way. Activities on
- 6 public lands in the travel planning area that could also potentially impact visual resources and
- 7 require mitigation include, the proposed *Over the River* art project on the Arkansas River, and
- 8 commercial forest products harvesting. The cumulative effects to visual resources from these
- 9 activities in addition to action alternatives will be long-term and most adverse and dispersed in
- 10 the No Action and Alternative A, contained and long-term in Alternatives B and C.
- 11

12 TRANSPORTATION & ACCESS

- 13 Affected Environment: Within the Arkansas River TMP planning area the existing BLM road
- 14 network consists primarily of low standard dirt roads that are linked to all-weather county, state,
- 15 and Federal highways. Many of the BLM roads were developed fifty to sixty years ago to serve
- 16 needs for temporary or intermittent access and were not designed to serve sustained high levels
- 17 of use. Most of the roads were developed to provide access for specific activities, such as:
- 18 mining, livestock grazing, harvesting forest products, constructing power transmission and
- 19 telephone lines, constructing flood control "check dams", constructing irrigation ditches and
- 20 pipelines, performing "chaining" operations, and suppressing wildfires. Changes in ownership
- 21 have also influenced the character of the existing roads, with BLM acquiring lands that had
- 22 previously been under private ownership. As a result, some roads were developed when the lands
- were under private ownership, which were never intended to serve the access needs of the public.
- 24
- 25 In today's environment, BLM roads are needed to serve both functional and recreational needs.
- 26 Over the years, some roads have been improved to accommodate changes in the types of vehicles
- 27 using them and to respond to the growing use of the public lands for recreational activities.
- 28 Roads are still needed to access power lines, build and maintain fences for grazing, etc., but they
- are also needed for serving a wide variety of recreational uses as well.
- 30
- 31 In preparing for the TMP, one of the first tasks was to conduct an inventory of the existing roads
- 32 and trails. Whenever possible, the inventory utilized global positioning satellite (GPS) and
- 33 geographic information system (GIS) technologies to accurately locate and accumulate
- 34 information about the roads and trails. In areas that could not be physically reached for utilizing
- 35 GPS, other means were used to capture the routes, including aerial photo interpretation and the
- transference of existing transportation data from other reliable sources. With few exceptions, all
- 37 routes included in the inventory were ground-proofed and recorded using GPS.
- 38
- The inventory identified a total of 661 miles of existing roads and trails that are just on the BLM public lands, and which does not include roads on surrounding private lands or other ownerships
- 41 that lead onto BLM lands. The total mileage includes 112 miles of Non-BLM roads that are
- 42 managed under county, state, or Federal highway jurisdictions, and which as a general rule* are
- 43 not affected by decisions made in this plan and would remain open to the public under all of the
- 44 alternatives. Subtracting the Non-BLM mileage from the total miles leaves a balance of 549
- 45 miles, which includes all of the BLM-managed routes that would be affected by the decisions
- 46 made in the plan (see Table 8-1 for details).

- *Exceptions to this general rule would occur under Alternatives A, B, and C, under which BLM would <u>request</u> Fremont and Chaffee County to vacate 4.3 miles of county roads that are*
- 3 currently not being maintained by the counties. Under all three alternatives, 3.7 miles of
- 4 these roads would remain open to the public under BLM management and 0.6 miles would be
 - closed.

Table 8-1 - Existing Routes	on Public Lands by Travel Classes and Ma	naging Jurisdiction
BLM Travel Routes		

BLM Travel Routes		
Travel Way Classes	Class Description	Mileage
Class 1	Primary Highway	None
Class 2	Secondary Highway	None
Class 3a	Lt. duty maintained - paved	None
Class 3b	Lt. duty maintained - graveled	15.9
Class 3c	Lt. duty maintained - dirt	38.6
Class 4	Primitive Road	112.0
Class 5	Primitive 4WD	191.3
Class 6a	ATV Trail	33.3
Class 6b	Single track - motorized	3.5
Class 6c	Single track - mechanized	2.5
Class 6d	Single track – horse	20.5
Class 6e	Single track - foot	7.5
Class 6f	Non-motorized road	3.5
Class 7	Closed Road	52.2
Subtotal	BLM Recognized Travel Routes	480.8
User Created Routes		
Class 4	Primitive Road	3.5
Class 5	Primitive 4WD	8.5
Class 6a	ATV Trail	38.4
Class 6b	Single track – motorized	4.0
Class 6c	Single track – mechanized	12.5
Class 6d	Single track – horse	0.2
Class 6e	Single track - foot	1.0
Subtotal	User Created Routes	68.1
Subtotal	All Routes Under BLM Jurisdiction	548.9
Non-BLM Travel Routes		
Class 1	Primary Highway	26.4
Class 2	Secondary Highway	20.9
Class 3a	Lt. duty maintained – paved	0.2
Class 3b	Lt. duty maintained – graveled	35.6
Class 3c	Lt. duty maintained – dirt	10.6
Class 4	Primitive Road	7.5
Class 5	Primitive 4WD	10.6
Subtotal	All Routes Under Other Jurisdiction	111.8
Grand Total	All Routes – BLM & Other Jurisdictions	660.7

1 The travel way classifications used in Table 8-1 describe the physical characteristics of the routes

2 in terms of the widths, surfaces, and the types of traffic that they are intended to accommodate.

3 For the purposes of the travel management plan, however, the roads were also classified to

4 characterize them in terms of designated uses that identify the range of travel uses that are

5 available on the individual roads and trails. The travel uses classification system used in this

plan conforms to the standards adopted by the Colorado Natural Resources Group, except for the
 User Created, Non-BLM, and Administrative Access classes. The latter three categories were

developed specifically to address routes that do not fit within the standard Colorado Natural

9 Resources Group classification system.

10

11 The mileages of existing routes by travel use categories are summarized in Table 8-2. The

12 locations of the routes are displayed on Map 12 for the No Action Alternative and the

13 explanation of the travel use categories is located in <u>Appendix 4</u>. When interpreting Table 8-2 it

14 is important to understand that each Travel Use Category is named for the type of use that it is

15 primarily suited to accommodate. The other travel uses included in the category should be

16 considered as secondary uses. This distinction is important so that it is recognized that just

17 because secondary uses are allowed does not mean that all of the routes in the category are

necessarily suitable for those uses. For example, routes included in the General category are

19 primarily intended for use with full-size motor vehicles but they are also available for all other

20 uses; including hiking and horseback riding. Many hikers and equestrians, however, would not

21 consider these routes to be suitable for hiking and horseback riding because sharing roads with

22 motor vehicles does not offer the type of recreational experience that they would normally seek.

23

	er TMP Travel Use Categories – Current Existing	
Class Abbreviation	Primary Use – Secondary Uses	Mileage
F	Foot	5.4
E	Foot, horse	27.2
В	Foot, horse, bicycle	2.5
М	Foot, horse, bicycle, motorcycle	2.8
A	Foot, horse, bicycle, motorcycle, ATV	26.4
0	General - all motorized, mechanized, non-	203.1
	motorized uses	
Non-BLM	County, state, Federal highways	111.8
AA*	Available for administrative use only	125.7
CL*	Closed to all motorized and mechanized	87.6
	uses	
UC	User Created – routes created by recreational	68.1
	uses after 1996	
Total		660.7

24 Table 8-2 Arkansas River TMP Travel Use Categories – Current Existing Routes

25

26 ** Routes included in the AA category are not available to the general public for motorized or*

27 mechanized uses. However, some are needed to provide administrative access for BLM

28 personnel and authorized permit and right-of-way holders. The routes included in the AA

29 category are not managed for specific recreation uses but, as long as the routes are legally

30 accessible (not blocked by private lands), they are available to the public for foot and horse

- 1 travel. Routes included in the CL category are also not available to the general public for
- motorized or mechanized uses. In some cases the CL routes may be identified for mechanical
 reclamation while others may be closed and allowed to reclaim naturally.
- 4

5 Roads and trails impact soils, vegetation, water, air quality, wildlife habitat, and facilitate the

- 6 dispersal of noxious weeds. Poorly designed and improperly maintained roads and trails
- 7 promote erosion that degrades streams and wetlands with associated reductions in fish habitat
- 8 and productivity. The construction of new roads and trails increases the impacts to soils and
- 9 watersheds by exposing more areas of bare soil that are subject to erosion.
- 10
- 11 The monetary costs associated with maintaining a given road or trail is directly related to the
- 12 overall physical makeup of the route (soil type, slope, vegetative cover, aspect, etc.), as well as to
- 13 the amount and type of traffic that occurs on it. Routes with high levels of traffic, and routes that
- 14 are used for high-speed modes of travel that cause higher amounts of disturbance to traveling
- surfaces, require more maintenance than routes with low levels of use and that are used for slow-
- 16 speed, low impact modes of travel. All of these factors were considered in analyzing and
- 17 comparing the environmental impacts and required maintenance needs for the alternatives that
- 18 were addressed in this plan. A detailed analysis and comparison of the costs associated with
- 19 implementing each alternative, including maintenance costs, are included in <u>Appendix 12</u> Cost
- 20 Analysis of Implementing TMP Alternatives.
- 21
- Other Transportation Management Issues Addressed in the TMP: During the preparation of the
 Arkansas River TMP, the following issues surfaced that have a direct bearing on the
 management of the PLM transportation system
- 24 management of the BLM transportation system.
- 25
- 26 <u>BLM Maintenance of County Roads</u> During the inventory phase of the TMP, a number of
- 27 county roads were identified in Fremont and Chaffee County that provide important public
- access to BLM lands but that are not being maintained by the counties (See Map 35). The roads
- 29 in question include FCR 59A near Swissvale; FCR 101A (Kerr Gulch); FCR 40 (Big
- 30 Cottonwood Creek); FCR 13 (Sand Gulch-Cotopaxi); FCR 217A (Texas Gulch); FCR 10X
- 31 (Turkey Gulch); FCR 20X (Green Mountain Mine); FCR 293A (Poverty Mountain); FCR 307A
- 32 (Cottonwood Ridge); FCR 309A (Sand Gulch-12 Mile Park); and CCR 103 (Cleora).
- 33
- 34 Because these roads provide important public access to high use areas on public lands, there is a
- 35 need for the roads to be maintained. However, because BLM does not have legal authority to 36 spend Edderal dollars on maintaining county roads it connet maintain the roads in superior
- 36 spend Federal dollars on maintaining county roads, it cannot maintain the roads in question.
 37 BLM proposes coordinating with both counties to reaches this issue by either including the reaches
- 37 BLM proposes coordinating with both counties to resolve this issue by either including the roads
- in county maintenance schedules, vacating the county right-of-ways so that BLM can maintain them, or entering into agreements up described BLM and the counties much series
- 39 them, or entering into agreements under which BLM and the counties would exchange
- 40 maintenance work so that the roads would be maintained.
- 41

42 Environmental Consequences:

- 43 <u>No Action Alternative</u>: Under the No Action Alternative the existing BLM transportation
- 44 system would be unaltered, with the exception of closing 68 miles of User Created routes. No
- 45 other closures or restrictions on the uses of existing routes would be implemented as a result of
- 46 the TMP. The OHV Open designations for Grand Canyon Hills, Texas Creek, and Sand Gulch

would not be changed to OHV Limited. Full use and travel by motor vehicles would be allowed to continue in these areas and the use of motorized vehicles would be limited to <u>existing</u> roads and trails in all OHV Limited areas. The current policies allowing the use of bicycles and other mechanized vehicles off existing routes, and driving motor vehicles 300 feet off existing roads to park, camp, or retrieve game, would be unchanged.

6

7 Under the No Action Alternative, the public would be allowed to drive motorized vehicles on

8 any existing road except for those that are posted on the ground as closed to motor vehicles or

9 restricted to certain uses. Current management and enforcement problems that result from the

10 removal of closure signs would continue to occur and would likely increase in the future as more 11 people use the public lands for motorized forms of recreation. The current travel management

policy of limiting OHVs to existing routes would continue to be confusing for the public;

13 contributing to the proliferation of new routes and conflicts with non-motorized users.

14 Continuing under the current policy of allowing vehicles to be drive up to 300 feet off existing

15 roads for parking, camping, and game retrieval would also contribute to additional route

16 proliferation. Allowing cross-country use of mountain bikes would result in the creation of new

17 trails in areas where mountain biking is popular.

18

19 Under this alternative the impacts on the planning area's transportation system would steadily

20 grow over time. No immediate need for additional route construction or maintenance would

21 result from this alternative; however, as recreation uses on public lands increase, the frequency

22 and number of miles of routes requiring maintenance would gradually increase over time.

23 Increased reconstruction and maintenance efforts would be needed to address the deterioration of

24 routes that were not designed for sustained high levels of use. The closure and rehabilitation of

some routes would also be needed where severe resource damage or conflicts with other uses

26 occur. 27

28 Under this alternative, approximately 203 miles of roads would be available to the public to use

29 with full-size vehicles (miles of routes included in <u>Table 2-1</u> in the General category). In

30 addition, another 126 miles of roads would be managed for administrative access (see <u>Table 2-1</u>

31 – AA category). Due to the high number of miles, the costs of maintaining roads under the No

32 Action Alternative would be higher than the maintenance costs for any of the other alternatives

33 (See <u>Appendix 12</u> – Cost Analysis of Implementing TMP Alternatives). Under the No Action

34 Alternative the estimated average annual cost of maintaining roads in the planning area would be

35 \$10,725; compared to \$8,425 for Alternative A, \$5,950 for Alternative B, and \$8,075 for

- 36 Alternative C.
- 37

38 In addition to the General and Administrative Access roads, the No Action Alternative would

also include maintaining 28 miles of motorized trails and 35 miles of non-motorized trails (see

40 <u>Table 2-1</u>). The estimated annual costs of maintaining these trails would be \$8,112; compared to

41 \$14,388 for Alternative A, \$7,172 for Alternative B, and \$9,922 for Alternative C (See <u>Appendix</u>

42 <u>12</u>). 43

44 The total costs of implementing the No Action Alternative are estimated to be \$18,837;

- 45 compared to \$514,957 for Alternative A, \$163,064 for Alternative B, and \$274,507 for
- 46 Alternative C. The large difference in the comparative costs is due to the fact that the No Action

1 Alternative would not require initial implementation costs for constructing and reconstructing 2 roads and trails, closing and reclaiming routes, and installing travel management signs and 3 kiosks that would occur under the other alternatives. Many of these actions, however, would 4 probably still occur under the No Action Alternative but the costs of implementing them would 5 be deferred into the future. 6 7 Besides the maintenance and operational costs that are directly associated with administering the 8 transportation system, there are also environmental costs that should be considered. Under the 9 No Action Alternative, achieving public land health standards and Desired Future Conditions 10 throughout the planning area would be difficult. The environmental costs to vegetation, water, wildlife, and other resources resulting from the increased use of poorly located and designed 11 12 roads and trails would steadily grow over time. Conflicts resulting from the incompatible uses of 13 roads and trails would also steadily increase. Existing routes that currently have low levels of 14 use would experience growing levels of motorized activity, resulting in greater impacts to riparian, vegetation, water, and wildlife resources. 15 16 17 Mitigation: 18 19 1. Provide scheduled maintenance of existing roads and trails, commensurate with increases in 20 recreation use. 21 22 2. Focus the use of BLM maintenance funds on those routes providing primary access to public 23 lands and where the amount of use is heaviest. 24 25 3. Continue to utilize alternative funding sources (grants, holders of right-of-ways and permits, 26 partners, etc.) to augment road/trail maintenance and improvements. 27 28 4. Continue to develop volunteer partnerships for constructing, improving, and maintaining 29 travel routes. 30 31 5. Manage, as needed, those routes that are severely deteriorated and that cannot be adequately 32 maintained by closing, restricting travel uses, or relocating and reconstructing them. 33 34 6. Coordinate with Fremont and Chaffee Counties for maintaining county roads that are being 35 maintained by the respective counties. 36 37 <u>Alternative A</u>: Under Alternative A, the existing BLM transportation system would be 38 modified with additional travel routes and the use of motor vehicles would be limited to 39 designated roads and trails. Of the action alternatives, this alternative would provide most 40 opportunities for motorized, mechanized, and non-motorized recreation uses. A large number of additional ATV and motorcycle trails would be conditionally approved for the Texas Creek 41 OHV area, and a large number of non-motorized trails would be conditionally approved near 42 43 Salida. 44

The OHV Open designations for Grand Canyon Hills, Texas Creek, and Sand Gulch would be changed to OHV Limited and a new OHV Open area would be designated at Turkey Rock for 1 riding trials bikes. The use of bicycles and other mechanized vehicles would be limited to

- 2 designated routes, and the distance that vehicles can be taken off designated routes for parking
- 3 and camping would be limited to 100 feet. Under this alternative BLM would coordinate with
- 4 Fremont and Chaffee counties to resolve maintenance issues with county roads that are currently
- 5 not being maintained, including requesting the counties to vacate FCR59A, FCR13, and CCR103
- 6 so that these roads could be managed by BLM.
- 7

8 Under Alternative A, the public would only be allowed to drive motor vehicles (OHVs) on routes

9 that have been identified on official travel management maps as open to specified motorized

10 uses. For the purpose of making it easier for the public to understand which routes are open to

11 OHVs and which are closed, the designated routes would also be identified on the ground with 12 signs. Under this system of management, only routes that are signed as open to OHVs would be

12 signs. Under this system of management, only routes that are signed as open to OHVs would be 13 legally available for use with motor vehicles and users would be responsible for knowing and

- 14 complying with the route designations depicted on the official travel management maps.
- 15

16 Under this alternative, current management and enforcement problems resulting from the

17 removal of closure signs would be reduced. Implementing a travel management policy which

18 limits OHVs to designated routes that are identified on maps and with signs would be easier for

19 the public to understand and easier for BLM to enforce; reducing potential route proliferation

20 and conflicts with non-motorized users. Reducing the distance motor vehicles can be driven off

21 designated routes for parking and camping from 300 to 100 feet, and limiting the use mountain

22 bikes to designated routes would also help to reduce potential route proliferation.

23

24 Implementation of Alternative A would establish a system of roads and trails with designated travel uses that would generally benefit the overall management of the transportation system for 25 26 planning construction and maintenance needs. This alternative, however, includes the 27 construction of many new travel routes and allows motorized travel uses on the most number of 28 existing and additional routes. Consequently, of the three action alternatives, the Alternative A 29 would have the greatest impact on the management of the transportation system. Alternative A 30 would generate the immediate need for additional maintenance and improvements to support the designated travel management system. Additional signage would be needed to designate the 31 32 allowable travel uses on all BLM system routes. The installation of gates, barricades, and other

closure devices would be needed to reinforce the travel restrictions. The construction of parking
 areas and other trailhead facilities would be needed to accommodate increased recreation usage.

35

36 In the short term, the management of the designated routes planned in Alternative A would

37 require additional maintenance efforts, particularly for replacing signs that are likely to be

removed or vandalized during the first few years after it has been implemented. In the long term,

39 however, the removal and vandalism of signs should decrease as users become familiar with the

40 new system. Also, as various user groups develop a sense of ownership for their favorite travel

41 routes and volunteer to adopt and maintain them, the need to utilize BLM funds for maintaining

- 42 many of the routes could decline over time.
- 43

44 Under Alternative A, approximately 165 miles of roads would be available to the public to use

45 with full-size vehicles (miles of routes included in <u>Table 2-2</u> in the General category). In

46 addition, another 96 miles of roads would be managed for administrative access (see Table 2-2 –

- 1 AA category). The costs of maintaining roads under Alternative A would be less than the 2 maintenance costs for the No Action Alternatives but higher than Alternatives B or C (See
- maintenance costs for the No Action Alternatives but higher than Alternatives B or C (See
 Appendix 12 Cost Analysis of Implementing TMP Alternatives). Under Alternative A the
- 4 estimated average annual cost of maintaining roads in the planning area would be \$8,425;
- 5 compared to \$10,725 for the No Action Alternative, \$5,950 for Alternative B, and \$8,075 for
- 6 Alternative C.
- 7
- 8 In addition to the General and Administrative Access roads, Alternative A would also include
- 9 maintaining 55 miles of motorized trails and 107 miles of non-motorized trails (see <u>Table 2-2</u>).
- 10 The estimated annual costs of maintaining these trails would be \$14,388; compared to \$8,112 for
- the No Action Alternative, \$7,172 for Alternative B, and \$9,922 for Alternative C (See Appendix
 12).
- 12 13
- 14 Alternative A would require initial implementation expenditures for constructing approximately
- 15 40 miles and reconstructing approximately 33 miles of roads and trails. The total costs of
- 16 construction and reconstruction are estimated to be \$423,000; compared to no initial
- 17 construction/reconstruction costs for the No Action Alternative, \$80,000 for Alternative B, and
- 18 \$187,100 for Alternative C. Alternative A would also require initial implementation
- 19 expenditures for closing and reclaiming routes, and installing travel management signs and
- 20 kiosks that are estimated to cost \$69,144; compared to no initial costs for the No Action
- 21 Alternative, \$69,942 for Alternative B, and \$69,410 for Alternative C (See <u>Appendix 12</u>). When
- 22 all costs of implementation are considered, it is estimated that Alternative A would cost
- approximately \$512,957; compared to \$163,064 for Alternative B, and \$274,507 for Alternative
- 24 C. Of the three action alternatives, Alternative A would provide the most additional
- 25 opportunities for motorized, mechanized, and non-motorized recreation uses but would be the
- least effective in meeting public land health standards in the planning area and would require thegreatest expense to implement.
- 28
- Mitigation: In addition to the mitigation listed under the No Action Alternative, add thefollowing:
- 31
- Develop area-specific recreation travel maps and brochures for public distribution that
 clearly describe route designations and travel use opportunities.
- 34
- 2. Implement an aggressive sign maintenance program to replace stolen and vandalized travelmanagement signs.
- 37
- 38 3. For new trail construction and reconstruction and maintenance of existing trails, utilize best 39 management practices to provide stable travel facilities that will minimize impacts to soils and 40 watersheds. Implement the recommendations outlined in <u>Appendix 6</u> and <u>Appendix 7</u>, which 41 establish conditions for guiding future management and development of the Texas Creek and
- 42 Salida trail systems.43
- 4. Coordinate with Fremont and Chaffee Counties for maintaining county roads that are being
- 45 maintained by the respective counties.
- 46

Alternative B: Under Alternative B, the existing BLM transportation system would only be slightly modified with additional travel routes and the use of motor vehicles would be limited to designated roads and trails. Of the action alternatives, this alternative would provide most opportunities for motorized, mechanized, and non-motorized recreation uses. A few additional non-motorized trails would be conditionally approved near the city of Salida.

6

7 The OHV Open designations for Grand Canyon Hills, Texas Creek, and Sand Gulch would be 8 changed to OHV Limited. The proposed OHV Open area for trials bikes at Turkey Rock would 9 not be designated. The use of bicycles and other mechanized vehicles would be limited to 10 designated routes, and the distance that vehicles can be taken off designated routes for parking and camping would be limited to 100 feet. Under this alternative BLM would coordinate with 11 12 Fremont and Chaffee counties to resolve maintenance issues with county roads that are currently 13 not being maintained, including requesting the counties to vacate FCR59A, FCR13, and CCR103 14 so that these roads could be managed by BLM.

15

16 Under Alternative B, the public would only be allowed to drive motor vehicles (OHVs) on routes

17 that have been identified on official travel management maps as open to specified motorized

18 uses. For the purpose of making it easier for the public to understand which routes are open to

19 OHVs and which are closed, the designated routes would also be identified on the ground with

signs. Under this system of management, only routes that are signed as open to OHVs would be

21 legally available for use with motor vehicles and users would be responsible for knowing and

22 complying with the route designations depicted on the official travel management maps.

23

Under this alternative, current management and enforcement problems resulting from the
 removal of closure signs would be reduced. Implementing a travel management policy which

26 limits OHVs to designated routes that are identified on maps and with signs would be easier for

the public to understand and easier for BLM to enforce; reducing potential route proliferation

and conflicts with non-motorized users. Reducing the distance motor vehicles can be driven off

29 designated routes for parking and camping from 300 to 100 feet, and limiting the use mountain

30 bikes to designated routes would also help to reduce potential route proliferation.

31

32 Implementation of Alternative B would establish a system of roads and trails with designated 22 travel uses that would appendix the overall menagement of the transportation system for

- travel uses that would generally benefit the overall management of the transportation system for planning construction and maintenance needs. This alternative would only include the
- 34 planning construction and maintenance needs. This alternative would only include the 35 construction of a few additional travel routes and allows motorized travel uses on the least
- construction of a few additional travel routes and allows motorized travel uses on the least
 number of existing and additional routes. Consequently, of the three action alternatives, the
- number of existing and additional routes. Consequently, of the three action alternatives, the Alternative P would have the lowest impact on the management of the transportation system.
- Alternative B would have the lowest impact on the management of the transportation system.
 Alternative B would generate the immediate need for additional maintenance and improvements

30 Anemative b would generate the infinedrate need for additional maintenance and improvements 39 to support the designated travel management system. Additional signage would be needed to

- 40 designate the allowable travel uses on all BLM system routes. The installation of gates,
- 41 barricades, and other closure devices would be needed to reinforce the travel restrictions. The
- 42 construction of parking areas and other trailhead facilities would be needed to accommodate
- 43 increased recreation usage.
- 44

45 In the short term, the management of the designated routes planned in Alternative B would

46 require additional maintenance efforts, particularly for replacing signs that are likely to be

1 removed or vandalized during the first few years after it has been implemented. In the long term,

2 however, the removal and vandalism of signs should decrease as users become familiar with the

new system. Also, as various user groups develop a sense of ownership for their favorite travel
 routes and volunteer to adopt and maintain them, the need to utilize BLM funds for maintaining

4 routes and volunteer to adopt and maintain them,5 many of the routes could decline over time.

6

7 Under Alternative B, approximately 113 miles of roads would be available to the public to use

8 with full-size vehicles (miles of routes included in <u>Table 2-3</u> in the General category). In

9 addition, another 116 miles of roads would be managed for administrative access (see Table 2-3).

10 The costs of maintaining roads under Alternative B would be the lowest of all the alternatives

11 (See <u>Appendix 12</u> – Cost Analysis of Implementing TMP Alternatives). Under Alternative B the

12 estimated average annual cost of maintaining roads in the planning area would be \$5,950; 13 compared to \$10,725 for the No Action Alternative \$8,425 for Alternative A and \$2,075 for

compared to \$10,725 for the No Action Alternative, \$8,425 for Alternative A, and \$8,075 for
 Alternative C.

14 15

16 In addition to the General and Administrative Access roads, Alternative B would also include

17 maintaining 22 miles of motorized trails and 43 miles of non-motorized trails (see <u>Table 2-3</u>).

18 The estimated annual costs of maintaining these trails would be \$7,172; compared to \$8,112 for

19 the No Action Alternative, \$14,388 for Alternative A, and \$9,922 for Alternative C (See

20 Appendix 12).

21

22 Alternative B would require initial implementation expenditures for constructing approximately

4 miles and reconstructing approximately 7 miles of trails. The total costs of construction and

reconstruction are estimated to be \$80,000; compared to no initial construction/reconstruction

costs for the No Action Alternative, \$423,000 for Alternative A, and \$187,100 for Alternative C.
 Alternative B would also require initial implementation expenditures for closing and reclaiming

27 routes, and installing travel management signs and kiosks that are estimated to cost \$69,942;

27 routes, and instanting travel management signs and klosks that are estimated to cost \$09,942, 28 compared to no initial costs for the No Action Alternative, \$69,144 for Alternative A, and

29 \$69,410 for Alternative C (See <u>Appendix 12</u>). When all costs of implementation are considered,

30 it is estimated that Alternative B would cost approximately \$163,064; compared to \$514,957 for

31 Alternative A, and \$274,507 for Alternative C. Of the three action alternatives, Alternative B

32 would provide the fewest additional opportunities for motorized, mechanized, and non-motorized

33 recreation uses but would be the most effective in meeting public land health standards in the

34 planning area and would require the least expense to implement.

35

36 Mitigation: In addition to the mitigation listed under the No Action Alternative, add the37 following:

38

39 1. Develop area-specific recreation travel maps and brochures for public distribution that40 clearly describe route designations and travel use opportunities.

41

42 2. Implement an aggressive sign maintenance program to replace stolen and vandalized travel43 management signs.

44

45 3. For new trail construction and reconstruction and maintenance of existing trails, utilize best 46 management practices to provide stable travel facilities that will minimize impacts to soils and

- 1 watersheds. Implement the recommendations outlined in Appendix 6 and Appendix 7, which
- 2 establish conditions for guiding future management and development of the Texas Creek and
- 3 Salida trail systems.
- 4

5 4. Coordinate with Fremont and Chaffee Counties for maintaining county roads that are being 6 maintained by the respective counties.

7 8 Alternative C (Proposed Action): Under Alternative C, the existing BLM transportation 9 system would only be modified with additional travel routes and the use of motor vehicles would 10 be limited to designated roads and trails. Of the action alternatives, this alternative would provide considerably more opportunities for motorized, mechanized, and non-motorized 11 12 recreation uses than Alternative B and fewer opportunities than Alternative A. Several 13 additional ATV trails would be conditionally approved for the Texas Creek OHV Area and 14 numerous non-motorized trails would be conditionally approved near the city of Salida.

15

16 The OHV Open designations for Grand Canyon Hills, Texas Creek, and Sand Gulch would be changed to OHV Limited and a new OHV Open area would be designated at Turkey Rock for 17 riding trials bikes. The use of bicycles and other mechanized vehicles would be limited to 18 19 designated routes, and the distance that vehicles can be taken off designated routes for parking 20 and camping would be limited to 100 feet. Under this alternative BLM would coordinate with 21 Fremont and Chaffee counties to resolve maintenance issues with county roads that are currently 22 not being maintained, including requesting the counties to vacate FCR59A, FCR13, and CCR103 23 so that these roads could be managed by BLM.

24

25 Under Alternative C, the public would only be allowed to drive motor vehicles (OHVs) on routes 26 that have been identified on official travel management maps as open to specified motorized 27 uses. For the purpose of making it easier for the public to understand which routes are open to OHVs and which are closed, the designated routes would also be identified on the ground with 28 29 signs. Under this system of management, only routes that are signed as open to OHVs would be 30 legally available for use with motor vehicles and users would be responsible for knowing and 31 complying with the route designations depicted on the official travel management maps. 32

33 Under this alternative, current management and enforcement problems resulting from the

- 34 removal of closure signs would be reduced. Implementing a travel management policy which
- 35 limits OHVs to designated routes that are identified on maps and with signs would be easier for
- 36 the public to understand and easier for BLM to enforce; reducing potential route proliferation
- 37 and conflicts with non-motorized users. Reducing the distance motor vehicles can be driven off 38 designated routes for parking and camping from 300 to 100 feet, and limiting the use mountain
- 39 bikes to designated routes would also help to reduce potential route proliferation.
- 40
- 41 Implementation of Alternative C would establish a system of roads and trails with designated
- travel uses that would generally benefit the overall management of the transportation system for 42
- planning construction and maintenance needs. This alternative, however, includes the 43
- 44 construction of many new travel routes and allows motorized travel uses many of the existing
- 45 routes. Consequently, implementation of Alternative C would have a substantial impact on the
- management of the transportation system. Alternative C would generate the immediate need for 46

1 additional maintenance and improvements to support the designated travel management system.

- 2 Additional signage would be needed to designate the allowable travel uses on all BLM system
- 3 routes. The installation of gates, barricades, and other closure devices would be needed to
- 4 reinforce the travel restrictions. The construction of parking areas and other trailhead facilities
- 5 would be needed to accommodate increased recreation usage.
- 6

7 In the short term, the management of the designated routes planned in Alternative C would

8 require additional maintenance efforts, particularly for replacing signs that are likely to be

9 removed or vandalized during the first few years after it has been implemented. In the long term,

10 however, the removal and vandalism of signs should decrease as users become familiar with the

- 11 new system. Also, as various user groups develop a sense of ownership for their favorite travel
- 12 routes and volunteer to adopt and maintain them, the need to utilize BLM funds for maintaining
- 13 many of the routes could decline over time.
- 14

15 Under Alternative C, approximately 153 miles of roads would be available to the public to use

16 with full-size vehicles (miles of routes included in <u>Table 2-4</u> in the General category). In

17 addition, another 103 miles of roads would be managed for administrative access (see Table 2-4

18 – AA category). The costs of maintaining roads under Alternative C would be second highest of

19 the alternatives (See <u>Appendix 12</u> – Cost Analysis of Implementing TMP Alternatives). Under

20 Alternative C the estimated average annual cost of maintaining roads in the planning area would

21 be \$8,075; compared to \$10,725 for the No Action Alternative, \$8,425 for Alternative A, and

- 22 \$5,950 for Alternative B.
- 23

24 In addition to the General and Administrative Access roads, Alternative C would also include

25 maintaining 28 miles of motorized trails and 77 miles of non-motorized trails (see <u>Table 2-4</u>).

The estimated annual costs of maintaining these trails would be \$9,922; compared to \$8,112 for

27 the No Action Alternative, \$14,388 for Alternative A, and \$7,172 for Alternative B (See

- 28 <u>Appendix 12</u>).
- 29

30 Alternative C would require initial implementation expenditures for constructing approximately

31 10 miles and reconstructing approximately 35 miles of roads and trails. The total costs of

32 construction and reconstruction are estimated to be \$187,100; compared to no initial

- 33 construction/reconstruction costs for the No Action Alternative, \$423,000 for Alternative A, and
- 34 \$80,000 for Alternative B. Alternative C would also require initial implementation expenditures
- 35 for closing and reclaiming routes, and installing travel management signs and kiosks that are

36 estimated to cost \$69,410; compared to no initial costs for the No Action Alternative, \$69,144

- 37 for Alternative A, and \$69,942 for Alternative B (See Appendix 12). When all costs of
- 38 implementation are considered, it is estimated that Alternative C would cost approximately
- 39 \$274,507; compared to \$514,957 for Alternative A, and \$163,064 for Alternative B. Alternative
- 40 C would provide additional opportunities for motorized, mechanized, and non-motorized uses
- 41 while meeting public land health standards and achieving Desired Future Conditions in the
- 42 planning area and could be implemented at moderate expense.
- 43

- Mitigation: In addition to the mitigation listed under the No Action Alternative, add the
 following:
- 3
- Develop area-specific recreation travel maps and brochures for public distribution that
 clearly describe route designations and travel use opportunities.
- 6

7 2. Implement an aggressive sign maintenance program to replace stolen and vandalized travel8 management signs.

9

3. For new trail construction and reconstruction and maintenance of existing trails, utilize best
 management practices to provide stable travel facilities that will minimize impacts to soils and
 watersheds. Implement the recommendations outlined in <u>Appendix 6</u> and <u>Appendix 7</u>, which
 establish conditions for guiding future management and development of the Texas Creek and
 Salida trail systems.

15

7. Coordinate with Fremont and Chaffee Counties for maintaining county roads that are notbeing maintained by the respective counties.

18

19 SOCIO-ECONOMIC

- 20 Affected Environment: The TMP for the Arkansas River area includes parts of Fremont,
- 21 Chaffee, and Custer counties.
- 22
- 23 <u>Population</u>:
- 24
- 25 Table 9-1: Population Growth between 1990 and 2005

Tuble 7 1. Topulation Glowin between 1770 and 2005						
Area	1990	2005	1990-2005 Percent Change			
Colorado	3,297,394	4,665,177	41.5 %			
Fremont County	32,273	47,766	48.0 %			
Chaffee County	12,684	16,968	33.8 %			
Custer County	1,926	3,860	100.0%			

26 Source: US Census Bureau 1990c, 2005c

27

28 Between 2005 and 2025, the population within Fremont County is projected to grow 41%; 49%

for Chaffee County, and 91% for Custer County. The state as a whole is projected to grow 45 %

30 for the same period. (From State of Colorado Population Projections, State Demography Office)

31

32 <u>Employment and Economy</u>: Between 1991 and 2000, the total number of employed people

33 increased by 53% in Fremont County, 53% in Chaffee County, and 104% in Custer County (See

Table 9-2). The greatest increase in employment occurred under the construction sector in all

35 three counties. The percentage of total employment growth for Fremont, Chaffee, and Custer

36 Counties between 1991 and 2000 was greater than total employment growth for the state.

37 Employment in Colorado between 1990 and 2025 is expected to increase 27 %.

38

Sector	Colorado	Fremont Co.		Co.	Chaffee Co.		Custer Co.	
	1991	2000	1991	2000	1991	2000	1991	2000
Agriculture	56,730	77,772	754	760	240	345	198	193
Mining	23,215	15,827	210	216	34	36	0	0
Construction	89,072	217,946	330	1,958	417	1,004	73	256
Manufacturing	192,836	214,560	1,018	1,145	331	286	13	25
Transportation, Communications and Utilities	109,129	160,878	448	552	201	199	42	48
Wholesale and Retail Trade	424,411	591,989	2,149	3,146	1,302	2,335	90	274
Finance, Insurance and Real Estate	144,911	204,577	534	917	275	777	77	170
Services	554,359	877,640	3,616	4,774	1,834	2,641	74	255
Government	338,302	382,311	3,098	5,169	1,436	1,663	146	232
Total Employment	1,932,966	2,743,500	12,159	18,607	6,070	9,286	713	1,454

1 Table 9-2: Sector Employment- Numbers of People Employed

Source: US BEA 2001

4 According to a 1999 model of the distribution of tourism employment, 9 % of employment was

5 generated by tourism in Fremont County, 24 % of employment was generated by tourism in

6 Chaffee County, and 15% was generated by tourism in Custer County (<u>Tourism Jobs Gain</u>

7 Ground in Colorado, Center for Business and Economic Forecasting, Inc., April 27, 2001).

8

2

3

9 <u>Income</u>: Between 2000 and 2004, total per capita personal income for the state increased 8.2 %.

10 During this same period, total per capita personal income increased 9.1% in Fremont County,

11 10.5% in Chaffee County, and 26.6% in Custer County (From US Department of Commerce,

12 Bureau of Economic Analysis).

13

14 As shown in Table 9-3, the per capita personal income for Fremont County in 2004 was \$20,431,

15 an increase of 65.9 % over the 1990 income but \$15,682 below the state average. For Chaffee

16 County in 2004 the per capita personal income was \$23,930, an increase of 81.4% since 1990 but

17 \$12,183 below the state average. For Custer County in 2004 the per capita personal income was

18 \$26,451, an increase of 75.8% since 1990 but \$9,662 below the state average.

19

20 Table 9-3: Per Capita Personal Income for 1990 and 2004

	1990	2004	
Colorado	\$ 19,575	\$ 36,113	
Fremont County	\$ 12,317	\$ 20,431	
Chaffee County	\$ 13,189	\$ 23,930	
Custer County	\$15,049	\$26,451	

21 Source: US BEA 2001

22

1 Recreation uses on public lands provide important economic benefits to local communities.

- 2 Within the area covered by the Arkansas River TMP, recreation and tourism are major
- 3 components of the area's economy. Colorado Travel Year 2005 (Longwoods International), a
- 4 report on overnight travel and tourism, illustrates the importance of the outdoors and public lands
- 5 to the experience of Colorado visitors who cite mountains, wilderness, and lakes/rivers as
- 6 important elements of their vacation experience. Royal Gorge Bridge and Park, Salida, and
- 7 Buena Vista are among the most popular destinations for overnight pleasure trips within
- 8 Colorado's South Central Travel Region. The Arkansas River is a regional and national
- 9 recreation destination – primarily because of the popularity and variety of the whitewater boating
- 10 opportunities. In recent years, the river has also become widely known as a destination for fly
- 11

fishing.

- 12
- 13 In addition to these major tourist attractions, the roads and trails on the public lands also provide
- 14 opportunities for various types of motorized, mechanized, and non-motorized recreation uses.
- Unlike the major attractions, however, which draw visitors from all over the US and from other 15
- 16 countries, the roads and trails on public lands are utilized more by local and regional populations.
- 17

18 **Environmental Consequences:**

19 **No Action Alternative:** The No Action Alternative would basically maintain the status quo. No

- 20 changes to the area's population, employment, and income would result under this alternative.
- Recreation behaviors, however, would evolve under less intensive management and travel 21
- 22 restrictions; i.e., off-road use, trespass, creation of new routes, and uncontrolled
- 23 motorized/mechanized play would increase in intensity and scale.
- 24

25 Alternatives A: Of the three action alternatives, Alternative A would provide the most number 26 and miles of additional trails. Under Alternative A, the local economy in Chaffee County, and 27 particularly the City of Salida, would benefit from additional trails for mountain biking and 28 hiking. Alternative A would also benefit the local economy in Fremont County by adding trails 29 in the Texas Creek Travel Management Area that would provide additional opportunities for 30 motorized recreation users. For most of the other subunits in the planning area, however, the differences between the alternatives would not be great enough to generate measurable economic 31 32 benefits, and the combination of travel uses on the public lands would probably not have a major 33 affect on population, employment, or income. Recreation behaviors, however, would evolve 34 under more intensive management and travel restrictions that would mitigate increased off-road 35 use, trespass, creation of new routes, and uncontrolled motorized/mechanized play.

- 36
- 37 <u>Alternative B</u>: Of the three action alternatives, Alternative B would provide the least number
- 38 and miles of designated OHV routes and no new additional routes would be developed.
- 39 Alternative B would be similar to the No Action Alternative and would probably have a
- 40 negligible affect on the area's population, employment, and income. Recreation behaviors,
- however, would evolve under more intensive management and travel restrictions that would 41
- 42 mitigate increased off-road use, trespass, creation of new routes, and uncontrolled
- 43 motorized/mechanized play.
- 44

Alternative C: Alternative C would provide fewer designated OHV routes than Alternative A 1 2 but more than Alternative B. Alternative C would also allow development of some new 3 additional trails but substantially fewer than Alternative A. Under Alternative C, the local 4 economy in Chaffee County, and particularly the City of Salida, would benefit from additional 5 trails for mountain biking and hiking. Alternative C would also benefit the local economy in 6 Fremont County by adding trails in the Texas Creek Travel Management Area that would 7 provide several additional trails for motorized recreation users. For most of the other subunits in 8 the planning area, however, the differences between the alternatives would not be great enough 9 to generate measurable economic benefits, and the combination of travel uses on the public lands 10 would probably not have a major affect on population, employment, or income. Recreation behaviors, however, would evolve under more intensive management and travel restrictions that 11 12 would mitigate increased off-road use, trespass, creation of new routes, and uncontrolled 13 motorized/mechanized play. 14 15 **PUBLIC PARTICIPATION** 16 17 PERSONS/AGENCIES CONSULTED: 18 19 June 9, 2003: Notice of Intent to Prepare the Arkansas River Travel Management Plan and 20 Amend the Royal Gorge Resource Management Plan published in the Federal Register. 21 22 September 15, 2004: Issued news releases and mailed letters to approximately 300 citizens 23 announcing the beginning of the planning process and public meetings scheduled for October 5 24 and 6. 25 26 October 5, 2004: Conducted a public meeting in Canon City (attended by 76 people) explaining 27 the purpose of the travel management plan and asking for public involvement and soliciting input 28 for identifying issues and concerns that need to be addressed in the TMP. 29 30 October 6, 2004: Conducted a public meeting in Salida (attended by 59 people) explaining the purpose of the travel management plan and asking for public involvement and soliciting public 31 32 input for identifying issues and concerns that need to be addressed in the TMP. 33 34 November-December, 2004: Analyzed public comments from 288 individuals and organizations 35 in response to request for public input and identified major issues and concerns. 36 37 January 4, 2005: Published summary of identified issues and concerns on the Colorado BLM 38 website. 39 40 January-March, 2005: Conducted personal interviews with 40 selected stakeholders to identify 41 issues and concerns. 42 43 March 2, 2005: Presented a briefing of the travel management planning process at the Front 44 Range Resource Advisory Council (RAC) meeting. 45

1 2 3	June 30, 2005: Issued news releases and mailed letters to approximately 300 citizens announcing the beginning of the planning process and public meetings scheduled for August 4 and 8.
4 5	July 6, 2005: Conducted a field trip of portions of the Arkansas River TMP planning area for the Front Range RAC.
6 7 8 9	August 4, 2005: Conducted a public meeting in Salida (attended by 41 people) to give stakeholders and opportunity to comment on the TMP DFCs and MOs.
10 11 12	August 8, 2005: Conducted a public meeting in Canon City (attended by 30 people) to give stakeholders and opportunity to comment on the TMP DFCs and MOs.
13 14 15	September 6, 2005: Presented a briefing to the Salida City Council on the Arkansas River TMP process.
15 16 17 18	September 29, 2005: Presented a briefing on the Arkansas River TMP to the Fremont County Commissioners.
19 20 21	October 15, 2005: Presented a briefing on the Arkansas River TMP to the Crestone Quiet Use Commotion Group.
21 22 23 24	October 2005: Presented a briefing on the Arkansas River TMP to the Custer County Commissioners.
24 25 26 27	November 2005: Presented a briefing on the Arkansas River TMP to the Chaffee County Commissioners.
27 28 29	January 25, 2006: Presented trials events issue to the Front Range RAC.
30 31 32	February 3, 2006: Published summary of the proposed TMP DFCs and MOs on the Colorado BLM website, including a summary of the comments received from the public.
33 34 35	March 15, 2006: Discussed alternatives for addressing trials events and year round trials practice areas at Front Range RAC meeting.
36 37 38 39	May 10-11, 2006: Conducted field trip to Texas Creek and Turkey Rock trials event areas for Front Range RAC and developed alternatives for addressing trials events and year round trials practice areas.
40 41	September 19, 2006: Presented the Arkansas River TMP Alternatives to the Front Range RAC.
42 43 44	November 15, 2006: Discussed Front Range RAC comments and recommendations pertaining to the alternatives for the Arkansas River TMP.
44 45 46	January 20, 2007: Presented an overview of the alternatives for the Arkansas River TMP to the Great Old Broads for Wilderness group in Westeliffe, Colorado

46 Great Old Broads for Wilderness group in Westcliffe, Colorado.

- 1 February 1, 2007: Presented an overview of the process used for conducting the Arkansas River
- 2 TMP to the Upper Arkansas Watershed Council in Salida, Colorado.
- 3

4 <u>PERSONS/AGENCIES CONSULTED</u>:

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- 6 Front Range Resource Advisory Council
- 7 Division of Wildlife
- 8 U.S. Forest Service
- 9 Fremont, Chaffee, and Custer County Commissioners
- 10 Colorado State Parks
- 11

12 <u>INTERDISCIPLINARY REVIEW</u>:

13		<u> </u>	
14	Name	Title	Area of Responsibility
15	Erik Brekke	Wildlife Biologist	Wildlife, T&E, Migratory Birds
16	John Dow	Environmental Coordinator	National Environmental Policy Act
17	Mike Gaylord	Fire Mit./Educ. Spec.	Air, Hazardous Materials
18	Dave Gilbert	Fisheries Biologist	Aquatic Wildlife, Riparian/Wetlands
19	Lindell Greer	Realty Specialist	Realty
20	Tom Grette	Range Management Spec.	Range, Farmland, Weeds
21	Jack Hagan	Law Enforcement Ranger	Law Enforcement
22	Dave Hallock	Realty Specialist	Realty
23	John Nahomenuk	River Manager	Recreation, Wilderness, Visual, ACEC
24	Leah Quesenberry	Outdoor Recreation Planner	Recreation, Wilderness, Visual, ACEC
25	Ken Reed	Forester	Forestry
26	Ed Skerjanec	Fire Management Officer	Fire
27	John Smeins	Hydrologist	Hydrology, Water Quality/Rights
28	Melissa Smeins	Geologist	Minerals, Paleontology
29	Dave Toelle	Fire Ecologist	Air, Vegetation
30	Joseph Vieira	Natural Resource Specialist	Geographic Information System
31	Dave Walker	Transportation Planner	Transportation, Noise, Socio-Economic
32	Monica Weimer	Archaeologist	Cultural, Native American
33	Jeff Williams	Range Management Spec.	Vegetation
34			
35			

1	APPENDIX 1
2	Summary of the Public Comments
3	Issues and Concerns and Recommended Actions
4	
5 6	Background
7 8 9 10 11 12 13	On September 15, 2004 notifications were issued via news releases and on the Colorado BLM website to inform the public that the Royal Gorge Field Office was planning to begin work on the Arkansas River Travel Management Plan (TMP) and to announce that public meetings had been scheduled to begin the scoping process. In addition to the newspaper and website notifications, letters were also mailed to approximately 150 known individuals and groups who had participated in the Gold Belt Travel Management Plan.
13 14 15 16 17 18 19 20 21	On October 5 th and 6 th , public meetings were held in Canon City and Salida, respectively. The purpose of the meetings was to provide the public with an opportunity in the early stages of the planning process to assist BLM in identifying the issues and concerns that need to be addressed in the TMP. According to the registration sheets for these meetings, 76 people attended the meeting in Canon City and 59 people attended the meeting Salida, however, unofficial head counts at both meetings indicated that more people actually attended the meetings than had signed the registration sheets.
22 23 24 25 26 27 28	As of December 28, 2004, the Royal Gorge Field Office has received letters and email documents from 288 individuals and organizations in response to the request for public input. Because most of the respondents expressed concerns and opinions that were shared by others, it was easily possible to segregate the respondents into seven distinctive types or groups of stakeholders based on the primary interests and concerns contained in their letters. The seven groups of stakeholders include:
28 29 30 31 32 33 34 35 36 37 38	Environmental Stakeholders - Stakeholders who are primarily concerned with protecting the natural resources, minimizing impacts on wildlife, and managing public lands for primitive and quiet uses. There were 43 respondents included in this stakeholder category. Stakeholders represented by this group included: Friends of Fourmile, The Colorado Mountain Club, San Luis Valley Ecosystem Council, Upper Arkansas and South Platte Project, Center for Native Ecosystems, Arkansas Valley Audubon Society, Environmental Action Club of Colorado College, Greater Arkansas River Nature Association (GARNA), The Wilderness Society, Rocky Mountain Recreation Initiative, The Quiet Use Coalition, The Pikes Peak Group of the Sierra Club
39 40	Motorized Recreation Stakeholders – Stakeholders who are primarily concerned with expanding and enhancing opportunities on public lands for motorized recreation uses. There

41 were 106 respondents included this stakeholder category. Stakeholders represented by this group

- 1 included: Colorado Motorcycle Trail Riders Association (CMTRA), Royal Gorge ATV Club, 2 Colorado Off Highway Vehicle Coalition (COHVCO), Colorado Association of 4Wheel Drive 3 Clubs, Inc., Rocky Mountain Trials Association, High Rocky Riders Off Road Club, Road Bike 4 and Dirt Bike Colorado 500 Charity Invitational Motorcycle Rides 5 6 **Non-motorized and Mechanized Recreation Stakeholders** – Stakeholders who are primarily 7 concerned with expanding and enhancing opportunities on public lands for hiking, horseback 8 riding, and bicycle riding. There were 120 respondents included in this stakeholder category. 9 Stakeholders represented by this group included: Arkansas Valley Cycling Club, Chaffee 10 County Visitors Bureau, Salida Area Parks Open Space and Trails (SPOT), Backcountry Horsemen of America, Chaffee County Running Club 11 12 13 **Non-Recreation Uses Stakeholders** – Stakeholders who are primarily concerned with 14 facilitating uses that occur on public lands other than recreation uses, such as grazing, irrigation, and utility operations. There were 9 respondents included in this stakeholder category. 15 16 Stakeholders represented by this group included: The Fremont County Cattlemen's Association, 17 Upper Arkansas Water Conservancy District. 18 19 Affected Landowners – Stakeholders who identified themselves as owners of lands adjoining 20 BLM lands and who are affected by activities occurring on the public lands. There were only 3 respondents who identified themselves as affected landowners. 21 22 23 **Government Agencies** - Stakeholders who identified themselves as representing various federal, 24 state, county, and city agencies that are affected by activities occurring on the public lands. Only 25 3 letters were received from representatives of other government agencies. Stakeholders 26 represented by this group included: City of Salida, Chaffee County Board of Commissioners, 27 USDI, Fish and Wildlife Service 28 29 Neutral Stakeholders - Letters were also received from 4 respondents whose comments did not 30 reflect a strong connection with any of the above groups of stakeholders. 31 32 **Summary of Comments** 33 34 The following is a summary of the public comments for each of the stakeholder groups. The 35 group summaries are also divided into two parts. The first part is a list of the Issues and 36 **Concerns** that were expressed by the individual respondents within the stakeholder group, and 37 the second part is a list of the group's **Recommended Actions**. 38 39 It should be noted that some of the comments were echoed by many of the other respondents 40 within the same stakeholder group, whereas other comments may have only been expressed by
- 41 one or two respondents within the group. In those instances where the same comment has been
- 42 repeated by numerous respondents it will only appear one time. Also, in order to summarize the
- 43 comments into short bullet statements to reduce the size of this document, many of the comments
- 44 have either been edited or paraphrased, while other statements are presented verbatim.

1 **Environmental Stakeholders**

Issues and Concerns

2 3	Issues and	l Concerns
4 5	1.	Concerned about protecting all Wilderness Study Areas and Citizens Wilderness
6		Proposal Areas from motorized incursions
7	2.	Opposed to any expansion of motorized and mechanized uses into roadless areas
8		identified by the Upper Arkansas and South Platte Project
9	3.	Supportive of limiting motorized uses in ACECs, RNAs, Colorado Natural Heritage
10	4	Program Conservation Areas, and other recognized sites of biological concern
11 12	4.	Supportive of maintaining conditions of the lands and resources to meet BLM public land health standards
12	5	Supportive of limiting recreation uses to favor protecting wildlife and wildlife habitat
14	5. 6.	Supportive of limiting recreation uses to favor protecting whether and whether hastar Supportive of limiting recreation uses to favor protecting vegetation, soils, and water
15	0.	resources
16	7.	Supportive of limiting recreation uses to favor maintaining natural landscapes
17		Supportive of controlling motorized access from private lands
18		Concerned about the ability of BLM to enforce off-highway vehicle restrictions and
19		to control the proliferation of illegal routes
20	10.	Concerned about reducing conflicts between motorized and non-motorized users
21	11.	Concerned about the negative impacts to birds and other wildlife resulting from
22		motorized recreation activities, including noise and increased amounts of disturbing
23		human activity
24	12.	Concerned about the potential degradation of environmental qualities resulting from
25		off-highway vehicle uses, including impacts to wildlife and plant habitats, soils and
26	10	water quality, and solitude
27	13.	Concerned that greater amounts of illegal and damaging use will occur if off-highway
28	14	vehicle opportunities are expanded
29 30	14.	Supportive of limiting recreation uses to favor protecting federally listed endangered and threatened species
31	15	Concerned that there are increasingly fewer areas available to experience solitude
32	15.	without noise and disturbance caused by motorized recreational vehicles
33	16	Concerned about the degrading impacts of off-highway vehicles on landscapes and
34	10.	soundscapes
35	17.	Concerned that expanding off-highway vehicle opportunities outside of a few
36		concentrated use areas will result in expanding the impacts associated with
37		recreational uses to larger portions of the Arkansas River Travel Management
38		Planning area
39	18.	Supportive of limiting recreation uses to favor maintaining wildlife habitat and
40		landscape connectivity to avoid fragmenting areas of core wildlife habitat
41	19.	Concerned about the potential degrading impacts to fish resulting from sediment
42		originating from roads and trails
43	20.	Concerned about the effects of roads and trails on wildlife, including mortality from
44		collisions, modification of animal behavior, disruption of physical environment,
45		alteration of chemical environment, spread of exotic species, and changes in the
46		human use of the lands and water

	21. Concerned about the increased potential for vandalism, theft, and damage to archeological and cultural sites resulting from motorized
Envi	ironmental Stakeholders
Reco	ommended Actions
1	. Avoid and eliminate motorized and mechanized recreation uses in Badger Creek, Red Gulch (Bear Mountain), and Big Hole (Texas Creek/Table Mountain)
2	2. Install barriers to prevent motorized incursions into Grape Creek WSA
	 Install gate near top end of Bear Gulch access road to Grape Creek WSA and limit public access to foot and horse travel only
4	 Install barriers to prevent motorized incursions into McIntyre Hills WSA (Five Points Gulch)
5	5. Install barriers to prevent motorized incursions into Browns Canyon
	 Allow foot and horse access only in Railroad Gulch and northward to the divide with Longs Gulch (coordinate with FS)
7	7. Relocate mountain bike and motorized trails in Castle Gardens and Kings Canyon to protect buckwheat
8	8. Control uses in Longfellow Gulch to protect bighorn sheep lambing area
	D. Limit motor vehicles in the Badger Creek subunit to the Sand Gulch Road and Power Line Road
1	0. Continue motorized closure of Bloody Gulch to protect soils, water quality, fish, and
	riparian communities
1	1. Limit motorized uses in the Texas Creek OHV area to existing boundaries
	 Increase the levels of road and trail maintenance and law enforcement in Texas Creek OHV area to limit resource damage
1	 Allow no public motorized uses in the Table Mountain Roadless Area (as described in the roadless area inventory conducted by the Upper Arkansas and South Platte Project) to protect livestock, wildlife, vegetation, primitive recreation, and scientific resources
1	4. Disallow any proposal for a long-distance motorized trail through the Big Hole or other subunits in the planning area
1	5. Limit off-highway vehicles to designated routes
	6. Limit mountain bikes to designated routes
	7. Construct and maintain trails only with personnel who are trained in sustainable trail
	building techniques
1	8. Restrict off-highway vehicles to major existing routes only
	9. Close all damaging and unnecessary routes; close duplicative, parallel and spur off- highway vehicle routes
2	20. Close some areas altogether to off-highway vehicles
	21. Protect big horn sheep lambing areas in Longfellow Gulch by closing it to off-highway
2	vehicles and other recreation uses during lambing season
	22. Find an alternative to high school kids playing on dirt bikes on BLM lands near Salida
	23. Protect bat populations in Longfellow Gulch from recreational disturbances with
	educational signing and protective barriers
2	24. Disallow motorized access to BLM from adjoining private lands

1	25. Protect the wildlife corridor crossing Hwy 285 south of Poncha Springs
2	26. Disallow off-highway vehicles in Fernleaf Gulch
3	27. Restrict motorcycle trials events to reduce resource damage caused by these events
4	28. Utilize citizen and special use volunteer groups to assist in managing off-highway
5	vehicles, mountain biking, and non-motorized uses
6	29. Avoid designating any off-highway vehicle routes in a future Browns Canyon Wilderness
7	proposal
8	30. Coordinate with the Forest Service in designating any routes leading to and from
9	National Forest lands, especially at the upper end of Railroad Gulch and from Turret
10	31. Stop illegal motorized access from Forest Road 184 into Browns Canyon WSA
11	32. Do not legitimize user created routes by designating them in the travel management plan
12	33. Limit the distance that motorized users may travel from designated routes for purposes of
13	camping and retrieving game
14	34. Protect the potential wilderness areas identified by the Central Colorado Wilderness
15	Coalition in the Badger Creek, Browns Canyon, and Table Mountain areas
16	35. Clean up illegal dump sites
17	36. Change the OHV Open areas in Sand Gulch, Texas Creek, and Grand Canyon Hills to
18	OHV Limited
19	37. Implement a monitoring program to evaluate the effectiveness of the travel management
20	plan
21	38. Avoid creating "cherry stem" trails that often encourage the development of user created
22	branches
23	39. Protect the eastern half of West McCoy Gulch subunit for maintaining elk habitat and
24	migration routes
25	40. On travel maps, show routes that have no legal public access as being unavailable for
26	motorized travel
27	41. Require the town of Salida to find motorcycle play areas off BLM lands
28	42. Provide adequate signage and other route information to effectively inform and educate
29 20	users
30 21	43. Designate routes for off-highway vehicles only to the extent that they can be effectively
31 32	monitored, maintained, and enforced within available and foreseeable levels of funding
32 33	44. Manage all forms of recreation in such a way that maintains the fundamental ecological nature and health of the land
33 34	45. Consciously plan for quiet, remoteness, and wildness to ensure that the experiential
34 35	character of the landscape is maintained
36	46. Develop transportation plans as both travel management and recreation management
37	plans, not just as motorized vehicle plans
38	47. Establish written trail objectives and desired future conditions for every designated route
39	to assure resource protection and user satisfaction while retaining the current levels of
40	quiet and numbers of users
41	48. Plan for increased numbers of users that can be expected to result from population growth
42	49. Base travel route designations on the spatial patterns or roads and road densities instead
43	of basing it solely on mileage
44	50. Include a plan in the travel management plan for obliterating and restoring closed/excess
45	roads

1	51. Only allow off-highway vehicle uses in a manner that protects natural resources,
2	environmental values, public safety and the experience of the users
3	52. The travel management planning process should prescribe travel on routes that are
4	environmentally sound, free of user conflicts, and that are manageable. Thus, in areas
5	where designated travel routes do not exist, the analysis should begin with a blank map
6	that does not consider existing user created routes that do not meet these criteria
7	53. Separate motorized and non-motorized uses as much as possible
8	54. Emphasize providing recreational opportunities near communities (backyard
9	opportunities) instead of developing opportunities that will attract high numbers of users
10	from distant population centers
11	55. Include management of administrative minerals (aggregate) in the travel management
12	plan to locate and manage sources of material for maintaining roads and trails
13	56. Avoid motorized spurs that end in sensitive areas, such as roadless area boundaries
14	57. In designating travel uses, utilize demographic studies to assist in predicting the types of
15	recreational experiences that people will be seeking in the future instead of just
16	considering the types of recreation and travel that people are engaging in today
17	58. Develop a resource and recreation capacity model that establishes indicators and
18	standards that are linked to land function and user experience
19	59. Consider limiting motorized access to street legal, four-wheel drive vehicles in areas
20	where a quiet experience is the desired condition
21	60. Disallow exclusive private land access by signing boundaries and blocking and
22	obliterating roads that lead from private lands
23	61. Do not allow any buffer off designated roads for allowing parking, camping, and game
24	retrieval
25	62. Develop a program to reduce the spread of noxious weeds by recreation users
26	63. Ensure that the wilderness suitability of wilderness quality lands are not impaired
27	64. Disallow the use of any new types of recreation uses until the BLM has had the
28	opportunity to study the effects of such uses to determine if they should be allowed or
29	prohibited on the public lands
30	65. Limit off-road vehicle use and other forms of intense recreation uses in confined areas
31	within established boundaries
32	66. Design and locate travel routes to minimize erosion and avoid critical ecological areas
33	67. Analyze the potential impacts from noncompliant (illegal) off-road vehicle use that can
34	be expected to occur after the travel management plan is implemented
35	68. Consider the importance of maintaining landscape linkages for wildlife species to move
36	between for feeding, resting, and hiding
37	69. Adequately consider the economic impacts of the alternatives including the costs of law
38	enforcement, maintenance, trash removal, and monitoring resource impacts
39	70. Permit off-highway vehicle use only to the extent that the use is manageable
40	71. Analyze impacts to aquatic resources (riparian), soils, noise and air pollution, special
41	status plants and animals, plant communities and animal habitat, and to archaeological,
42	paleontological, and cultural resources
43	72. BLM should distinguish legal roads from illegal user created routes by defining a road as,
44 45	"A travel route that has been improved and maintained by mechanical means to insure
45 46	relatively regular and continuous use. A way maintained solely by the passage of
46	vehicles does not constitute a road."

1	73.	Develop a larger more visible ATV license, increase ATV license fees, and allocate a
2		larger portion of the license fees to enforcement.
3	74.	Convert existing two-track roads into single-track trails by placing rocks and dead trees
4		and tree limbs to establish narrow travel ways that will eventually re-vegetate
5		
6	<u>Motor</u>	ized Recreation Stakeholders
7	-	
8	Issues	and Concerns
9	1	
10	1.	Supportive of expanding and enhancing motorized recreation opportunities
11	2.	Supportive of improving safer motorized recreation experiences
12	3.	Supportive of expanding single-track opportunities for motorcycles
13	4.	Concerned about the potential loss of existing motorized recreation opportunities that
14	_	might result from the travel management plan
15		Supportive of conducting a complete inventory of all "existing" roads and trails
16	6.	Concerned that the travel management plan be in compliance with the provisions
17		contained in the Multiple Use and Sustained Yield Act and the Federal Land Policy
18		Management Act
19	7.	Concerned about the importance of the Arkansas River travel management planning area
20		to motorized recreation users
21	8.	Concerned that the closures of existing motorized trails and areas will displace all users
22		to fewer areas that will result in overcrowding and increased conflicts between various
23		types of motorized users (4X4, ATV, motorcycle), thus increasing risks of accidents, and
24		decreasing user satisfaction.
25	9.	Concerned that the potential closures of existing motorized routes will reduce recreation
26		opportunities for users with physical limitations due to age or disabilities
27		
28	<u>Motor</u>	rized Recreation Stakeholders
29		
30	Recon	nmended Actions
31		
32	1.	Expand and enhance Texas Creek OHV Area by reopening previously closed trails and
33		constructing new single-track motorcycle and ATV trails as described in the proposal
34		submitted by the Colorado Motorcycle Trail Riders Association
35	2.	Preserve existing and new single-track motorcycle trails by physically barricading entry
36		points so that they cannot be accessed by ATVs
37	3.	Relocate trail segments out of riparian areas instead of closing trails entirely
38	4.	Retain and develop more motorized roads and trails throughout the entire travel
39		management planning area
40	5.	Construct new motorized connector trails to provide loops between existing motorized
41		roads and trails
42	6.	Initiate meetings between private landowners and motorized recreation users to help
43		reduce conflicts between them
44	7.	Re-route existing trails and roads around private lands
45		Allocate more money and resources into maintaining roads and trails
16	0	Drotast the network recourses

46 9. Protect the natural resources

1 2	10. Establish small practice areas for "trials-type" motorcycle riders at Volcano Gulch, Texas Creek, and Sand Gulch
$\frac{2}{3}$	11. Allocate more funds and place higher emphasis on catching and prosecuting violators
4	instead of taking away opportunities from legitimate users
5	12. Utilize existing route segments and construct some new segments to establish a long-
6	distance multiple use trail between Parkdale and Salida for hikers, horses, bicycles,
7	motorcycles, and ATVs (proposed Big Horn Trail)
8	13. Manage the area to provide as much access as possible for both motorized and non-
9	motorized users
10	
11	Non-Motorized Recreation Stakeholders
12	
13	Issues and Concerns
14	
15	1. Concerned about reducing conflicts (noise and safety concerns) between motorized,
16	mechanized, and non-motorized users
17	2. Supportive of managing recreation uses to protect wildlife and wildlife habitat
18	3. Supportive of managing recreation uses to protect vegetation, soils, and water resources
19	4. Concerned about maintaining opportunities for horseback riding
20	5. Supportive of limiting recreation uses to favor protecting federally listed endangered and
21	threatened species
22	6. Supportive of preserving and expanding non-motorized trail systems around and near the
23	town of Salida
24	7. Supportive of enhancing economic and social benefits (tourism) around Salida and
25	Chaffee County
26	8. Concerned about ineffective enforcement of off-road use of OHVs
27	9. Supportive of enhancing current available trails
28	10. Concerned about the proliferation of user created trails
29	11. Concerned about trash dumping on public lands
30	12. Concerned about legal access to trails from downtown Salida (will users have to cross
31	railroad tracks to access trails?)
32	13. Concerned about liability to the City of Salida for trails located on city-owned property
33	near S mountain
34	14. Concerned about who will maintain trail systems proposed by Arkansas Valley Cycling
35	Club
36	
37	Non-Motorized Recreation Stakeholders
38	
39 40	Recommended Actions
40	1 I imit off highway vahialas to designated routes
41 42	 Limit off-highway vehicles to designated routes Disallow mountain bike use in Railroad Gulch
42 42	
43 44	3. Limit mountain bikes to designated routes
44 45	4. Continue to allow horseback riding in Texas Creek, Bear Gulch, Grape Creek, McIntyre Hills, Sangre Footbills, and Sunset City (Copper Gulch)
4J	Hills, Sangre Foothills, and Sunset City (Copper Gulch)

1	5.	Close Table Mountain to off-highway vehicles and allow hiking and horseback riding
2 3	6	only Manage Badger Creek primarily as a non-motorized area
4		Develop a horse and hiking trail in East Gulch from Texas Creek to the Big Hole
5 6	0.	Install BLM boundary signs on the south side of the Sunset City area (Grape Creek subunit)
7	0	Provide some trails for foot traffic only near Salida to eliminate potential accidents with
8).	motorized and mountain bike users
9	10	Develop a bicycle and hiking trail between Salida and Wellsville
10		Relocate motorized and non-motorized trails in Castle Gardens
11		Develop a non-motorized, non-fee mountain trails park for bicyclists, runners, and
12	12.	walkers north of Salida, near the S-Mountain area, and stretching from Dead Goat Gulch
13		to Longfellow Gulch
14	13.	Develop hiking and bicycle single-track loops connecting from the Power Line trail south
15	10.	of Salida
16	14.	Restrict off-highway vehicles in Texas Creek to the current system of designated routes
17		Separate motorized and non-motorized users
18		Allocate the acres of land and miles of routes in proportion to the numbers of users of
19		particular types of use
20	17.	Comply with Public Land Health Standards
21	18.	Provide some separate trails for mountain biking and some for horseback riding to reduce
22		safety conflicts between bikers and horse users
23	19.	Provide additional bicycle trails for beginner and moderately skilled riders
24	20.	Close Castle Gardens to all motorized and mechanized uses to eliminate damage to
25		vegetation (buckwheat)
26	21.	Close Railroad Gulch to motorized and mechanized uses
27	22.	Close Longs Gulch to motorized use
28	23.	Allow mountain biking in Longfellow Gulch with seasonal closures during bighorn sheep
29		lambing seasons
30	24.	Protect bat populations in Longfellow Gulch by barricading abandoned mines where they
31		reside
32	25.	Allow the creation of single-track non-motorized trails north of Pinion Hills and County
33		Road 175 (Ute Trail) in the Salida subunit
34		
35	<u>Non-R</u>	Recreation Uses Stakeholders
36	T	
37	Issues	and Concerns
38	1	Concerned about material access to invigation facilities for maintenance and
39 40	1.	Concerned about protecting access to irrigation facilities for maintenance and
40 41	r	construction of ditches and related irrigation structures Concerned about maintaining access to grazing allotments for managing livestock and
41	۷.	
42 43	3	maintaining improvements Concerned about maintaining quality big game hunting opportunities on public lands
43 44		Concerned about maintaining quarty big game nunting opportunities on public lands Concerned about maintaining access for fire fighting and search and rescue
44 45		Concerned about the lack of enforcement of existing regulations to control damage by off
45 46	5.	road travel
10		

- 6. Concerned about the proliferation of user created roads
- 7. Concerned about the lack of public education to reduce damage caused by off road travel

2
3
4

Non-Recreation Uses Stakeholders

6 Recommended Actions

- 8
 9
 1. Include specific language in the travel management plan that will protect the rights of ditch owners to construct, operate, maintain, or enlarge any irrigation ditch as provided
 10
 by law
 - 2. Provide alternate routes where roads have been closed to protect riparian areas so that grazing permittees can still access their grazing allotments
 - 3. Close more roads to public motorized access
- 4. Address damage from motorized use by enforcement of existing rules and educating public, not by closing more roads
 - 5. Employ more and better public education programs to reduce damage caused by off road travel

19 Affected Landowners

21 Issues and Concerns

- 1. Concerned about avoiding conflicts between recreation users and private landowners
- 2. Supportive of providing multiple use opportunities for both motorized and non-motorized recreation users

26 <u>Affected Landowners</u>27

Recommended Actions

1. BLM should help with preventing trespass on private property in Sand Gulch resulting from motorized recreation uses on public lands

33 Government Agencies

35 Issues and Concerns

Supportive of providing multiple use opportunities for both motorized and non-motorized
 recreation users

- 39 2. Concerned about enhancing economic and social benefits (tourism)
- **3.** Concerned about protecting Federally listed endangered and threatened species

1	Government Agencies
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Recommended Actions

- 1. Leave current routes open to current use patterns and continued multiple use of motorized and non-motorized activities and add new routes for the use of mountain bikers and hikers
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 2. Develop mountain bike trails north of Salida stretching from Dead Goat Gulch to
 9
 Longfellow Gulch
 - 3. Develop a mountain bike trail from Salida to Wellsville
 - 4. Develop a mountain bike trail along the powerline road on the south side of the Arkansas River
 - 5. Protect federally listed endangered and threatened species

15 Neutral Stakeholders

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17 Issues and Concerns18

- 1. Concerned that public lands should be managed to benefit all users
- 2. Concerned that the travel management plan should be an integrated process that takes into consideration both the users and the natural resources
- 3. Concerned with how BLM will make decisions on trails that are not solely on BLM lands but cross onto private lands or lands administered by other agencies
- 4. Concerned with how BLM will complete the road and trail inventory and determine when it is completed
- 26 5. Concerned with how BLM will fund the construction, improvement, and maintenance of
 27 the trails that are included in the approved transportation system

29 Neutral Stakeholders

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30 31 **Recommended Actions**

- 1. Create connector routes where possible to enhance the trail systems
- 34 2. Implement adequate signing and enforcement to keep travel on trails
- 35 3. Involve local clubs, groups, and interested individuals to assist in monitoring use and in
 36 maintaining the trail systems
- Prevent motorcycles, ATVs, and 4X4 vehicles from encroaching on trails that have been traditionally used by non-motorized users
- 39 5. Implement educational signs, workshops, and brochures to gain compliance with travel
 40 restrictions
- 41 6. Involve individual users and user groups in designing trail systems
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1	APPENDIX 2
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3	ARKANSAS RIVER TMP SUBUNITS
4	Issues and Concerns, Desired Future Conditions, and
5	Management Objectives
6 7 8 9	BROWNS CANYON (Subunit A) General Setting - The Browns Canyon subunit contains a total of 6,757 acres, all of which are BLM public lands. The subunit consists of a narrow corridor of BLM lands that straddles a 5 mile-long section of the Arkansas River.
10 11 12 13	The Arkansas River is a national destination area for whitewater boating and this is the most heavily used section of the river. The BLM lands in the subunit adjoin the San Isabel National Forest along the eastern border of the subunit.
14 15 16 17 18 19 20 21 22 23 24 25	The landscape in the subunit is extremely rugged and dominated by massive granite rock formations. Because of its ruggedness, most of the subunit has remained unroaded. The only access road into the subunit is Chaffee County Road 194. CR 194 enters the subunit from Highway 285 and ends at the Arkansas River at the Hecla Junction Recreation Site. The recreation site is a major ingress and egress point for rafters. During the rafting season, the recreation site and the river itself are used daily by hundreds of visitors. Off-river access beyond the recreation site is limited to foot travel, where visitors have developed a myriad of user created foot trails extending from the recreation site along the west bank of the river. The amount of recreation use on the east side of the river is comparatively low, however, due to the difficulty of crossing the river to access it. Access to BLM lands in the eastern portions of the subunit is also limited by the tracks for the Union Pacific Railroad that runs along the east bank of the river. Users reach the narrow strip of BLM lands east of the river either by boat or by hiking down through National Forest lands that adjoin the eastern boundary of the subunit.
26 27 28 29 30 31	The entire subunit lies within the Browns Canyon Area of Critical Environmental Concern (ACEC). Approximately 3,400 acres of the northeastern portion of the subunit and east of the Arkansas River is within the Browns Canyon Wilderness Study Area (WSA). A congressional bill is currently being developed for establishing the Browns Canyon Wilderness that includes the current WSA and additional BLM lands in the subunit east of the Arkansas River.
31 32 33	Identified Issues and Concerns (summary of the major resource management concerns and social issues)
33 34 35 36 37	1. <u>ACEC and WSA Values</u> – The special management area designations for the Browns Canyon ACEC and WSA recognize the area's outstanding scenic and recreational values, as well as the occurrences of rare plants and animals.
38 39	Desired Future Conditions (summary of desired outcomes that respond to the identified issues and concerns)
40 41 42 43	The values and qualities for which the Browns Canyon ACEC and Browns Canyon WSA were designated are maintained and undiminished. Opportunities are available for recreation uses that are compatible with maintaining the quiet and pristine qualities of these areas.
44 45 46 47	<u>Management Objectives</u> (the following management objectives will receive primary consideration in evaluating and comparing travel management alternatives and for identifying the alternative that works best to achieve the desired future conditions)
48 49 50 51	 Protecting ACEC and WSA values Protecting and improving wildlife habitat conditions and maintaining core wildlife areas and movement corridors Protecting uncommon plant communities and occurrences of sensitive plants and animals

• Securing the WSA from encroachments by motorized and mechanized vehicles

SALIDA (Subunit B)

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<u>General Setting</u> - The Salida subunit contains a total area of 41,071 acres, including 13,481 acres of BLM public lands. It includes the community of Salida and is affected by all the associated pressures and issues that come from its proximity to public lands. Buena Vista is located nearby but is outside the boundary of this subunit. Most of the BLM lands are heavily utilized areas that provide easy-to-access recreation opportunities. Mild winter conditions allow year-round access for a variety of motorized and non-motorized recreation uses. The sights and sounds of human activity from towns, airports, highways, railroads, residential subdivisions, power lines, and motorized recreation uses are evident throughout most areas of the subunit.

The Rainbow Trail is a major recreation attraction located on National Forest lands near the southern edge of the subunit. This portion of the Rainbow Trail is open to foot, horse, bicycle, and motorcycle uses but is closed to ATV use.

Identified Issues and Concerns (summary of the major resource management concerns and social issues)

1. <u>Watershed Conditions</u> – The subunit includes important watersheds. Current levels of soil erosion from BLM lands are contributing to the declining quality of water and fish habitat in the Arkansas River.

2. <u>Wildlife Habitat</u> - The BLM lands in the subunit include important elk, deer, bighorn sheep, and black bear habitat that are gradually diminishing in both size and quality.

3. <u>Unique Geologic Resources</u> - Geologically significant sites are located on BLM lands in Castle Gardens and King Gulch that are being degraded by human uses. The Castle Gardens and King Gulch areas contain significant occurrences of fossils.

4. <u>Rare Plants and Animals</u> – The occurrences of sensitive plants and animals are being diminished by human uses.
 The Castle Gardens and King Gulch areas contain significant occurrences of sensitive plants. Castle Gardens
 contains one of the three largest and highest quality known occurrences of Brandegee wild buckwheat (*Eriogonum brandegei*). Another sensitive plant species, rock-loving neoparrya (*Aletes lithophilus*), occurs in King Gulch. A
 rare subspecies of bat, Townsend's big-eared bat (*Plecotus townsendii pallescens*), is found in Longfellow Gulch.

5. <u>Proliferation of New Trails</u> - The proliferation of user created trails is resulting in increasing amounts of resource damage. Users have created many of the trails and cut-offs surrounding the town of Salida without authorization.
 Motorized "play" and hill-climbing activities occurring in and around Castle Gardens, King Gulch, and S-mountain have denuded parts of these areas and are sources of severe erosion.

39 6. <u>User Conflicts and Unsafe Conditions</u> - BLM lands are currently used for a variety of recreation activities,
 40 including hiking, horseback riding, mountain biking, jeeping, ATV and motorcycle riding. User conflicts and
 41 unsafe conditions are occurring where motorized, mechanized, and non-motorized users share the same trails.
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7. Demand for Expanded and Enhanced Recreation Opportunities – The level of demand for mountain biking
opportunities is extremely high in this subunit. The Salida Mountain Trails Park Committee, with the support of
several other community-based organizations, is promoting a proposal for expanding and improving the available
network of community trails that extend from the city of Salida onto nearby BLM and Forest Service lands.

8. Exclusive Access and Uses from Private Lands - Some of the BLM lands in the subunit abut subdivisions and other parcels of private lands that affect access and travel uses on public lands. In some cases private lands limit public access to BLM lands and have resulted in the development of multiple private access points that are only accessible to the private landowners. Many of these access points are being used for motorized access that are creating new travel routes and adversely impacting vegetation, soils, and other natural resources.

9. <u>Rainbow Trail</u> – Several user created trails branch off the Rainbow Trail that affect both BLM and National
 Forest lands.

10. <u>Illegal Uses</u> - The incidence of illegal uses of BLM lands is unusually high in this subunit. Activities of particular concern include: trash dumping; abandonment of automobiles and household appliances; target shooting; paint ball shooting; long-term occupancy of dispersed camping areas; gatherings involving underage drinking and/or use of illegal drugs; unattended campfires; driving off existing roads; and constructing unauthorized trails.

Desired Future Conditions (summary of desired outcomes that respond to the identified issues and concerns)

Watershed conditions are improving throughout the subunit; rates of soil erosion are decreasing and water quality and fish habitat in the Arkansas River are improving.

Available areas of wildlife habitat are expanding and improving throughout the subunit, supporting sustainable numbers of deer, elk, bighorn sheep, and black bear.

Occurrences of Brandegee wild buckwheat and rock-loving neoparrya are stable or increasing. The population of Townsend's big-eared bat is stable or increasing.

Previous impacts to unique geologic features from off-trail recreation uses are no longer evident in Castle Gardens and King Gulch.

Impacts from dumping trash, target shooting, off-road vehicle play, unauthorized trail construction, and other illegal uses are no longer evident in areas where these activities had previously occurred.

Visitors travel via a well-managed system of designated roads and trails that serve a variety of motorized, mechanized, and non-motorized travel uses and that are being maintained to limit adverse impacts to vegetation, soils, and water.

Designated travel routes between BLM and National Forest lands are cooperatively established to accommodate the same types of uses.

<u>Management Objectives</u> (the following management objectives will receive primary consideration in evaluating and comparing travel management alternatives and for identifying the alternative that works best to achieve the desired future conditions)

- Protecting and improving watershed conditions
- Protecting and improving wildlife habitat conditions and maintaining core wildlife areas and movement corridors
- Protecting uncommon plant communities and occurrences of sensitive plants and animals
- Protecting unique geologic features
- Protecting BLM lands from illegal uses
- Ensuring consistency with National Forest travel management designations
- Minimizing conflicts between recreation uses

43 BADGER CREEK (Subunit C)

General Setting - The Badger Creek subunit contains a total of 42,734 acres, including 34,114 acres of BLM public lands. Nearby population centers include Salida, Swissvale, Howard, and Coaldale. Non-motorized recreation uses of hiking, horseback riding, and mountain biking are comparatively low, whereas the opportunities for jeeping and riding ATVs and motorcycles are more widely known to users outside of the local area and are moderately high. The subunit includes a designated OHV OPEN area at Sand Gulch. A portion of the area, known as Turkey Rock, is used for motorcycle trials events that are held under special recreation permits issued by BLM. The Rocky Mountain Trials Association (RMTA) has requested that Turkey Rock be designated as an open area for riding trials bikes. Additionally, a state school section adjoins the OHV OPEN area that is being heavily utilized by OHVs. Several existing roads in the subunit, including the WAPA power line road, are also popular attractions for OHV

- 53 users.

1 Badger Creek is a major tributary of the Arkansas River and is the key landscape feature in this subunit. Severe 2 storm events in the Badger Creek watershed are noted for affecting Arkansas River turbidity conditions for many 3 4 days following a storm. Badger Creek has been and continues to be the object of extensive efforts to reduce erosion and improve water quality. In 1999 the Royal Gorge Field Office completed an extensive ecosystem management 5 6 7 analysis of the Badger Creek watershed to identify the management actions that were needed to improve watershed conditions in the area. As a result of this analysis and in response to a sudden and dramatic increase in extreme 4WD activity, several existing and user created routes were closed to motorized uses to protect riparian, fisheries, 8 and wildlife values in the Badger Creek, Little Badger Creek, and Bloody Gulch drainages. This action effectively 9 limited access in Badger Creek to foot and horse travel until the summer of 2004, when a catastrophic flood 10 drastically altered the stream course and destroyed some vehicle barriers. 11

No special status management areas such as Wilderness Study Areas (WSA) or Areas of Critical Environmental
 Concern (ACEC) are located in this subunit; however, several environmental groups, including the Central Colorado
 Wilderness Coalition and Upper Arkansas and South Platte Project, are actively promoting that portions of the
 subunit should be designated as wilderness.

Identified Issues and Concerns (summary of the major resource management concerns and social issues)

1. <u>Watershed Conditions</u> - The subunit includes important watersheds. Current levels of soil erosion from BLM lands are contributing to the declining quality of water and fish habitat in Badger Creek and the Arkansas River.

2. <u>Riparian Habitat and Fisheries</u> - The subunit contains valuable riparian habitat that is being adversely impacted by human uses. A nearly continuous ribbon of riparian habitat occurs along Badger Creek from its source in South Park to where it joins the Arkansas River. This stream serves as an important spawning area for brown trout that ultimately contribute to the Arkansas River population and offers excellent remote, backcountry fishing opportunities.

3. <u>Wildlife Habitat</u> - The BLM lands in the subunit include important elk, deer, bighorn sheep, and black bear habitat that are gradually diminishing in both size and quality.

4. <u>Noxious Weeds</u> - The spread of knapweed and other noxious weeds is severely diminishing the health of the vegetation in this subunit and is the object of on-going eradication and control projects. Substantial portions of the riparian habitat in Badger Creek and its tributaries have been invaded by tamarisk (salt cedar).

5. User Conflicts - Conflicts between motorized and non-motorized recreation users are occurring in Badger Creek
 and other portions of this subunit that were previously closed to motorized travel in 1999. Disturbance to livestock,
 damage to fences, and other conflicts resulting from off-road motorized recreation uses are also affecting grazing
 uses in this area. Target shooting in the Turkey Rock area poses safety concerns for other users and nearby
 residents.

6. <u>Exclusive Access and Uses from Private Lands</u> - Exclusive access from private in-holdings and from
subdivisions bordering BLM lands is an issue here. Some existing BLM roads that are not accessible to the public
because they are blocked by private lands are being accessed and used exclusively by private landowners; resulting
in the creation of unauthorized travel routes that adversely impact vegetation, soils, and other natural resources.
Trespass issues also exist in this subunit where motorized recreation users are crossing onto private lands to gain
access to the public lands.

7. <u>Road Right-of-way and Maintenance Issues</u> - Several sections of the existing roads in this subunit cross private lands for which public easements or rights-of-way do not exist. Without such easements, held either by BLM or other public entity such as the county, continuous public access across these lands cannot be assured. BLM only performs regular maintenance on roads where it has jurisdiction of the right-of-way. BLM is prohibited from maintaining roads that are not under BLM jurisdiction, including county roads. Consequently, the lack of BLM easements affects the ability of BLM to perform maintenance and improvement work on roads for which the county has established a public right-of-way but does not maintain them.

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8. State Lands - Several OHV routes are located on the state school section in the Sand Gulch area that lead onto 234567 and from adjoining BLM lands. The location of portions of these routes on the state school section affects travel management decisions in this area because BLM does not have the authority to designate travel routes on non-BLM lands.

9. <u>Special Recreation Uses</u> - Motorcycle trials events have been authorized by BLM in this area for many years. These events could be allowed to continue in an OHV LIMITED area, however, motorcycle use for practice purposes could not be easily accommodated by a system of designated routes.

10 Desired Future Conditions (summary of desired outcomes that respond to the identified issues and concerns) 11

Watershed conditions are improving throughout the subunit; rates of soil erosion are decreasing and water quality and fish habitat in Badger Creek and the Arkansas River are improving.

Riparian vegetation in the Badger Creek drainages is healthy and functioning and Badger Creek is a productive brown trout fishery. Badger Creek is free of tamarisk and other noxious weeds.

Available areas of wildlife habitat are expanding and improving throughout the subunit, supporting sustainable numbers of deer, elk, bighorn sheep, and black bear.

The condition of vegetation is improving throughout the subunit. The spread of knapweed and other noxious weeds is subsiding.

BLM and county roads that traditionally have been used and maintained continue to be available to the public for motorized, mechanized, and non-motorized travel uses.

Visitors travel on public lands via a designated system of roads and trails that serve a variety of motorized, mechanized, and non-motorized uses. Some areas in the subunit are managed where visitors can experience opportunities for hiking, horseback riding, and mountain biking in quiet and remote settings, while opportunities for motorized recreation uses are available in other parts of the subunit.

Opportunities for target shooting are available in areas where it does not pose serious conflicts with other uses.

Management Objectives (the following management objectives will receive primary consideration in evaluating and comparing travel management alternatives and for identifying the alternative that works best to achieve the desired future conditions)

- Protecting and improving watershed conditions
- Protecting and improving wildlife habitat conditions and maintaining core wildlife areas and movement • corridors
- Protecting and improving riparian areas and fish habitat conditions •
- Resolving road access and maintenance issues •
- Resolving travel management issues involving State Lands •
- Protecting uncommon plant communities and occurrences of sensitive plants and animals
- Minimizing conflicts between recreation uses
 - Resolving issues related to motorcycle trials events and RMTA's request for establishing Turkey Rock as a • trails bike practice area
- Resolving conflicts with target shooting in the Turkey Rock area. •

50 **RED GULCH (Subunit D)**

51 General Setting - The Red Gulch subunit contains a total area of 28,072 acres, including 15,660 acres of BLM

52 public lands. The subunit is remotely located midway between Canon City and Salida. The BLM lands in the

53 subunit receive low amounts of recreation use and are known and used primarily by local residents from nearby

54 subdivisions and the small communities of Coaldale and Cotopaxi. Recreation uses are primarily motorized and

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Access into substantial portions of the BLM lands in the subunit are blocked by private lands, including the Spruce Basin, Park Mountain, and Indian Springs subdivisions. The access roads to BLM from the Dirty Gulch State Trust Lands are closed to the public from June 1-August 30. Another State School Section located in the subunit (Section 6, Pasture Gulch) is accessed via existing roads from adjoining BLM lands. Previous travel management decisions 8 that resulted from the Texas Creek Trail Construction and Maintenance Environmental Assessment (1997) also 8 affected access in this subunit.

Bernard Creek is the only perennial tributary of the Arkansas River in this subunit. The major side-drainages into Bernard Creek include Sand Gulch and Falls Gulch. A large portion of the subunit, however, is drained by Red Gulch, an intermittent tributary of Fernleaf Gulch.

Identified Issues and Concerns (summary of the major resource management concerns and social issues)

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54 55 1. <u>Watershed Conditions</u> - The subunit includes important watersheds. Current levels of soil erosion from BLM lands are contributing to the declining quality of water and fish habitat in the Arkansas River.

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2. <u>Wildlife Habitat</u> - The BLM lands in the subunit include important elk, deer, bighorn sheep, and black bear
habitat that are gradually diminishing in both size and quality. The subunit lies within a game management area that
contains critical habitat for deer, turkey, bear, and lion and that is considered to be a key hunting area for mule deer.

3. Demand for Expanded and Enhanced Recreation Opportunities - The Colorado Motorcycle Trail Riders
 Association is promoting a proposal for expanding the available network of ATV and motorcycle trails in the Texas
 Creek subunit that would also affect travel uses in the Red Gulch subunit. CMTRA is requesting the re-opening of
 previously used ATV and motorcycle routes that were closed following the 1999 environmental assessment of the
 Texas Creek Trail Construction and Maintenance Project and the construction of a new single-track motorcycle trail.
 CMTRA's proposal would re-establish a motorized connection between the Texas Creek and Red Gulch subunits.

4. <u>Road Maintenance Issues</u> - The road accessing Sand Gulch is included in the Fremont County road system but is not maintained by the county. BLM is prohibited from maintaining roads that are not under BLM jurisdiction, including county roads, limiting the ability of BLM to perform needed maintenance and improvement work.

5. <u>State Lands</u> – A major access point into the western part of the subunit from County Road 12 enters through the
 Dirty Gulch State Trust Lands, leased by the CDOW for wildlife purposes and closed to the public from June 1 August 30. Existing OHV routes are also located on the state school section in the Pasture Gulch area that lead onto
 and from adjoining BLM lands. The location of portions of these routes on the State Trust and school lands affect
 travel management decisions in this area because BLM does not have the authority to designate travel routes on non BLM lands.

39 <u>**Desired Future Conditions**</u> (summary of desired outcomes that respond to the identified issues and concerns) 40

Watershed conditions are improving throughout the subunit; rates of soil erosion are decreasing and water quality
 and fish habitat in the Arkansas River are improving.

Available areas of wildlife habitat are expanding and improving throughout the subunit, supporting sustainable
numbers of deer, elk, bighorn sheep, and black bear.

47 Visitors travel via a managed system of designated roads and trails that serve a variety of motorized, mechanized,
48 and non-motorized travel uses and that are being maintained to limit impacts on vegetation, soils, and water.
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Non-maintained county roads that traditionally have been used continue to be available to the public for motorized,
 mechanized, and non-motorized travel uses.

Designated travel routes between BLM and State lands are cooperatively managed to accommodate the same uses.

<u>Management Objectives</u> (the following management objectives will receive primary consideration in evaluating and comparing travel management alternatives and for identifying the alternative that works best to achieve the desired future conditions)

- Protecting and improving watershed conditions
- Protecting and improving wildlife habitat conditions and maintaining core wildlife areas and movement corridors
- Resolving road maintenance issues
- Resolving travel management issues involving State Lands

11 TEXAS CREEK (Subunit E)

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12 General Setting - The Texas Creek subunit contains a total area of 28,191 acres, including 21,454 acres of BLM 13 public lands. The subunit is remotely located midway between Canon City and Salida. The area is regionally 14 known for its developed network of 4WD and ATV trails and receives heavy amounts of motorized recreation uses. 15 Approximately 8,000 acres of the subunit occurs within the Texas Creek Gulch/Reese Gulch OHV OPEN areas. In 16 1999, an environmental assessment for the Texas Creek Trail Construction and Maintenance project was conducted 17 for the purpose of constructing new trails and for realigning and maintaining existing trails in the area. As a result 18 of this environmental assessment, some existing trails that extended outside of the OHV OPEN areas were closed to 19 protect important vegetation, watershed, and wildlife resources. 20

No Wilderness Study Areas (WSA) are included in this subunit but a very small portion of the Arkansas Canyonlands Area of Critical Environmental Concern (ACEC) is affected. Several environmental groups, including the Central Colorado Wilderness Coalition and Upper Arkansas and South Platte Project, are actively promoting that portions of the subunit should be designated as wilderness. Environmental interests are generally opposed to allowing the expansion of motorized trails outside of the area contained within the current OHV trail system.

Identified Issues and Concerns (summary of the major resource management concerns and social issues)

1. <u>Watershed Conditions</u> - The subunit includes important watersheds. Current levels of soil erosion from BLM lands are contributing to the declining quality of water and fish habitat in the Arkansas River.

32 2. <u>Riparian Habitat</u> - Important riparian habitat occurs in substantial portions of the subunit, including Long Gulch,
 33 Fernleaf Gulch, Maverick Gulch, Bull Gulch, and East Gulch. Areas of healthy riparian habitat are relatively scarce
 34 in the region and are gradually declining in size and quality.

36 3. <u>Wildlife Habitat</u> - The BLM lands in the subunit include important habitat for elk, deer, bighorn sheep, and black
 37 bear that is gradually diminishing in both size and quality. The subunit lies within a game management area that
 38 contains critical habitat for deer, elk, bighorn sheep, turkey, bear, and lion and that is considered to be a key hunting
 39 area for mule deer. The contiguous BLM lands included within the Texas Creek subunit and the adjoining Red
 40 Gulch and Big Hole subunits provide important habitat connectivity for wildlife movement.

42 4. <u>Road Maintenance Issues</u> - The main access roads into the Texas Creek subunit are included in the Fremont
43 County road system but are not maintained by the county. BLM is prohibited from maintaining roads that are not
44 under BLM jurisdiction, including county roads, which limits the ability of BLM to perform needed maintenance
45 and improvement work.

46 47 5. Demand for Expanded and Enhanced Recreation Opportunities - The Colorado Motorcycle Trail Riders 48 Association (CMTRA) is supporting a proposal for expanding the available network of ATV and motorcycle trails 49 in the Texas Creek subunit that would reopen portions of Long Gulch, Fernleaf Gulch, Maverick Gulch, and East 50 Gulch to motorized access. CMTRA is requesting the re-opening of previously used ATV and motorcycle routes 51 that were closed following the 1999 environmental assessment of the Texas Creek Trail Construction and 52 Maintenance Project. CMTRA's proposal would also re-establish a motorized connection between the Texas Creek 53 and Red Gulch subunits. Portions of the area have been used for holding trails events that are conducted under 54 special recreation permits issued by BLM. The Rocky Mountain Trials Association (RMTA) is requesting that the 55 areas that have been used in the past for holding motorcycle trials events be designated as OHV Open areas so that 56 they are available year-round for training and practice.

Desired Future Conditions (summary of desired outcomes that respond to the identified issues and concerns)

Watershed conditions are improving throughout the subunit; rates of soil erosion are decreasing and water quality and fish habitat in the Arkansas River are improving.

Riparian habitat occurring along the various drainages in the subunit is healthy and functioning to stabilize stream courses.

Available areas of wildlife habitat are expanding and improving in the subunit, supporting sustainable numbers of deer, elk, bighorn sheep, and other wildlife. Viable wildlife corridors and habit connections are maintained within the subunit and with the adjoining Red Gulch and Big Hole subunits.

Visitors travel via a designated system of roads and trails that serve a variety of motorized, mechanized, and nonmotorized uses and that are being maintained to limit impacts on vegetation, soils, wildlife and water. Numerous opportunities are available throughout the subunit for motorized recreation uses, including designated routes of varying levels of difficulty for users of 4WDs, ATVs, and motorcycles.

BLM and county roads that have been traditionally used and maintained continue to be available to the public for motorized, mechanized, and non-motorized travel uses.

<u>Management Objectives</u> (the following management objectives will receive primary consideration in evaluating and comparing travel management alternatives and for identifying the alternative that works best to achieve the desired future conditions)

- Protecting and improving watershed conditions
- Protecting and improving riparian areas
- Protecting and improving wildlife habitat conditions and maintaining core wildlife areas and movement corridors
- Protecting rare natural vegetative communities and occurrences of sensitive plants and animals
- Resolving road maintenance issues
- Resolving issues related to motorcycle trials events and RMTA's request to designate open areas for trials bike riding.

4 **BIG HOLE (Subunit F)**

General Setting - The Big Hole subunit contains a total area of 28,477 acres, including 23,408 acres of BLM public lands. The subunit is remotely located between Canon City and Salida. Access into the subunit is extremely limited due to extreme topography, the lack of a bridge-crossing on the Arkansas River, and the lack of public easements through adjoining private lands or along the right-of-way of the Union Pacific Railroad. Recreation usage in the subunit is very light and public access is limited to mostly foot and horse travel. Lesser amounts of motorized recreation uses occur that originates primarily from private lands bordering along the northern portions of the subunit. The subunit contains numerous primitive roads that were used for past ranching and mining operations. Many of these old roads have become overgrown with vegetation or have become impassible from lack of use and maintenance.

A substantial portion of the subunit is within the Arkansas Canyonlands Area of Critical Environmental Concern (ACEC) and contains an area of unique relict vegetation within the High Mesa Grasslands Research Natural Area (RNA). Buildings and artifacts remaining from historical ranching and mining activities are also located in the subunit. No Wilderness Study Areas (WSA) are included in this subunit, however, several environmental groups, including the Central Colorado Wilderness Coalition and Upper Arkansas and South Platte Project, are actively promoting that the subunit should be designated as wilderness.

<u>Identified Issues and Concerns</u> (summary of the major resource management concerns and social issues)

- 1. <u>Watershed Conditions</u> The subunit includes important watersheds. Current levels of soil erosion from BLM
- 55 lands are contributing to the declining quality of water and fish habitat in the Arkansas River.

1 2. Riparian Habitat - Important riparian habitat occurs along East Gulch. Areas with healthy riparian habitat are relatively scarce in the region and are gradually declining in size and quality.

2 3 4 3. Wildlife Habitat - The BLM lands in the subunit include important habitat for elk, deer, bighorn sheep, and black 5 bear that is gradually diminishing in both size and quality. Bighorn sheep severe winter range and lambing grounds 6 7 and elk severe winter range occur in the southern sections, and elk severe winter concentration areas occur along the northern sections of the subunit. The contiguous BLM lands included within the Big Hole subunit and the adjoining 8 Texas Creek and Red Gulch subunits provide important habitat connectivity for wildlife movement.

9 4. <u>Vegetation</u> - Dense stands of pinon pine and juniper trees dominate most areas below 8,000 feet elevation; 10 creating conditions for catastrophic wildfires and limiting the production of grasses and other plants that are 11 valuable for wildlife. Noxious weeds, including knapweed and tamarisk, have also invaded portions of the subunit. 12 The Big Hole subunit is the object of on-going fuels reduction treatments to reduce the potential of catastrophic 13 wildfires and to enhance forage production for wildlife. Treatments to eradicate and control the spread of noxious weeds are also on-going in this subunit.

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16 5. ACEC and RNA Values – The special management area designation for the Arkansas Canyonlands ACEC 17 recognizes the areas outstanding scenic and recreational values, as well as the occurrences of rare plants and animals 18 that are found in this subunit, including Arkansas Canyon Stickleaf (Mentzelia densa) and peregrine falcon. The 19 High Mesa Grasslands RNA contains an undisturbed relict plant community that is thought to have existed prior to 20 changes in native rangelands caused by intensive cattle grazing and the introduction of exotic plants. 21

22 6. Exclusive Access and Uses from Private Lands - Exclusive access from private in-holdings and from 23 subdivisions bordering BLM lands is an issue here. Some existing BLM roads that are not accessible to the public 24 because they are blocked by private lands are being accessed and used exclusively by private landowners; resulting 25 in the creation of unauthorized travel routes that adversely impact vegetation, soils, and other natural resources. 26

27 7. Safety Concerns and Motorized Encroachment into McIntyre Hills WSA at Five Points Gulch - The major public 28 access point into the Big Hole Subunit is located where Five Points Gulch enters the Arkansas River. Visitors 29 access the subunit via a short but steep primitive road that extends about 60 feet from the south side of US 50 into 30 Five Points Gulch. Users then proceed north under the highway bridge and must ford the Arkansas River to reach 31 the public lands on the other side. 32

33 The access road into Five Points Gulch is located at the east end of bridge and is situated at a place where the sight 34 distance is severely restricted. Most visitors do not want to risk the hazards associated with entering and leaving 35 Five Points Gulch via this access road, but instead park at a turnout located about 200 yards east of the bridge and 36 access the gulch on foot. Some visitors, however, do chose to drive down into the gulch, which poses serious safety 37 hazards for both the visitor and other highway users. 38

39 A second hazard that exists at this access point is the river crossing, which can only be safely done when the 40 Arkansas River flows are less than 400 CFS. At high flows people and vehicles risk being swept downstream. 41

42 Another concern involves the McIntyre Hills WSA. The boundary for the WSA is located about 100 feet above 43 where the access road enters Five Points Gulch. A substantial amount of ATV and motorcycle encroachment into 44 the McIntyre Hills WSA is occurring via this access road. 45

46 8. Demand for Expanded and Enhanced Recreation Opportunities - Interest has been expressed from both motorized 47 and non-motorized recreation users for improved access into the subunit. 48

49 **Desired Future Conditions** (summary of desired outcomes that respond to the identified issues and concerns) 50

51 Watershed conditions are improving throughout the subunit; rates of soil erosion are decreasing and water quality 52 and fish habitat in the Arkansas River are improving. 53

54 Riparian habitat in East Gulch and other areas is healthy and functioning to stabilize stream courses.

1 Available areas of wildlife habitat are expanding and improving in the subunit, supporting sustainable numbers of 2 3 4 deer, elk, bighorn sheep, and other wildlife. Viable wildlife corridors and habit connections are maintained with the adjoining Texas Creek and Red Gulch subunits. Occurrences of noxious weeds are subsiding and the risk of catastrophic wildfire is maintained at minimal levels by on-going fuels reduction treatments 5 6 7

The values contained in the Arkansas Canyonlands ACEC and High Mesa Grasslands RNA are maintained and undiminished. Occurrences of Arkansas Canyon Stickleaf and populations of peregrine falcon are stable or increasing.

10 Opportunities are available for non-motorized recreation uses in a quiet and remote backcountry setting. 11

12 Management Objectives (the following management objectives will receive primary consideration in evaluating 13 and comparing travel management alternatives and for identifying the alternative that works best to achieve the 14 desired future conditions) 15

- Protecting and improving watershed conditions •
- Protecting and improving riparian areas •
- Protecting and improving wildlife habitat conditions and maintaining core wildlife areas and movement corridors
 - Protecting rare natural vegetative communities and occurrences of sensitive plants and animals •
- Protecting ACEC and RNA values •
- Minimizing conflicts between recreation uses
- Resolving safety issues at Five Points Gulch access point •
- Securing the McIntyre Hills WSA from encroachments by motorized and mechanized vehicles

26 **CRAMPTON MOUNTAIN (Subunit G)**

27 General Setting - The Crampton Mountain subunit contains a total area of 25,076 acres, including 12,794 acres of 28 BLM public lands. The terrain is extremely steep and mountainous and includes rugged canyons in the Cottonwood 29 Creek and Tallahassee Creek drainages. 30

31 Private lands and topographic barriers isolate the BLM lands in this subunit from those in the adjoining Big Hole 32 and Grand Canyon Hills subunits. Many of the BLM lands in the subunit are bordered by subdivisions. 33

34 The area is not widely known for its recreational opportunities but is known and used mostly by local residents from 35 nearby subdivisions and ranches. The creation of new motorized trails is occurring in portions of the subunit, 36 including the area around Soapy Hill. 37

38 Big game hunting is the major recreation use in this subunit. The subunit includes the Cottonwood Ridge State 39 Trust Lands, which is managed by the CDOW for wildlife and fishing purposes and is restricted to foot and horse 40 access. 41

42 Only a small portion of the subunit is easily accessible via motor vehicle and attracts moderate amounts of 43

recreation uses. Most of the area, however, is difficult to access and experiences low amounts of use. The BLM 44

roads in the subunit are primitive 4WD roads that were constructed and used for past mining and logging operations 45 and for the construction and maintenance of the WAPA power line. An environmental assessment was conducted in

46 1986 to address the impacts of off-road travel uses that were occurring in the area surrounding Crampton Mountain.

47 As a result of this environmental assessment, some existing roads were closed to limit access in those portions of

- 48 Crampton Mountain that were being adversely affected by off-road travel. A total of six roads were closed with
- 49 BLM and Division of Wildlife habitat improvement money. The closures included five dead end roads and one loop
- 50 road across the top of Crampton Mountain.
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1. <u>Watershed Conditions</u> - The subunit includes important watersheds. Current levels of soil erosion from BLM lands are contributing to the declining quality of water and fish habitat in Cottonwood Creek, Tallahassee Creek and the Arkansas River.

2. <u>Riparian Habitat</u> - Important riparian habitat occurs along the Cottonwood Creek and Tallahassee Creek drainages. Areas with healthy riparian habitat are relatively scarce in the region and are gradually declining in size and quality.

3. <u>Wildlife Habitat</u> - The BLM lands in the subunit include important habitat for elk, deer, bighorn sheep, turkey, and black bear that is gradually diminishing in both size and quality.

4. <u>Road Maintenance Issues</u> - The roads accessing Rough Gulch and Sand Gulch are included in the Fremont County road system but are not maintained by the county. BLM is prohibited from maintaining roads that are not under BLM jurisdiction, including county roads, which limits the ability of BLM to perform needed maintenance and improvement work.

5. <u>State Lands</u> – Visitors must cross through the Cottonwood Ridge State Trust Lands to access the BLM lands that are located above it. Because DOW restricts travel through the Trust Lands to foot and horse uses, designated travel uses for the BLM lands situated above the Trust Lands are limited.

6. <u>Proliferation of New Trails</u> - The proliferation of user created trails is resulting in increasing amounts of resource damage. Users have created ATV and motorcycle trails extending down Cottonwood Creek from Soapy Hill and trails have been created in other portions of the subunit, as well.

Desired Future Conditions (summary of desired outcomes that respond to the identified issues and concerns)

Watershed conditions are improving throughout the subunit; rates of soil erosion are decreasing and water quality and fish habitat in the Arkansas River are improving.

Riparian habitat occurring along Cottonwood Creek and Tallahassee Creek is healthy and functioning to stabilize stream courses.

Available areas of wildlife habitat are expanding and improving in the subunit, supporting high numbers of deer, elk, turkey, bighorn sheep, and other wildlife.

Visitors travel via a designated system of roads and trails that serve a variety of motorized, mechanized, and nonmotorized travel uses and that are being maintained to limit impacts on vegetation, soils, and water. Some areas in the subunit are managed where visitors can experience opportunities for hiking, horseback riding, and mountain biking in quiet and remote settings, while opportunities for motorized recreation uses are available in other parts of the subunit.

<u>Management Objectives</u> (the following management objectives will receive primary consideration in evaluating and comparing travel management alternatives and for identifying the alternative that works best to achieve the desired future conditions)

- Protecting and improving watershed conditions
- Protecting and improving riparian areas
- Protecting and improving wildlife habitat conditions and maintaining core wildlife areas and movement corridors
- Protecting rare natural vegetative communities and occurrences of sensitive plants and animals
- Resolving road maintenance issues
- Ensuring consistency with DOW travel management designations
- Minimizing conflicts between recreation uses

1 SANGRES FOOTHILLS (Subunit H)

2 <u>General Setting</u> - The Sangres Foothills subunit contains a total area of 48,632 acres, including 21,686 acres of 3 BLM public lands. This subunit includes lands in Fremont County located south of the Arkansas River and between 4 the Chaffee and Custer County lines. The BLM land ownership patterns in this subunit are highly fragmented. 5 Substantial blocks of BLM lands are separated by private lands that have been subdivided into residential properties. 6 Many of the BLM lands also adjoin the San Isabel National Forest and include several public access points for the 7 Rainbow Trail.

9 The Rainbow Trail is a major recreation feature located on National Forest lands that border along the southwestern 10 boundary of the subunit, and that runs parallel to this boundary for the entire length of the subunit. A lot of the 11 usage on BLM roads in this subunit is from people passing through to reach the Rainbow Trail. The entire Rainbow 12 Trail is open to foot, horse, bicycle, and motorcycle uses. The operation of ATVs, however, is only permitted on 13 that portion of the trail extending south of Big Cottonwood Creek.

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15 Nearby population centers include the communities of Salida, Swissvale, Howard, and Coaldale. Motorized 16 recreation uses such as jeeping, ATV riding, and motorcycle riding predominate on most BLM parcels. The BLM 17 lands in the Kerr Gulch area are well-known and heavily used by people from outside of the local area for motorized 18 recreation and for big game hunting opportunities. Other BLM parcels in the subunit are not widely known and 19 attract low to moderate amounts of use, mostly from residents of the nearby subdivisions and communities. Public 20 access is limited to many BLM parcels by extreme topography and by intervening private lands. The only public 21 access to some BLM parcels is from existing and user created trails coming off adjoining National Forest lands from 22 the Rainbow Trail. 23

Previous travel management decisions were made in the Kerr Gulch, Hamilton Creek, and Falls Gulch portions of the subunit. These decisions resulted in closures of some of the motorized routes in these areas.

Identified Issues and Concerns (summary of the major resource management concerns and social issues)

1. <u>Watershed Conditions</u> - The subunit includes important watersheds. Several important tributaries of the Arkansas
 River are affected by BLM lands in this subunit, including Bear Creek, Hayden Creek, and Big Cottonwood Creek.
 Current levels of soil erosion from BLM lands are contributing to the declining quality of water and fish habitat in
 the Arkansas River.

34 2. <u>Wildlife Habitat</u> - The BLM lands in the subunit include important habitat for elk, deer, and black bear that is
 35 gradually diminishing in both size and quality. The Kerr Gulch area is considered to be a key hunting area for elk
 36 and mule deer.
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38 3. <u>Proliferation of New Trails</u> - The proliferation of user created trails is resulting in increasing amounts of resource
 39 damage on BLM lands near Wellsville and in the Kerr Gulch and Falls Gulch areas of the subunit.

4. <u>Exclusive Access and Uses from Private Lands</u> - Some of the BLM lands in the subunit abut subdivisions and
other parcels of private lands that affect access and travel uses on public lands. In some cases private lands limit
public access to BLM lands and have resulted in the development of multiple private access points that are only
accessible to the private landowners. Many of these access points are being used for motorized access that are
creating new travel routes and adversely impacting vegetation, soils, and other natural resources.

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5. <u>Rainbow Trail</u> - Old mining roads and user created trails that stem off the Rainbow Trail are being used by the
public to reach some BLM lands that are otherwise not legally accessible to the public. Some of these routes are
adversely impacting vegetation, soils, and other natural resources on both BLM and National Forest lands. In some
cases these routes pass through BLM lands onto adjacent private lands and are being used by the private landowners
for exclusive access to the Rainbow Trail.

6. <u>Road Maintenance Issues</u> - The BLM access roads in the Taylor Gulch, Kerr Gulch, and Big Cottonwood Creek
 areas are included in the Fremont County road system but are not maintained by the county. BLM is prohibited
 from maintaining roads that are not under BLM jurisdiction, including county roads, which limits the ability of BLM
 to perform needed maintenance and improvement work.

Watershed conditions are improving throughout the subunit; rates of soil erosion are decreasing and water quality and fish habitat in the Arkansas River are improving.

Available areas of wildlife habitat are expanding and improving throughout the subunit, supporting high numbers of deer, elk, bighorn sheep, and black bear.

Visitors travel via a designated system of roads and trails that serve a variety of motorized, mechanized, and nonmotorized travel uses and that are being maintained to limit adverse impacts to vegetation, soils, and water.

Designated travel routes between BLM and National Forest lands are cooperatively managed to accommodate the same uses.

<u>Management Objectives</u> (the following management objectives will receive primary consideration in evaluating and comparing travel management alternatives and for identifying the alternative that works best to achieve the desired future conditions)

- Protecting and improving watershed conditions
- Protecting and improving wildlife habitat conditions and maintaining core wildlife areas and movement corridors
- Protecting rare natural vegetative communities and occurrences of sensitive plants and animals
- Resolving road maintenance issues
- Minimizing conflicts between recreation uses

WEST MCCOY GULCH (Subunit I)

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<u>General Setting</u> - The West McCoy Gulch subunit contains a total of 17,904 acres, including 11,377 acres of BLM public lands. The subunit is situated south of the Arkansas River midway between Canon City and Salida and near the small communities of Coaldale and Cotopaxi. The subunit contains important wildlife habitat and includes the McCoy Gulch State Trust Lands. Hunting big game is a major use in this subunit.

The types and amounts of recreation uses occurring in the area vary greatly between the east and west halves of the subunit. The west half receives high amounts of OHV use along Fremont County Road 37, which the county has designated as open to ATV travel. The BLM lands west of FCR 37 are also accessible from numerous primitive roads that stem off the county road and lead to several inactive granite quarries that are located in the area.

Most of the BLM lands to the east of FCR 37, however, are virtually inaccessible to the public for OHV use because
 of intervening private lands and natural terrain barriers. Consequently, legal public access to the east half of the
 subunit is limited to foot and horse use from only a few places where the BLM lands can be reached without
 trespassing on private lands.

Identified Issues and Concerns (summary of the major resource management concerns and social issues)

44 1. <u>Watershed Conditions</u> - The soils in the area exhibit high potential for erosion. Current levels of soil erosion from
 45 BLM lands are contributing to the declining quality of water and fish habitat in the Arkansas River.
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47 2. <u>Wildlife Habitat</u> - The BLM lands in the subunit include important habitat for elk, deer, bighorn sheep, and black
48 bear that is gradually diminishing in both size and quality. The subunit is elk winter range and a key elk migration
49 corridor and is good deer habitat.

51 3. <u>Proliferation of New Trails</u> - The proliferation of user created trails is resulting in increasing amounts of resource
 52 damage. Users have created many of the trails and cut-offs from the existing road network. ATV and motorcycle
 53 trails are being systematically extended across steep and unstable slopes beyond the ends of existing 4WD routes.
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- 4. <u>Exclusive Access and Uses from Private Lands</u> Exclusive access from private in-holdings and from
- 56 subdivisions bordering BLM lands is an issue here. Some existing BLM roads that are not accessible to the public

because they are blocked by private lands are being accessed and used exclusively by private landowners; resulting in the creation of unauthorized travel routes that adversely impact vegetation, soils, and other natural resources.

5. Access Trail to McCoy Gulch State Trust Lands - The foot and horse access trail from BLM lands to the McCoy Gulch State Trust Lands is partly located on private lands. To assure continued public access, the trail either needs to be moved entirely onto to BLM lands or an easement acquired for the portions of the trail crossing the private lands.

Desired Future Conditions (summary of desired outcomes that respond to the identified issues and concerns)

Watershed conditions are improving throughout the subunit; rates of soil erosion are decreasing and water quality and fish habitat in the Arkansas River are improving.

Available areas of wildlife habitat are expanding and improving throughout the subunit, supporting sustainable numbers of deer, elk, bighorn sheep, and black bear.

Visitors travel via a managed system of designated roads and trails that serve a variety of motorized, mechanized, and non-motorized travel uses and that are being maintained to limit impacts on vegetation, soils, and water. Some areas in the subunit are managed where visitors can experience opportunities for hiking, horseback riding, and mountain biking in quiet and remote settings, while opportunities for motorized recreation uses are available in other parts of the subunit.

Management Objectives (the following management objectives will receive primary consideration in evaluating and comparing travel management alternatives and for identifying the alternative that works best to achieve the desired future conditions)

- Protecting and improving watershed conditions
- Protecting and improving wildlife habitat conditions and maintaining core wildlife areas and movement • corridors
- Protecting rare natural vegetative communities and occurrences of sensitive plants and animals •
- Resolving access issue with trail to McCoy Gulch State Trust Lands •
- Minimizing conflicts between recreation uses

34 **MCINTYRE HILLS (Subunit J)**

35 General Setting - The McIntyre Hills subunit contains a total of 25,201 acres, including 22,162 acres of BLM 36 public lands. This sub-unit is located south of the Arkansas River between Parkdale and Texas Creek. The BLM 37 lands in this subunit lie almost entirely within the McIntyre Hills WSA and Arkansas Canyonlands ACEC. The 38 special management area designations for the WSA and ACEC recognize the area's outstanding scenic and 39 recreational values, as well as the occurrences of rare plants and animals that are found in this subunit. Only about 40 2,250 acres of the BLM lands occur outside of these special management areas.

42 The lands in this subunit are extremely steep and rugged. The north boundary of the subunit borders approximately 43 13 miles of the Arkansas River and US Highway 50. The Arkansas River and the narrow highway corridor include 44 about 650 acres of the Arkansas River Headwaters Recreation Area (AHRA) and are heavily used for whitewater 45 boating, fishing, picnicking, camping, and viewing wildlife. The amount of recreation use occurring outside of 46 AHRA corridor is very limited, due to the extreme topography of the lands along the river canyon. The WSA and 47 ACEC lands adjacent to the AHRA are mostly used by day-hikers who explore the lower portions the major 48 gulches; however, encroachment into the WSA by users with ATVs and motorcycles is a recurring problem in Five Point Gulch.

Identified Issues and Concerns (summary of the major resource management concerns and social issues)

1. WSA Management - OHV encroachments are occurring in portions of the McIntyre Hills WSA that violate congressional direction for managing WSAs.

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2. <u>ACEC Management</u> - OHV encroachments are occurring in portions of the Arkansas Canyonlands ACEC that are adversely affecting important wildlife habitat and watershed values.

3. <u>Exclusive Access and Uses from Private Lands</u> - Some of the BLM lands in the subunit abut subdivisions and other parcels of private lands that affect access and travel uses on public lands. In some cases private lands limit public access to BLM lands and have resulted in the development of multiple private access points that are only accessible to the private landowners. Many of these access points are being used for motorized access that are creating new travel routes and adversely impacting vegetation, soils, and other natural resources.

Desired Future Conditions (summary of desired outcomes that respond to the identified issues and concerns)

12 The values and qualities for which the McIntyre Hills WSA and Arkansas Canyonlands ACEC were designated are maintained and undiminished. Opportunities are available for recreation uses that are compatible with maintaining 14 the quiet and pristine qualities of these areas.

Management Objectives (the following management objectives will receive primary consideration in evaluating and comparing travel management alternatives and for identifying the alternative that works best to achieve the desired future conditions)

- Protecting ACEC and WSA values
- Protecting and improving wildlife habitat conditions and maintaining core wildlife areas and movement corridors
- Protecting rare natural vegetative communities and occurrences of sensitive plants and animals
- Securing the WSA from encroachments by motorized and mechanized vehicles

GRAND CANYON HILLS (Subunit K)

27 General Setting - The Grand Canyon Hills subunit contains a total area of 27,137 acres, including 8,618 acres of 28 BLM public lands. This sub-unit is located immediately west of Canon City and is heavily influenced by the issues 29 and pressures resulting from its proximity to an urban population. Many of the BLM parcels are heavily utilized 30 areas that provide easy-to-access recreation opportunities. Mild winter conditions allow year-round access for a 31 variety of motorized and non-motorized recreation uses. The sights and sounds of human activity from towns, 32 airports, highways, railroads, residential subdivisions, and motorized recreation uses are evident throughout many 33 areas of the subunit.

The subunit contains approximately 2,200 acres of the Grape Creek ACEC and 900 acres of the Arkansas Canyon
 Lands ACEC.

Portions of Grape Creek and the Arkansas River itself flow through BLM lands contained in this subunit. Both are
 key watershed features in this subunit.

The subunit attracts heavy amounts of recreation use from both local residents and tourists. The major recreation attractions include the Arkansas River, Royal Gorge Bridge, Royal Gorge Park, Temple Canyon Park, Tunnel Drive Trail, Rockefeller Ecology Park, and the BLM Fishing Access Trail at Parkdale. The Arkansas River through the Royal Gorge is a national destination area for whitewater boating and one of the most heavily used sections of the river. The BLM lands in the subunit adjoin the San Isabel National Forest along the south boundary of the subunit.

Most of the BLM lands in the sub-unit are located south of Royal Gorge Park and surround three sides of Temple
Canyon Park. The BLM lands are accessible via Fremont County 3 and BLM Road 6100 (Grand Canyon Hills
access road), and via a half dozen primitive 4-wheel drive roads that lead from these two major access roads.

51 Due to the fragmented patterns of land ownership and extreme topography, many BLM parcels are not easily 52 accessible, and some are surrounded by private lands that provide no legal public access to the public lands. Legal 53 public access is lacking into the Grape Creek WSA from Temple Canyon Park, although the public routinely crosses

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54 private lands upstream of the Park to hike and fish on the Grape Creek State Trust Lands and BLM lands above

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Numerous short spurs and dispersed camping sites occur along FCR 3 between Canon City and Temple Canyon 234567 Park. The BLM lands along this section receive heavy amounts of recreation use from local residents including dayhiking, rock collecting, and motorcycle riding, and dispersed camping. Illegal trash dumping is a serious problem in this area. This section of FCR 3 is also used for an annual Hill Climb that attracts hundreds of spectators during the week end that the event is held.

The section of Grape Creek located between the Arkansas River and the Rockefeller Ecology Park is attracting high amounts recreation use for hiking, horseback riding, mountain biking, and fishing due to the good access provided by the trail that leads from the Ecology Park. Trespass issues exist in this area with private lands located between the Ecology Park and the Arkansas River.

BLM Road 6100 is open to year round traffic but is gated at the bottom for closing when conditions are wet and muddy. This road provides dead end access to the Grand Canyon Hills area and to the south rim of the Royal Gorge. Approximately 2,000 acres of Grand Canyon Hills is designated as an OHV OPEN area. Portions of the area are used for motorcycle trials events that are held under special recreation permit. Recreational uses in this area include driving 4WDs, ATVs, motorcycles and hiking, horseback riding, hunting, and dispersed camping.

Identified Issues and Concerns (summary of the major resource management concerns and social issues)

1. Watershed Conditions - The subunit includes important watersheds. Current levels of soil erosion from BLM lands are contributing to the declining quality of water and fish habitat in the Arkansas River.

23 2. Rare Plants and Animals – The occurrences of rare plants and animals are being diminished by human uses. The 24 special management area designations for the Arkansas Canyonlands and Grape Creek ACECs recognize 25 outstanding scenic and recreational values, as well as the occurrences of rare plants and animals that are found in 26 this subunit, including peregrine falcon, Townsend's big-eared bat, Arkansas canyon stickleaf (Mentzelai densa), 27 Degener beardtongue (Penstemon degeneri), and golden blazing star (Mentzelia chrysantha). 28

29 3. Coordination with Municipal, County, and National Forest Lands and Trails - BLM lands in the subunit adjoin 30 Royal Gorge Park, Temple Canyon Park, Rockefeller Ecology Park, Tunnel Drive Trail and the San Isabel National 31 Forest. Travel use decisions made on BLM lands may also affect uses on lands managed by the Canon City Parks 32 and Forestry Department, the Canon City Area Metropolitan Recreation and Park District, Fremont County, and the 33 San Isabel National Forest. 34

35 4. Exclusive Access and Uses from Private Lands - Some of the BLM lands in the subunit abut subdivisions and 36 other parcels of private lands that affect access and travel uses on public lands. In some cases private lands limit 37 public access to BLM lands and have resulted in the development of multiple private access points that are only 38 accessible to the private landowners. Many of these access points are being used for motorized access that are 39 creating new travel routes and adversely impacting vegetation, soils, and other natural resources. 40

41 5. Illegal Uses - The incidence of illegal uses of BLM lands is unusually high in this subunit. Activities of particular 42 concern include: trash dumping, abandonment and disposal of automobiles and household appliances, target 43 shooting, paint ball shooting, long-term occupancy of dispersed camping areas, gatherings involving underage 44 drinking and/or use of illegal drugs, unattended campfires, driving off existing roads, and constructing unauthorized 45 trails.

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47 6. Special Recreation Uses - Motorcycle trials events have been authorized by BLM in this area for many years. 48 These events could be allowed to continue in an OHV LIMITED area, however, motorcycle use for practice 49 purposes could not be easily accommodated by a system of designated routes 50

51 **Desired Future Conditions** (summary of desired outcomes that respond to the identified issues and concerns) 52

53 Watershed conditions are improving throughout the subunit; rates of soil erosion are decreasing and water quality 54 and fish habitat in the Arkansas River are improving. 55

- 1 The values and qualities for which the Arkansas Canyonlands and Grape Creek ACECs were designated are 2 3 4 maintained and undiminished. Populations or occurrences of peregrine falcon, Townsend's big-eared bat, Arkansas canyon stickleaf, Degener beardtongue, and golden blazing star are stable or increasing. Opportunities are available for recreation uses that are compatible with maintaining the quiet and pristine qualities of these areas. 5 6 7
 - Visitors travel via a designated system of roads and trails that serve a variety of motorized, mechanized, and nonmotorized travel uses and that are being maintained to limit adverse impacts to vegetation, soils, and water.

The public has legal public access from Temple Canyon Park to the Grape Creek WSA, and from the Ecology Park to the Arkansas River.

12 Designated travel routes between BLM, City, County, and National Forest lands are cooperatively managed to 13 accommodate the same uses. 14

Impacts from dumping trash, target shooting, off-road vehicle play, unauthorized trail construction, and other illegal uses are no longer evident in areas where these activities had previously occurred.

18 Management Objectives (the following management objectives will receive primary consideration in evaluating 19 and comparing travel management alternatives and for identifying the alternative that works best to achieve the 20 desired future conditions)

- Protecting scenic and recreation values •
- Protecting and improving wildlife habitat conditions and maintaining core wildlife areas and movement • corridors
- Protecting rare natural vegetative communities and occurrences of sensitive plants and animals
- Protecting threatened and endangered and sensitive species •
- Resolving access issues in Grape Creek •
- Ensuring consistency with City, Recreation District, County, and National Forest travel management objectives
 - Protecting BLM lands from illegal uses
- Resolving issues related to motorcycle trials events •

32 33 **ROAD GULCH (Subunit L)**

34 General Setting - The Road Gulch subunit contains a total of 55,981 acres, including 12,709 acres of BLM public 35 lands. The area is remotely situated away from major highways and communities, however, most of the private 36 lands in the subunit have been subdivided into residential home sites, and many are occupied by year-round 37 residents. The area is not widely known for its recreation opportunities, but receives substantial amounts of 38 recreational use by local residents. The Turkey Gulch State Trust Lands are located in the subunit, and hunting is a 39 major use in this area.

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41 Most of the BLM lands are concentrated in two large blocks surrounding Lookout Mountain and Poverty Mountain 42 that are contiguous to the public lands included in the McIntyre Hills and Grape Creek subunits. The remaining 43 BLM lands consist of isolated fragmented parcels that are surrounded by private lands.

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45 Access to BLM lands in the Lookout Mountain and Poverty Mountain areas is provided by Fremont County Roads 46 28 (Road Gulch/Copper Gulch Road) and by a number of primitive BLM roads that extend from FCR 28 and

- 47 Highway 69. The BLM roads in these areas are heavily used for jeeping, ATV riding, and motorcycle riding. Some
- 48 road closures have been implemented around the Turkey Gulch State Trust Lands to protect riparian habitat and to
- 49 assist the Division of Wildlife in restricting motorized travel on the State property. Previous closures have also been
- 50 implemented at the top of Five Point Gulch and on several roads in the Poverty Mountain area to prevent motorized
- 51 encroachments into the McIntyre Hills WSA.
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Identified Issues and Concerns (summary of the major resource management concerns and social issues)

1. <u>Watershed Conditions</u> - The soils in the area exhibit high potential for erosion. Current levels of soil erosion from BLM lands are contributing to the declining quality of water and fish habitat in the Arkansas River.

2. <u>Wildlife Habitat</u> - The BLM lands in the subunit include important habitat for elk, deer, turkey, and black bear that is gradually diminishing in both size and quality. The Turkey Gulch State Trust Lands and surrounding BLM lands provide high-quality turkey habitat and hunting opportunities.

3. <u>Proliferation of New Trails</u> - The proliferation of user created trails is resulting in increasing amounts of resource damage. Users have created many of the trails and cut-offs from the existing road network. ATV and motorcycle trails are being systematically extended across steep and unstable slopes beyond the ends of existing 4WD routes.

4. <u>Exclusive Access and Uses from Private Lands</u> - Exclusive access from private in-holdings and from subdivisions bordering BLM lands is an issue here. Some existing BLM roads that are not accessible to the public because they are blocked by private lands are being accessed and used exclusively by private landowners; resulting in the creation of unauthorized travel routes that adversely impact vegetation, soils, and other natural resources.

5. <u>WSA Management</u> – OHV encroachments are occurring in portions of the McIntyre Hills WSA that violate congressional direction for managing WSAs.

6. <u>County Road Issues</u> - Several roads affecting BLM lands in this subunit are included in the Fremont County Road and Highway system but are not maintained by the county. The status of these roads under county jurisdiction raises several legal issues that limit the ability of the BLM to maintain or manage travel uses on these roads. In two of the cases the roads in question are not even being kept open to the public, but have been closed to public use where they cross private lands. The roads are being used exclusively, however, by the private landowners to access public lands. In both of these cases the uses originating from the private lands are adversely impacting vegetation, soils, and other resources on the public lands. BLM would like to limit access and uses on these roads but cannot legally impose restrictions on roads that are recognized and claimed by the county as public rights-of-way.

Desired Future Conditions (summary of desired outcomes that respond to the identified issues and concerns)

Watershed conditions are improving throughout the subunit; rates of soil erosion are decreasing and water quality and fish habitat in the Arkansas River are improving.

Available areas of wildlife habitat are expanding and improving throughout the subunit, supporting high numbers of deer, elk, turkey, and black bear.

Visitors travel via a managed system of designated roads and trails that serve a variety of motorized, mechanized, and non-motorized travel uses and that are being maintained to limit impacts on vegetation, soils, and water.

The values and qualities for which the Grape Creek WSA and ACEC were designated are maintained and undiminished. Opportunities are available for recreation uses that are compatible with maintaining the quiet and pristine qualities of these areas.

 46 <u>Management Objectives</u> (the following management objectives will receive primary consideration in evaluating 47 and comparing travel management alternatives and for identifying the alternative that works best to achieve the 48 desired future conditions)

- Protecting and improving watershed conditions
- Protecting and improving wildlife habitat conditions and maintaining core wildlife areas and movement corridors
 - Protecting WSA values in adjoining McIntyre Hills and Grape Creek subunits
- Resolving county road issues with Fremont County
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1 GRAPE CREEK (Subunit M)

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General Setting - The Grape Creek subunit contains a total of 47,649 acres, including 32,534 acres of BLM public lands. This subunit is situated southwest of the Canon City and mostly in Fremont County, except for a small portion of the subunit that extends into Custer County. The BLM lands in this subunit are mostly contained within the Grape Creek WSA and Grape Creek ACEC. The special management area designations for the WSA and ACEC recognize the area's outstanding scenic and recreational values, as well as the occurrences of rare plants and animals. Approximately 6,000 acres of the BLM lands occur outside of these special management areas.

Grape Creek is an important perennial tributary of the Arkansas River and the key landscape feature in the subunit.
The 15 mile-long section of Grape Creek that is included in the subunit is known for its beautiful scenery and offers outstanding opportunities for hiking and fishing in a primitive setting.

The majority of users access Grape Creek at the north end of the subunit by walking along the historic railroad grade from Temple Canyon Park. The only other public access route into Grape Creek is via BLM Road 6227; located approximately 7 miles upstream from Temple Canyon Park. Since the majority of visitors are forced to return to the point where they parked their vehicles, the heaviest amounts of recreation use occurs within a mile or two of Temple Canyon Park and the end of BLM 6227. The remaining sections of the canyon receive only moderate to light amounts of recreation use. Illegal encroachment into the WSA by users of motorized and mechanized vehicles is occurring in portions of Grape Creek.

Identified Issues and Concerns (summary of the major resource management concerns and social issues)

1. <u>WSA Management</u> – OHV encroachments are occurring in portions of the Grape Creek WSA that violate Congressional direction for managing WSAs.

2. <u>ACEC Management</u> - OHV encroachments are occurring in portions of the Grape Creek ACEC that adversely affect important wildlife habitat and watershed values.

3. Exclusive Access and Uses from Private Lands - Some of the BLM lands in the subunit abut subdivisions and other parcels of private lands that affect access and travel uses on public lands. In some cases private lands limit public access to BLM lands and have resulted in the development of multiple private access points that are only accessible to the private landowners. Many of these access points are being used for motorized access that are creating new travel routes and adversely impacting vegetation, soils, and other natural resources.

4. Legal Public Access Issues - The public has traditionally accessed Grape Creek from Temple Canyon Park via a
 trail that crosses private and state lands over which BLM does not have a public easement. Without a legal
 easement, continuous public access across these lands cannot be assured.

39 <u>**Desired Future Conditions**</u> (summary of desired outcomes that respond to the identified issues and concerns) 40

The values and qualities for which the Grape Creek WSA and ACEC were designated are maintained and
 undiminished. Opportunities are available for recreation uses that are compatible with maintaining the quiet and
 pristine qualities of these areas.

Traditional access from Temple Canyon to the Grape Creek State Trust Lands and BLM public lands is available to
 the public for non-motorized travel uses.

48 <u>Management Objectives</u> (the following management objectives will receive primary consideration in evaluating
 49 and comparing travel management alternatives and for identifying the alternative that works best to achieve the
 50 desired future conditions)

- 52 Protecting ACEC and WSA values
- Protecting uncommon plant communities and occurrences of sensitive plants and animals
- Protecting wildlife habitat and maintaining core wildlife areas and movement corridors
- Resolving legal public access issues
- Securing the WSA from encroachments by motorized and mechanized vehicles

1 CUSTER COUNTY (Subunit N)

General Setting - The Custer County subunit contains a total area of 108,807 acres, including 3,621 acres of BLM public lands. This large sub-unit includes all of the scattered BLM lands located within the Arkansas River TMP in Custer County except for lands in the Grape Creek WSA and ACEC. The subunit encompasses the north end of the Wet Mountain Valley and includes DeWeese Reservoir and the towns of Westcliffe and Silver Cliff. The BLM lands consist of small, scattered parcels that are surrounded by private lands. Many of the BLM parcels have been identified for disposal. The largest parcels are concentrated in three areas; Bear Peak, the White Hills, and DeWeese Reservoir.

The BLM lands provide open space and benefits to wildlife; however, due to the small size of most parcels the
 benefits to wildlife are not substantial.

Nearly all of the BLM parcels are accessed from county roads. The parcels surrounding DeWeese Reservoir are
 managed under a recreation partnership with Colorado Division of Wildlife. Recreation uses on other parcels is low.
 Recreation use originates mostly from local residents of adjoining subdivisions and the nearby communities.

Identified Issues and Concerns (summary of the major resource management concerns and social issues)

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1. Exclusive Access and Uses from Private Lands - Some of the BLM lands in the subunit abut subdivisions and other parcels of private lands that affect access and travel uses on public lands. In some cases private lands limit public access to BLM lands and have resulted in the development of multiple private access points that are only accessible to the private landowners. Many of these access points are being used for motorized access that are creating new travel routes and adversely impacting vegetation, soils, and other natural resources.

Desired Future Conditions (summary of desired outcomes that respond to the identified issues and concerns)

Recreation uses at DeWeese Reservoir are managed by DOW to provide access for fishing and dispersed camping opportunities along designated travel routes. In other areas, opportunities are available along county road corridors for dispersed hiking and horseback riding.

Visitors travel on public lands via a designated system of roads and trails that serve a variety of motorized, mechanized, and non-motorized uses. Some areas in the subunit are managed where visitors can experience opportunities for hiking, horseback riding, and mountain biking in quiet and remote settings, while opportunities for motorized recreation uses are available in other parts of the subunit.

36 <u>Management Objectives</u> (the following management objectives will receive primary consideration in evaluating
 37 and comparing travel management alternatives and for identifying the alternative that works best to achieve the
 38 desired future conditions)

- Protecting vegetation and soil conditions
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 Royal Gorge Field Office - Guidelines for Managing Access between BLM and Private Lands As the Royal Gorge Field Office (RGFO) implements its Resource Management Plan decision to conduct Travel Management Planning on public lands, guidelines are needed to clarify the conditions under which BLM may authorize access to public lands from adjoining private lands. Background Public land Travel Management Planning has the long term objective of providing reasonable access to the public for a variety of uses and enjoyment through a range of transportation uses that vary by area and circumstance. This objective is accomplished through the designation of a travel system providing for recreation and resource uses while also offering protection to important resource values. Managing access between BLM public lands and adjoining private lands is a problematic issue for BLM, private landowners, and the public alike. Private landowners may experience increased trespass from users seeking access to adjacent BLM public lands or who cross onto private lands from adjacent public lands. This often arises because the public is unclear about the location of the public land boundaries. On the other hand, private landowners often want to access public lands but are prevented by fences or locked gates. As large tracts of ranch lands have been subdivided and developed for mountain home properties, BLM has observed a substantial increase in the number of roads and trails leading from private lands not the adjoining public lands. Fences have been breached or gates installed in government-owned fences without authorization. This often results in the publicration of unauthorized travel routes, increased impacts on natural resources, increased user conflicts, and compromises BLM's management activities such as livestock grazing. Equity issues among public land sures also arise when access for motorized travel uses is occurring on BLM lands from private lands that	1	APPENDIX 3
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34 Guidelines for accessing BLM public lands from private lands where no legal		nom private fands that are not available to the general public.
51 Surveines for accessing plant public lunus from private lunus where no legal	34	Guidelines for accessing BLM public lands from private lands where no legal
35 public access exists (i.e., no county, state, or federal right-of-way exists):		public access exists (i.e., no county, state, or federal right-of-way exists):
3637 Other than for foot and horse uses, entry to public lands from private lands must comply with the		Other then for fact and have used antry to public lands from private lands must comply with the
38 designated transportation system and be limited to the same means of travel that the general		Other than for foot and horse uses, entry to public lands from private lands must comply with the designated transportation system and be limited to the same means of travel that the general
39 public uses from public access points. Access from private lands using any type of motorized	39	public uses from public access points. Access from private lands using any type of motorized
 40 or mechanized vehicle will only be allowed in cases where: 41 		or mechanized vehicle will only be allowed in cases where:
4142 1. The use is authorized by a Right-of-Way or permit issued by the BLM;		1. The use is authorized by a Right-of-Way or permit issued by the BLM;
43 2. Special or unique BLM management objectives are best achieved by allowing limited 44 motorized access from private lands		2. Special or unique BLM management objectives are best achieved by allowing limited

motorized access from private lands.

- 1 Unless the public land is specifically designated otherwise, access for foot and horse travel is
- 2 permitted from any adjacent private land via non-public access points.
- 3

However, in circumstances where fencing separates private from public land, the following
guidelines apply for the installation of passageway gates and other devices to access public land:
(Administrative access for BLM permitted activities may differ from that stated below)

1. When a separating fence is privately-owned - The installation of a gate or other
passageway is at the discretion of the party who owns the fence, but access to the public land
must be by the appropriate means as designated by the Travel Management Plan. The BLM
<u>encourages</u> that the integrity of the fence be maintained to limit related problems such as
livestock drift but BLM has no specific authority to control where and how gates are installed on
privately-owned fences; however, any resource damage resulting from the repetitive use of trails
or travel routes that originate or develop from private access points may require remedy from the

- 15 parties using the travel-way.
- 16

17 2. When a separating fence is government property and the need for access is for foot

18 **travel, only** – Only step-over access features are allowed for accommodating foot access. Such

19 access devices are commonly used to reduce the risk of personal injury and to protect barbed-

20 wire fences from damage resulting from people climbing through or over them. They are

intended to facilitate foot access while also maintaining the strength and function of the fence for controlling livestock. Such step-over access features may be as simple as the placement of large

rocks on both sides of the fence or they may be more elaborate fence steps or ladders, such as the

24 examples shown in Exhibit 1. The costs of constructing and maintaining these devices are

25 normally borne by the landowner.

26

Generally, BLM does not require landowners to obtain permission to install fence steps or ladders that have been properly constructed to maintain the integrity of the fence and that do not damage natural resources on BLM lands. Landowners are encouraged, however, to obtain approved plans from BLM before installing step-over access features to assure that the integrity of the affected fences are maintained and that BLM resources are protected. BLM reserves the

right to require the removal of structures that do not conform to these requirements. BLM

authorization to construct step-over access stiles does not authorize construction or improvement
 of travel ways leading from the access point. Furthermore, any resource damage resulting from

35 the repetitive use of trails or travel routes that originate or develop from private access points

36 may require remedy from the parties using the travel-way.

37

38 **3.** When a separating fence is government property and the need for access is for means

39 of travel other than for hiking – As a general rule, existing gates through government-owned

40 **fences that have not been locked by BLM** may be used by private landowners for foot and

41 horse access without requiring BLM authorization. However, where existing gates are locked by 42 BLM or where no actes occur in a government owned force line, the construction of special

42 BLM or where no gates occur in a government-owned fence line, the construction of special

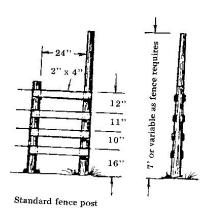
access gates other than step-over fence stiles must be authorized by BLM. This includes gates
 for travel uses including but not limited to using horses, bicycles, or motor vehicles.

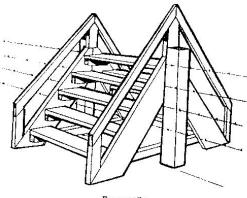
1 2	Requests for special access gates will be evaluated by BLM on a case-by-case basis and as BLM workload allows. Applicants must be able to demonstrate the need for special access gates. In
3	cases where a single access point could serve more than one landowner, applicants must also
4	show that they have coordinated with neighboring landowners for sharing the use of the access
5	gate. The costs of constructing and maintaining such access gates are normally the responsibility
6	of the applicant. BLM authorization to construct special access gates does not authorize
7	construction or improvement of travel ways leading from the access gate. Furthermore, any
8	resource damage resulting from the repetitive use of trails or travel routes that originate or
9	develop from private access gates may require remedy from the parties using the travel-way.
10	
11	4. If a wildfire or other life-threatening emergency occurs – In the event of a wildfire, flood,
12	or other life-threatening events, the BLM will not hold persons liable for damaging government
13	property or for violating travel management designations when emergency escape routes may be
14	blocked by BLM fences or gates.
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1 Exhibit 1 – Examples of Step Over Fence Stiles

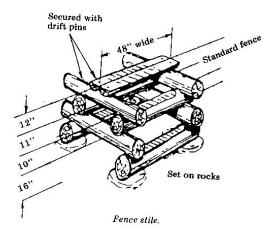
People Access

Fences control livestock, wildlife, and people. Controlling people effectively requires planned access. Gates are, of course, the most common access, but stiles, ladders and walk-throughs exclude livestock and wildlife while allowing people to move safely from one side of a fence to the other. These structures must be strong and durable. They must be constructed with safety as a major consideration. Treated lumber will prolong the life of the structure. Controlling where people cross a fence will save a great deal in maintenance and replacement costs.









APPENDIX 4

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3

Definitions of Travel Use Categories

4 5 The Travel Use Categories define the individual roads and trails in terms of the types of uses that 6 are permitted on them. There are 10 categories, of which the first 6 represent the types of 7 designatedtravel uses that apply to those roads and trails that are available for use by the public and that arecontrolled by BLM. The 7th category, Non-BLM, are available to use by the public 8 9 but are controlled by other jurisdictions that regulate use of the roads. The last three categories 10 are routes that are controlled by BLM but that are not available for public use with OHVs. 11 12 It is important to understand that each Travel Use Category is named for the type of use that it 13 is primarily suited to accommodate. The other travel uses included in the category should be 14 considered as secondary uses. This distinction is important so that it is recognized that just 15 because secondary uses are allowed does not mean that all of the routes in the category are 16 suitable for those uses. 17 18 The most inclusive travel uses class is the **General** category (abbreviation **O** and shown by blue 19 lines on the maps), including all of the various types of roads commonly found on public lands, 20 ranging from maintained dirt and graveled roads to low standard primitive four-wheel drive 21 roads. These roads are designed to accommodate conventional size motor vehicles but are also 22 available for use by ATVs, motorcycles, bicycles, horses, and foot travel. 23 24 The ATV category (Class A and shown on maps by brown lines) includes routes that are 25 intended for use by ATVs but are also available for motorcycles, bicycles, horses, and foot 26 travel. 27 28 The Motorcycle category (Class M and shown on maps by olive-green lines) includes routes 29 intended for single track motorcycle use but are also available for use by bicycles, horses, and 30 foot travel. 31 32 The **Bicycle** category (Class **B** and shown on maps by apple-green lines) includes routes 33 intended for use by mountain bikes but are also available for use by horses and foot travel. 34 35 The **Equestrian** category (Class **E** and shown on maps by hot pink colored lines) includes routes 36 intended to accommodate horseback riding but are also available for foot travel. 37 38 The Foot category (Class F and shown on maps by dark green lines) includes routes that are 39 intended for foot travel only. 40 41 The "Non-BLM" category includes county, state, and Federal highways and roads and is indicated on the maps by pink lines and the abbreviation Non-BLM. As a general rule most of 42 43 the Non-BLM roads are public roads limited to use with street-legal vehicles and are not open to 44 ATVs or other unlicensed motor vehicles. Most are paved or graveled roads designed to 45 accommodate high-speed traffic. There are, however, are few county roads that are low standard

- 1 dirt roads that have been designated by the controlling county for use with ATVs and unlicensed
- dirt bikes. The BLM doesnot have jurisdiction over these roads and is not proposing any travel
 management designations for them in this plan.
- 4
- 5 "User Created" routes are travel ways that were created after the approval of the Royal Gorge 6 RMP on May 13, 1996. The RMP stipulates that OHVs will be limited to "existing" routes until 7 route designations are implemented. Consequently, these routes did not exist at the time the plan 8 was approved and thus do not comply with current management direction. User Created routes
- 9 are indicated by the abbreviation **UC** and in red on the maps.
- 10
- 11 The "Administrative Access" category is shown on the maps with gold lines and the
- 12 abbreviation AA. These routes are not designated for specific recreational travel uses, and are
- 13 not available to the public for motorized or mechanized travel. Many Administrative Access
- 14 routes, however, will remain available for administrative uses by authorized personnel and
- 15 permit holders with motor vehicles, and where legal public access exists, are also available to the
- 16 public for foot and horse travel.
- 17
- 18 The last category includes the "Closed" routes. These are shown on the maps by black dashed
- 19 lines and abbreviated **CL**. Closed routes are those that are neither available for use by the public
- 20 nor needed for administrative uses.

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APPENDIX 5 1 2 **Standards for Public Land Health** 3 4 5 6 PREAMBLE 7 8 Humans use and derive benefits from public lands administered by BLM in Colorado in many 9 ways:to earn a livelihood, to recreate, for education, for science, and to enjoy and appreciate 10 open spaces and irreplaceable cultural heritage resources. Healthy public lands and the uses of those lands contribute to the health and economic well-being of Colorado communities. In turn, 11 12 healthy human communities create healthy public lands by conserving, protecting, and properly 13 utilizing public land resources and by effectively resolving conservation issues. Healthy public 14 lands and healthy human communities are interrelated; therefore, social, economic, and 15 environmental considerations must be properly balanced. 16 The interdependent relationship between human communities and their public land brings 17 18 together people of diverse backgrounds and interests. Open, honest, and sincere interactions, in a 19 spirit of trust and respect, are essential to achieving and maintaining healthy public lands. While 20 all individuals have a voice in public land management goals, the responsibility to maintain 21 healthy public lands ultimate falls with the users of those lands. 22 23 To help determine what constitutes healthy public lands, Standards for Public Land Health, by 24 which the health of the land is measured, were established. This document defines such 25 standards for BLM lands in Colorado. 26 27 **INTERPRETATION** 28 29 Standards and guidelines can be an effective communication tool, providing a common 30 understanding of expected resource conditions and acceptable management practices. Although 31 the standards are the measures by which health of the land will be assessed, the results of these 32 assessments are not well-suited for direct reporting of accomplishments. Any reporting of 33 progress associated with application of these standards will need to consider and address the 34 following factors: 35 • Standards and guidelines for each state will be different. 36 • To be meaningful, public land health assessment must be determined based upon 37 all standards and not solely upon each individual standard.

- It will be many years before a full assessment of public land health is completed.
 Initially, statistics concerning public land health may be skewed due to the
 priority setting process which directs management attention to lands where
 problems exist.
- 41 42

43 Standards describe conditions needed to sustain public land health, and relate to all uses of the44 public lands.

- 1 The standards are written in a two-part format. The standard is first described in a statement.
- 2 Then indicators which relate to the standard are identified. The indicators help define the
- 3 standard and describe features which are observable on the land. Additional indicators may also
- 4 be applicable to somesites, and some indicators may not apply to every specific site. While a site
- 5 should match the indicators it is not necessary for each site to perfectly match all the indicators
- 6 to comply with the standard.
- 7
- 8 The appropriate use of resources will be determined by the authorized officer on a case by case
- 9 basis, in consultation, coordination and cooperation with local cooperators and the interested
- 10 public and in accordance with law and regulation.
- 11

12 Standards are observed on a landscape scale. It is not possible for each acre to achieve every

- 13 standard. For example, a mosaic of vegetation types and age classes may produce the diversity
- 14 associated with a healthy landscape; however, some individual vegetation communities within15 the mosaic may lack diversity.
- 16
- 17 Standards always relate to the potential of the landscape. Climate, landform, geologic, and
- 18 biologic characteristics are factors that affect potential. Each landscape has a specific ability to
- 19 provide values important to humans such as timber, livestock forage, water, wildlife, and
- 20 minerals. Therefore, the potential of a site can also be altered through a wide variety of human
- 21 socio-economic factors. When this occurs, a new potential exists. The authorized officer,
- 22 through the consultation process, will evaluate the site based on its new potential. Comparative
- 23 analysis of nearby landscapes (that appear to have similar climate, geology, landform, biologic
- 24 and socio-economic characteristics) is considered the most reliable
- 25 means to identify the potential landscape.
- 26
- 27 It is common for landscapes with nearly identical potential to differ, in their appearance, and in
- the values they provide. Variability results from both natural plant succession patterns, and
- human uses. While the climax plant community is significant as an indicator of potential, the climax community does not automatically provide the comparative basis for evaluating the
- 30 chinax community does not automatically provide the comparative basis for evaluating the 31 standard. In many circumstances local goals will identify a different plant community which
- 32 provides the most optimum values. When this occurs, the plant community identified in the
- 33 local goal replaces the climax community as the foundation for evaluating the standard.
- 34

35 Often, existing information will be sufficient to determine public land health. It is not always 36 necessary to collect measurable baseline data for each standard on each site to determine public 37 land health. However, baseline data is important to establish so that changes can be observed 38 and measured. The BLM'sauthorized officer will determine the amount and type of data each 39 situation requires in consultation, coordination and cooperation with local cooperators and the 40 interested public. In areas where the standardsare not being achieved, current uses and 41 management actions will be reviewed and modified if necessary to assure significant progress 42 toward achieving a healthy ecosystem.

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1 APPROVAL

2

The <u>Standards for Public Land Health</u> were evaluated through an Environmental Assessment in
 1996. The BLM State Director issued a Decision Record and a Finding of No Significant Impact

1996. The BLM State Director issued a Decision Record and a Finding of No Significant Imp
 on November 8, 1996, with Approval for Implementation coming from the Secretary of the

6 Interior in February 12, 1997. The decision amended the Royal Gorge Resource Management

- 7 Plan. The standards supplement the existing decisions in the RMP.
- 8
- 9

STANDARD 1: Upland soils exhibit infiltration and permeability rates that are appropriate to soil type, climate, land form, and geologic processes. Adequate soil infiltration and permeability allows for the accumulation of soil moisture necessary for optimal plant growth and vigor, and minimizes surface runoff.

14

15 Indicators:

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21 22

- Expression of rills and soil pedestals is minimal.
- Evidence of actively-eroding gullies (incised channels) is minimal.
- Canopy and ground cover are appropriate.
- There is litter accumulating in place and is not sorted by normal overland water flow.
- There is a diversity of plant species with a variety of root depths.
- Upland swales have vegetation cover or density greater than that of adjacent uplands.
- There are vigorous, desirable plants.
- 23 24 25

STANDARD 2: *Riparian systems* associated with both running and standing water, function properly and have the ability to recover from major disturbance such as fire, severe grazing, or 100-year floods. Riparian vegetation captures sediment, and provides forage, habitat and biodiversity. Water quality is improved or maintained. Stable soils store and release water slowly.

31 Indicators:

32 33

- Vegetation is dominated by an appropriate mix of native or desirable introduced species.
- Vigorous, desirable plants are present.
- There is vegetation with diverse age class structure, appropriate vertical structure, and adequate composition, cover, and density.
- Streambank vegetation is present and is comprised of species and communities that have root systems capable of withstanding high streamflow events.
- Plant species present indicate maintenance of riparian moisture characteristics.
- Stream is in balance with the water and sediment being supplied by the watershed (e.g., no headcutting no excessive erosion or deposition).,
- 42 Vegetation and free water indicate high water tables.
- Vegetation colonizes point bars with a range of age classes and successional stages.
- An active floodplain is present.

- Residual floodplain vegetation is available to capture and retain sediment and dissipate flood energies.
 - Stream channels have appropriate size and meander patterns for the streams' position in the landscape, and parent materials.
 - Woody debris contributes to the character of the stream channel morphology.

8 STANDARD 3: Healthy, productive plant and animal communities of native and other desirable
9 species are maintained at viable population levels commensurate with the species and habitat's
10 potential. Plants and animals at both the community and population level are productive,
11 resilient, diverse, vigorous, and able to reproduce and sustain natural fluctuations, and ecological

12 processes.

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- 14 Indicators:
- 15 16

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- Noxious weeds and undesirable species are minimal in the overall plant community.
- Native plant and animal communities are spatially distributed across the landscape with a density, composition, and frequency of species suitable to ensure reproductive capability and sustainability.
 - Plants and animals are present in mixed age classes sufficient to sustain recruitment and mortality fluctuations.
 - Landscapes exhibit connectivity of habitat or presence of corridors to prevent habitat fragmentation.
 - Photosynthetic activity is evident throughout the growing season.
 - Diversity and density of plant and animal species are in balance with habitat/landscape potential and exhibit resilience to human activities.
 - Appropriate plant litter accumulates and is evenly distributed across the landscape.
 - Landscapes are composed of several plant communities that may be in a variety of successional stages and patterns.

29 30 31

STANDARD 4: Special status, threatened and endangered species (federal and state), and other
 plants and animals officially designated by the BLM, and their habitats are maintained or
 enhanced by sustaining healthy, native plant and animal communities.

- 36 Indicators:
- 37 38
- All the indicators associated with the plant and animal communities standard apply.
- Suitable habitat is available for recovery of endemic and protected species.
- 39 40

41 **STANDARD 5**: The water quality of all water bodies, including ground water where applicable,

located on or influenced by BLM lands will achieve or exceed the Water Quality Standards
established by the State of Colorado. Water Quality Standards for surface and ground waters

44 include the designated beneficial uses, numeric criteria, narrative criteria, and antidegradation

- 45 requirements set forth under State law as found in (5 CCR 1002-8), as required by Section 303(c)
- 46 of the Clean Water Act.

1 Indicators:

- 2 3
- Appropriate populations of macroinvertebrates, vertebrates, and algae are present.
- Surface and ground waters only contain substances (e.g., sediment, scum, floating debris, odor, heavy metal precipitates on channel substrate) attributable to humans within the amounts, concentrations, or combinations as directed by the Water Quality Standards established by the State of Colorado (5 CCR 1002-8).

Appendix 6 Requests for New Trails -Texas Creek

2 3 4

5

1

Texas Creek Travel Management Area – Background

6 The Texas Creek subunit is unique in the Arkansas River TMP in that it is an area where a 7 concerted effort has already been made to limit motorized uses to a network of identified travel 8 routes. The current network of identified travel routes, however, does not meet the legal 9 definition of a travel management system that limits OHVs to designated routes, because many 10 of the roads and trails are within the Texas Creek OHV OPEN area. Under the OHV OPEN 11 designation, travel is permitted off existing roads and trails. Under the pending Arkansas River 12 TMP, the OHV OPEN area would be changed to OHV LIMITED, and OHVs would be limited 13 to designated routes.

14

15 The current network of identified routes was the outcome of an EA that was initiated in 1998

16 (CO-057-98-127 EA). The 1998 EA analyzed the environmental effects of maintaining the

17 existing trails in the area for specific types of uses, as well as constructing several new trails in

the area for use by ATVs and motorcycles. As a result of this EA, many of the existing trails that

extended outside of the Texas Creek OHV OPEN area were closed to protect sensitive
 watershed, vegetation, and wildlife resources. In 2002, the routes that were approved for

watershed, vegetation, and wildlife resources. In 2002, the routes that were approved for
 maintenance and new construction were identified on the ground with travel management signs.

22

23 Identified Current Management Needs

24

25 The BLM ID team members spent many hours in the field observing the current road and trail 26 conditions. The team observed that some of the existing routes are not being properly 27 maintained, resulting in excessive erosion. Water bars that are needed to control run-off were 28 either lacking altogether or were not functioning due to insufficient repair and maintenance. 29 Portions of existing trails were found that are too steep to establish permanent water bars. As a 30 result, sections of trails are experiencing excessive erosion and channeling that can only be 31 corrected by re-routing the trails onto gentler grades where run-off can be more effectively 32 controlled. The general lack of recurring trail maintenance and the failure to re-route 33 unsustainable sections of trails are contributing to the high levels of soil erosion that are 34 occurring throughout the area.

35

The lack of trail maintenance also raised concerns about ATV users who may lack the skills and experience to safely ride some of the trails. The steep grades and obstacles that exist on sections of some trails are not suitable for average ATV riders. Recurring maintenance is necessary to correct difficult conditions to provide trails that are more suitable for riders of average abilities.

39 40

41 It was also observed that some users are not complying with the current travel management

42 signage and are not staying on the identified travel routes and that some of the routes that were

43 closed in the 1998 EA are being used. Numerous "user created" trails were discovered that did

44 not exist a few years ago. Most of this activity is occurring in the lower or southern portions of

1 the subunit, but is also occurring in the northern portion on Table Mountain, where the open

- 2 terrain allows easy travel off the established roads and trails. The most visible example of the
- 3 damage to soils and vegetation, however, is concentrated around the main parking lot. The
- 4 intensive ATV and motorcycle play that occurs around the parking lot has created a braided
- 5 network of trails and large areas of bare ground that cover an estimated 15 acres. In addition,
- 6 several "user created" ATV trails have been developed between the parking lot and the Texas
- 7 Creek store that have only become established in the last year.
- 8
- 9 A considerable amount of off-road play by ATVs was also found west of the parking lot along

10 routes 6020 and 6024. Several "unauthorized" short-cut ATV trails connecting 6020 and 6024

11 have become well established by users. A recently created ATV play area was also discovered

- 12 near the mouth of Reese Gulch that includes a spur trail extending onto the Santa Fe Rail Road.
- 13

14 The team members discovered a high amount of off-route non-trials, dirt bike use occurring

- 15 along the west side of Reese Gulch within the area that is used for holding motorcycle trials
- 16 events. A high amount of motorcycle use was also found on an existing trail extending between
- 17 Reese Gulch and Fernleaf Gulch that was closed in the 1998 EA. This trail is one of several
- 18 closed routes that the Colorado Motorcycle Trail Riders Association is requesting to be reopened
- 19 under the Arkansas River TMP, and is shown as trail S-2 on the map accompanying their
- 20 request. This trail showed signs of recent use west from Reese Gulch to the crest of the
- 21 separating ridge, but no use was evident from the crest to the bottom of Fernleaf Gulch or west
- of Fernleaf to the trail terminus near Garell Peak. An extensive network of recently created
- 23 "motocross" trails located near the ridge top between Reese Gulch and Fernleaf Gulch was also
 24 discovered along this trail. In the course of evaluating user compliance the team uncovered
- 24 unscovered along uns trail. In the course of evaluating user compliance the team uncovered 25 many examples where users are not staying on the established network of roads and trails and are
- 26 concerned that such non-compliance is contributing to the overall impacts on soils, vegetation,
- and wildlife.

28

29 Recommendations for Addressing Current Management Needs

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37

Early in the planning process the BLM ID team identified the major issues and concerns that needed to be addressed in the Texas Creek subunit. The goals, or Desired Future Conditions (DFCs), that were developed to respond to these issues and concerns include:

- Watershed conditions are improving throughout the subunit; rates of soil erosion are decreasing and water quality and fish habitat in the Arkansas River are improving.
- 38 Riparian habitat occurring along the various drainages in the subunit is healthy and
 39 functioning to stabilize stream courses.
- 40
 41 Available areas of wildlife habitat are expanding and improving in the subunit,
 42 supporting sustainable numbers of deer, elk, bighorn sheep, and other wildlife. Viable
 43 wildlife corridors and habit connections are maintained within the subunit and with the
- 44 adjoining Red Gulch and Big Hole subunits.

1 Visitors travel via a designated system of roads and trails that serve a variety of 2 motorized, mechanized, and non-motorized uses and that are being maintained to limit 3 impacts on vegetation, soils, wildlife and water. Numerous opportunities are available 4 throughout the subunit for motorized recreation uses, including designated routes of 5 varying levels of difficulty for users of 4WDs, ATVs, and motorcycles. 6 7 BLM and county roads that have been traditionally used and maintained continue to be 8 available to the public for motorized, mechanized, and non-motorized travel uses. 9 10 To accomplish these DFCs will require a high level of involvement by the various motorized user groups. By itself, BLM does not have enough personnel or money to maintain the existing 11 12 network of roads and trails, fund the construction of new trails, build and maintain support 13 facilities, and enforce user compliance. BLM has received State OHV grants to construct new 14 trails and perform trail maintenance in Texas Creek. One of these grants funds the interagency Upper Arkansas Motorized Trail Crew which is scheduled to work in Texas Creek in 2006 and 15 16 2007. The long term goal of BLM and its partners is to permanently establish this crew to provide annual trail maintenance and user education in Texas Creek and other areas of the Upper 17 18 Arkansas Valley. 19 20 To provide for continued motorized uses, while also protecting the area's resources, the ID team offers the following recommendations for guiding future management and development of the 21 22 Texas Creek OHV Area: 23 24 1. Continue and strengthen long-term partnerships with motorized user groups (COHVCO, 25 CMTRA, RMTA, etc.) for the purposes of maintaining existing trail networks and for 26 constructing new trails. 27 2. A significant factor in approving new trails depends on the ability to maintain existing trails to agreed standards. With the participation of cooperating partners, develop 28 29 accepted standards and guidelines for constructing and maintaining new and existing 30 trails. 31 3. With the participation of cooperating partners, establish a system and procedures for 32 monitoring trail conditions and performing necessary maintenance work. 4. Approve construction of new or additional trails only when the following conditions have 33 34 been met: 35 36 a. The proposal would further the goals (DFCs) identified on page 2. 37 b. The proposal is sponsored under a partnership agreement that includes a plan for 38 securing the necessary funds and/or volunteer commitments to construct and maintain 39 the trail to accepted standards. The specific location(s) of the proposed trail(s) has been flagged on the ground 40 с. 41 and mapped using GPS. d. The decision to approve the trail(s) has been authorized under a site specific EA 42 that analyzes the environmental effects of the proposal. 43 44 45

1 CMTRA Proposals

2

3 During the scoping phase of the Arkansas River TMP the Colorado Motorcycle Trail Riders

4 Association (CMTRA) submitted a request for seven additional trails in the Texas Creek area.

5 Five of the proposed trails would be for ATVs and motorcycles and two would be just for

6 motorcycles. Six of the trails, including five ATV trails and one single-track motorcycle trail,

- 7 would involve re-opening trails that were closed in the 1998 EA. The seventh trail would be a
- 8 single track motorcycle trail that would require new construction in an area that currently
- 9 contains no trails.
- 10

11 The Finding of No Significant Impact (FONSI) for the 1998 EA included a decision that

12 precludes consideration of any additional trails outside of the OHV OPEN area but that allows

13 application for additional trails within the OHV OPEN area, subject to approval through

14 additional NEPA analysis. As stated in the FONSI, the rationale for decisions pertaining to the

15 retention or closure of individual routes was guided by the overall objective of identifying,

16 "....areas where OHV use is the predominant use and other areas where protection of vegetation,

- 17 wildlife habitat, soils, and wildlife is the predominant use."
- 18

19 In analyzing the Texas Creek subunit for the Arkansas River TMP, the BLM ID team considered

- 20 the previous analyses and decisions that were made in the 1998 EA. The ID team recognized
- 21 that the closures of those specific route segments that were supported by the need to protect

22 identified resources were valid decisions at the time the EA was conducted. The ID team also

23 recognized that, in most cases, these decisions would still be valid today because the conditions

24 under which the decisions were made had not changed.

25

26 In regard to the decision in the 1998 EA to not allow additional routes outside of the OHV OPEN

27 area, the majority of the ID team members felt that the rationale for this decision was not

supported by any identified needs to protect specific areas and resources. Instead, the rationale

appeared to be based on a general presumption that all of the areas outside of OHV OPEN area

had been identified as areas, "....where the protection of vegetation, wildlife habitat, soils, and
 wildlife is the predominant use." The FONSI also failed to define how far the decision would be

32 applied outside the OHV OPEN area; therefore, there is no way to tell the extent of the area that

- 33 the decision was intended to cover.
- 34

35 After considering the previous decisions in the 1998 EA, the ID team decided that the decision

that limited additional routes to the OHV OPEN area was not a sufficient reason for not

analyzing the requested routes that extended outside of the OHV OPEN area. The ID team also

determined that it would be appropriate to include and re-analyze all of the requested trails under

39 the High Use Alternative (Alternative A); as this would provide a way to compare the

40 environmental effects of these routes to the other alternatives that do not include them, and to

41 perform the analysis using GIS technology that was not available when the 1998 EA was done.

42 Furthermore, it was determined that some of the requested routes could be included in the

43 Proposed Action (Alternative C), but limited to those routes where the resource impacts could be

44 satisfactorily mitigated at low to moderate cost and where the routes would not result in

45 substantially expanding OHV uses outside of the current Texas Creek TMA.

- The requested additional trails are identified by the trail numbers that were included in
 CMTRA's proposal (See Map 5). The route segment numbers referenced in the 1998 EA are
 depicted in Map 16.
 A-1 The proposed ATV/motorcycle trail would be approximately 3.2 miles in length
 - A-1 The proposed ATV/motorcycle trail would be approximately 3.2 miles in length. The trail would involve re-opening an existing route that was closed in the 1998 EA. Approximately 1.5 miles would be located in the East Gulch drainage and would either follow along the bottom or be located a short distance above the bottom of the gulch. Creating an ATV trail through the gulch would require new construction for most of its length.
- 12 The analysis conducted in the 1998 EA resulted in the closure of trail A-1, which was identified in the 1998 EA as Segment 20. The 1998 EA identified that the route was 13 14 located outside of the OHV OPEN area and that impacts from OHV uses of the route were adversely impacting wildlife and vegetation. In reviewing this route under the 15 16 Arkansas River TMP, the ID team determined that re-opening the route to OHVs would 17 result in impacts to riparian habitat, water quality, and wildlife that would require extensive and costly mitigation measures to avoid adversely affecting these resources. 18 The ID team also determined that re-opening this route would result in substantially 19 20 expanding OHV uses outside of the current Texas Creek TMA that could adversely affect wildlife. For these reasons, the analysis of route A-1 is not included in the Proposed 21 22 Action (Alternative C) but is included in the High Use Alternative (Alternative A).
- A-2 The proposed ATV/motorcycle trail would be approximately 2.6 miles in length
 and would involve re-opening an existing route that was closed in the 1998 EA.
 Approximately 0.5 miles of new construction would be needed to re-route the upper
 section of the existing trail that is excessively steep and that could not be sustained on its
 current location.
- 30 Trail A-2 was analyzed in the 1998 EA as Segments 16 and 17. The 1998 EA identified that the route was located outside of the OHV OPEN area and that OHV uses of the 31 segments were adversely impacting wildlife. The EA also cited excessive erosion due to 32 33 improper location of the segments on steep and erosive slopes. In reviewing the route 34 under the Arkansas River TMP, the ID team determined that the impacts to soils could be 35 satisfactorily mitigated at moderate cost by re-routing and reconstructing sections of the trail to avoid excessively steep and erosive slopes. The ID team also determined that re-36 37 opening this route would not result in substantially expanding OHV uses outside of the current Texas Creek TMA that could adversely affect wildlife. Analysis of route A-2 is 38 39 included in the Proposed Action (Alternative C) and in the High Use Alternative 40 (Alternative A).
- 42 A-3 The proposed ATV/motorcycle trail would be approximately 1.2 miles in length
 43 and would involve re-opening a route that was closed in the 1998 EA. Portions of the
 44 existing trail would need to be re-routed to remove it from the drainage bottom to reduce
 45 impacts on riparian habitat.
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1 2 3 4 5 6 7 8 9	Under the 1999 EA, trail A-3 was identified as Segment 14. The 1998 EA identified that the route was located outside of the OHV OPEN area and that OHV uses of the segments were adversely impacting wildlife and riparian vegetation. In reviewing this route under the Arkansas River TMP, the ID team determined that re-opening the route to OHVs would result in substantially expanding the amounts of OHV activity outside of the existing Texas Creek TMA which would adversely affect wildlife and riparian vegetation. The analysis of route A-3 is not included in the Proposed Action (Alternative C) but is included in the High Use Alternative (Alternative A).
10	
11	A-4 - The proposed ATV/motorcycle trail would be approximately 0.6 miles in length
12	and would involve re-opening the trail to the waterfalls on Fernleaf Gulch that was closed
13	in the 1998 EA.
14	
15	Trail A-4 does not appear as a separate segment on the map of the trails that were
16	analyzed in the 1998 EA but because it could only be reached from Segment 14 (A-3),
17	which was closed under the 1998 EA, then route A-4 was closed, as well. In reviewing
18	the route under the Arkansas River TMP, the ID team determined that re-opening the
19	route to OHVs would adversely impact riparian vegetation in Fernleaf Gulch and that
20	analysis of route should not be included in the Proposed Action (Alternative C) but is
21	analyzed under the High Use Alternative (Alternative A).
22	
23	A-5 - The proposed ATV/motorcycle trail would be approximately 0.2 miles in length
24	and would involve re-opening a closed trail that leads to a scenic vista point.
25	
26	Trail A-5 is not specifically identified for closure in the 1998 EA. Presumably, it was
27	closed because it extends barely outside of the OHV OPEN area and to prevent soil
28	erosion that was occurring on the steeper sections of the trail. It is, however, located
29	within the current Texas Creek TMA. The trail extends from an existing route that is
30	open to ATVs and motorcycles, which is identified as Trail #6035 in the Texas Creek
31	TMA brochure. Because it is within proximity of existing OHV activity, re-opening the
32	trail would not substantially expand OHV activity outside of the existing TMA and
33	would have little impact on wildlife. Consequently, in reviewing the route under the
34	Arkansas River TMP, it was determined that the erosion problems could be satisfactorily
35	mitigated at moderate cost by re-routing and reconstructing sections of the trail to avoid
36	excessively steep and erosive slopes; by installing water bars and establishing routine
37	maintenance of the trail. Analysis of route A-5 is included in both the Proposed Action
38	(Alternative C) and the High Use Alternative (Alternative A).
39	
40	S-1 - The proposed single-track motorcycle trail would be approximately 7.6 miles in
41	length. The entire trail would require new construction. The original route indicated on
42	Maps 5 and 6 show an approximate location that was submitted by the proponent before
43	any ground reconnaissance had been done. Since submitting the proposal the proponent
44	has accomplished some work to flag a route that could be constructed to acceptable
45	gradients but the exact location of the middle section of the trail has not been established.
46	The portions of the trail that have been flagged are also indicated on Map 5. As is

apparent from viewing the map, there are considerable differences between the locations of the original submission and the flagged routes.

In reviewing this proposal, several members of the ID team spent a considerable amount of time reconnoitering the proposed route and the two sections that had been flagged by the proponent. In their efforts to follow the originally proposed route, BLM personnel encountered steep side slopes and extensive outcroppings of large rocks that would make construction of a trail extremely difficult and costly. Attempts to hike through the middle section of the proposed route were abandoned all together due to the massive formations of rock and cliffs that were encountered. On the other hand, reconnaissance of the two sections of the route that had been flagged by the proponent appeared to follow terrain where a trail could be constructed to acceptable standards and at moderate cost.

Because it has yet to be demonstrated that an acceptable route could be located across the general area that the trail would cross, a proper analysis of the environmental impacts that would result from its construction cannot be conducted at this time. Consequently, the ID team has determined that the analysis of the trail should be addressed under Alternative A (High Use Alternative) and limited to identifying the impacts to the resources located along the originally proposed route. Furthermore, unless the analysis finds resource issues in the general area that cannot be avoided regardless of where it would be located, the proponent may reapply for the trail in the future. This will allow additional time for the proponent to find a connecting route between the two segments that have already been flagged, and to present a proposal to BLM that can be analyzed in a site-specific EA.

S-2 - The proposed trail would be approximately 3.3 miles in length and would involve
re-opening a trail that was closed in the 1998 EA. The trail would provide a connection
between Reese Gulch and Red Gulch that would only be suitable for use by expert
motorcycle riders. Approximately 0.8 mile of this trail is currently being used by
motorcyclists where it leaves Reese Gulch and climbs to the crest of the ridge separating
Fernleaf Gulch, but no use is occurring from the crest to the bottom of Fernleaf Gulch
because portions of the original trail have eroded away due to excessively steep terrain.

The analysis conducted in the 1998 EA resulted in the closure of trail S-2, which was identified in the 1998 EA as Segment 23. Re-opening this route would also require opening route A-3 (Segment 14), which intersects it on the west end of S-2 near Garell Peak. The 1998 EA identified that the route was located outside of the OHV OPEN area and that impacts from OHV uses of the route were adversely impacting wildlife and vegetation. In reviewing this route under the Arkansas River TMP, the ID team determined that re-opening the route to OHVs would result in impacts to riparian habitat, water quality, and wildlife that would require extensive and costly mitigation measures to avoid adversely affecting these resources. The ID team also determined that re-opening this route would result in substantially expanding OHV uses outside of the current Texas Creek TMA that could adversely affect wildlife. For these reasons, the analysis of route S-2 is not included in the Proposed Action (Alternative C) but is included in the High Use Alternative (Alternative A).

1 2 Appendix 7 3 Requests for New Trails –Salida 4 5 5 Background 6 7 7 The Salida subunit contains some of the most heavily utilized lands in the Arkansas River TMP 8 for a variety of year-round recreation uses. An extensive network of roads and trails radiate from

the town of Salida, providing recreational opportunities for all types of motorized, mechanized,
and non-motorized uses. The major challenge in this subunit is to establish management that
will protect the lands and resources while also meeting high demands of the local community for

- 12 a variety of recreation uses.
- 13

In addressing the complex issues in this subunit, the BLM interdisciplinary team (ID team) found themselves confronting a dilemma very similar to that which they faced in the Texas Creek subunit. Unlike Texas Creek, however, the demand is not focused as much on improving and expanding opportunities for motorized uses. Instead, the largest demand in the Salida area is for more hiking and bicycle trails, which is largely an effect of demographic makeup of the town's

18 more hiking and bicycle trails, which is largely an effect of demographic makeup of the town's 19 population. The population of Salida includes a large segment of young and active residents who

20 use the surrounding BLM and National Forest lands year round for hiking, jogging, and

21 mountain biking. In addition to these uses, the roads and trails around Salida also receive

substantial amounts of motorized uses (4WD, ATV, motorcycle) that often result in conflicts
between the different types of users.

23 24

25 Current Situation

26

27 The Salida subunit includes a little over 49 miles of existing roads and trails on BLM lands alone 28 that are located within a few miles from the center of town. Additional trails are also available 29 on nearby city, private, and National Forest lands. To hike or ride some of the trails actually 30 involves starting from downtown and crossing private land and then progressively crossing lands 31 managed by the City of Salida, BLM, and the Forest Service. Many of the trails are not 32 constructed but have simply been developed by use; that is, by users repeatedly hiking or riding 33 along the same path. Also, in many cases the use of trails crossing private lands is occurring 34 without permission from the affected landowners.

35

The proliferation of new trails is one of the biggest problems in this subunit. While inventorying

37 the existing travel routes on BLM lands, a high percentage of the trails were classified as "User

Created". The definition of "User Created Routes" includes trails that are created or constructed
 by recreational users within the past 10 years without authorization from the BLM. Of the 49

40 miles of existing routes that occur near the town, approximately 20 miles, or 41%, were

41 classified as "User Created". The ID team members who recorded the inventory also observed

42 that a few of the more recently developed mountain bike trails were actually constructed and

43 being maintained by users. One of the ID team members encountered a freshly made mountain

bike trail that had been constructed only a day or two before it was inventoried; an example

45 lending credence to the idea that trails are being created faster than they can be mapped. For the

1 most part, however, only a few miles of the existing roads and trails around the town of Salida 2 are constructed to acceptable standards and that are being adequately maintained. In many cases 3 the trails are located on the fall lines of the slopes and are excessively steep, and water bars that 4 are needed to divert runoff and reduce erosion are either lacking or not functioning. 5 6 A significant number of "extreme" mountain bikers ride the trails that surround the town. Several 7 user created trails have been developed that are used almost exclusively used by expert riders. 8 Trails of this nature are especially concerning because they are intentionally located to follow the 9 fall line down steep slopes, which makes them highly susceptible to erosion. Two such trails, 10 aptly named Blood and Guts, extend from the Rainbow Trail and are mostly on National Forest before emerging onto BLM lands. 11 12 13 The BLM ID team also observed several areas, Castle Garden and King Gulch where both 14 motorized and mechanized uses are damaging sensitive plants. Both of these areas are composed of highly eroded clay formations that are mostly devoid of trees. The steep terrain and lack of 15 16 trees provide ideal conditions for those "extreme" users of motorized and mechanized vehicles to practice riding and driving up and down steep hills. Outside of Castle Garden and King Gulch, 17 several additional "play areas" were found on the town's edge that are being utilized primarily 18 19 by users of ATVs, motorcycles, and 4WDs. The intensive amount of motorized play that is 20 occurring in these areas has created a 21 braided network of trails and extensive areas of bare ground. 22 23 Finally, the ID team also observed several areas where trash dumping is a persistent and 24 recurring problem. 25 26 Early in the TMP planning process the BLM interdisciplinary team identified the major issues and concerns that needed to be addressed in the Salida subunit. The goals, or Desired Future 27 28 Conditions (DFCs), that were developed to respond to these issues and concerns included: 29 30 Watershed conditions are improving throughout the subunit; rates of soil erosion are decreasing and water quality and fish habitat in the Arkansas River are improving. 31 32 33 Available areas of wildlife habitat are expanding and improving throughout the subunit, 34 supporting sustainable numbers of deer, elk, bighorn sheep, and black bear. 35 36 Occurrences of Brandegee wild buckwheat and rock-loving neoparrya are stable or 37 increasing. The population of Townsend's big-eared bat is stable or increasing. 38 Previous impacts to unique geologic features from off-trail recreation uses are no longer 39 evident in Castle Gardens and King Gulch. 40 41 42 Impacts from dumping trash, target shooting, off-road vehicle play, unauthorized trail construction, and other illegal uses are no longer evident in areas where these activities 43 had previously occurred. 44 45

- Visitors travel via a well-managed system of designated roads and trails that serve a
 variety of motorized, mechanized, and non-motorized travel uses and that are being
 maintained to limit adverse impacts to vegetation, soils, and water.
 - Designated travel routes between BLM and National Forest lands are cooperatively established to accommodate the same types of uses.

8 In considering future management options for the Salida subunit, the ID team believes that the
9 best hope for achieving all seven of the DFCs lies primarily in the hands of the users themselves.
10 By itself, BLM does not have enough personnel or money to maintain the existing network of
11 roads and trails, fund the construction of new trails, and enforce user compliance. To accomplish

12 all of these things will require strong partnerships with the Salida community user groups.

- **Recommendations and Conditions for Improving Management**
- To provide for high levels of recreational uses while also protecting sensitive resource values,
 the ID team recommends adopting the following conditions for guiding future management and
 development in the Salida area:
 - 1. Long-term partnerships with local user groups should be established for the purpose of maintaining existing trail networks and for constructing new trails.
 - 2. A significant factor in approving new trails depends on the ability to maintain existing trails to agreed standards. With the participation of cooperating partners, develop accepted guidelines for constructing and maintaining new and existing trails.
- 3. The ability to provide regular and timely maintenance of the existing network of roads
 and trails to correct serious erosion problems and safety hazards is also an important
 factor in approving new trails in the area. With the participation of cooperating partners,
 establish a system and procedures for monitoring trail conditions and for prioritizing and
 scheduling necessary maintenance work.
 - 4. Approve construction of new or additional trails only when the following conditions have been met:
 - a. The proposal would further the goals (DFCs) identified on pages 2 and 3.
 - b. The proposal is sponsored under a partnership agreement that includes a plan for securing the necessary funds and/or volunteer commitments to construct and maintain the trail to accepted standards. For trails involving non-BLM lands, the proponent must also acquire the necessary rights-of-ways from the affected landowners.
 - c. The specific location(s) of the proposed trail(s) has been flagged on the ground and mapped using GPS.
 - d. The decision to approve the trail(s) has been authorized under a site specific EA that analyzes the environmental effect of the proposal.

1 **SMTPC** Proposals

2

3 Early in the TMP process large number of interested citizens in Salida formed a group known as

4 the Salida Mountain Trails Park Committee (SMTPC). The stated mission of this group is to

5 create an enhanced, sustainable system of hiking and mountain biking trails in the Salida area

6 that addresses the current and future needs of the community as a recreation destination. To

7 achieve their goal, SMTPC has submitted a comprehensive plan for constructing and maintaining

- 8 trails in the Salida area. The proposal involves improving and maintaining approximately 18
- 9 miles of existing trails and constructing and maintaining an additional 27 miles of new trails.
- 10

11 The following is a summary of the interdisciplinary team's determinations regarding the

12 suitability of each of the proposed routes for inclusion in Alternatives A, B, and C. The trails are

- 13 identified by the names of the trails that were included in SMTPC's proposal and by letters that
- 14 were assigned to the trails and depicted on Map 6.
- 15

16

17 A-County 110 and Power Line Connector: This is existing user created mountain bike trail 18 that is approximately 0.7 mile long. The trail provides a connection between County Road 110 19 and the north end of the road for the WAPA power line. Portions of the trail are eroding due to 20 poor location and lack of adequate water bars for cross-drainage. In reviewing the route under the Arkansas River TMP, the ID team determined that the impacts to soils could be satisfactorily 21 22 mitigated at moderate cost by re-routing and reconstructing sections of the trail to avoid 23 excessively steep and erosive slopes. Analysis of the trail as part of SMTPCs proposed mountain

- 24 bike system is included under Alternatives A, B, and C. 25
- 26 **B-FS Road 173**: This route is actually the lower end of Forest Service Road 173 that extends 27 from County Road 176 and crosses property owned by the City of Salida before entering BLM 28 lands. Because the segment is not located on BLM lands, the route is not subject to decisions 29 resulting from the Arkansas River TMP and is not included in any of the alternatives.
- 30

31 **C-King Gulch**: This is an existing user created mountain bike trail, approximately 0.7 miles in 32 length, which is located in the King Gulch area just below the radio tower site. The trail is located in an area containing highly erosive soils (Dry Union Formation), sensitive plants 33 34 (Brandegee wild buckwheat and rock-loving neoparrya), and paleological features. Due to the 35 need to protect soils, sensitive plants, and paleo features, route C would be closed under all of the alternatives.

- 36
- 37 38

39 **D-Lower Cottonwood to Cleora Connector**: This is an existing user created mountain bike 40 trail located east of downtown Salida. The trail provides a connection between Cottonwood 41 Creek and Cleora. The entire trail is approximately 1.3 miles long but only 0.2 miles is on BLM 42 land. Portions of the trail are eroding due to poor location and lack of adequate water bars for cross-drainage. In reviewing the route under the Arkansas River TMP, the ID team determined 43 44 that the impacts to soils could be satisfactorily mitigated by re-routing and reconstructing

- 45 sections of the trail and installing adequate erosion control cross-ditches (water bars). However,
- because BLM does not have authority to designate trails on non-BLM lands, approval of the 46

1 sections of the trail that are located on BLM would be contingent on SMTPC obtaining a right-

- 2 of-way for the remaining portions of the trail that cross private lands. Analysis of the trail as part 3
- 4

of SMTPCs proposed mountain bike system is included under Alternatives A, B, and C.

5 E-Lower Cottonwood Gulch: This is an existing user created mountain bike trail located east of downtown Salida. The entire trail is approximately 0.7 miles long but only 0.3 miles is 6 7 located on BLM. Portions of the trail are eroding due to poor location and lack of adequate 8 water bars for cross-drainage. In reviewing the route under the Arkansas River TMP, the ID team 9 determined that the impacts to soils could be satisfactorily mitigated by re-routing and 10 reconstructing sections of the trail and installing adequate erosion control cross-ditches (water bars). However, because BLM does not have authority to designate trails on non-BLM lands, 11 12 approval of the sections of the trail that are located on BLM would be contingent on SMTPC 13 obtaining a right-of-way for the remaining portions of the trail from the affected landowner. 14 Analysis of the trail as part of SMTPCs proposed mountain bike system is included under

Alternatives A, B and C. 15

16

17 **F-Middle Cottonwood Gulch**: This is an existing user created mountain bike trail that extends northeast from the Mid Backbone trail up Cottonwood Gulch across BLM lands and into the San 18 19 Isabel National Forest. The portion of the trail on BLM is 1.2 miles long. In reviewing the route 20 under the Arkansas River TMP, the ID team determined that the impacts to soils could be satisfactorily mitigated by re-routing and reconstructing sections of the trail and installing 21 22 adequate erosion control cross-ditches (water bars). Analysis of the trail as part of SMTPCs 23 proposed mountain bike system is included under Alternatives A, B and C.

24

25 **G-North Backbone**: This is an existing user created route that is mostly used for mountain 26 biking but with portions also used by ATVs and motorcycles. The trail extends from the north 27 end of the Mid Backbone trail and connects to County Road 175 (Ute Trail). The entire route is 28 located on BLM and is approximately 2.1 miles long. Portions of the existing route are eroding 29 due to poor location and lack of adequate water bars for cross-drainage. In reviewing the route 30 under the Arkansas River TMP, the ID team determined that the impacts to soils could be satisfactorily mitigated by re-routing and reconstructing sections of the trail and installing 31 32 adequate erosion control cross-ditches (water bars). Analysis of the trail as part of SMTPCs 33 proposed mountain bike system is included under Alternatives A and C, and as a foot trail under 34 Alternative B.

35

36 **H-Mid Backbone**: – The trail extends from the south end of the North Backbone trail and runs 37 south to Sweetwater Gulch. The trail is approximately 2.1 miles long, most of which is on BLM 38 but with two short segments that cross property owned by the City of Salida near S-Mountain. In 39 reviewing the route under the Arkansas River TMP, the ID team determined that the impacts to 40 soils could be satisfactorily mitigated by re-routing and reconstructing sections of the trail and installing adequate erosion control cross-ditches (water bars). However, because BLM does not 41 have authority to designate trails on non-BLM lands, approval of the sections of the trail that are 42 located on BLM would be contingent on SMTPC obtaining a right-of-way for those segments of 43 44 the trail that cross City property. Analysis of the trail as part of SMTPCs proposed mountain 45 bike system is included under Alternatives A, B and C.

1 **I**-South Backbone: This is a proposed new trail that would extend from the south end of the 2 Mid Backbone trail and connect with County Road 177 north of Cleora. The entire trial would 3 be 1.3 miles long. Of this, 1.2 miles would be on BLM and approximately 0.1 miles would cross 4 private land before connecting with CR 177. Because BLM does not have authority to designate 5 trails on non-BLM lands, approval of the sections of the trail that are located on BLM would be 6 contingent on SMTPC obtaining a right-of-way for those segments of the trail that cross the 7 private land. Analysis of the trail as part of SMTPCs proposed mountain bike system is included 8 under Alternatives A, B and C.

9

10 J-North End Guts Trail: This is an existing user created mountain bike trail that extends east from the Rainbow Trail onto BLM and intersects with the access road for the WAPA power line 11 12 and Trail V, Lost Trail. The entire segment is approximately 1.6 miles long. Approximately 0.4 13 miles is on BLM and 1.2 miles is on the San Isabel National Forest. The portion on National 14 Forest is considered an expert mountain bike trail for use by highly skilled riders who use it to for downhill riding and included constructed ramps for jumping. The portion of the trail on 15 16 BLM is on much gentler slopes and is more suited for mountain bike riders of average skill. Also, much of the trail was obliterated by the fuels reduction project that was performed in the 17 area in 2005. Because use of the BLM portion of the trail originates from the Forest Service 18 19 lands above it, the ID team determined that the trail should be left open until the Forest Service 20 completes its own analysis of the upper portion of the trail to determine if should be retained or 21 closed. Analysis of BLM portion of the trail as part of SMTPCs proposed mountain bike system 22 is included under Alternatives A, B and C, but includes the condition that it could be closed in

- 23 the future if the Forest Service decides not to retain it.
- 24

25 **K-Puali**: This is an existing user created mountain bike trail that extends from Forest Service

26 173 and connects with the upper end of Trail O, Uncle Nasty. The trail is approximately 0.3

27 miles long and includes some short segments trail that are eroding due to poor location and lack

of adequate water bars for cross-drainage. Analysis of the trail as part of SMTPCs proposed

mountain bike system is included under Alternatives A and C, and as a foot trail underAlternative B.

31

32 **L-Sand Dunes**: This is an existing user created mountain bike trail that extends from County 33 Road 177 near S-Mountain and connects with Forest Service 173. The entire trail is 1.4 miles 34 long. Of this, 1.2 miles is on BLM and approximately 0.2 miles crosses private lands before 35 connecting to County Road 177. Portions of the trail are eroding due to poor location and lack of adequate water bars for cross-drainage. In reviewing the route under the Arkansas River TMP, 36 37 the ID team determined that the impacts to soils could be satisfactorily mitigated by re-routing 38 and reconstructing sections of the trail and installing adequate erosion control cross-ditches 39 (water bars). However, because BLM does not have authority to designate trails on non-BLM 40 lands, approval of the sections of the trail that are located on BLM would be contingent on SMTPC obtaining a right-of-way for the portion of the trail that crosses private land. Analysis of 41 the trail as part of SMTPCs proposed mountain bike system is included under Alternatives A and 42 C, and as a foot trail under Alternative B. 43

44

45 M-Sand Dunes to Uncle Nasty Connector: This is an existing user created mountain bike trail
 46 that connects Trail M (Sand Dunes) to Trail O (Uncle Nasty). The trail is approximately 0.5

- 1 miles long. Portions of the trail are eroding due to poor location and lack of adequate water bars
- 2 for cross-drainage. The ID team determined that the impacts to soils could be satisfactorily
- 3 mitigated by re-routing and reconstructing sections of the trail and installing adequate erosion
- 4 control cross-ditches (water bars). Analysis of the trail as part of SMTPCs proposed mountain
- 5 bike system is included under Alternatives A and C, and as a foot trail under Alternative B.
- 6
- N-S Mountain: This route is actually located entirely on private and City property. Because the
 segment is not located on BLM lands, the route is not subject to decisions resulting from the
 Arkansas River TMP and is not included in any of the alternatives.
- 10

11 **O-Uncle Nasty**: This is an existing user created mountain bike trail, approximately 0.75 miles 12 long, that connects Forest Service 173 with Trail F, Middle Cottonwood. Most of the trail is 13 very steep and is considered an expert mountain bike trail for use by highly skilled riders who 14 use it to for downhill riding. Portions are eroding due to poor location and lack of adequate water bars for cross-drainage. The ID team determined that the impacts to soils could be 15 16 satisfactorily mitigated by re-routing and reconstructing sections of the trail and installing 17 adequate erosion control cross-ditches (water bars). Analysis of the trail as part of SMTPCs proposed mountain bike system is included under Alternatives A and C, and as a foot trail under 18 Alternative B.

19 A 20

21 **P-West Ridge Castle Garden:** – This is an existing user created mountain bike trail,

approximately 1.7 miles long, that skirts along the west ridge above Castle Garden and provides
 a connection between Highway 50 and the WAPA power line road. The ID team determined

that the impacts to soils could be satisfactorily mitigated by re-routing and reconstructing

25 sections of the trail and installing adequate erosion control cross-ditches (water bars). Analysis

- of the trail as part of SMTPCs proposed mountain bike system is included under Alternatives A,
 B, and C.
- 28

29 **R-Advanced Loop**: This is a proposed new trail that would provide an alternate loop

30 connection with another new proposed trail, Trail T (Little Rainbow). The entire trail is

31 estimated to be 2.0 miles long. This trail, however, has not been flagged on the ground and the

- 32 actual length for constructing it to accepted standards would probably require a much longer
- trail. Because it has not been demonstrated that an acceptable route could be located across the
- 34 general area that the trail would cross, a proper analysis of the environmental impacts that would
- 35 result from its construction cannot be conducted at this time. Consequently, the ID team has
- 36 determined that the analysis of the trail should be addressed under Alternative A and limited to
- 37 identifying the impacts to the resources located along the originally proposed route.
- 38 Furthermore, unless the analysis finds resource issues in the general area that cannot be avoided
- regardless of where it would be located, the proponent may reapply for the trail in the future.
- 40 This will allow additional time for the proponent to find a connecting route between the two
- segments that have already been flagged, and to present a proposal to BLM that can be analyzedin a site-specific EA.
- 43

44 **S-Dead Goat Gulch Loop**: This is a proposed new trail that would provide an extensive

- 45 mountain bike route northwest of County Road 175 (Ute Trail). As submitted by SMTPC, the
- 46 entire trail would be approximately 9.0 miles long. This trail, however, has not been flagged on

1 the ground and the actual length for constructing it to accepted standards would probably require

- 2 a much longer trail. Because it has not been demonstrated that an acceptable route could be
- 3 located across the general area that the trail would cross, a proper analysis of the environmental
- 4 impacts that would result from its construction cannot be conducted at this time. Consequently,
- the ID team has determined that the analysis of the trail should be addressed under Alternative Aand limited to identifying the impacts to the resources located along the originally proposed
- route. Furthermore, unless the analysis finds resource issues in the general area that cannot be
- avoided regardless of where it would be located, the proponent may reapply for the trail in the
- 9 future. This will allow additional time for the proponent to find a connecting route between the

10 two segments that have already been flagged, and to present a proposal to BLM that can be

- 11 analyzed in a site-specific EA.
- 12

13 **T-Little Rainbow:** This is a proposed new trail that would provide a mountain bike route 14 paralleling the WAPA power line road. As submitted by SMTPC, the entire trail would be 15 approximately 7.0 miles long. This trail, however, has not been flagged on the ground and the 16 actual length for constructing it to accepted standards would probably require a much longer 17 trail. The ID team has determined that the analysis of the trail should be addressed under

- 18 Alternative A and C.
- 19

20 U-Sweetwater Gulch Loop: This is a proposed new trail that would provide an extensive mountain bike route east of Salida between Sweetwater Gulch and Cottonwood Gulch. As 21 22 submitted by SMTPC, the entire trail would be approximately 8.8 miles long. This trail, 23 however, has not been flagged on the ground and the actual length for constructing it to accepted 24 standards would probably require a much longer trail. Because it has not been demonstrated that 25 an acceptable route could be located across the general area that the trail would cross, a proper 26 analysis of the environmental impacts that would result from its construction cannot be 27 conducted at this time. Consequently, the ID team has determined that the analysis of the trail 28 should be addressed under Alternative A and limited to identifying the impacts to the resources 29 located along the originally proposed route. Furthermore, unless the analysis finds resource 30 issues in the general area that cannot be avoided regardless of where it would be located, the proponent may reapply for the trail in the future. This will allow additional time for the 31 32 proponent to find a connecting route between the two segments that have already been flagged, 33 and to present a proposal to BLM that can be analyzed in a site-specific EA.

34

V-Lost Trail: – This is an existing user created mountain bike trail, approximately 1.5 miles long, that provides a connection between Highway 50 and the WAPA power line road. The ID team determined that the impacts to soils could be satisfactorily mitigated by re-routing and reconstructing sections of the trail and installing adequate erosion control cross-ditches (water bars). Analysis of the trail as part of SMTPCs proposed mountain bike system is included under Alternatives A, B, and C.

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Appendix 8 Route Densities within sub-drainages of 6th Level Watersheds

	Current Conditions			Alternative A			Alternative B			Alternative C		
Subwatershed	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean
Nathrop C	0.0	8.4	1.8	0.0	8.4	1.8	0.0	8.4	1.8	0.0	8.4	1.8
Browns Ck	0.0	4.0	1.5	0.0	4.0	1.5	0.0	2.3	1.0	0.0	4.0	1.5
Browns Canyon C	0.0	6.2	2.1	0.0	6.2	2.1	0.0	6.2	1.9	0.0	6.2	2.1
Salida C	1.1	8.4	3.0	1.4	8.4	3.0	0.1	8.4	2.5	1.1	8.4	2.9
East Salida Cks	0.3	9.7	3.1	0.5	9.5	2.9	0.4	8.8	2.0	0.4	9.3	2.6
Missouri Park C	1.1	3.9	2.6	1.1	3.9	2.6	0.3	2.8	1.9	1.1	3.9	2.6
Poncha Ck	1.4	5.3	2.6	1.4	5.3	2.6	0.2	5.3	2.4	1.4	5.3	2.6
Poncha Springs C	1.2	8.6	3.9	2.0	9.8	5.0	0.3	8.6	3.5	1.8	9.8	4.9
Howard C	0.3	9.1	2.6	0.3	9.1	2.5	0.2	9.1	2.4	0.3	9.1	2.4
Bear Ck	0.7	3.4	1.8	0.7	3.4	1.7	0.7	3.4	1.8	0.7	3.4	1.7
Coaldale C	0.0	8.5	2.5	0.0	7.4	2.1	0.0	8.5	2.2	0.0	7.4	1.9
Hayden Ck	0.0	2.5	1.1	0.0	2.5	1.1	0.0	1.6	0.9	0.0	2.4	1.1
Big Cottonwood Ck	0.0	6.0	1.8	0.0	6.0	1.7	0.0	6.0	1.8	0.0	6.0	1.7
Lower Badger C	0.0	1.8	0.6	0.0	1.8	0.6	0.0	1.5	0.6	0.0	1.8	0.6
Mouth Of Badger C	0.1	4.2	1.6	0.1	2.1	0.9	0.1	4.2	1.6	0.1	2.1	0.9
Falls Gulch C	0.0	4.0	2.1	0.0	3.2	1.8	0.0	4.0	1.7	0.0	3.2	1.8
Oak Ck	0.7	5.0	2.2	0.6	5.0	2.1	0.3	5.0	1.9	0.6	5.0	2.1
Fernleaf Gulch	0.1	3.9	1.7	0.1	3.9	1.6	0.1	3.9	1.7	0.1	3.9	1.5
Sand Gulch	1.4	5.0	2.7	1.4	3.8	2.3	0.2	5.0	2.4	0.8	3.8	2.0
Echo C	0.0	7.3	2.1	0.0	5.5	1.8	0.0	7.3	1.8	0.0	5.5	1.7
East Gulch	0.3	3.8	2.2	0.2	3.1	1.7	0.0	3.8	1.8	0.2	3.1	1.6
Copper Gulch	0.0	4.5	1.8	0.0	4.5	1.7	0.0	3.6	1.5	0.0	4.5	1.7
Royal Gorge C	0.0	5.8	1.8	0.0	5.1	1.8	0.0	5.8	1.8	0.0	5.1	1.8
Texas Ck Hdwaters	0.0	5.8	2.2	0.0	6.0	2.4	0.0	6.0	2.4	0.0	6.0	2.4
Brush Ck	0.4	5.4	2.6	1.0	4.1	1.8	1.0	4.1	1.8	1.0	4.1	1.8
Spruce Ck C	0.8	3.6	2.1	0.8	3.6	2.1	0.2	3.6	1.9	0.8	3.6	2.1
Lake Ck	1.4	3.0	2.1	0.0	3.0	1.7	0.0	3.0	1.7	0.0	3.0	1.7
Texas Ck C	0.0	6.0	2.0	0.0	6.0	1.9	0.0	6.0	1.7	0.0	6.0	1.9
Lowest Currant C	0.0	2.7	0.7	0.0	2.7	0.7	0.0	2.7	0.6	0.0	2.7	0.7
Lower Cottonwood C	0.0	2.0	1.3	0.0	1.9	1.2	0.0	2.0	1.0	0.0	1.9	1.2
Tallahassee Ck	0.0	4.1	1.6	0.0	3.9	1.5	0.0	4.1	1.5	0.0	3.7	1.5
Alverado Ck	0.0	5.9	2.3	0.0	4.8	1.7	0.0	4.8	1.7	0.0	4.8	1.7
Taylor Ck	0.1	7.1	2.9	0.9	2.7	1.7	0.3	2.6	1.4	0.9	2.7	1.7
Swift Ck	0.3	6.1	2.6	0.9	2.5	1.6	0.9	2.5	1.6	0.9	2.5	1.6
Westcliffe C	0.1	4.0	1.6	1.1	9.3	3.2	0.7	9.3	2.9	1.1	9.3	3.2
Deweese Res. C	1.1	3.5	2.2	1.4	3.5	2.4	1.4	3.5	2.5	1.4	3.5	2.4
Middle Grape Ck C	0.0	5.0	1.8	0.0	5.0	1.5	0.0	5.0	1.2	0.0	5.0	1.5
Querida Gulch C	0.0	5.2	2.0	0.0	4.0	1.9	0.0	4.0	1.9	0.0	4.0	1.9
Pine Gulch	0.1	3.3	1.6	0.0	3.3	1.5	0.1	3.3	1.5	0.0	3.3	1.5
Lowest Grape C	0.0	2.8	1.3	0.0	3.4	1.2	0.0	3.4	1.1	0.0	3.4	1.2
Upper Oak Ck	0.3	6.8	2.3	0.1	4.4	1.8	0.1	4.4	1.6	0.1	4.4	1.8
Oak Ck C	1.6	4.7	2.3	1.6	4.7	2.3	0.1	4.7	1.6	1.6	4.7	2.3
Sand Ck	1.0	3.6	2.3	1.0	3.6	2.2	1.0	3.6	2.3	1.0	3.6	2.2
Canon City C	1.0	8.9	4.5	1.0	8.9	4.5	0.3	7.7	2.5	1.0	8.9	4.5

1APPENDIX 92POLICY AND LEGISLATION RELATING TO3AQUATIC HABITAT MANAGEMENT

4 There are at least 30 Legislative Acts, six Executive Orders and several Bureau manual sections 5 that provide direction to BLM for the management of aquatic resources on public lands. The 6 major impetus for hiring fisheries biologists within BLM was the National Environmental Policy 7 Act of 1969, which required the agency to do environmental of land management plans and other 8 actions. With the passage of the Federal Land Policy and Management Act of 1976 (FLPMA), 9 BLM received for the first time permanent authority to retain and manage resources on public lands, including fisheries, for multiple uses. FLPMA provided a broad legal framework for 10 management of the public lands and remains the basic guidance for management of fish and 11 12 wildlife habitat on public lands. Specifically, FLPMA:

- Requires the development and maintenance of land use plans based on an inventory of all public lands and their resources.
- Places fish and wildlife management on an equal footing with other traditional land uses.
- Requires that part of grazing fees be spent for "range betterment," including aquatic and terrestrial wildlife habitat enhancement protection, and maintenance where livestock use occurs.
- Requires consideration of fish and wildlife resources before approval of land exchanges.
- Authorizes the designation of Areas of Critical Environmental Concern to protect and
 prevent irreparable damage to fish and wildlife, and other resources.
- Neither enlarges nor diminishes the responsibilities and authorities of the state for
 management of fish and resident wildlife.
- Authorizes investigations, studies, and experiments involving the improvement 25 management, use, and protection of the public lands and their resources.
- Two other Acts have played major roles in BLM's fisheries program. The first is the Sikes Act of
 1974, which was a congressional mandate for BLM to "plan, develop, maintain. and coordinate
 programs for the conservation and rehabilitation of wildlife, fish, and game." The Sikes Act is
- 29 currently being implemented through the development of habitat management plans in
- 30 cooperation with the states.
- 31 The second is the Endangered Species Act of 1973, which provides for the protection of listed
- 32 and potentially listed species and theft habitats. Many of the listed fish species in the West are on 33 lands managed by BLM.

- 35 Legislative Acts related to aquatic resources have been supplemented by a number of Executive
- 36 Orders, the most pertinent of which are:

- 1 EO 11514, Protection and Enhancement Environmental Quality, which states that federal
- 2 agencies shall "monitor, evaluate, and control on a continuing basis their agencies' activities so
- 3 as to protect and enhance the quality of the environment."
- 4 EO11988, Floodplain Management, which directs federal agencies to "take action to reduce the
- 5 risk of flood loss, to minimize the impact of floods on human safety, health, and welfare, and to
- 6 restore and preserve the natural beneficial values served by floodplains...."
- 7 EO 11990, Protection of Wetlands, directs each agency to "provide leadership and take actions to
- 8 minimize the destruction, loss or degradation of wetlands, and to preserve and enhance the
- 9 natural and beneficial values of wetlands...."
- 10 The BLM uses its manual series to provide detailed policy and guidance for implementation of
- 11 legal guidelines and policy documents. The 6500 to 6900 series cover's the wildlife and fisheries
- 12 portion of the manual. Pertinent guidelines for the fisheries habitat program based upon the
- 13 various Legislative Acts. Policy Directives and manuals are summarized below:
- Resources are to be managed on a multiple-use and sustained-yield basis, using adequate
 inventory information to develop interdisciplinary and site-specific habitat plans.
- An inventory is to be made of all resources, considering present and fine uses. The inventory is to be kept current to reflect changing conditions.
- Alternative inventories, planning, and management are to be coordinated with other federal
 and state agencies and local governments and Indian tribes.
- The quality of the environment is to be protected and, where appropriate, to be preserved and
 protected in its natural condition. Priority is to be given to protecting critical habitat for
 Threatened and Endangered species and Areas of Critical Environmental Concern.
- Species listed as Threatened or Endangered, or designated as Candidate species, are to
 receive special protection. Any actions that may detrimentally impact these species will be
 reviewed by the U.S. Fish and Wildlife Service under a formal consultation process.
- Fish habitat and resources are to be protected from irreparable damage.
- Comply with appropriate state and federal pollution standards, and aid in the implementation
 of pollution-related plans
- Habitat management plans for site-specifications are to be prepared in partnership with state agencies. States have primary responsibility for management of species unless Congress directs otherwise. BLM is to coordinate multiple use with appropriate state fish and wildlife agencies and other concerned organizations.
- Activities are to be monitored, evaluated and controlled on a continuing basis in order to
 protect and enhance the quality of the environment.
- 35
- 36 In summary, Legislative Acts, Executive Orders, and Departmental and Bureau policies require
- that the BLM manage fisheries resources: 1) in close cooperation with other organizations, 2)
- 38 under principles of multiple use, long-term sustained yield, and sound management practices,
- 39 and 3) recognizing populations and habitats requiring special attention.

1	Appendix 10
2 3 4	Definitions of Colorado Natural Heritage Conservation Ranks
4 5 6 7 8 9 10 11 12 13 14 15 16 17	 State conservation ranks are based on the status of a species in an individual state. State and Global ranks are denoted, respectively, with an "S" or a "G" followed by a character. These ranks should not be interpreted as legal designations. Global conservation ranks are based on the range-wide status of a species. G/S1 Critically imperiled globally/state because of rarity (5 or fewer occurrences in the world/state; or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extinction. G/S2 Imperiled globally/state because of rarity (6 to 20 occurrences), or because of other factors demonstrably making it very vulnerable to extinction throughout its range. G/S3 Vulnerable through its range or found locally in a restricted range (21 to 100 occurrences). G/S4 Apparently secure globally/state, though it might be quite rare in parts of its range, especially at the periphery.
17 18 19 20	 G/S5 Demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery. GX Presumed extinct.
20 21 22 23 24 25 26 27 28	 GX Presumed extinct. G#? Indicates uncertainty about an assigned global rank. G/SU Unable to assign rank due to lack of available information. GQ Indicates uncertainty about taxonomic status. G/SH Historically known, but not verified for an extended period, usually. G#T# Trinomial rank (T) is used for subspecies or varieties. These species or subspecies are ranked on the same criteria as G1-G5. S#B Refers to the breeding season imperilment of elements that are not permanent residents.
28 29 30 31 32 33 34 35 36 37 38	 S#N Refers to the non-breeding season imperilment of elements that are not permanent residents. Where no consistent location can be discerned for migrants or non-breeding populations, a rank of SZN is used SZ Migrant whose occurrences are too irregular, transitory, and/or dispersed to be reliably identified, mapped, and protected. SA Accidental in the state. SR Reported to occur in the state, but unverified. S? Unranked. Some evidence that species may be imperiled, but awaiting formal rarity ranking.

1 **APPENDIX 11** 2 3 **RECREATION MANAGEMENT GUIDELINES** 4 TO MEET PUBLIC LAND HEALTH STANDARDS 5 **ON BUREAU OF LAND MANAGEMENT LANDS** 6 **IN COLORADO** 7 **December 11, 2000** 8 9 **INTRODUCTION** 10 Colorado's population has grown significantly in the past ten years - the state's growth rate is among the highest in the nation. As the state becomes more crowded, an increasing number of 11 people seek out undeveloped land to recreate. In addition, Colorado remains a popular 12 13 destination for tourists, especially those seeking experiences in a backcountry or wildland setting. As a result, public lands administered by the Bureau of Land Management (BLM) are

- 14
- absorbing increasing recreational use. In many areas, the increased use has resulted in user 15 16 conflicts and damage to vegetation, soils, wildlife habitat, and other natural resources.
- 17 In February 1997, Standards for Public Land Health in Colorado (Standards) were approved by
- 18 the Secretary of Interior and adopted as decisions in all of BLM's land use plans, commonly
- 19 referred to as Resource Management Plans (RMP). The Standards describe natural resource 20
- conditions that are needed to sustain public land health. The Standards encompass upland soils; 21 riparian systems; plant and animal communities; special, threatened, and endangered species;
- 22 and water quality. The Standards relate to all uses of the public lands. The full text of the
- Standards is found in Attachment 1. 23
- 24 Based on the increased awareness and understanding of the social and environmental impacts of
- 25 outdoor recreation, the following establishes recreation management guidelines to help achieve
- 26 and maintain healthy public lands as defined by the Standards. The guidelines are tools, methods,
- 27 and techniques that can be used by managers to maintain or meet the standards.
- 28 It is the intent of these guidelines to encourage and permit a variety of recreational opportunities
- 29 and enjoyable experiences that are managed to avoid conflicts and serve diverse recreational
- 30 interests, while at the same time minimizing and preventing adverse impacts to land health,
- 31 ecosystems, and cultural or natural resources, including historic and archaeological sites, soils,
- 32 water. air, vegetation, scenery, wildlife habitats. riparian areas, endangered or threatened species,
- 33 and wilderness areas. Recreational uses are a highly regarded social value of our society which
- 34 impacts our public lands, and accordingly BLM in Colorado will plan, manage, and pursue
- 35 funding sources so that various services, areas, and activities are environmentally sustainable for
- present and future populations. 36

RECREATION MANAGEMENT GUIDELINES 37

38 A. Standards I & 2: Upland Soils and Riparian Systems

- 39 1. Manage recreational activities to maintain sufficient vegetation on upland areas to protect 40 the soil from wind and water erosion and to buffer temperature extremes.
- 41 2. Minimize disturbances and manage recreation use in riparian areas to protect vegetation, fragile soils, springs, and wetlands. 42

5. Manage watercraft types and uses as appropriate to protect riparian systems and water quality from adverse impacts. **B. Standard 3: Healthy Plant and Animal Communities** 1. Manage recreational use on public lands to promote the survival and health of native plants and animals. 2. Protect against the establishment or spread of noxious weeds. 3. Protect wildlife habitat by preserving connectivity and avoiding fragmentation. 4. Minimize wildlife disturbances and artificial attractions such as feeding wild animals or improper disposal of garbage. 5. Protect plant and animal communities by limiting recreational use by type, season, intensity, distribution, or duration. C. Standard 4: Special Status and Threatened and Endangered Species 1. Protect habitat for federal and state Threatened and Endangered Species and other special status species. **D. Standard 5: Water Quality** 1. Manage recreational uses in coordination with other uses on public lands to achieve or exceed applicable water quality standards. 2. Control water quality impacts resulting from recreational use, such as human waste, trash, and other elements. E. Public Values and Education 1. Use information and interpretative services as major tools to protect public land health and significant natural, cultural, and recreational resources. As appropriate, improve public knowledge by locating kiosks, interpretive signs, and visitor information facilities at visitor contact points. Provide guidebooks and pamphlets for users. 2. Increase efforts to educate public lands visitors about an ethic of responsible use, through programs such as Tread Lightly, Leave No Trace, Project Archeology, the International Mountain Bike Association's "Rules of the Trail," and the Public Lands Watch program. 3. Communicate to the members of the public their individual rights and responsibilities in the use and preservation of public lands, including the recognition of the rights and responsibilities of others because public lands are our legacy for the future. 4. Initiate and maintain collaborative partnerships among government agencies, local governments, business communities, volunteers, user groups, stakeholders, educational institutions, individuals, and the private sector to achieve recreation management objectives and implement these guidelines. 245

3. Plan and locate routes, trails, and developments away from riparian and wetland areas,

4. Reduce stream crossings to the minimal number dictated by the topography. Reduce

sedimentation and compaction associated with stream crossings.

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and highly erosive soils.

1 2 3 4		Encourage the development of a concise educational program to be implemented at the initial point of contact with the public, to promote public land values, knowledge of rights and responsibilities, environmental awareness, communication between the BLM and the public, and changing management practices and policies.
5 6		In order to mitigate adverse impacts to the public lands, work with the private sector to integrate a responsible recreational use message with the goods or services they provide.
7	F. Rec	reation Management
8 9 10 11	1.	Protect natural resources with a priority on management methods that effectively maintain healthy public lands. Utilize the least restrictive but appropriate limitations on public lands activities and users. Recognize that in some cases various levels of regulations and limits on users are necessary.
12 13	2.	In the development of recreation plans, use the best current and sound recreation science practices to enhance public land health.
14 15	3.	Develop and maintain updated inventory and monitoring information concerning both the resource and the recreational uses.
16	4.	Use on-the-ground presence as a tool to protect public lands.
17 18 19 20 21 22	5.	In order to prevent adverse impacts to the public land health, establish appropriate levels and types of recreational use. Utilize public participation in the development of these levels and types. Where long-term adverse impacts are created or anticipated by recreational uses, limit or control activities through specialized management tools including, but not limited to, designated campsites, permits, area closures, and limitations on stays and number of users.
23 24 25	6.	Locate permanent facilities away from riparian areas, cultural sites, or other locations subject to adverse impacts, and relocate existing facilities away from areas that have been adversely impacted.
26 27 28 29		a. If it is determined that a facility must be located in these areas, it must be properly mitigated. For example, if it is determined that a path must cross a wetland area, appropriate mitigation such as a wooden boardwalk may be constructed to avoid water quality problems and other wetland disturbance.
30 31 32 33	7.	Manage recreational uses to protect cultural, historical, and archeological resource sites, and areas where there are unique wilderness or environmental values. Where appropriate, set aside some areas for certain scientific, environmental, and archaeological activities, and limit or prohibit other recreational uses in these areas.
34 35	8.	Allow and manage dispersed recreation activities so that the nature and the frequency of such activities does not create adverse impacts to public land health.
36 37 38 39	9.	Set aside areas, limited in number and size, for certain high impact recreational uses, such as off- road vehicles, motorcycles, and target practice to be relatively unrestricted. Establishment of such areas must be consistent with the Standards and other RMP decisions.
40 41	10	. Manage activities associated with hunting and fishing to protect the resource from adverse impacts to public land health.

1 2	1		a land area is utilized by many users; implement feasible management methods to tain the essential enjoyment elements of the various user groups.				
3 4 5 6	1	corric other	urage public land recreational activities near population centers and highway dors by placement of appropriate visitor use infrastructure. Provide restrooms and facilities adequate for anticipated uses at designated campgrounds, trail heads, and areas where there is a concentration of recreational users.				
7 8 9	1	13. Build collaborative partnerships with local communities and the private sector to provide recreational support services on private land near public land access points where possible.					
10	G. Ro	utes, Ti	rails, and Travel management				
11	1.	Work	expeditiously toward the goal of a statewide inventory of routes and trails.				
12 13 14 15 16 17	2.	partici area (i manag design	a high priority on developing local travel management plans with public pation. Travel management plans should consider all forms of travel in the affected .e., motorized mechanized, and non-motorized). The plans should address travel gement prescriptions (such as open, closed, and limited off-road vehicle ations), and identify appropriate actions to meet or maintain public land health rds and meet the needs of the visitor.				
18 19 20 21 22 23	3.	promp that ha author off-roa	ocal travel management plans are prepared and implemented, BLM vi11 take t action using existing authorities to prevent the proliferation of roads and trails we caused or will lead to conditions whereby the Standards are not met. Existing ities include, but are not limited to, restrictions under the specific rules section for ad vehicle use amending land use plan decisions pertaining to off-road vehicles and e and restriction orders for other uses				
24 25	4.		developing travel management plans and/or implementing travel management ons, managers should consider the following:				
26 27 28 29 30		a.	Where adverse impacts, user conflicts, damage to ecosystems, injury to the environment, or other conditions arc anticipated or are occurring that would impair the health of the public lands and diminish recreational opportunities, restrict recreational travel to designated routes or take other appropriate action such as seasonal closures.				
31 32		b.	Cross-country travel (i.e., off of roads and trails) should only be permitted in areas that meet the designation criteria for "open" areas and the Standards.				
33 34		c.	Where conflicts among recreational users can be minimized, combine multiple uses on one route instead of establishing parallel or alternative routes.				
35 36 37 38		d.	Where and when appropriate, plan, develop, and designate in cooperation with user groups new routes and trails, as well as selected areas for open travel, that enhance and expand recreational opportunities and encourage responsible use with little or no adverse impacts.				
39 40 41		e.	Relocate, abandon, or close routes and trails seasonally or temporarily that adversely impact riparian and wetland areas, wildlife, highly erosive soils, cultural sites, and sensitive ecological systems, and abandon routes that are				

- duplicated or unneeded. Where routes, trails, or other facilities have been abandoned, provide for restoration and revegetation of the site.
 Where adverse impacts or safety considerations warrant, limit or prohibit public according to the site.
- 5. Where adverse impacts or safety considerations warrant, limit or prohibit public access
 when authorizing specific routes to oil and gas locations, mines, timber sales, or other
 areas or sites under permit or lease.
- 6. Provide clear maps, signs, guidelines, descriptions, and other information for users of
 7 routes, trails, and other facilities or areas, including mileages and estimated hours of
 8 travel by type, limitations caused by travel surfaces and conditions, and availability of
 9 loop trails. Provide clear information to the public when closures, seasonal use, and other
 10 regulations or limits are placed on public lands.

11 RECREATION MANAGEMENT IMPLEMENTATION ISSUES

In addition to the implementation objectives included in the Standards, the following critical
 issues should be considered for successful implementation of the Recreation Guidelines:

- 14 1. The guidelines contained in this document are designed to provide direction, yet allow 15 flexibility for local implementation of RMP decisions. Typically, decisions made in RMPs provide resource goals and objectives, allocate resources, identify land areas for 16 17 limited, restrictive or exclusive use, and provide guidance for implementation. During the implementation process, additional planning may be needed to better define goals, make 18 19 objectives more specific, and identify or add specific detail to implementing actions. 20 Frequently, multiple guidelines may be used to maintain or achieve the land health 21 standards. All implementing actions will be completed in consultation, cooperation, and 22 coordination with local communities and the interested public.
- 2. Declining federal budgets challenge the ability of the BLM to provide services adequate
 to meet growing recreational demands, create difficult management concerns, and place
 the health of public lands at risk. Addressing current and future needs will require
 increased agency budgets as well as collaboration, partnerships, and shared responsibility
 among public land agencies and the various constituencies using public lands.
- 28 3. Increasing recreational uses of public lands create increased needs for funding, 29 manpower, and other resources to simultaneously protect the environmental and 30 ecological values of public lands consistent with multiple use and sustained yield 31 principles. Management practices specifically tailored to recreational impacts are necessary to improve and expand recreational facilities and protect effective planning, 32 33 maintenance, enforcement, monitoring, and programming of public recreational 34 opportunities. Possible supplementary funding resources to meet these goals should be considered, including non-federal resources such as state, county, and local governments, 35 36 non-profit entities, and private interests.
- 4. Important to implementing multiple use recreation management and environmental management objectives are: an achievable scientific approach to the inventory and analysis of biological and ecological data; gathering of accurate data on recreational needs, benefits, demands, carrying capacities, and trends; and developing consensus on difficult issues relating to economically sustainable programs, use controls, other limitations and resolution of user conflicts.

- The involvement by the BLM of the public, other governmental entities, and various
 recreational constituencies is necessary throughout the planning, use, and evaluation
 cycle to establish appropriate management priorities. This involvement should encourage
 a high degree of public interaction, foster collaboration, educate and inform the public
 regarding important land use issues, and contribute to the successful implementation of
 the Standards fur Public Land Health and Recreation Management Guidelines.
- 6. Not all RMP decisions require subsequent planning such as activity plans or
 transportation management plans. If the actions needed to implement RMP decisions are
 well defined, then only appropriate environmental assessment documentation may be
 needed. If, however, the decisions
- and information in RMPs do not contain enough detail, additional planning may be
 needed to better define goals, make objectives more specific, and identify or add specific
 detail to implementing actions.
- 7. During the implementation process, it may he determined that existing RMP decisions are no longer valid or do not adequately meet the needs of the resource or the public.
 Therefore, it may be necessary to initiate a plan amendment to address the affected decisions in the RMP.
- 18
 8. It is not possible for each acre to achieve every standard. It is important to assess and consider the overall health of a landscape when applying the recreation guidelines. For example, when determining how to manage vehicle parking in a landscape, it may be determined to concentrate vehicles in a small confined area, rather that having uncontrolled parking throughout the landscape In this example, this approach would result in improved resource conditions overall although the site specific impacts at the small parking area would be high (e.g., vegetation disturbance).

25 The guidelines contained in this document are designed as "tools' to assist managers implement

recreation management decisions and actions. At this stage, the environmental effects of
 implementing the guidelines are too broad, speculative, or conjectural to lend themselves to

27 Implementing the guidelines are too broad, speculative, or conjectural to lend themselves to 28 meaningful environmental analysis under the National Environmental Policy Act (NEPA).

28 meaningful environmental analysis under the National Environmental Poncy Act (NEPA).
 29 Furthermore, most implementing actions will be subject to further NEPA analysis. Therefore,

30 adoption of the guidelines are categorically excluded from NEPA analysis 6

31 GLOSSARY:

32 Activity plan: A detailed, site specific plan for management of one or more resource programs.

33 An activity plan provides additional specificity needed to implement RMP decisions. Activity

34 plans arc completed only if necessary. When multiple programs are addressed, activity plans

35 may be called Integrated Activity Plans or Coordinated RMPs.

36 **Guidelines, Recreation**: Recreation management tools, methods, and techniques designed to

37 provide activities, experiences, and benefits for the recreating public while maintaining or

38 achieving healthy public lands as defined by the standards. The recreation guidelines contained

in this document are directed toward maintaining or achieving public land health.

40 Landscape: A defined land area that forms a management unit or basis of analysis.

41 Mechanized Vehicle: Any non-motorized vehicle capable of or designed for, travel on or

42 immediately over land. An example of a mechanized vehicle is a mountain bike.

1 **Motorized Vehicle**: Synonymous with off-road vehicle. Examples of this type of vehicle include 2 all-terrain vehicles (ATV), Sport Utility Vehicles (SUV), motorboats, and snowmobiles.

- 3 Non-Motorized Use: Recreational human and animal foot traffic. Examples include horses,
- 4 llamas and other domestic animals.
- 5 **Off-Highwav Vehicle**: This ten is synonymous with the term off-road vehicle (or ORV).
- 6 Whereas off-road vehicle is used in the regulations and includes any motorized vehicle, the term 7 off-highway vehicle (or OHV) is a more contemporary term.
- 8 Off-Road Vehicle: Any motorized vehicle capable of or designed for, travel on or immediately
- 9 over land, water, or other natural terrain, <u>excluding</u>: (1) any non-amphibious registered
- 10 motorboat; (2) any military, fire, emergency, or law enforcement vehicle while being used for
- 11 emergency purposes; (3) any vehicle whose use is expressly authorized by the authorized officer,
- 12 or otherwise officially approved; (4) vehicles in official use; and (5) any combat or combat
- 13 support vehicle when used in times of national defense emergencies.

14 **Off-Road Vehicle Designations**:

- Open area means an area where all types of vehicle use is permitted at all times,
 anywhere in the area subject to the operating regulations and vehicle standards set
 forth in subpart 8341 and 8342 of this title.
- Limited area means an area restricted at certain times, in certain areas, and/or to certain vehicular use. These restrictions my be of any type, but can generally be accommodated within the following type of categories: Numbers of vehicles; types of vehicles; time of season of vehicles use; permitted or licensed use only; use on existing roads and trails; use on designated roads and trails; and other restrictions.
- Closed area means an area where off-road vehicle use is prohibited. Use of off-road vehicles in closed areas may be allowed for certain reasons; however, such use shall be made only with the approval of the authorized officer.
- 27 **Protect**: To take actions to guard against injury or loss.
- Standards for Public Land Health: A description of conditions needed to sustain public land
 health; the standards relate to all uses of the public lands in Colorado.
- Recreation Support Services: Resource, facility, and visitor management actions taken to
 provide activities, experiences, and benefits for the recreating public.
- Resource Management Plan (RMP): A BLM multiple use planning document,
 prepared in accordance with Section 202 of the Federal Land Policy and Management
 Act, that
- 35 a. establishes resource conditions goals and objectives to be attained;
- 36 b. allocates resources and identifies allowable uses;
- c. identifies land areas for limited, restrictive, or exclusive uses; and
- 38 d. provides guidance for implementation of the decisions made in the plan.

- 1 **Transportation Management Plans**: An activity plan that focuses on all aspects of
- 2 transportation in a land area. Transportation planning can also be accomplished within Integrated
- 3 Activity Plans, or Coordinated RMPs where multiple resource programs are planned for
- 4 concurrently.
- 5 **Visitor Use Infrastructure**: Amenities such as roads, parking areas, and facilities, to protect the
- 6 resource and support the recreation user in his/her pursuit of activities, experiences, and benefits.

Appendix 12

COST ANALYSIS OF IMPLEMENTING TMP ALTERNATIVES

All of the alternatives would require the expenditure of both BLM funds and funds from outside
sources to implement actions commensurate with the needs of the alternative. The actions and
associated costs that are considered in this analysis include: road maintenance, reconstruction
and construction costs; trail maintenance, reconstruction and construction costs; route closure
and reclamation costs; travel management signing costs.

11

1 2 3

4 5

12 Road Maintenance Costs:

13

Currently, BLM performs regularly scheduled maintenance on approximately 50 miles of the
most heavily used roads in the Arkansas River TMP area. All of these roads are included in
Travel Use Catagory O (General) and in Travel Way Classes 3b, 3c, 4 and 5. Normal
maintenance consists of blading the road surface with a motor patrol, reconstructing water bars,

18 and cleaning drainage turnouts. Some of these roads are maintained annually (14 miles), while

19 the remaining 36 miles are maintained every two or three years. Additional emergency work

20 using bull dozer or other types of heavy equipment is occasionally needed to repair roads that

- 21 have been damaged by heavy rains.
- 22

23 In addition to scheduled maintenance that is performed under contracts administered by BLM's

24 Engineering Field Office, maintenance and improvements of roads are sometimes funded by

25 other means, including deferred maintenance and capital investment programs and by acquiring

26 funding through grants that are available under the State OHV Program. Maintenance of some

27 roads is also done in conjunction with performing individual project activities such as fuels

treatment projects, wood products sales, and fire suppression operations.

29

30 A substantial amount of road maintenance is also performed by holders of right-of-ways and 31 permits issued by BLM. Approximately 60 miles of roads currently exist in the TMP area that 32 are under BLM right-of-ways and that are in addition to 112 miles of right-of-ways for county, 33 state, and federal highways. Roads that are used to access power and communication facilities, 34 mines, quarries, private residences and other authorized right-of-ways, or that provide access to 35 permitted activities such as for managing livestock grazing and timber harvesting operations are 36 periodically maintained by the right-of-way and permit holders. Since right-of-ways issued by 37 BLM do not usually confer exclusive use of roads to the holders, many of these roads are also 38 used by the public. Only a few right-of-ways are closed to public use where safety or protecting

39 valuable equipment is required. On the other hand, not all administrative access roads that are

40 used by grazing permittees and other permit holders are open to the public for use with motor

41 vehicles. Consequently, some of these roads are only available to authorized persons for

42 administrative access. Generally, the roads that are only used for administrative access do not

43 require frequent maintenance, since many of them are only driven a few times a year.

44

45 Except for the 50 miles of roads in the General Category, which are routinely maintained under

46 BLM's scheduled maintenance program, it is difficult to develop accurate estimates of the total

- 1 miles of roads that are periodically maintained by other parties or that are accomplished by other
- 2 means. Records pertaining to maintenance performed by holders of right-of-ways and permits or
- 3 that is accomplished in conjunction with other project work are not kept in a central file location
- 4 and are not easily available. Also, holders of right-of-ways are not required to get permission
- 5 from or to inform BLM when maintenance is performed. Consequently, a lot of maintenance is
- 6 accomplished without BLM knowledge. Some educated guess estimates of current maintenance, 7 however, are provided in the following table (Table 1)
- 7 however, are provided in the following table (Table 1).
- 8
- 9 Table 1 Estimated Miles of Current Road Maintenance Performed in the Arkansas River 10 TMP Area by Travel Use Category, Means of Accomplishment, and Frequency

Twit Area by Traver Use Category, Means of Accomprisinnent, and Frequency						
Travel Use Category and Means of	Miles and Frequency of Maintenance					
Accomplishment			•			
	1-3 yrs.	4-6 yrs.	7-10 yrs.	Total		
O (General) – BLM: Scheduled,						
Emergencies and as needed, Other Project	50	20	73	143		
Activities						
O (General) – Right-of-Way Holders	12	36	12	60		
Subtotal	62	56	85	203		
AA (Administrative Access) – Permit						
Holders and BLM Project Activities	25	60	41	126		
Total	87	116	126	329		

11

12

13 The estimates in Table 1 show that 126 miles of roads are being maintained at intervals of 7-10

14 years. At first glance this large number could be interpreted as meaning that a high percentage of 15 the roads in the TMP are not being adequately maintained. The figure by itself, however, may be

the roads in the TMP are not being adequately maintained. The figure by itself, however, may be misleading, particularly for the roads that are included in the Administrative Access (AA)

17 category. Unlike the roads in the General travel use category that are used by the public and

17 category. Unlike the roads in the General travel use category that are used by the public and 18 generally bear higher amounts of traffic, the AA roads are not available to the public and most

receive very little use. In fact, of the 126 miles of roads in the AA category, 66 miles are

identified in the inventory as lacking legal public access (see Map 17). In other words, they are

20 Identified in the inventory as facking legal public access (see Map 17). In other words, they are 21 located on BLM but are surrounded by private lands and cannot be legally accessed by the

22 general public. Many of these are only driven by authorized personnel a few times a year and

23 some go for intervals of many years without being used.

24

25 As for the roads included in the General category, in some cases a maintenance interval of 7 to

10 years would be inadequate; however, it does not necessarily mean that this level of

27 maintenance is inadequate for all 85 miles that are maintained at this frequency. Under favorable

soil and ground conditions and where roads are located on gentle terrain, this level of

29 maintenance may actually be quite appropriate. Blading or disturbing roads that are

30 predominantly rocky in nature or that are located across well-drained soils with high amounts of 31 ground vegetation may actually do more harm than good for retarding erosion and improving

31 ground vegetation may actually do more harm than good for retarding erosion and improving 32 surface conditions. In addition, many miles of the BLM roads in this category are little more

than unaltered travel ways located in the bottoms of dry washes, and which for all practical

34 purposes, do not require maintenance.

1 Compared to the number of roads in the area, the Arkansas River TMP contains relatively few 2 single-track (foot, horse, mountain bike, motorcycle) or narrow double-track (ATV) trails. The 3 inventory (Table 2-a) includes only 35 miles of non-motorized single-track, 3 miles of motorized 4 single track, and 26 miles of narrow double-track ATV routes. As a general rule, most of the 5 trails, both single-track and double-track, are not constructed but were developed over time 6 through use. Some originally served as cattle and game trails that were later used and improved 7 by people. Many of the current ATV trails occur on old road beds that are no longer useable by 8 full-size vehicles because of the presence of washouts, rocks, trees, and other obstacles, but 9 which are useable by smaller ATV equipment. Of the 38 miles of inventoried single-track, only 10 8.3 miles of non-motorized and 1.3 miles of motorized trails showed signs of being constructed. Of the 26 miles of inventoried ATV routes, 22.4 miles showed signs of being constructed or 11

- 12 were located on old constructed road beds.
- 13

14 Construction, maintenance, and improvement of trails are accomplished primarily through the

15 volunteer efforts of organizations and groups affiliated with various recreation users and with

16 funding acquired through the State OHV Grant Program. Due to the popularity of the Texas

17 Creek Travel Management Area and the heavy amounts of motorized recreation use that it

18 receives, most trail maintenance efforts within the TMP have been focused in the Texas Creek

19 subunit, with very little or no maintenance of trails in other areas of the TMP.

20

21 As indicated earlier, the adequacy of the maintenance that is currently being performed in the

22 TMP cannot be directly interpreted from the mileages given in Table 1. Other factors affect

- 23 whether or not a given frequency of maintenance is adequate, including such things as the
- 24 amount and type of traffic that occurs on the routes and their physical characteristics. For the

25 most part, these factors were not considered in the estimates included in Table 1. In order to

26 develop better estimates of the maintenance costs that would be needed under each alternative,

- further analysis of the inventory data was performed that considered the amounts and types ofuses and the legal access status of the existing roads and trails. Rather than focusing on the
- adequacy of maintenance that is performed currently, this analysis was aimed at identifying the

30 frequency of maintenance that is performed currently, this analysis was almed at identifying the

31 that would be managed under each alternative. The summary of this analysis is included in

32 Tables 2-a - 2-d. The mileage figures in these tables were derived from GIS data tables by

33 selecting routes in each alternative by travel use category, type of use, and amount of use and

assigning them into one of three maintenance frequency categories: 1-3yrs., 4-6 yrs., and 7-10
 yrs.

- 36
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- 42 43
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- 44 45

Table 2-a – No Action Alternative - Estimated Miles of Maintenance Needed by Travel Use

-				•••••••••••••••••••••••••••••••••••••••	,				
2	Category, Means of Accomplishment, and Frequency								
	Travel Use Category and Means of	Miles a	and Frequen	cy of Maint	enance				
	Accomplishment								
		1-3 yrs.	4-6 yrs.	7-10 yrs.	Total				
	O (General) – BLM: Scheduled,								
	Emergencies and as needed, Other Project	74	46	23	143				
	Activities								
	O (General) – Right-of-Way Holders	12	36	12	60				
	Subtotal	86	82	35	203				
	AA (Administrative Access) – Permit								
	Holders and BLM Project Activities	7	34	85	126				
	Sub-Total All Roads	87	116	126	329				

A (ATV)

E (Horse)

F (Foot)

M (Motorcycle)

B (Mountain Bike

Sub-Total All Motorized Trails

Sub-Total All Non-motorized Trails

Table 2-b – Alternative A - Estimated Miles of Maintenance Needed by Travel Use Category,

Means of Accomplishment, and Frequency

Travel Use Category and Means of	Miles and Frequency of Maintenance				
Accomplishment					
	1-3 yrs.	4-6 yrs.	7-10 yrs.	Total	
O (General) – BLM: Scheduled,					
Emergencies and as needed, Other Project	71	32	0	103	
Activities					
O (General) – Right-of-Way Holders	12	36	12	60	
Subtotal	83	68	12	163	
AA (Administrative Access) – Permit					
Holders and BLM Project Activities	0	0	96	96	
Sub-Total All Roads	83	68	108	259	
A (ATV)	31	8	2	41	
M (Motorcycle)	14	1	0	15	
Sub-Total All Motorized Trails	45	9	2	56	
B (Mountain Bike	47	0	0	47	
E (Horse)	4	47	4	55	
F (Foot)	1	0	0	1	
Sub-Total All Non-motorized Trails	52	47	4	103	

Table 2-c – Alternative B - Estimated Miles of Maintenance Needed by Travel Use Category,

2	Means	of Acc	omplishme	nt. and I	Frequency
_					

Travel Use Category and Means of	Miles and Frequency of Maintenance			
Accomplishment				
	1-3 yrs.	4-6 yrs.	7-10 yrs.	Total
O (General) – BLM: Scheduled,				
Emergencies and as needed, Other Project	52	2	0	54
Activities				
O (General) – Right-of-Way Holders	12	36	12	60
Subtotal	64	38	12	114
AA (Administrative Access) – Permit				
Holders and BLM Project Activities	0	12	104	116
Sub-Total All Roads	64	50	116	230
A (ATV)	18	0	0	18
M (Motorcycle)	2	0	0	2
Sub-Total All Motorized Trails	20	0	0	20
B (Mountain Bike	17	0	0	17
E (Horse)	5	13	1	19
F (Foot)	6	0	2	8
Sub-Total All Non-motorized Trails	28	13	3	103

Table 2-d – Alternative C - Estimated Miles of Maintenance Needed by Travel Use Category,

Means of Accomplishment, and Frequency

Travel Use Category and Means of	Miles and Frequency of Maintenance				
Accomplishment					
	1-3 yrs.	4-6 yrs.	7-10 yrs.	Total	
O (General) – BLM: Scheduled,					
Emergencies and as Needed, Other Project	70	23	0	77	
Activities					
O (General) – Right-of-Way Holders	12	36	12	60	
Subtotal	82	59	12	153	
AA (Administrative Access) – Permit					
Holders and BLM Project Activities	0	0	103	103	
Sub-Total All Roads	82	59	115	256	
A (ATV)	24	0	0	24	
M (Motorcycle)	4	0	0	4	
Sub-Total All Motorized Trails	28	0	0	28	
B (Mountain Bike	27	0	0	27	
E (Horse)	5	39	3	47	
F (Foot)	2	0	0	2	
Sub-Total All Non-motorized Trails	34	39	3	76	

1 The next table, Table 3, displays and compares the estimated costs for maintaining the roads and 2 trails that would be managed under each alternative. These costs would occur annually and are 3 considered as recurring costs of travel management implementation. The annual maintenance 4 estimates for roads in the General BLM category are based a cost of \$250.00 per mile, including 5 overhead, which was the average amount that was spent in FY 2006 on maintenance contracts 6 administered by the Engineering Field Office. The roads in General category only include those 7 that are maintained by BLM on a scheduled or emergency basis, or in conjunction with other 8 project activities. The costs for maintaining roads in the General and Administrative Access 9 categories that are maintained by holders of right-of-ways and permits are not included, since the 10 costs for maintaining these are borne by other parties. For the purposes of this analysis the assumption is made that 50% of the Administrative Access roads are maintained by right-of-way 11 12 and permit holders. Also, the following factors were applied to the miles of roads in each 13 maintenance frequency category for calculating the miles of roads that would be maintained annually: For roads maintained at a frequency of 1-3 years the number of miles maintained 14 annually equals the total miles times 0.333; for roads maintained at a frequency of 4-6 years the 15 16 number of miles maintained annually equals the total miles times 0.167; and for roads

17 maintained at a frequency of 7-10 years the number of miles maintained annually equals the total

18 miles times 0.10.

19

20 Table 3 – Comparison of Annual Road Maintenance Costs by Alternative

21

ALTERNATIVE ROAD USE CATEGORY						
ALTERNATIVE		ROAD	USE CA	TEGORY	-	
	Gene	eral	Administrative			
			Access			
	Miles	Cost	Miles	Cost	Total Cost	
No Action Alternative	34.6	\$8650	8.3	\$2075	\$10725	
Alternative A	28.9	\$7225	4.8	\$1200	\$8425	
Alternative B	17.6	\$4400	6.2	\$1550	\$5950	
Alternative C	27.1	\$6775	5.2	\$1300	\$8075	

22

23 Comparison of the road maintenance figures shows that costs would be reduced under all three

24 of the action alternatives from that which would be spent under the No Action Alternative. The

25 reason for this is because under all three action alternatives some General category roads that are

26 currently open would be closed, designated as Administrative Access routes, or designated as

27 other types of trails. Likewise, some of the Administrative Access roads included in the No

Action Alternative would be closed under the action alternatives. The following table, Table 4,

29 compares the changes that would occur under each of the action alternatives.

30

31

32 33

- 35
- 36

- 1 Table 4 Changes in Road Mileages between the No Action Alternative and Alternatives A, B,
- 2 and C
- 3

The roads included under the No Action Alternative as	Would be changed to this travel use designation	For the miles shown under each alternative		under
	C C	A	В	С
General (O)	Closed (CL)	42.9	70.7	47.5
General (O)	Administrative Access			
	(AA)	13.7	17.3	11.7
General (O)	ATV (A)	-	3.6	4.4
General (O)	Motorcycle (M)	-	-	0.8
General (O)	Mountain Bike (B)	0.5	0.2	0.5
General (O)	Equestrian (E)	1.1	3.2	1.9
General (O)	Foot (F)	_	0.1	-
Administrative Access (AA)	Closed (CL)	24.7	26.2	21.5
	All Designations	82.9	121.3	88.3

4

5 Trail Maintenance Costs

6

7 The average costs per mile included in the following tables (Tables 5-7) are very general

8 estimates of what it would cost to maintain, construct, and reconstruct various types of trails

9 within the Royal Gorge Field Office. The estimates account for the fact that the majority of the

10 trail maintenance work in the Field Office is performed by volunteers or through projects funded

11 under the State OHV Grant Program. The same also applies to construction and reconstruction

12 work. Only small amounts of maintenance, construction, and reconstruction work are directly

performed by BLM personnel or by private contractors with BLM funds. Most of the direct
 costs to BLM are associated with such activities as administering grants and supervising

15 volunteers. In reality, the maintenance, construction, and reconstruction of trails encompass a

16 broad range of costs that vary greatly between trails that have different physical characteristics.

Because of the tremendous variation of the costs of this work, the figures included in the tables

are intended to be used only for comparing the estimated costs of the TMP alternatives and

19 should not be used for budgetary planning purposes.

20

21 Table 5 – Comparison of Annual Trail Maintenance Costs by Alternative

~	~
2	2
_	_

ALTERNATIVE	TRAIL USE CATEGORY								
	А		M, B, E		F		TOTAL		
	Miles	Cost	Miles	Cost	Miles	Cost			
No Action									
Alternative	7.4	\$7400	6.7	\$670	0.7	\$42	\$8112		
Alternative A	11.6	\$11600	27.7	\$2770	0.3	\$18	\$14388		
Alternative B	6.0	\$6000	10.4	\$1040	2.2	\$132	\$7172		
Alternative C	8.0	\$8000	18.8	\$1880	0.7	\$42	\$9922		

- 1 The following unit costs were used for calculating the total estimated maintenance costs included
- 2 in Table 5:
- 3
- 4 ATV trails: \$1,000.00 per mile (machine)
- 5 Motorcycle, mountain bike, and horse trails: \$100.00 per mile (hand crews)
- 6 Foot trails: \$60.00 per mile

8 Road and Trail and Construction and Reconstruction Costs

9

7

- 10 Construction involves building an entirely new road or trail where none currently exists.
- 11 Reconstruction involves relocating, realignment, and redevelopment of an existing road or trail
- 12 cross-section to increase travel width, reduce out-slope, and install or re-build erosion control
- 13 structures. The costs incurred for constructing and reconstructing routes are considered as one-
- 14 time costs of implementation. The miles of new construction and reconstruction that would
- 15 occur under each alternative are included in Table 6. The No Action alternative is not included
- 16 because no routes would be constructed or reconstructed under that alternative.
- 17
- 18 Table 6 Miles of New Construction (NC) and Reconstruction (R) by Travel Use Category and
- 19 Alternative

Travel Use Category		Alternative						
	A	ł	Η	3	С			
	NC	R	NC	R	NC	R		
O (General)	0.7	0.9	0.6	0.4	0.7	0.6		
A (ATV)	0.6	4.6	0	0.6	0	3.0		
M (Motorcycle)	7.6	0	0	0	0.2	0		
B (Mountain Bike)	28.2	4.3	1.6	2.5	6.5	4.3		
E (Horse)	3.5	26.3	2.1	0.1	3.0	27.2		
F (Foot)	0	0	0	3.7	0	0		
Total	39.9	32.9	4.3	7.3	10.4	35.1		

20

- 21 The next table (Table 7) displays the estimated costs of constructing and reconstructing roads
- 22 and trails. The following unit costs were used in calculating these costs:
- 2324 Construction costs:

25

- 26 Road (General): \$60,000 per mile
- 27 ATV: \$15,000.00 per mile
- 28 Motorcycle, mountain bike, horse: \$8,000.00 per mile (hand crews)
- 29 Foot: \$5,000.00 per mile (hand crews)
- 30
- 31 Reconstruction costs:

- 33 Road (General): \$10,000.00 per mile (machine)
- 34 ATV: \$10,000 per mile
- 35 Motorcycle, mountain bike, horse: \$1000.00 per mile
- 36 Foot: \$500.00 per mile

1 Table 7 – Costs in Thousands of Dollars of New Construction (NC) and Reconstruction (R) by

2 3

Travel Use Category		Alternative						
	A	1	H	3	C			
	NC	R	NC	R	NC	R		
O (General)	42.0	9.0	36.0	4.0	42.0	6.0		
A (ATV)	9.0	46.0	0	6.0	0	30.0		
M (Motorcycle)	60.8	0	0	0	1.6	0		
B (Mountain Bike)	225.6	4.3	12.8	2.5	52.0	4.3		
E (Horse)	28.0	26.3	16.8	0.1	24.0	27.2		
F (Foot)	0	0	0	1.8	0	0		
Total	337.4	85.6	65.6	14.4	119.6	67.5		

4 5

Road and Trail Closure Costs

Travel Use Category and Alternative

6 7

8

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10

11

Closure costs include the costs associated with decommissioning routes that are designated in the TMP alternatives as closed (CL). The costs associated with decommissioning closed routes are considered as one-time costs of travel management implementation. Some route closures would require installing physical barriers to prevent vehicular access, such as constructing fences, placing large boulders, or installing metal gates in existing fence lines. Other routes, such as

those that are located in open areas where installing barricades is not a practical option, would 12

13 simply be closed with signs that prohibit motorized uses. In addition to closing the routes, in

14 those cases where serious erosion is occurring, decommissioning would also include

mechanically ripping and seeding the route to reclaim it to a natural state. In most cases 15

16 reclamation would be allowed to occur naturally.

17

18 Because closure devices are only needed at one or both ends of a route, the total number of

19 closure devices that would be needed under each alternative is directly related to the number of

20 routes that would be closed. Because reclamation involves treating the entire route, the total

21 miles mechanical reclamation that would be needed under each alternative is directly related to

22 the miles of routes that would be closed. In order to estimate the total costs of closing and

23 decommissioning routes, both the numbers and miles routes must be considered.

24

25 Not all of the routes that are designated as closed would require barriers, signs, or mechanical treatment to decommission them. Under all of the action alternatives (A, B, and C) many of the 26

routes that would be designated closed are not legally accessible. For example, under

27 28 Alternative A, approximately 172.3 miles would be designated closed. Included in this total,

29 however, are 45.9 miles that are not legally accessible to the public. In most cases these routes

would not require barriers or other actions to decommission them. Likewise, 237.7 miles would 30

31 be designated closed under Alternative B, which includes 51.5 miles without legal public access;

32 and 202.1 miles would be designated closed under Alternative C, of which 50.7 miles are not

33 legally accessible. Thus, if the routes without legal public access are subtracted from the total

closed routes for each alternative, then the net miles of routes that would require some type of 34

closure device and/or reclamation would be 126.4 miles for Alternative A, 186.2 miles for 35

36 Alternative B, and 151.4 miles for Alternative C. During the development of the alternatives the ID team made an effort to identify the types of
 closures and reclamation treatment that would be needed for each alternative. In many cases,
 however, decisions regarding the location and type of closure needed were deferred until Six
 closure categories and two reclamation categories were used to identify the types of closure

5 devices and reclamation methods that would be needed. The categories included:

6 7

8

- B = Closing with constructed barricades, boulders, or mounds of earth (tank traps)
- NF = Closing by constructing new fence
- 9 EG = Closing by installing lock on existing gate
- 10 NG = Closing with new locked gate
 - CP = Signing as closed with Carsonite post without installing physical barriers
 - TBD = Determine location and type of closure upon field inspection
 - MR = Mechanical Reclamation (backfilling, ripping, and seeding)
 - NR = Natural Reclamation (allowing vegetation to naturally reestablish)
- 14 15

13

11 12

16 The following table (Table 8) displays the total numbers and miles of legally accessible routes

17 according to how routes would be closed and rehabilitated under each alternative. The No

18 Action alternative is not included because no routes would be decommissioned under that 19 alternative.

20

21 Table 8 - Numbers of Closures by Type of Closure Device and Miles of Rehabilitation Using

22 Mechanical Treatment; Kiosks and Travel Management Area Entry Signs

		Alternative	
Type of Closure	А	В	С
B – Constructed barricades, boulders, etc.	61	64	62
NF – Constructing new fence	1*	1*	1*
EG – Locking existing gates	1	1	1
NG – Installing new locked gate	12	12	12
CP – Signing with Carsonite post	26	26	26
TBD – To be determined in field	67	71	69
Miles of Mechanical Reclamation	12.2	12.2	12.2
Kiosks - Large	2	2	2
Kiosks - Small	3	3	3
Travel Management Area Entry Signs	51	51	51

23

- 24 * Includes approximately 1 mile of new fence
- 25

26 The following unit costs were applied for calculating the total estimated costs shown in Table 9

for closing and rehabilitating routes and installing kiosks and travel management area entrysigns:

29 30

31

32

- Constructing barricades with boulders \$200.00 per closure
 Constructing new fence (wire and t-post) \$1.50 per foot
 - Installing locks on existing gates \$60.00 per gate
 - Installing new locked gates \$600.00 per gate
- Installing Carsonite posts \$50.00 per post

- Ripping and seeding \$1,500 per mile
- Large Kiosk \$2,000.00 per kiosk
- Small Kiosk \$1,200.00 per kiosk
- Travel Management Area Entry Sign \$100.00 per sign

Table 9 – Estimated Implementation Costs for Closures, Reclamation, Kiosks, and Travel Management Area Entry Signs

	Cost in	Dollars by Alte	ernative
Type of Closure	А	В	С
B – Constructed barricades, boulders, etc.	12,200	12,800	12,400
NF – Constructing new fence	7,920	7,920	7,920
EG – Locking existing gates	60	60	60
NG – Installing new locked gate	7,200	7,200	7200
CP – Signing with Carsonite post	1,300	1,300	1,300
TBD – To be determined in field	*	*	*
Subtotal	28,680	29,280	28,880
Subtotal x 1.33*	38,144	38,942	38,410
Mechanical Rehabilitation	18,300	18,300	18,300
Kiosks	7,600	7,600	7,600
Travel Management Entry Signs	5,100	5,100	5,100
Total	69,144	69,942	69,410

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9 *Because decisions pertaining to the types of closures that would be employed were not

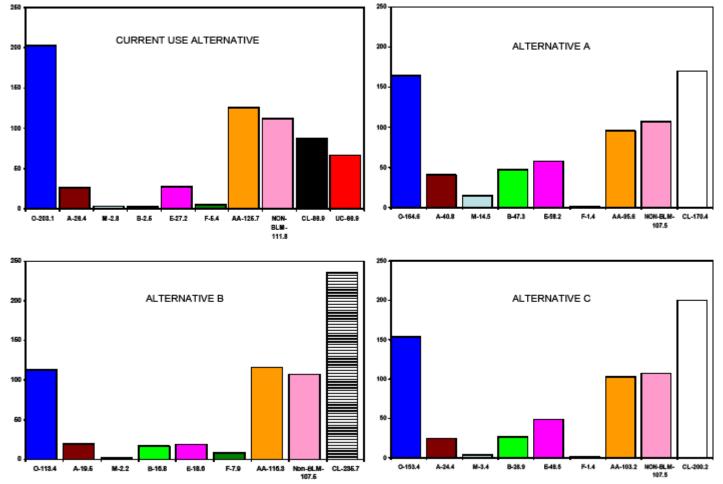
10 identified for approximately one-third of the routes that would be closed, the assumption has

11 been made that the total costs for installing closure devices would actually be a third more than

12 the Subtotal shown in Table 9.

13





MILES OF DESIGNATED ROUTES – ALL SUBUNITS

Appendix 14 – Changes in Route Designations Between Alternatives

 $\frac{1}{2}$

Table 1 – Changes in Route Designations between the No Action Alternative and Alternatives A, B, and C for the Entire Arkansas River TMP Area

The routes included under the No Action Alternative as	Would be changed to this travel use designation	For the miles s	hown under each	alternative
		A	В	С
General (O)	Closed (CL)	42.9	70.7	47.5
General (O)	Administrative Access (AA)	13.7	17.3	11.7
General (O)	ATV (A)	-	3.6	4.4
General (O)	Motorcycle (M)	-	-	0.8
General (O)	Mountain Bike (B)	0.5	0.2	0.5
General (O)	Equestrian (E)	1.1	3.2	1.9
General (O)	Foot (F)	-	0.1	-
ATV (A)	Closed (CL)	4.9	10.4	7.2
ATV (A)	Administrative Access (AA)	-	2.2	-
ATV (A)	General (O)	3.0	0.1	3.0
ATV (A)	Motorcycle (M)	-	-	0.2
ATV (A)	Mountain Bike (B)	-	-	-
ATV (A)	Equestrian (E)	-	-	-
ATV (A)	Foot (F)	-	-	-
Motorcycle (M)	Closed (CL)	0.3	0.6	0.6
Motorcycle (M)	Administrative Access (AA)	-	-	-
Motorcycle (M)	Mountain Bike (B)	-	-	-
Motorcycle (M)	Equestrian (E)	-	-	-
Motorcycle (M)	Foot (F)	-	-	-
Mountain Bike (B)	Closed (CL)	-	-	_
Mountain Bike (B)	Administrative Access (AA)	-	-	_
Mountain Bike (B)	Equestrian (E)	-	-	_
Mountain Bike (B)	Foot (F)	-	2.1	-
Equestrian (E)	Closed (CL)	0.1	0.1	0.1
Equestrian (E)	Administrative Access (AA)	-	-	-
Equestrian (E)	Mountain Bike (B)	-	-	-
Equestrian (E)	Foot (F)	_	-	_
Foot (F)	Closed (CL)	0.1	0.1	0.1
Foot (F)	Administrative Access (AA)	0.8	0.6	0.8
Foot (F)	Mountain Bike (B)	1.5	1.5	1.5
Foot (F)	Equestrian (E)	1.6	-	1.6
Closed (CL)	Administrative Access (AA)	1.0	2.2	1.0
Closed (CL)	General (O)	2.6	-	0.6
Closed (CL)	ATV (A)	8.1	-	3.0
Closed (CL)	Motorcycle (M)	3.1	-	-
Closed (CL)	Mountain Bike (B)	1.1	0.7	1.1
Closed (CL)	Equestrian (E)	6.1	2.7	5.1
Closed (CL)	Foot (F)	-	-	5.1
Administrative Access (AA)	Closed (CL)	21.5	26.2	21.5
Administrative Access (AA)	General (O)	9.9	0.8	8.4
Administrative Access (AA)	ATV (A)	1.9		0.4
	Motorcycle (M)			
Administrative Access (AA) Administrative Access (AA)		- 0.7	2.3	- 2.3
Administrative Access (AA) Administrative Access (AA)	Mountain Bike (B) Equestrian (E)	9.4	1.2	4.4
Administrative Access (AA) Administrative Access (AA)	Foot (F)	7.4	1.2	- 4.4
User Created (UC)	Closed (CL)	41.6	50.4	48.5
User Created (UC)	ATV (A)	2.8		
User Created (UC)		- 2.8	-	0.5
User Created (UC)	Motorcycle (M)		- 0.5	-
	Mountain Bike (B)	12.3	9.5	11.9
User Created (UC)	Equestrian (E)	9.5	4.3	5.6
User Created (UC)	Foot (F)	-		-
Non-BLM	Closed (CL)	0.4	1.2	1.1
Non-BLM	Administrative Access (AA)	0.1	0.1	0.1
Non-BLM	General (O)	4.0	3.2	3.3
Non-BLM	ATV (A)	-	-	-
Non-BLM	Motorcycle (M)	-	-	-
Non-BLM	Mountain Bike (B)	0.6	0.6	0.6
Non-BLM	Equestrian (E)	-	0.7	

The routes included under the No Action Alternative as	Would be changed to this travel use designation	For the miles s	hown under each	alternati
	Ŭ	A	В	C
General (O)	Closed (CL)	1.0	1.8	1.
General (O)	Administrative Access (AA)	-	1.5	-
General (O)	ATV (A)	0.3	0.2	0.
General (O)	Motorcycle (M)	-	-	-
General (O)	Mountain Bike (B)	-	-	-
General (O)	Equestrian (E)	-	-	-
General (O)	Foot (F)	-	-	-
ATV (A)	Closed (CL)	2.1	2.2	2.
ATV (A)	Administrative Access (AA)	-	-	-
ATV (A)	General (O)	-	-	-
ATV (A)	Motorcycle (M)	-	-	-
ATV (A)	Mountain Bike (B)	-	-	-
ATV (A)	Equestrian (E)	-	-	-
ATV (A)	Foot (F)	-	-	-
Motorcycle (M)	Closed (CL)	0.1	0.1	0.
Motorcycle (M)	Administrative Access (AA)	-	-	-
Motorcycle (M)	Mountain Bike (B)	-	-	
Motorcycle (M)	Equestrian (E)	-	-	-
Motorcycle (M)	Foot (F)	-	-	-
Mountain Bike (B)	Closed (CL)	-	-	-
Mountain Bike (B)	Administrative Access (AA)	-	-	-
Mountain Bike (B) Mountain Bike (B)	Equestrian (E) Foot (F)	-	-	-
	Closed (CL)	-	-	-
Equestrian (E) Equestrian (E)	Administrative Access (AA)	-	-	-
Equestrian (E)	Mountain Bike (B)	-	-	-
Equestrian (E)	Foot (F)			
Foot (F)	Closed (CL)	_	_	-
Foot (F)	Administrative Access (AA)	-	-	-
Foot (F)	Mountain Bike (B)	-	-	-
Foot (F)	Equestrian (E)	-	-	-
Closed (CL)	Administrative Access (AA)	_	1.1	-
Closed (CL)	General (O)	-	-	-
Closed (CL)	ATV (A)	7.6	-	3.
Closed (CL)	Motorcycle (M)	3.1	-	-
Closed (CL)	Mountain Bike (B)	-	-	-
Closed (CL)	Equestrian (E)	-	-	-
Closed (CL)	Foot (F)	-	-	-
Administrative Access (AA)	Closed (CL)	0.3	0.3	0.
Administrative Access (AA)	General (O)	-	-	-
Administrative Access (AA)	ATV (A)	-	-	-
Administrative Access (AA)	Motorcycle (M)	-	-	-
Administrative Access (AA)	Mountain Bike (B)	-	-	-
Administrative Access (AA)	Equestrian (E)	-	-	-
Administrative Access (AA)	Foot (F)		-	-
User Created (UC)	Closed (CL)	4.2	4.9	4.
User Created (UC) User Created (UC)	General (O)	0.2	-	0.
User Created (UC)	ATV (A) Motorcycle (M)		-	
User Created (UC)	Motorcycle (M) Mountain Bike (B)		-	-
User Created (UC)	Equestrian (E)	-	-	-
User Created (UC)	Foot (F)	-	-	-
Non-BLM	Closed (CL)	0.4	0.4	0.4
Non-BLM	Administrative Access (AA)	-	-	
Non-BLM	General (O)	-	-	-
Non-BLM	ATV (A)	-	-	-
Non-BLM	Motorcycle (M)	-	_	_
Non-BLM	Mountain Bike (B)	_	_	_
	· · ·			
Non-BLM	Equestrian (E)	-	-	-

The routes included under the No Action Alternative as	Would be changed to this travel use designation	For the miles s	hown under each	i alternative
		А	В	C
General (O)	Closed (CL)	6.5	7.7	6.5
General (O)	Administrative Access (AA)	0.6	0.6	0.6
General (O)	ATV (A)	-	-	-
General (O)	Motorcycle (M)	-	-	-
General (O)	Mountain Bike (B)	0.5	0.2	0.5
General (O)	Equestrian (E)	0.1	-	0.1
General (O)	Foot (F)	-	0.1	-
ATV (A)	Closed (CL)	-	-	-
ATV (A)	Administrative Access (AA)	-	-	-
ATV (A)	General (O)	-	-	-
ATV (A)	Motorcycle (M)	-	-	-
ATV (A)	Mountain Bike (B)	-	-	-
ATV (A)	Equestrian (E)	-	-	-
ATV (A)	Foot (F)	-	-	-
Motorcycle (M)	Closed (CL)	-	-	-
Motorcycle (M)	Administrative Access (AA)	-	-	-
Motorcycle (M)	Mountain Bike (B)	-	-	-
Motorcycle (M)	Equestrian (E)	-	-	-
Motorcycle (M)	Foot (F)	-	-	-
Mountain Bike (B)	Closed (CL)	-	-	-
Mountain Bike (B)	Administrative Access (AA)	-	-	-
Mountain Bike (B)	Equestrian (E)	-	-	-
Mountain Bike (B)	Foot (F)	-	2.1	_
Equestrian (E)	Closed (CL)	-	-	-
Equestrian (E)	Administrative Access (AA)	-	-	
Equestrian (E)	Mountain Bike (B)	-	-	
Equestrian (E)	Foot (F)		_	
Foot (F)	Closed (CL)	-	_	
Foot (F)	Administrative Access (AA)	-	-	- I
Foot (F)	Mountain Bike (B)	-	-	-
Foot (F)	Equestrian (E)	-	-	
Closed (CL)	Administrative Access (AA)	0.1	0.1	0.1
Closed (CL)	General (O)	-	-	-
Closed (CL)	ATV (A)	-	_	-
Closed (CL)	Motorcycle (M)			-
Closed (CL)	Mountain Bike (B)	0.4	-	0.4
Closed (CL)	Equestrian (E)	-	_	
Closed (CL)	Foot (F)	-	-	-
Administrative Access (AA)	Closed (CL)	-	-	-
Administrative Access (AA)	General (O)			-
Administrative Access (AA)	ATV (A)	-	-	-
	Motorcycle (M)		-	-
Administrative Access (AA)	Mountain Bike (B)	-	-	-
Administrative Access (AA) Administrative Access (AA)	· /	-	-	-
Administrative Access (AA)	Equestrian (E) Foot (F)	-	-	-
		-		- 0.1
User Created (UC)	Closed (CL)	8.8	9.1	9.1
User Created (UC) User Created (UC)	General (O)	0.3	-	-
User Created (UC)	ATV (A) Motorcycle (M)	-	-	0.3
		- 12.0	-	- 11.7
User Created (UC)	Mountain Bike (B) Equestrian (E)	12.0	9.2	11.7
User Created (UC)	1	-		
User Created (UC)	Foot (F)	-	2.7	
Non-BLM	Closed (CL)	-	-	-
Non-BLM	Administrative Access (AA)	-	-	-
Non-BLM	General (O)	0.1	0.1	0.1
Non-BLM	ATV (A)	-	-	-
Non-BLM	Motorcycle (M)	-	-	-
Non-BLM	Mountain Bike (B)	0.6	0.6	0.6
Non-BLM Non-BLM	Equestrian (E)	-	-	-
	Foot (F)	-	-	-

APPENDIX 15

TABLES 8-1 Thru 8-16 COMPARISON OF ALTERNATIVES A, B, and C To the CURRENT USE ALTERNATIVE

- 9 Table 8-1: Miles by Alternative and Travel Use Categories for All Subunits Showing
 10 Differences from Current Use Alternative (highlighted in red)

12	Travel Use	Current Use		native A		native B		native C
13	Category	Alternative	(Hig	h Use)	(L0)	v Use)	(Mode)	rate Use)
	0	203.1	164.6	(-38.5)	113.4	(-89.7)	153.4	(-49.7)
	Α	26.4	40.8	(+14.4)	19.5	(-6.9)	24.4	(-2.0)
	Μ	2.8	14.5	(+11.7)	2.2	(-0.6)	3.4	(+0.6)
	В	2.5	47.3	(+44.8)	16.8	(+14.3)	26.9	(+24.4)
	Ε	27.2	58.2	(+31.0)	18.6	(-18.6)	48.5	(+21.3)
	F	5.4	1.4	(-4.0)	7.9	(+2.5)	1.4	(-4.0)
	AA	125.7	95.6	(-30.1)	116.3	(-9.4)	103.2	(-22.5)
	CL	87.6	172.3	(+84.7)	237.7	(+150.1)	202.1	(+114.5)
	UC	68.1	0	(-68.1)	0	(-68.1)	0	(-68.1)

Table 8-2: Miles by Alternative and Motorized and Non-Motorized Travel Use Categories

- 21 for All Subunits Showing Differences from Current Use Alternative (highlighted in red)

23	Travel Use	Current Use	Alteri	native A	Alteri	native B	Alter	native C
24	Category	Alternative	(Hig	h Use)	(Lov	v Use)	(Moder	rate Use)
	Motorized:							
	O,A, and M	232.3	219.9	(-12.4)	135.1	(-97.2)	181.2	(-51.1)
	Non-motorized:							
	B, E, and F	35.1	106.9	(+71.8)	43.3	(+8.2)	76.8	(+41.7)

Table 8-3: Miles by Alternative and Travel Use Categories for Browns Canyon Subunit 1

BROWNS CANYON

- Showing Differences from Current Use Alternative (highlighted in red)
- 2 3 4

Travel Use	Current Use	Altern	ative A	Altern	ative B	Altern	ative C
Category	Alternative	(Hig	gh Use)	(Lov	w Use)	(Mode	rate Use)
0	0.1	0	(-0.1)	0	(-0.1)	0	(-0.1)
Α	0	0	(0)	0	(0)	0	(0)
Μ	0	0	(0)	0	(0)	0	(0)
В	0	0.9	(+0.9)	0.9	(+0.9)	0.9	(+0.9)
E	0	0	(0)	0	(0)	0	(0)
F	0.9	0	(-0.9)	0	(-0.9)	0	(-0.9)
AA	0	0	(0)	0	(0)	0	(0)
CL	0.9	0.9	(0)	0.9	(0)	0.9	(0)
UC	0	-					
	iles by Alternative ar com Current Use Alt		e (highlig	U		a Subu	nit Showii
Differences fi	com Current Use Alt	ternativ	e (highlig <u>SALIDA</u>	hted in	red)		
Differences for Travel Use	U	ternativ Altern	re (highlig <u>SALIDA</u> ative A	hted in Alterna	red) ative B	Altern	ative C
Differences fi	com Current Use Alt Current Use	ternativ Altern (Hig	re (highlig) <u>SALIDA</u> ative A gh Use)	hted in Alterna	red) ative B w Use)	Altern	ative C rate Use)
Differences for Travel Use Category	com Current Use Alt Current Use Alternative	ternativ Altern (Hig 16.5	re (highlig) <u>SALIDA</u> ative A (-7.2)	Alterna (Lov 15.2	red) ative B w Use) (-8.4)	Altern (Mode	ative C rate Use) (-7.4)
Differences from the second se	com Current Use Alt Current Use Alternative 23.6	ternativ Altern (Hig	re (highlig) <u>SALIDA</u> ative A (h Use) (-7.2) (+0.2)	Alterna (Lov 15.2 0.9	red) ative B w Use) (-8.4) (+0.2)	Altern (Mode 16.2	ative C rate Use) (-7.4) (+0.5)
Differences fr Travel Use Category O	com Current Use Alt Current Use Alternative 23.6 0.7	Altern (Hig 16.5 0.9	re (highlig) <u>SALIDA</u> ative A (-7.2)	Alterna (Lov 15.2	red) ative B w Use) (-8.4)	Altern (Mode 16.2 1.2	ative C rate Use) (-7.4) (+0.5) (0)
Differences for Travel Use Category O A M	com Current Use Alt Current Use Alternative 23.6 0.7 0	Altern (Hig 16.5 0.9 0	re (highlight <u>SALIDA</u> ative A gh Use) (-7.2) (+0.2) (0) (+41.2)	Alterna (Lov 15.2 0.9 0 11.2	red) ative B w Use) (-8.4) (+0.2) (0) (+9.1)	Altern (Mode 16.2 1.2 0 21.3	ative C rate Use) (-7.4) (+0.5) (0) (+19.2)
Differences from the second se	com Current Use Alt Current Use Alternative 23.6 0.7 0 2.1	Altern (Hig 16.5 0.9 0 43.3	re (highlig) <u>SALIDA</u> ative A (-7.2) (+0.2) (0) (+41.2) (0)	Alterna (Lov 15.2 0.9 0 11.2 0.4	red) ative B w Use) (-8.4) (+0.2) (0) (+9.1) (0)	Altern (Mode 16.2 1.2 0	ative C rate Use) (-7.4) (+0.5) (0) (+19.2) (0)
Differences for Travel Use Category O A A M B B E	com Current Use Alt Current Use Alternative 23.6 0.7 0 2.1 0.4	Altern (Hig 16.5 0.9 0 43.3 0.4	re (highlight <u>SALIDA</u> ative A gh Use) (-7.2) (+0.2) (0) (+41.2)	Alterna (Lov 15.2 0.9 0 11.2	red) ative B w Use) (-8.4) (+0.2) (0) (+9.1)	Altern (Mode 16.2 1.2 0 21.3 0.4	ative C rate Use) (-7.4) (+0.5) (0) (+19.2)

21.2

24 25 UC

26

27 28

1 Table 8-5: Miles by Alternative and Travel Use Categories for Badger Creek Subunit

BADGER CREEK

- 2 Showing Differences from Current Use Alternative (highlighted in red)

Travel Use	Current Use Alternative		native A	Altern	ative B w Use)		native C erate Use)
Category O	34.6	33.6	gh Use) (-1.0)	31.6	(-3.0)	33.1	(-1.5)
<u> </u>	1.9	1.9	(-1.0)	0	(-3.0)	0	(-1.9)
<u> </u>	0.3	0.5	(+0.2)	0	(-0.3)	1.2	(+0.9)
B	0.3	0.5	(+0.2)	0	(0)	0	(10.7)
<u> </u>	0	0	(0)	0	(0)	0	(0)
<u> </u>	0	0	(0)	0	(0)	0	(0)
AA	7.1	6.3	(-0.8)	7.8	(+0.7)	6.3	(-0.8)
CL	16.8	26.8	(+10.0)	29.6	(+12.8)	28.4	(+11.6)
UC	8.0						
	les by Alternative a om Current Use Alt	ternati		hted in		Gulch S	Subunit Sh
Differences fr		ternati [.] <i>K</i>	ve (highlig	hted in			Subunit Sh native C
Differences fr	om Current Use Alt	ternati <i>K</i> Alterr	ve (highlig) RED GULC	hted in CH Altern	red)	Altern	
Differences fr Travel Use	om Current Use Alt Current Use	ternati <i>K</i> Alterr	ve (highlig RED GULC native A	hted in CH Altern	red) ative B	Altern	native C
Differences fr Travel Use Category	om Current Use Alt Current Use Alternative	ternati K Altern (Hi 25.9 0	ve (highlig RED GULC native A gh Use)	hted in CH Altern (Loy	red) ative B w Use)	Altern (Mode	native C erate Use)
Differences fr Travel Use Category O	om Current Use Alt Current Use Alternative 28.8 1.1 0	kernativ Altern (Hi 25.9 0 0	ve (highlig RED GULC native A gh Use) (-2.9)	Altern (Lov 16.2 0 0	red) ative B w Use) (-12.6)	Altern (Mode 21.8 4.1 0	native C erate Use) (-7.0)
Differences fr Travel Use Category O A	om Current Use Alt Current Use Alternative 28.8 1.1	ternati K Altern (Hi 25.9 0	ve (highlighter RED GULC native A gh Use) (-2.9) (-1.1)	hted in CH Altern (Lov 16.2 0	red) ative B w Use) (-12.6) (-1.1)	Altern (Mode 21.8 4.1	native C erate Use) (-7.0) (+3.0)
Differences fr Travel Use Category O A A M B E	om Current Use Alt Current Use Alternative 28.8 1.1 0 0 0 0	k Altern (Hi 25.9 0 0 0 0 0	ve (highlighter RED GULC hative A gh Use) (-2.9) (-1.1) (0)	Altern (Lov 16.2 0 0	red) ative B w Use) (-12.6) (-1.1) (0)	Altern (Mode 21.8 4.1 0 0 0 0.6	native C erate Use) (-7.0) (+3.0) (0)
Differences fr Travel Use Category O A M B	om Current Use Alt Current Use Alternative 28.8 1.1 0 0 0 0 0 0 0	ternativ Altern (Hi 25.9 0 0 0 0 0 0 0 0 0 0	ve (highlig) RED GULC native A gh Use) (-2.9) (-1.1) (0) (0)	Altern (Low) 16.2 0 0 0 0 0 0 0 0 0	red) ative B w Use) (-12.6) (-1.1) (0) (0)	Altern (Mode 21.8 4.1 0 0 0 0.6 0	native C erate Use) (-7.0) (+3.0) (0) (0) (+0.6) (0)
Differences fr Travel Use Category O A A M B E	om Current Use Alt Current Use Alternative 28.8 1.1 0 0 0 0 0 0 0	k Altern (Hi) 25.9 0 0 0 0 0 0 0 0 0 0 0 0 0	ve (highlig) RED GULC ative A gh Use) (-2.9) (-1.1) (0) (0) (+0.6)	Altern (Low) 16.2 0 0 0 0 0	red) ative B w Use) (-12.6) (-1.1) (0) (0) (0)	Altern (Mode 21.8 4.1 0 0 0 0.6 0 0.8	native C erate Use) (-7.0) (+3.0) (0) (0) (+0.6)
Differences fr Travel Use Category O A A M B B E E F	om Current Use Alt Current Use Alternative 28.8 1.1 0 0 0 0 0	ternativ Altern (Hi 25.9 0 0 0 0 0 0 0 0 0 0	ve (highlig) RED GULC native A gh Use) (-2.9) (-1.1) (0) (0) (+0.6) (0)	Altern (Low) 16.2 0 0 0 0 0 0 0 0 0	red) ative B w Use) (-12.6) (-1.1) (0) (0) (0) (0)	Altern (Mode 21.8 4.1 0 0 0 0.6 0	native C erate Use) (-7.0) (+3.0) (0) (0) (+0.6) (0)

1 Table 8-7: Miles by Alternative and Travel Use Categories for Texas Creek Subunit

- 2 Showing Differences from Current Use Alternative (highlighted in red)

		TE	XAS CRE	EK			
Travel Use	Current Use	Altern	ative A	Alterna	tive B	Alterna	ative C
Category	Alternative	(Hig	gh Use)	(Low	v Use)	(Mode	rate Use)
0	19.0	18.4	(-0.6)	15.6	(-3.4)	18.4	(-0.6)
Α	17.4	23.2	(+5.8)	15.2	(-2.2)	18.7	(+1.3)
Μ	1.2	13.0	(+11.8)	1.2	(0)	1.2	(0)
В	0	0	(0)	0	(0)	0	(0)
Ε	0	0	(0)	0	(0)	0	(0)
F	0	0	(0)	0	(0)	0	(0)
AA	3.0	2.7	(-0.3)	5.4	(+2.4)	2.7	(-0.3)
CL	20.1	17.4	(-2.7)	28.8	(+8.7)	25.2	(+5.1)
UC	4.9	-		-		-	
	les by Alternative a om Current Use Alt	ternativ	e (highlig	hted in 1	0	lole Sub	ounit Show
Differences fr	om Current Use Alt	ternativ	re (highlig BIG HOLI	hted in r	red)		
Differences fr Travel Use	om Current Use Alt Current Use	ternativ J Altern	re (highlig) B <i>IG HOLI</i> ative A	hted in r E Alterna	red) ntive B	Alterna	ative C
Differences fr Travel Use Category	om Current Use Alt Current Use Alternative	ternativ Altern (Hig	re (highlig B <i>IG HOLI</i> ative A gh Use)	hted in 1 E Alterna (Low	red) ntive B v Use)	Alterna (Mode	ative C rate Use)
Differences fr Travel Use Category O	om Current Use Alt Current Use Alternative 0	ternativ Altern (Hig 0	re (highlig B <i>IG HOLI</i> ative A gh Use) (0)	hted in r E Alterna (Low 0	red) ntive B <u>7 Use) (0)</u>	Alterna (Mode) 0	ative C rate Use) (0)
Differences fr Travel Use Category O A	om Current Use Alt Current Use Alternative 0 0	Altern (Hig 0	re (highlig BIG HOLI ative A (h Use) (0) (0)	Alterna	red) tive B v Use) (0) (0)	Alterna (Mode) 0	ative C rate Use) (0) (0)
Differences fr Travel Use Category O A M	om Current Use Alt Current Use Alternative 0 0 0	Altern (Hig 0 0 0	re (highlig BIG HOLI ative A gh Use) (0) (0) (0)	Alterna (Low 0 0 0	red) tive B v Use) (0) (0) (0)	Alterna (Mode) 0 0 0	ative C rate Use) (0) (0) (0)
Differences fr Travel Use Category O A A M B	om Current Use Alt Current Use Alternative 0 0 0 0	Altern (Hig 0 0 0 0	re (highlig BIG HOLI ative A (h Use) (0) (0) (0) (0)	Alterna (Low 0 0 0 0	red) tive B v Use) (0) (0) (0) (0)	Alterna (Moder 0 0 0 0	ative C rate Use) (0) (0) (0) (0)
Differences fr Travel Use Category O A A M B B E	om Current Use Alt Current Use Alternative 0 0 0 0 0 0	Altern (Hig 0 0 0 0 0 0	re (highlig BIG HOLI ative A th Use) (0) (0) (0) (0) (0)	Alterna (Low 0 0 0 0 0 0	red) tive B v Use) (0) (0) (0) (0) (0)	Alterna (Mode) 0 0 0 0 0 0	ative C rate Use) (0) (0) (0) (0) (0)
Differences fr Travel Use Category O A A M B B E E F	om Current Use Alt Current Use Alternative 0 0 0 0 0 0 0 0 0	Altern (Hig 0 0 0 0 0 0 0 0	re (highlig BIG HOLI ative A gh Use) (0) (0) (0) (0) (0) (0)	Alterna (Low 0 0 0 0 0 0 0 0 0 0	red) tive B (0) (0) (0) (0) (0) (0) (0)	Alterna (Mode) 0 0 0 0 0 0 0	ative C rate Use) (0) (0) (0) (0) (0) (0)
Differences fr Travel Use Category O A A M B B E	om Current Use Alt Current Use Alternative 0 0 0 0 0 0	Altern (Hig 0 0 0 0 0 0	re (highlig BIG HOLI ative A th Use) (0) (0) (0) (0) (0)	Alterna (Low 0 0 0 0 0 0	red) tive B v Use) (0) (0) (0) (0) (0)	Alterna (Mode) 0 0 0 0 0 0	ative C rate Use) (0) (0) (0) (0) (0)

 Table 8-9: Miles by Alternative and Travel Use Categories for Crampton Mountain

- 3 Subunit Showing Differences from Current Use Alternative (highlighted in red)

		JKAMP	TON MOU	JNIAI	v		
Travel Use	Current Use			Altern		Altern	ative C
Category	Alternative	(Hig	gh Use)	(Lov	v Use)	(Mode	rate Use)
0	16.2	14.4	(-1.8)	5.4	(-10.8)	12.1	(-4.1)
Α	0	0	(0)	0	(0)	0	(0)
Μ	0	0	(0)	0	(0)	0	(0)
В	0	0	(0)	0	(0)	0	(0)
Ε	0	2.7	(+2.7)	0	(0)	2.7	(+2.7)
F	0	0	(0)	0	(0)	0	(0)
AA	13.7	10.5	(-3.2)	15.6	(+1.9)	10.7	(-3.0)
CL	3.5	6.6	(+3.1)	13.1	(+9.6)	8.7	(+5.2)
UC	0.5	-					
	liles by Alternative a erences from Curre	nt Use A	Alternative	e (highl	ighted in r	0	othills Sub
	erences from Curren	nt Use A SANGI	Alternative RES FOOT	e (highli THILLS	ighted in r	ed)	othills Sub ative C
Showing Diffe Travel Use Category	erences from Curren	nt Use A SANGI Altern	Alternative RES FOOT	e (highli THILLS Altern	ighted in r	ed) Altern	
Showing Diffe Travel Use	erences from Curren Current Use	nt Use A SANGI Altern	Alternative R <i>ES FOOT</i> ative A	e (highli THILLS Altern	ighted in r ative B	ed) Altern	ative C
Showing Diffe Travel Use Category (Proposed) O	erences from Curren Current Use Alternative	nt Use A SANGI Altern (Hig 23.2	Alternative RES FOOT ative A gh Use) (-8.3)	e (highli <i>THILLS</i> Altern (Lov	ighted in r ative B w Use)	ed) Altern (Mode 20.8	ative C rate Use) (-10.7)
Showing Diffe Travel Use Category (Proposed)	Current Use Alternative	nt Use A SANGI Altern (Hig	Alternative RES FOOI ative A sh Use)	e (highl THILLS Altern (Lov 12.9	ighted in r ative B w Use)	ed) Altern (Mode	ative C rate Use)
Showing Diffe Travel Use Category (Proposed) O A	Current Use Alternative	nt Use A SANGI Altern (Hig 23.2 9.7	Alternative RES FOO1 ative A gh Use) (-8.3) (-4.6)	e (highl <i>THILLS</i> Altern (Lov 12.9 0	ighted in r ative B w Use) (-18.6) (0)	ed) Altern (Mode 20.8 0	ative C rate Use) (-10.7) (0)
Showing Diffe Travel Use Category (Proposed) O A M	Current Use Alternative	nt Use A SANGI Altern (Hig 23.2 9.7 1.0	Alternative RES FOOT ative A th Use) (-8.3) (-4.6) (-0.3)	e (highl <i>THILLS</i> Altern (Lov 12.9 0 1.0	ighted in r ative B w Use) (-18.6) (0) (-0.3)	ed) Altern (Mode 20.8 0 1.0	ative C rate Use) (-10.7) (0) (-0.3)
Showing Diffe Travel Use Category (Proposed) O A M B	Current Use Alternative	nt Use A SANGI Altern (Hig 23.2 9.7 1.0 0	Alternative RES FOO1 ative A th Use) (-8.3) (-4.6) (-0.3) (0)	e (highli <i>FHILLS</i> Altern (Lov 12.9 0 1.0 0	ighted in r ative B w Use) (-18.6) (0) (-0.3) (0)	ed) Altern (Mode 20.8 0 1.0 0	ative C rate Use) (-10.7) (0) (-0.3) (0)
Showing Diffe Travel Use Category (Proposed) O A M B E	Current Use Alternative	nt Use A SANGI Altern (Hig 23.2 9.7 1.0 0 0.1	Alternative RES FOOT ative A gh Use) (-8.3) (-4.6) (-0.3) (0) (0)	e (highl <i>HILLS</i> Altern (Lov 12.9 0 1.0 0 0.1	ighted in r ative B v Use) (-18.6) (0) (-0.3) (0) (0)	ed) Altern (Mode 20.8 0 1.0 0 0.1	ative C rate Use) (-10.7) (0) (-0.3) (0) (0)
Showing Diffe Travel Use Category (Proposed) O A M B B E F	Current Use Alternative	nt Use A SANGI Altern (Hig 23.2 9.7 1.0 0 0.1 0.1	Alternative RES FOO1 ative A th Use) (-8.3) (-4.6) (-0.3) (0) (0) (0)	e (highli <i>HILLS</i> Altern (Lov 12.9 0 1.0 0 0.1 0.1	ighted in r ative B w Use) (-18.6) (0) (-0.3) (0) (0) (0) (0)	ed) Altern (Mode 20.8 0 1.0 0 0.1 0.1	ative C rate Use) (-10.7) (0) (-0.3) (0) (0) (0)

Table 8-11: Miles by Alternative and Travel Use Categories for West McCoy Gulch 1 Subunit Showing Differences from Current Use Alternative (highlighted in red)

23

Travel Use	Current Use	Alterna	<i>MCCOY (</i> ative A		ative B	Altern	ative C
Category	Alternative		h Use)		w Use)		rate Use)
0	11.8	6.7	(-5.1)	2.5	(-9.3)	6.7	(-5.1)
Α	0	2.4	(+2.4)	0	(0)	0	(0)
Μ	0	0	(0)	0	(0)	0	(0)
В	0	0	(0)	0	(0)	0	(0)
Ε	0.1	13.5	(+13.4)	0.6	(+0.5)	2.7	(+2.6)
F	0.4	0.4	(0)	0.4	(0)	0.4	(0)
AA	7.5	1.3	(-6.2)	6.3	(-1.2)	6.3	(-1.2)
CL	1.6	7.5	(+5.9)	21.1	(+19.5)	14.8	(+13.2)
UC	9.1	-					
	liles by Alternative a erences from Currer	nt Use A	lternative	e (highl		•	lills Subu
Showing Diffe	erences from Curren	nt Use A MCL	Alternative NTYRE H	e (highl ILLS	ighted in r	red)	
Showing Diffe Travel Use	erences from Curren Current Use	nt Use A <i>MCL</i> Alterna	Alternative N <i>TYRE H</i> ative A	e (highl <i>ILLS</i> Altern	ighted in r ative B	red) Altern	ative C
Showing Diffe Travel Use Category	Current Use	nt Use A MCI Alterna (Hig	lternative N <i>TYRE H</i> ative A <u>h Use)</u>	e (highl <i>ILLS</i> Altern (Loy	ighted in r ative B w Use)	ed) Altern (Mode	ative C rate Use)
Showing Diffe Travel Use	erences from Curren Current Use	nt Use A <i>MCL</i> Alterna	NTYRE H ative A h Use) (-0.2)	e (highl <i>ILLS</i> Altern	ighted in r ative B w Use) (-0.2)	red) Altern	ative C rate Use) (-0.2)
Showing Diffe Travel Use Category O	Current Use Alternative	nt Use A MCL Alterna (Hig 0.1	lternative N <i>TYRE H</i> ative A <u>h Use)</u>	e (highl <i>ILLS</i> Altern (Lov 0.1	ighted in r ative B w Use) (-0.2) (0)	red) Altern (Mode 0.1	ative C rate Use) (-0.2) (0)
Showing Diffe Travel Use <u>Category</u> O A	Current Use Alternative 0.3	nt Use A MCL Alterna (Hig 0.1 0	NTYRE H ative A h Use) (-0.2) (0)	e (highl <i>ILLS</i> Altern (Lo) 0.1 0	ighted in r ative B w Use) (-0.2)	Altern (Mode 0.1 0	ative C rate Use) (-0.2) (0) (0)
Showing Diffe Travel Use <u>Category</u> <u>O</u> <u>A</u> M	Current Use Alternative 0.3 0 0	nt Use A MCL Alterna (Hig 0.1 0 0	Alternative NTYRE H ative A h Use) (-0.2) (0) (0)	e (highl <i>ILLS</i> Altern (Lo) 0.1 0 0	ighted in r ative B w Use) (-0.2) (0) (0)	Altern (Mode 0.1 0 0	ative C rate Use) (-0.2) (0)

24 25 AA

CL

UC

26

27

28

(-1.1)

(+0.1)

9.8

8.2

(-1.1)

(+0.7)

9.8

7.6

(-1.1)

(+0.1)

10.9

7.5

5.6

9.8

7.6

 Table 8-13: Miles by Alternative and Travel Use Categories for Grand Canyon Hills
 Subunit Showing Differences from Current Use Alternative (highlighted in red)

- 3 4

		UNANL) CANYON	V TILL	,		
Travel Use	Current Use	Alternative A		Alternative B		Alternative C	
Category	Alternative	(Hig	gh Use)	(Lov	v Use)	(Mode	rate Use)
0	10.8	8.5	(-2.3)	4.8	(-6.0)	6.9	(-3.9)
Α	0	0	(0)	0	(0)	0	(0)
Μ	0	0	(0)	0	(0)	0	(0)
В	0.4	3.0	(+2.6)	4.6	(+4.2)	4.6	(+4.2)
E	0	0	(0)	0	(0)	0	(0)
\mathbf{F}	2.4	1.0	(-1.4)	1.0	(-1.4)	1.0	(-1.4)
AA	4.9	1.5	(-3.4)	1.5	(-3.4)	1.5	(-3.4)
CL	3.5	9.3	(+5.8)	11.3	(+7.8)	9.3	(+5.8)
UC	1.1	-		-			
	(iles by Alternative serences from Curre	nt Use A		e (highli			h Subunit
	•	nt Use A <i>R(</i>	Alternative	e (highli	ghted in r	red)	h Subunit ative C
Showing Diffe Travel Use	erences from Curren	nt Use A <i>R(</i> Altern	Alternative DAD GUL	e (highli <i>CH</i> Alterna	ghted in r	ed) Altern	
Showing Diffe	current Use	nt Use A <i>R(</i> Altern	Alternative DAD GULC ative A	e (highli <i>CH</i> Alterna	ghted in r ative B	ed) Altern	ative C
Showing Diffe Travel Use Category	current Use	nt Use A <i>R(</i> Altern (Hig	Alternative OAD GULC ative A gh Use)	e (highli CH Alterna (Lov	ghted in r ative B v Use)	ed) Altern (Mode	ative C rate Use)
Showing Diffe Travel Use Category O	Current Use Alternative 21.3	nt Use A R(Altern (Hig 13.3	Alternative DAD GULC ative A gh Use) (-8.0)	e (highli CH Alterna (Lov 7.2	ghted in r ative B v Use) (-14.1)	ed) Altern (Mode 13.3	ative C erate Use) (-8.0)
Showing Diffe Travel Use Category O A	Current Use Alternative 21.3 0.2	nt Use A R(Altern (Hig 13.3 2.7	Alternative <i>DAD GULC</i> ative A gh Use) (-8.0) (+2.5)	e (highli CH Alterna (Low 7.2 3.4	ghted in r ative B v Use) (-14.1) (+3.2)	ed) Altern (Mode 13.3 0.4	ative C prate Use) (-8.0) (+0.2)
Showing Diffe Travel Use Category O A M	Current Use Alternative 0.2 0	nt Use A R(Altern (Hig 13.3 2.7 0	Alternative DAD GULC ative A gh Use) (-8.0) (+2.5) (0)	e (highli CH Alterna (Low 7.2 3.4 0	ghted in r ative B v Use) (-14.1) (+3.2) (0)	ed) Altern (Mode 13.3 0.4 0	ative C rate Use) (-8.0) (+0.2) (0)
Showing Diffe Travel Use Category O A M B	Current Use Alternative 21.3 0.2 0 0	nt Use A R(Altern (Hig 13.3 2.7 0 0	Alternative <i>OAD GULC</i> ative A gh Use) (-8.0) (+2.5) (0) (0)	e (highli CH Alterna (Lov 7.2 3.4 0 0	ghted in r ative B v Use) (-14.1) (+3.2) (0) (0)	ed) Altern (Mode 13.3 0.4 0 0	ative C rate Use) (-8.0) (+0.2) (0) (0)
Showing Diffe Travel Use Category O A M B E	Current Use Alternative 21.3 0.2 0 0 0 0 0.8	nt Use A R(Altern (Hig 13.3 2.7 0 0 0 5.8	Alternative <i>OAD GULC</i> ative A gh Use) (-8.0) (+2.5) (0) (0) (+5.0)	e (highli CH Alterna (Low 7.2 3.4 0 0 5.5	ghted in r ative B v Use) (-14.1) (+3.2) (0) (0) (+4.7)	ed) Altern (Mode 13.3 0.4 0 0 0 6.9	ative C rate Use) (-8.0) (+0.2) (0) (0) (+6.1)
Showing Diffe Travel Use Category O A M B B E F	Current Use Alternative 21.3 0.2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	nt Use A R(Altern (Hig 13.3 2.7 0 0 0 5.8 0 0 0.4	Alternative <i>OAD GULC</i> ative A gh Use) (-8.0) (+2.5) (0) (+5.0) (0)	e (highli CH Alterna (Lov 7.2 3.4 0 0 5.5 0	ghted in r ative B v Use) (-14.1) (+3.2) (0) (0) (+4.7) (0)	ed) Altern (Mode 13.3 0.4 0 0 6.9 0	ative C (-8.0) (+0.2) (0) (+6.1) (0)

1 Table 8-15: Miles by Alternative and Travel Use Categories for Grape Creek Subunit

- 2 Showing Differences from Current Use Alternative (highlighted in red)

		GRAPE CREEK					
Travel Use	Current Use	Alternative A		Alternative B		Alternative C	
Category	Alternative	(Hig	h Use)	(Lov	v Use)	(Mode	rate Use)
0	3.3	3.3	(0)	1.2	(-2.1)	3.3	(0)
Α	0	0	(0)	0	(0)	0	(0)
Μ	0	0	(0)	0	(0)	0	(0)
В	0	0	(0)	0	(0)	0	(0)
Ε	25.7	26.7	(+1.0)	5.7	(-20.0)	26.7	(+1.0)
F	0	0	(0)	0	(0)	0	(0)
AA	10.6	5.5	(-5.1)	5.5	(-5.1)	5.5	(-5.1)
CL	6.6	12.0	(+5.4)	9.7	(+3.1)	12.0	(+5.4)
UC	1.3					-	
Showing Diffe	liles by Alternative a erences from Curre	nt Use A <i>CUS</i>	lternative TER COU	e (highli NTY	ighted in r	ed)	
	erences from Curren Current Use	nt Use A <i>CUS</i> Alterna	lternative <i>TER COU</i> ntive A	e (highli VNTY Altern	ighted in r ative B	ed) Alterna	ative C
Showing Diffe Travel Use Category	current Use	nt Use A <i>CUS</i> Alterna (Hig	lternative <i>TER COU</i> htive A h Use)	e (highli 2NTY Altern (Lov	ighted in r	ed) Alterna (Moder	
Showing Diffe Travel Use Category O	Current Use Alternative	nt Use A CUS Alterna (Hig 0.6	Iternative TER COU htive A h Use) (+1.3)	e (highli NTY Altern (Lov 0.6	ative B v Use) (+1.3)	ed) Alterna (Moder 0.6	ative C rate Use) (+1.3)
Showing Diffe Travel Use Category O A	Current Use Alternative 0	nt Use A CUS Alterna (Hig 0.6 0	Iternative TER COU ntive A h Use) (+1.3) (0)	e (highli NTY Altern (Lov 0.6 0	ative B w Use) (+1.3) (0)	ed) Alterna (Moder 0.6 0	ative C rate Use) (+1.3) (0)
Showing Diffe Travel Use Category O A M	Current Use Alternative 0 0	nt Use A CUS Alterna (Hig 0.6 0 0	Iternative TER COU ntive A h Use) (+1.3) (0) (0)	e (highl NTY Altern (Lov 0.6 0 0	ative B v Use) (+1.3) (0) (0)	ed) Alterna (Moder 0.6 0 0	ative C rate Use) (+1.3) (0) (0)
Showing Diffe Travel Use Category O A A M B	Current Use Alternative 0 0 0 0	nt Use A CUS ² Alterna (Hig 0.6 0 0 0	Iternative <i>TER COU</i> ntive A h Use) (+1.3) (0) (0) (0)	e (highl NTY Altern (Lov 0.6 0 0	ative B w Use) (+1.3) (0) (0) (0)	ed) Alterna (Moder 0.6 0 0 0	ative C rate Use) (+1.3) (0) (0) (0)
Showing Diffe Travel Use Category O A M B B E	Current Use Alternative 1.9 0 0 0 0 0	nt Use A <i>CUS</i> Alterna (Hig 0.6 0 0 0 0 0 0	Iternative TER COU ntive A h Use) (+1.3) (0) (0) (0) (0) (0)	e (highl NTY Altern (Lov 0.6 0 0 0 0	ighted in r ative B w Use) (+1.3) (0) (0) (0) (0)	ed) Alterna (Model 0.6 0 0 0 0 0	ative C rate Use) (+1.3) (0) (0) (0) (0)
Showing Diffe Travel Use Category O A A M B B E F	Current Use Alternative 0 0 0 0 0 0 0 0	nt Use A <i>CUS</i> Alterna (Hig 0.6 0 0 0 0 0 0 0 0 0	Iternative TER COU ntive A h Use) (+1.3) (0) (0) (0) (0) (0) (0)	e (highlight) <i>NTY</i> Altern (Low 0.6 0 0 0 0 0 0 0 0 0	ative B v Use) (+1.3) (0) (0) (0) (0) (0) (0)	ed) Alterna (Moden 0.6 0 0 0 0 0 0 0 0 0	ative C rate Use) (+1.3) (0) (0) (0) (0) (0)
Showing Diffe Travel Use Category O A A M B B E E F AA	Current Use Alternative	nt Use A <i>CUS</i> Alterna (Hig 0.6 0 0 0 0 0 0 3.6	Iternative TER COU ntive A h Use) (+1.3) (0) (0) (0) (0) (0) (0) (0)	e (highli NTY Altern (Lov 0.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ighted in r ative B w Use) (+1.3) (0) (0) (0) (0) (0) (0) (0)	ed) Alterna (Moder 0.6 0 0 0 0 0 0 3.6	ative C rate Use) (+1.3) (0) (0) (0) (0) (0) (0) (0)
Showing Diffe Travel Use Category O A A M B B E F	Current Use Alternative 0 0 0 0 0 0 0 0	nt Use A <i>CUS</i> Alterna (Hig 0.6 0 0 0 0 0 0 0 0 0	Iternative TER COU ntive A h Use) (+1.3) (0) (0) (0) (0) (0) (0)	e (highlight) <i>NTY</i> Altern (Low 0.6 0 0 0 0 0 0 0 0 0	ative B v Use) (+1.3) (0) (0) (0) (0) (0) (0)	ed) Alterna (Moden 0.6 0 0 0 0 0 0 0 0 0	ative C rate Use) (+1.3) (0) (0) (0) (0) (0)

Appendix 16 United States Fish and Wildlife Letter



United States Department of the Interior

FISH AND WILDLIFE SERVICE Ecological Services Colorado Field Office 755 Parfet Street, Suite 361 Lakewood, Colorado 80215

IN REPLY REFER TO: ES/CO: BLM/RoyalGorge Mail Stop 65412

NOV 2 3 2004

Mr. Roy Masinton Bureau of Land Management Royal Gorge Field Office 3170 East Main Street Canon City, Colorado 81212

USDI-BLM. T.C.FO 的 29 10. STAFF Field Mgr Assoc.Field Mg Pub. Aft. Ren-Res Non-Ren-Res Support Serv. Fire Mgr.

RECEIVED

Dear Mr. Masinton:

The U.S. Fish and Wildlife Service (Service) received your letter of October 21, 2004, regarding the proposed Arkansas River Travel Management Plan in Fremont, Chaffee, and Custer counties, Colorado. You requested a list of Federal endangered and threatened species that may exist in the project area. These comments have been prepared under the provisions of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 et. seq.).

The Service has no specific knowledge of the project site; however, enclosed is a list of Federal endangered, threatened, proposed and candidate species, by county, in Colorado. The list for Fremont, Chaffee, and Custer counties can be used as a basis for determining species potentially present in the project area.

While other species could occur at or visit the project area, endangered or threatened species most likely to occur include:

Birds:	Bald eagle, Haliaeetus leucocephalus, Threatened Mexican spotted owl, Strix occidentalis lucida, Threatened
Mammals:	Canada lynx, Lynx canadensis, Threatened Black-footed ferret, Mustela nigripes, Endangered
Fish:	Greenback cutthroat trout, Oncorhyncus clarki stomias, Threatened

The Service also is interested in the protection of species which are candidates for official listing as threatened or endangered (Federal Register, Vol. 61, No. 40, February 28, 1996). While these species presently have no legal protection under the ESA, it is within the spirit of this Act to consider project impacts to potentially sensitive candidate species. It is the intention of the Service to protect these species before human-related activities adversely impact their habitat to a degree that they would

need to be listed and, therefore, protected under the ESA. Additionally, we wish to make you aware of the presence of Federal candidates should any be proposed or listed prior to the time that all Federal actions related to the project are completed. If any candidate species will be unavoidably impacted, appropriate mitigation should be proposed and discussed with this office.

While the Service has no specific knowledge of the presence of these species within the project area, the following may occur in or visit the project area.

Birds: Gunnison sage-grouse, Centrocercus minimus, Candidate

Amphibians: Boreal toad, Bufo boreas boreas, Candidate

Fish: Arkansas darter, Etheostoma cragini, Candidate

1

If the Service can be of further assistance, contact Leslie Ellwood of my staff at (303)275-2383.

Sincerely,

terra anchalita

Susan C. Linner Colorado Field Supervisor

Enclosure Colorado List by County

cc: FWS, CFO (L. Ellwood)

Reference: Ellwoodt\Projects\BLM\ArkRivTMPSplist

1	Appendix 17
2	
3	Research References for the Development of Buffer Distances Used in the Arkansas River
4	TMP Route Impact Analysis
5	
6	
7 8	Miller, S.G., R.L. Knight, and C.K. Miller, 1997. Influence of Recreational Trails on Breeding Bird Communities. Colorado State University, Department of Fishery and Wildlife Biology.
9	
10	Beier, P., S. Loe, 1992. A Checklist for Evaluating Impacts to Wildlife Movement Corridors.
11	Wildl. Soc. Bull. 20:434-444
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APPENDIX 18

RESPONSES TO PUBLIC COMMENTS

Arkansas River Travel Management Plan EA

The comment period for the Arkansas River Travel Management TMP EA ran from June 20 to August 3, 2007. A total of 743 individuals and organizations submitted written comments. All of the comments were reviewed by BLM to determine if revisions of the EA an/or Proposed Action were warranted. Comments that simply favored or opposed specific alternatives or those that agreed or disagreed with agency policy without justification were not considered substantive comments. Substantive comments are defined as those that encompass one or more of the following:

- Question, with reasonable basis, the accuracy of information in the EA
- Question, with reasonable basis, the adequacy of the environmental analysis
- Present reasonable alternatives other than those presented in the EA
- Cause change or revision of the proposal

The following is a summary listing of the substantive comments, followed by the BLM's response to them. The comments are not presented here in there entirety but are available for public review in the Administrative Record located at the Royal Gorge Field Office in Canon City, CO.

CommentID	A
General Comment	A large volume of public comments expressed support for trails proposed by the Colorado Motorcycle Trail Riders Association (CMTRA) assessed in Alternative A but not included in Alternative C (proposed action). Many of the comments supported the NO Action alternative, expressed alarm at a perceived loss of access, discounted impacts identified in the BLM's environmental assessment or stressed that rough terrain is desirable for OHV riding experience.
Examples	I support the specific proposals put forth by Colorado Motorcycle Trail Riders (CMTRA) for trail improvements in the Texas Creek Trail system.
	we will ALL lose access to our beautiful state. When we limit some peoples use, it isn't long before we limit all peoples use
	Under these proposed Alternatives, the ratio of "O" trails being closed to other trail types is about 10/1 to 50/1 or more, which is a disproportionate, discriminatory and unfair burden to the 4WD community. Recreational opportunities for 4WD users are being curtailed far more than for any other group.
BLM Response	BLM is not limiting public access to public lands where legal public access exists. BLM is designating a transportation system that balances the need for a variety of recreational opportunities with public land health.
	Designated motorized routes to and through BLM public lands remain extensive under all alternatives in the EA and vary from 219.9, 135.1,to 181.2 miles in Alternatives A, B, and C, respectively (Appendix 15). In addition to the 106.9(A), 43.3(B), and 76.8 (C) miles of designated nonmotorized routes evaluated, foot and horse access to all 244,000 acres of public land is guaranteed by law.
	Fundamental to recreation and travel management planning, BLM Colorado Standards for Public Lands Health and BLM Recreation Management Guidelines also require agency attention to resource protection of soils, animal and plant communities, water, wetlands and riparian areas.
	Alternatives considered in this EA do not reserve exclusive use for any one group, nor does the TMP
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	accommodate for all uses on every acre of land in the planning area. It is entirely appropriate, and BLM policy, that different areas of a planning area provide different opportunities for recreational accesss, and travel designations that sustain resource values in particular locations.
	The proposed action and action alternatives described and assessed within the Arkansas River Travel Management Plan EA reflect and adhere to principals of multiple use management of public lands. Furthermore, Alternatives A, B, and C developed for the EA mirror the varied public input, agency, and partner issues and concerns on this federal land management action.
	Each alternative would provide access for both motorized and nonmotorized users under varied levels and travel network configurations. BLM believes that the Proposed Action (Alternative C) provides a balanced supply of recreational travel access and opportunity in the Arkansas River travel planning area in a manner that is environmentally sustainable over the long term.
CommentID	AA
General Comment	Several public comments questioned whether the "100 foot" parking rule would adversely impact public safety.
Examples	I must say that in general, limiting camping spots to within 100 feet of the road is ridiculous. That puts families and camping gear more in the open instead of up against the trees. It puts them closer to the road making noise in camp much more of a hassle. It also puts families with young children closer to the traffic and dangers that presents.
BLM Response	The "100 foot rule" allows BLM to better control impacts associated with dispersed camping than the "300 foot rule." Page 169 under "Mitigation Common to All Alternatives" Item 8 allows BLM to designate spur routes to appropriate campsites and incorporate them into the travel system.
	routes to appropriate campsnes and incorporate them into the travel system.
CommentID	AAA
CommentID General Comment	
	AAA Some comments questioned travel management allocation differences between user groups in the
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General Comment	AAA Some comments questioned travel management allocation differences between user groups in the proposed action. You have made allotment for more mtn bike routes around Salida but very few more ATV trails. ATV usage is on the rise and additional trails need to be planned. User groups should be expected to share this small resource and not demand and receive special treatment
General Comment	AAA Some comments questioned travel management allocation differences between user groups in the proposed action. You have made allotment for more mtn bike routes around Salida but very few more ATV trails. ATV usage is on the rise and additional trails need to be planned. User groups should be expected to share this small resource and not demand and receive special treatment because of their intolerance.

CommentID	В
General Comment	The largest volume of public comments expressed support for travel route designations evaluated in the Proposed Action (Alternative C). The comments questioned impacts to the environment that would result from travel route designations identified in Alternative A.
Examples	I like the idea of designated routes and seasonal & temporary closures when conditions merit it.
BLM Response	BLM recognizes and appreciates your public comment and support for recreational travel designations and impact assessment documented in the Arkansas River Travel Management Planning Environmental Assessment and Proposed Action (Alternative C). BLM agrees that travel route designations identified in Alternative A would adversely impact riparian areas, soils, and presently unfragmented wildlife habitat in Fernleaf Gulch. Guidelines for further route construction under such routes as S-1 are identified in Appendix 6.
CommentID	BB
General Comment	One public comment recommended designating High Mesa Grassland Natural area as "closed to motorized use"
Examples	Alternative not considered: Consider closing: High Mesas Grassland Research Natural Area by changing the designation to "closed to motorized use."
BLM Response	BLM's proposed action maintains administrative use of system roads in the High Mesa Grassland for resource management, monitoring, and general access into these public lands. Traffic in the area is low (less than 1-2 vehicle trips/year). BLM closely monitors this area for evidence of noxious weed spread to protect sensitive plant communities.

CommentID	BBB
General Comment	One comment questioned the adequacy of indirect impact analysis on riparian systems. This comment is generally answered, but is followed up by a more specific tread width impact discussion.
Examples	The EA underestimates the impact of the proposed alternative on riparian areas.
BLM Response	BLM RGFO did analyze indirect impacts from travel ways, as well as their cumulative impacts upon riparian resources in its evaluation of the three Alternatives. Page 71 describes that much of BLM riparian resources are along small first or second order tributaries. BLM experience with these riparian areas is that they are very narrow. In order to explore indirect affects to these small systems, BLM expanded analysis of routes for inclusion out to a 100 ft from the edge of riparian in addition to analysis of routes that are directly within riparian habitat.
	Indirect impacts are also explained in other sections of this document but explained in detail by reference in BLM Travel Management documents. Pg. 73 cites regional indirect affects from travel routes discussed in the Gold Belt and other Travel Management Plans. Pg. 75 also discusses indirect affect of routes upon waterways. Pg. 72 highlights route disturbances in dry channels which are then further evaluated in the Water Quality Section and that they have cumulative impacts to the larger Arkansas River. Virtually all routes yield a negative route-and-water interaction that is known to upset the delicate water and sediment balance of overland flow and erosive processes that indirectly can affect riparian function (given a reasonable proximity to a stream). The tables merely serve as a display of routes that run directly within and those reasonably adjacent (indirect) to riparian areas. Habitat fragmentation, increased erosion, storm runoff, altered flow regimes, and the commenter's other points are addressed within this document; often repetitively, in the Wildlife section, Water Quality, Hydrology and other sections. Table 6-3 is meant to present an array of analysis of most to least impacting Alternatives', but does not reflect all known indirect impacts. Riparian resource protection played a critical role in developing all Alternatives thus yielding the relatively subtle direct impact differences between them. It should be clear however that any of the alternatives do affect riparian resources.
	In an attempt to resolve remaining uncertainty relative to this topic, additional clarification about this comment was sought and hopefully obtained by BLM in a discussion of 11/20/2007 with Mr. Aaron Clark of the BLM's Resource Advisory Committee. In addition to the cumulative effects analysis described above, more specifically, there is concern that the BLM analysis of routes, and Alternative, under-represents cumulative effects because routes changed to a lessor impacting route designation, (e.g. a four wheel drive route changing to a motorcycle, bicycle, horse, foot trail) may not always physically on the ground become narrower. At least without actual trail work to narrow the tread. For example trail users may continue to use the entire width and ride side by side. BLM acknowledges that during analysis an assumption was made that the trail width would become narrower. This assumption is based upon largely empirical evidence by staff that observe this occurs during inventory of routes and there is a general tendency that they do narrow once downsized, but the commentator is correct that this is not always correct, or there is variation in the rate of change. BLM's assumption however is combined with the hopeful plan that in cases where this is not as likely to occur naturally (e.g. dry sites/poor soil conditions for regrowth of vegetation) that funding obtained for the implementation of the Travel Management Decisions would be used to accomplish a narrower trail width with techniques such as rock placement, scattering of forest debris, and tread obliteration. It is probable that some locations will remain larger (i.e. more acres of trail remaining) than the analysis would assume. BLM will watch for these locations and attempt to apply special remedy. BLM hopes that because the relative difference between Alternatives, whereby there are riparian resources affected that these can be easily selected and have special management applied.

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CommentID	СС
General Comment	A couple of public comments addressed trail use and maintenance standards
Examples	BLM should adopt strict specific and measurable trail use and maintenance standards
	adaptive management strategies that will allow for changes in types and times of use if trail standards are not met.
BLM Response	Trail use is dictated by the specific route designation; for example, on a route designated Open to All Motorized Use, any motorized vehicle is permitted while on a route designated for motorcycle use larger motorized vehicles like ATVs would be prohibited. Likewise, it would be illegal for motorized vehicles to use non-motorized routes.
	Trail maintenance standards depend upon the type of trail, intensity of use and other factors. BLM intends to maintain routes through a variety of methods including using appropriated funds, developing partnerships, and pursuing grants. BLM has the authority to implement management changes as needed.

CommentID	D
General Comment	One public comment addressed impacts of the Arkansas Travel Management proposed action on recreational target shooting, off road game retrieval, and BLM coordination with civic organizations defined in the BLM Sportsman Roundtable.
Examples	The reason for the restriction, as stated in the EA, is that the Forest Service is currently proposing such restrictions for parking and camping in its TMP, and Colorado BLM wants to be consistent with the Forest Service rule.
	By proposing to include game retrieval in the parking and camping restriction, it would appear that the BLM is not being consistent, but is in fact broadening the restriction beyond that of its sister agency.
	Because no further information is provided in the EA, it is not known to what degree game retrieval contributes to unauthorized OHV routes.
	The NRA is not aware that the Royal Gorge Field Office brought its concerns about recreational shooting to the attention of the BLM Washington Office which participates on the Roundtable.
	The EA raises the issue of user conflicts. If areas are designated for recreational shooting, why should there be user conflicts? Just as trails are created for hiking or sites are designated for camping, are areas set aside specifically for recreational shooting to avoid conflicts? The EA states that gunfire at the areas proposed for closure are disruptive to other recreationists and nearby residents. We suspect that recreational shooting had taken place in these areas long before other recreationists came along, and people began building homes on the boundary lines. What is BLM's plan if other recreationists and residents complain about the increase in gunfire at other shooting areas? Does the BLM have a management plan for recreationists and residents?
	The NRA requests that the BLM delete the shooting closures from the TMP and, instead, initiate a separate process to examine the recreational shooting issues under the umbrella of the MOU.
	Unless we can forge a partnership to identify problems and solutions, the NRA is very concerned that every reason the EA gives for closing the 27,000 acres could be used to close every acre left open by the TMP.
BLM Response	The BLM initiated the Arkansas River Travel Management Plan in 2003 when US Forest Service parking regulations for camping, wood gathering, and game retrieval was 100 feet. USFS modified these regulations from 100 feet to vehicle width in the previous year. BLM maintains discretion to define parking rules consistent with the USFS along the Front Range.
	The proposed target shooting closures involve less than 3000 acres of public land in a planning area that encompasses 240,000 acres of public land still open to target shooting. The BLM is not presently considering target shooting closures in other areas. A new developed public shooting range that handles pistols, rifles and shotguns has been developed within the past year north of Salida adjacent to the county landfill and can adequately handle much of the displaced shooters around Salida. Hazardous material and public safety issues associated with concentrated target shooting in the increasingly urbanized vicinity of Salida, can be more effectively managed at such a public facility.
	The target shooting closure defined in the proposed action is supported by Chaffee and Fremont counties as well as the Front Range Resource Advisory Council and represents fundamentally reduced threat to public safety than the current situation at Salida and Turkey Rock. The number of shooters affected at Turkey Rock is much less that the area south of Salida Monitoring by BLM personnel will be done around both areas to watch for problems.
	BLM is not making recreational shooting a victim of illegal dumping. There is an enormous amount of trash left behind from target shooters in the Salida and Turkey Rock areas, including spent shells, targets, pop cans, etc. A sub-set of recreational target shooters occasionally bring large items to public lands, including washing machines, TVs, computer monitors etc. to dump on BLM and use as targets. Most times other illegal dumpers bring out the large items which are then used by recreational shooters as targets. Sometimes the trash left from shooters attracts other trash dumping.
	BLM has met with shooters and other users on some of the sites we have proposed to close. In one case, north of Canon City on Dinosaur Flats, BLM closed a portion of the area and kept some of it open for
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	shooting. The purpose of the Colorado Front Range Sport Shooting Memorandum of Understanding (MOU) that was signed in July, 2007 is to develop safe, sustainable shooting opportunities for shooters. This group is comprised of Federal and State agencies as well as numerous sportsmen's organizations. This group was formed was in response to the closures of shooting areas on both USFS and BLM lands where problems such as safety, resource damage, adjacent homes, etc were encountered . NRA, as well as the Colorado State Shooting Association were invited to join this group to be part of a proactive solution to the shooting closures. Both invitations were declined. The signatories to the Colorado Front Range Sport Shooting MOU are presently working on developing new shooting ranges in response to public concern over shooting closures.
	BLM does not designate areas for recreational shooting. BLM administers public land under legal requirements that include inventory and clean-up of hazardous material as well as liability issues that prevent the BLM from managing concentrated target shooting on public land.
	BLM complied with public notification requirements of the National Environmental Policy Act and informed signatories of the Federal Lands Hunting, Fishing and Shooting Sports Roundtable MOU of the published EA by email in June 2007. Response received from the public interested in target shooting verifies the success of BLM public participation. BLM also worked closely with signatories of the The Colorado Front Range Sport Shooting MOU, a local initiative patterned after the Federal Lands Hunting, Fishing and Shooting Sports Roundtable MOU. Signatories to the latter. include BLM, USFS, Colorado Division of Wildife and sportmans organizations.98 The latter group was organized to respond to public lands issues associated with concentrated target shooting, including public safety. The Colorado Front Range Sport Shooting work group leverages on-the-ground knowledge and develops workable solutions at the local level. BLM helped form this group and signed the MOU in July, 2007. NRA was invited to join this group and declined
	The proposed BLM shooting area closures at Salida and Turkey Rock were discussed at several public meetings, in news releases and at several different meetings of the Colorado Front Range Sport Shooting Work group between 2003-2007. BLM formed this group – so we can meet each other and discuss issues like shooting problems and hopefully identify solutions. It is not too late. We are inviting you to join our MOU once again.
CommentID	DD
General Comment	One public comment addressed shared Colorado Division of Widllife concern for OHV damge to wildlife habitat and shared law enforcement of OHV road and trail use on public lands
Examples	the Colorado Division of Wildlife, is well aware of the issues with damage to public lands by OHVs and has been meeting with concerned sportsman and organized OHV groups to formulate legislation for the 2008 session that will allow our officers to assist in the enforcement of BLM and Forest Service travel management regulations. CDOW, sportsmen and responsible OHV users recognize the damage irresponsible OHV users are causing.
BLM Response	BLM will welcome state assistance in enforcement of travel management decisions to reduce OHV damage on the public lands in the planning area.
CommentID	EE
General Comment	One public questioned whether prospectors will be required to adhere to route travel designations adopted in Arkansas River Travel Management Planning.
Examples	I am a amateur prospector and use ATV's to transport equipment to and from potential mining sites as well as sampling potential sights. Is you management plan going to restrict my ability to prospect? Utility ATV's do little to no damage to the environment.
BLM Response	All public will be required to stay on designated roads and trails under Arkansas River Travel Management decisions.

CommentID	F
General Comment	Several public comments addressed BLM road and trail management on designated OHV routes to protect soil resources from damage during wet weather.
Examples	Motorized travel should be restricted to designated routes, and even these should be subject to temporary closures when weather or the season warrants it.
BLM Response	BLM identified soils impacts from the route designations in Alternatives A. B, & C and No Action in the environmental consequence section. BLM maintains management discretion to enforcer wet weather closures on all roads and trails when soil conditions warrant such management to prevent resource damage.
CommentID	FF
General Comment	One public comment questioned the amount of easier mountain bike trails in the Proposed Action (Alternative C).
Examples	There are many expert &/or high altitude trails in the area, but seems to be a shortage of beginner/intermediate trails close to town.
BLM Response	This issue was brought to BLM's attention by Salida Mountain Trails and was considered in the development of the alternatives in the TMP. BLM considered mountain bike trails proposed on BLM lands the "S" Mountain area and BLM lands south of town adjacent ot powerline road. Guidelines for new mountain bike trails are defined in Appendix 7
CommentID	G
General Comment	Several members of the public questioned the rationale and need to close areas of the public land to recreational target shooting and expressed concern that adverse impacts to public lands, such as trash dispersal, would result.
Examples	EA assumes there are many GOOD places to use firearms. Any change in land use by the BLM should not include closing ANY land to target shooting or hunting. Target shooting and hunting are among the safest outdoor activities in Colorado.
	With open private land use becoming less common due to the actions of a small percentage of individuals it is most necessary to keep tracts of land such as BLM holdings openly available to all who wish to use the commodity.
	It is imperative, that the people of this great country, are afforded the opportunity to continue marksmanship training, whether by legal hunting or target shooting activities
BLM Response	Recreational target shooting can occur on public lands in the majority of the travel management planning area. Identifying specific alternative areas for this activity would only encourage concentrated target shooting activity in these areas. As a matter of policy, BLM does not designate areas for target shooting. Proposed target shooting closures on public lands near Salida and Howard is BLM's response to public safety issues in those areas. Risk to life and property associated with concentrated target shooting on public land adjacent to densely populated or high recreation use areas is the environmental context and concern.
	The intensity of proposed target shooting closure over current conditions is 1% of public lands acreage in the planning area and less than 0.2% of surface area managed by BLM Royal Gorge Field Office. Under BLM travel management planning proposal (Alternative C), 99% of public lands in planning area will remain open to recreational target shooting. No public lands are proposed for closure to licensed hunting. BLM's experience in the Gold Belt area is that dispersing recreational target shooting activity creates fewer impacts (trash, noise, user conflicts) than concentrating target shooting activity in smaller areas.

CommentID	GG
General Comment	Several comments addressed the impact of OHV designations on game retrieval and herd management.
Examples	I realize that the 4 wheelers and motor cycles are tearing up the country and that you have to do something about it. But remember there is another side to it. The elk are taking over the area. If you stop hunters from using 4 wheelers to get their kill, they won't hunt. Then we have more elk eating up the country.
BLM Response	The CDOW is responsible for managing elk herds in Colorado. The objective for elk herds in the area covered by the TMP is within CDOW objective's. There are areas where there is a distribution problem and elk are causing localized problems. BLM does not believe that limitations placed on the use of ATV's will lead to a reduction in harvest. Recent USGS research in Gunnison County on OHV traffic and elk herds verifies anecdotal evidence that elk move away from roads and heavy use areas, potentially making them less available for harvest. BLM believes that a reduction in roads, trails, and extent of traffic will facilitate an increase in harvest and a more enjoyable experience for the vast majority of sportspersons. Limiting the use of ATV's for game retrieval will not affect a majority of hunters.
CommentID	GGG
General Comment	One public addressed the need for BLM to forcibly acquire rights-of-way to prevent access closures by private individuals to public lands
Examples	d. If numbered roads and trails are open and available, then fines should be high and heavy for violators who are creating new or using unnumbered trails.
	BLM should get congressional authority to require right-of-ways for all existing roads to cross or come within 150 feet of BLM land. This will prevent a landowner from closing the road or building their road to within a few feet of the property line and then preventing access via "dead-end" driveway.
	Problem Target Shooting: If target shooting is a concern, the BLM should designate special target shooting areas in each subunit. This way target shooting can be limited to safe terrain area that can be selected to minimize environmental impact and yet be conveniently located enough so people will use them.
BLM Response	BLM realty authorizations are governed by Congress. The current action is a Travel Management decisions authorized under BLM Colorado guidelines and under the Federal Code of Regulations at 43 CFR 8340.
CommentID	НН
General Comment	One public suggested isolating OHV use to public lands with low resource value.
Examples	If the BLM's mandate permits motorized recreation, it should be confined to the lowest value, most closely supervised areas under the agency's control.
BLM Response	BLM assesses and compares resource values but does not assign a specific "value" to public lands. For example, the eroded terrain in the Castle Garden area south of Salida has limited forage value for many wildlife species or domestic livestock but sustains viable populations of a globally rare plant specie, Erigononum brandegii. Coincidentally, steep dropoffs and eroded terrain in the area have also attracted motorcycle, 4x4, mountain bike use, as well as trash dumping, all of which threaten this BLM sensitive specie. The agency does not consider lands under it's management as having a "lowest" value. More common scenarios under BLM's land management jurisdiction are situations of competing resource values, including recreational travel.

CommentID	ННН
General Comment	One public questioned the closure of the trail Minesweeper.
Examples	#570
	4x4 trail known as Minesweeper, and is known nationwide
BLM Response	Minesweeper occurs in a wetland-riparian system that has experienced recovery over the last few years. BLM believes that a vegetated drainage is key to mitigating rapid sediment runoff in an area adjacent to Colorado Highway 50.
CommentID	I
General Comment	Some comments critized OHV designations in Alternatives A, B, and C as restricting recreational travel on public lands by older and/or disabled people.
Examples	Proposal impacts recreation opportunities for disabled people
	Being a handicapped person you are taking away my ability, which I have had for many years, to enjoy public lands with my family. I and my family support the NO Action Alternative.
	As public lands are used extensively for seasonal hunting in this study area, I would like to address access for hunters that are very young, very old, and infirmed. I don't feel you have given sufficient consideration for motorized access for these people to these areas.
BLM Response	Alternative C maintains a variety of recreation opportunities. Motorized access in and of itself does not constitute recreation opportunities for disabled persons. There are a wide range of disabilities and a wide range of personal preferences for recreation among people with disabilities. Alternative C provides individuals with mobility related disabilities (and who wish to use an OHV) to have access to many different areas and experiences.
CommentID	П
General Comment	Several public comments addressed BLM consistency with USFS parking rules as a driver in travel management decisions.
Examples	I request that the BLM follow the USFS Pike-San Isabel's lead on eliminating the road buffer. The current proposed road buffer is in contradiction with their "designated routes only" goal.
BLM Response	BLM's analysis shows that reducing the allowance for off-route travel for camping, parking and other uses from 300 to 100 feet would reduce impacts. BLM has the authority to further restrict off-route travel if the "100 foot rule" is not sufficient to protect resources.
CommentID	J
General Comment	Some public comments expressed concern that travel route designations would adversely impact game management and game retrieval on public lands.
Examples	Impacts to game management - the weight of game retrieval requires the use of a vehicle for this purpose.
BLM Response	In the past BLM off-road activities have been limited to existing roads and trails only. Therefore the retrieval of game with a motorized vehicle has never been allowed off an existing road. BLM is now moving to a system of designated roads and trails for off-road use. Moving to a system of designated roads and trails will not change the ability of hunters to access game off road, it will still be illegal to do so. In addition BLM believes this restriction affects a relatively small number of hunters. The topography in the Arkansas River TMP area is extremely rough and rugged and in most areas motorized access off road is difficult.

CommentID	11
General Comment	Several public comments addressed the need for adequate law enforcement
Examples	** All of this will just be a piece of paper –or reams of paper- without an on the ground enforcement presence. Currently we have only one officer to cover Canon City to Leadville! He is very able and active, but is eligible for retirement. Plan for a replacement and reinforcements.
BLM Response	BLM agrees that law enforcement is vital to successful travel management. However, law enforcement is only one aspect of travel management implementation. Signs, maps, education, on the ground closures (fences, barriers), partnerships with user groups, and other methods are important tools for effective implementation.
CommentID	КК
General Comment	Public comments questioned the impact of game retrieval and OHV damage to public lands.
Examples	The frequency of game retrieval by OHV is almost microscopic in relation to other activities allowed on public land.
	BLM should highly consider requiring OHV owners to register their OHV with the Federal Government and dedicate that revenue for resources to monitor public lands more closely. Again, please do not prohibit off highway vehicles (OHVs) from retrieving game on public lands. Closing off public lands is not the answer!
BLM Response	Hunting is a common and widespread recreational use of public lands within the Arkansas River TMP area and motorized off route travel for game retrieval does impact public lands. In the past BLM off-road activities have been limited to existing roads and trails only. The retrieval of game with a motorized vehicle has never been allowed off an existing road. BLM is now moving to a system of designated roads and trails for off-road use. Moving to a system of designated roads and trails will not change the ability of hunters to access game off road. It will still be illegal to do so. BLM believes this restriction affects a relatively small number of hunters. The topography in the Arkansas River TMP area is extremely rough and rugged and in most areas motorized access off road is difficult.
	It is beyond the authority of BLM to require OHV owners to register with the Federal Government and to impose Federal taxes on OHVs. The development and passage of legislation is the business of Congress. BLM (part of the Executive Branch) executes laws and does not make them. The State of Colorado does require OHV registration.

CommentID	L
General Comment	
Examples	We strongly question whether motorized recreation impacts can be mitigated by designating more routes, effectively attempting to solve the problem by dilution. This would inevitably lead to transferring of these impacts to other areas which are currently unimpacted.
	BLM should consider whether 100 feet off designated routes may lead to unnecessary and undamaging proliferation of dispersed campsites in a particular area.
	S-1 motorcycle route would involve entirely new construction in a drainage outside of the current Texas Creek motorized Area
	A-1 would traverse wetland and steep terrain and would create an enforcement problem.
	S-2 and A-3 routes would impact wetlands and riparian areas in Fernleaf Gulch
	An open Bear Gulch Road will create WSA trespass enforcement issues and trespass
BLM Response	BLM agrees that dilution of OHV impacts is not the answer. BLM believes that linking OHV areas together leads to the fragmentation of wildlife habitat. BLM is committed to preventing fragmentation of habitats when possible. Wildlife does better in larger blocks of undisturbed habitat rather than smaller fragmented pieces. Habitat fragmentation is considered to be the greatest threat to biological diversity. Determining when a road or trail causes habitat fragmentation and how it contributes to a reduction in biological diversity is extremely difficult. Nevertheless, protecting large, undisturbed areas of wildlife habitat was considered when decisions were made concerning travel management in the Arkansas River travel planning area. Preventing fragmentation maintains wildlife movement corridors. Corridor use by wildlife is influenced by topography, vegetation, species of interest and nearby human activities. A wildlife corridor should serve to provide for several functions such as providing wide-ranging animals an opportunity to travel, migrate and meet mates, allow plants to propagate, provide for genetic interchange, allow for populations to move in response to environmental changes, and to allow for individuals to recolonize habitats. Corridors are needed to maintain connectivity among formally contiguous habitats.
	BLM's analysis shows that reducing the allowance for off-route travel for camping, parking and other uses from 300 to 100 feet would reduce impacts. BLM has the authority to further restrict off-route travel if the "100 foot rule" is not sufficient to protect resources.
	S-1 trail will only be analyzed when and if the proponents provide BLM with a detailed proposal.
	BLM regularly monitors the Upper and Lower Grape Creek WSAs in the vicinity of the West Bear Gulch Road and has seen very little evidence of illegal motorized trespass in this area. Closure of the West Bear Gulch Road would make it more difficult for BLM to monitor the WSAs.

CommentID	NN
General Comment	A couple of public comments questioned the public participation followed by BLM.
Examples	Your short comment period "without" public meetings appears you intend to run this program throught without thorough public meetings to fine tune the alternatives
	Your process is severly flawed and you should take a step back, show us your reasoning for your closure decisions, hold public meetings and let us respond.
	I am suggesting you extend your comment period and change your approach to receiving public input. Anything less reflects negatively on your office and BLM as a public land administrator.
BLM Response	BLM EPA public participation completed through the course of the Arkansas River Travel Management Plan Environmental Assessment (EA), extending from the Notice of Intent publication in the federal registart in June, 2006 to public meetings in February, 2007, is documented in the EA on pp.186-187.
	BLM provided news releases of the EA in June, 2007. Media articles on the EA appeared in The Gazette, Denver Post, Mountain Mail, Canon City Current and Channel 13 News in June 2007. BLM released the EA for a 45-day public review period on June 20,2007. Printed copies of the EA were distributed to members of the public who participated during scoping and partner agencies. Printed copies of the EA were distributed to public libraries in Salida, Canon City, Florence, Pueblo, Colorado Springs, and Denver. Digital copies of the EA were provided to the public at public meetings in Salida and Canon City on 6/20/2007 and 6/21/2007 respectively. Digital versions of the EA and maps were made available on the internet on 6/21/2007.
	BLM does not discriminate against older hunters by not allowing the retriveal of game with ATV's. BLM believes that hunters should only hunt in areas where they can enjoy the sport within the confines of the laws and regulations that happen to be in place for the area. If ATV's are restricted in some areas then hunters should find places where there are no restrictions in place if they wish to retrieve game with an ATV.

CommentID	Р
General Comment	A number of public comments questioned direct impacts of proposed motorcycle trials practice areas at Turkey Rock under Alternative C.
Examples	I can see turkey rock from my home in the acres of ireland subdivisionin howard and hear bikes. I rarely see trial bikes in the Turkey Rock area and do not support extending time/dates open to trial bikes.
	Repeated cross country travel by all recreational users, motorized orquiet, can and has had devastating effects on the lands in our area.
	Members of our group have concerns about the opening of the open travel Trials area near Turkey Rock. We feel this sets an inconsistent precedent with the rest of the plans restriction to open cross country travel. Quiet users frequently use this area also, and feel like they will be displaced and negatively impacted by noise and dust if the low level of motorized use in this area increases. We would like to suggest restricting the hours of motorized use at this site to perhaps 10 a.m 5 p.m. as a compromise to lessen the conflicts.
BLM Response	Since 1992, BLM has approved and monitored 14 trials bike Special Recreation Permits at Turkey Rock. The number of predicted and/or measured sport trials bike visitors at each event, including staff, riders, and spectators, has ranged from 37-89 and averaged 66/yr, according to BLM records. BLM assessed two proposed year-round designated trials bike practice areas in the EA (Maps 2-4), as proposed by Colorado Motorcycle Trail Riders Association.
	The public is correct that motorcycle trials bike events at Turkey Rock have been a BLM approved periodic event, under Special Recreation Permitting, with periodic and localized, but short-term noise impacts since 1992. Modifications to the EA were made in response to this comment under Affected Environment, Environmental Consequence, Cumulative Effects, Mitigation and Noise
	p.135 - BLM added the following information to the EA: " The town of Howard and property owners adjacent to BLM lands at Turkey Rock have experienced direct noise impact on a periodic basis from 14 BLM permitted motorcycle trials bike events since 1992."
	p.135 - Added following information to EA: Table 10.1: Measured (+) and predicted (-) visitation (staff + guests) at Turkey Rock motorcycle trials bike events permitted on BLM lands, Howard, CO, 1992-2006.
	p.136 - Added following analysis to EA: "Short-term, direct seasonal noise impacts from BLM approved motorcycle trials bikes events at Turkey Rock would impact the town of Howard and adjacent property owners, on average, once a year under the No Action Alternative, assuming RMTA application and continued BLM approval of Special Recreation Permits."
	p.137 - Added following analysis to EA: "Under Alternative A, short-term, direct seasonal noise impacts from BLM approved motorcycle trials bikes events at Turkey Rock would impact the town of Howard and adjacent property owners, on average, once a year, assuming RMTA application and continued BLM approval of Special Recreation Permits. The designation of an open trials bike practice area at Turkey Rock could extend direct noise impact to the town of Howard and adjacent property owners beyond single permitted events to a year-round noise source. Year-round noise impacts from motorcycle trials bike practice near the source at Turkey Rock would likely be sporadic and less intense than trials bike events, assuming participation is limited by drive time to Turkey Rock during weekdays. Noise-levels, and potentially user-conflict, could be higher on weekends when trials bike users travel to Turkey Rock from origins more distant such as Colorado Springs and Pueblo."
	p.137 - Added following analysis to EA: "Under Alternative B, short-term, direct seasonal noise impacts from BLM approved motorcycle trials bikes events at Turkey Rock would impact the town of Howard and adjacent property owners, on average, once a year, assuming RMTA application and continued BLM approval of Special Recreation Permits."
	p.138 - Added following analysis to EA: ""Similar to Alternative A, under Alternative C, short-term, direct seasonal noise impacts from BLM approved motorcycle trials bikes events at Turkey Rock would impact the town of Howard and adjacent property owners, on average, once a year, assuming RMTA application and continued BLM approval of Special Recreation Permits. The designation of an open trials bike practice area at Turkey Rock could extend direct noise impact to the town of Howard and adjacent property owners beyond single permitted events to a year-round noise source. Year-round noise impacts from motorcycle trials bike practice near the source at Turkey Rock would likely be sporadic and less intense than trials bike
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	events, assuming participation is limited by drive time to Turkey Rock during weekdays. Noise-levels, and potentially user-conflict, could be higher on weekends when trials bike users travel to Turkey Rock from origins more distant such as Colorado Springs and Pueblo."
	 p.138-139 - Added mitigation - "Mitigation: Mitigations 1-3 would apply to all alternatives. Mitigation 4 would apply to Alternatives A and C. 3.Monitor noise levels of trials bike events and practice area use 4.Develop and apply time of use stipulations for Turkey Rock trials bike practice to reduce noise impacts on adjacent property owners.
	The 52 acres at Turkey Rock designated as motorized off route travel limited to motorcycle trials bikes would be monitored for resource impacts and user conflicts. Nothing in the TMP precludes BLM from implementing additional management controls if resource impacts and user conflicts increase substantially in this area.
CommentID	РР
General Comment	One public comment questioned the impact on emergency response and radio communications to federal and county first responders.
General Comment Examples	

CommentID	РРР
General Comment	One public comment questioned the adequacy of travel impacts analysis on Lynx habitat in the
Examples	The BLM claims that "Decisions in the TMP will have no effect on lynx" (p. 106) but this conflicts with its earlier analysis – decisions could affect lynx, and different alternatives would affect lynx differently. Instead, the BLM should complete a Biological Assessment, make a "may affect" finding on potential impacts of the TMP, and consult with the U.S. Fish and Wildlife Service in accordance with Section 7 of the Endangered Species Act.
	Programmatic Planning Guideline. Determine where high total road densities (>2 miles per square mile) coincide with lynx habitat, and prioritize roads for seasonal restrictions or reclamatio
	Programmatic Planning Objective. Minimize snow compaction in lynx habitat (Ruediger et al. 2000 at 83). Map and monitor location and intensity of snow compacting activities that coincide with lynx habitat, to facilitate future evaluation of effects on lynx as information becomes available (Ruediger et al. 2000 at 83).
	Page 106 of the EA states that all of the alternatives but No Action (which affects more) will impact 6.1 acres of Brandegee wild buckwheat habitat, and that "Some habitat is still impacted because primary BLM access roads and county roads would be not closed and one main trail would be maintained through the habitat." It is unclear why the BLM would choose to leave a main trail open in this area under every alternative. Instead, the BLM should consider the possibility of closing all BLM-managed routes within buckwheat habitat.
	The BLM should clearly cite the research that led to its selection of these buffer distances since they were used to evaluate the amount of disturbance to rare species under each of the alternatives. If dust, pollinator disturbance, and other indirect effects were not considered, the BLM may have greatly underestimated impacts to rare species.
	The BLM should also consider strengthening the Mitigation and Cumulative Effects sections for Threatened/Endangered/Sensitive species. Many more mitigation measures are available than have been considered, including speed limits, dust suppression requirements, management of herbicide and pesticid use, salvage of rare species during road maintenance, commitments to maintain natural hydrology and reroute road sediment, etc.
BLM Response	BLM informally consulted with the US Fish and Wildlife Service and received comments on the TMP on 8/20/2007. Subsequent discussions with Leslie Ellwood (USFWS) resulted in additional language being added to the analysis section (pg 106) to strenghen our determiniton that implementation of the TMP will have no affect on lynx. A very small amount of potential lynx habitat is affected by roads and trails in the TMP area. The habitat occurs in Kerr Gulch where the primary BLM road accesses BLM and USFS land through potential habitat. In all the alternatives the primary access road would remain open to motorized traffic. Therefore, Table 7.4 (pg 103) shows some acres of impacted habitat. The difference between all alternatives is 191 acres and the difference between alternatives consists of several short access roads that extend from the primary road. The Kerr gulch road is a low volume road that dead ends at a trail head on the San Isabel National Forest. The road contains many curves, is one lane in many areas and contains steep gradients all of which required users to maintain very low speeds. A traffic counter was installed during the fall of 2006.
	During the winter months of December 2006 thru March 2007 a total of 249 vehicles were counted (62 p month). From April 2007 thru July 2007 a total of 871 vehicles were counted (217 per month). Slightly higher numbers could be expected during the fall hunting season, however it is reasonable to project a tot of less than 4500 vehicles per year. The low volume of traffic and the low speeds typical of this type of road minimizes the chances of lynx being killed by traffic and demonstrate that the road would not be considered a barrier to lynx movement.
	Winter use of the road is light [January 2007 (24) and February 2007 (19)] as snow makes travel in the area risky. Winter snow pack is not reliable or sufficient for the area to become an attraction for snowmobile use. The BLM does not expect travel volume to increase in the near future on the Kerr gulct road.
	Data from CNHP (Colorado Natural Heritage Program) was used for analysis of impacts to Eriogonum

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	on approximatley 311 acres in this area. BLM TMP decisions closed 6.5 miles of user created roads/trails in buckwheat habitat. Routes left open occur on the edges of habitat and include routes that have been in existence for many years and only affect 6.1 acres (less than 1% of the habitat).
	BLM discussed CNE's comments with CNHP. CNHP believes that conservation of the plant will be accomplished with the restrictions that BLM can place on the area. The 6.1 acres of habitat affected occur on the edge of the population and not in the center of the population. BLM is committed to managing the routes in habitat using informational signs, fences, barriers and other methods to prevent future impacts to the plant and to prevent possible encroachment into the core area of habitat.
	BLM agrees that the Mitigation Section of the EA could be strengthened as it related to rare plants. We will add to the EA (pg 107)the following language: Other potential mitigations to prevent affects to rare plants include implementing speed limits, requiring dust suppression, managing herbicide and pesticide use, maintaining natural hydrology and rerouting road sediments in sensitive areas.
CommentID	рррр
General Comment	Public comments questioned whether the proposed 100 feet parking restrictions in Alternative C would effectively reduce resource damage.
Examples	We feel the plan perhaps does not go far enough in allowing travel 100 feet off routes for dispersed camping. As this use becomes more popular, this opens a loophole for the creation of more user created routes.
BLM Response	BLM agrees off-route travel has negative effects natural resources such as soils and water.
	BLM's analysis shows that reducing the allowance for off-route travel for camping, parking and other uses from 300 to 100 feet would reduce impacts. BLM has the authority to further restrict off-route travel if the "100 foot rule" is not sufficient to protect resources.

CommentID	Q
General Comment	One public comment questioned whether the EA considered OHV volume and change in the Proposed Action. The comment requested clarification on Administrative Use. The comment questioned the time allowed for public comment.
Examples	1) A plan should predict the changes in use over time, such as which uses are growing, and how this growth will be dealt with (Increased riding opportunities?). I see nothing in your "Plan" that does either. A "Plan" should recognize the aging population and their trends in outdoor recreation.
	2) Given the vast amount of time it took the BLM to compile these "Plans", the comment period was grossly inadequate. While I ride in the area and will continue to do so, it would take months to ride, evaluate and then comment on all the routes in question.
	Any "Plan" should favor groups that are willing to share trails, and should not favor those who demand exclusive use. This "Plan" does not seem to recognize this.
	6) I am not able to determine by the map if the public is able to use all the miles of roads marked as "Administrative".
BLM Response	BLM Response Point 1. The Travel Management Plan considered changes in recreational use over time as a foundation trend and assumption in the environmental analysis (see p.16), on environmental consequences of increased routes and traffic to air quality (p.35), water quality (p.63), wetlands and riparian zones (p.79), aquatic wildlife (p.108), and terrestrial wildlife (p.117). Analysis of recreation use trends in the EA forms the basis of affected environment discussion and and impacts of travel management decisions on achieving and sustaining recreation settings and providing targeted recreation opportunities (p.143)
	BLM Response Point 2: BLM Royal Gorge Field office abides by BLM NEPA guidelines that require a minimum 30-day public review and comment period for an environmental assessment. BLM Royal Gorge Field Office extended the comment period for the Arkansas River Travel Management Plan by an additional two weeks.
	BLM Response Point 6: Definition of Administrative Access (AA) routes on Maps 9,12-14 is defined in Descriptions of the Alternatives on Table 1 - Travel Use Categories (p.22-23); Routes included in the Administrative Access category are not available to the general public for motorized or mechanized uses. AA routes are needed to provide administrative access for BLM personnel and authorized holders of permits and right-of-ways, and will continue to be used for administrative purposes. The routes included in the AA category are not managed for specific recreation uses but, as long as the routes are legally accessible (not blocked by private lands), they are available to the public for foot and horse travel.
	Capacity question - DOT Level of Service; Add reference: JK Bowker, DBK English, HK Cordell, Projections of Outdoor Recreation Participation to 2050

CommentID	QQ
General Comment	Several public comments defined a need for defined winter season OHV riding areas on BLM lands in the planning area
Examples	There are not very many other places to go during the winter and we need more trails and more open access for all users, not less.
	Please leave all trails in the texas creek, cotopaxi, coaldale and howard areas opent to ohv travel. This is our only area for winter riding.
BLM Response	BLM recreational travel is permitted year round on designated routes under the Proposed Action (Alternative C). BLM maintains discretion to temporarily close roads and trails under wet weather conditions to prevent resource damage. BLM traffic data does not show increased winter use. If areas for winter OHV use were in high demand, BLM would expect higher traffic counts and increasing winter use at Texas Creek during the winter months. Traffic counter data collected at Texas Creek shows the lowest levels of use during the winter months (November through March). The level of use during these months has not increased significantly over the past seven years. From 2000-2006, traffic counter data shows the highest levels of use recorded from April through August. For 4 out of those 7 years, July was the month with the highest use.

CommentID	RR
General Comment	Public comments addressed travel management impacts to Wilderness Study Areas and BLM Interim Management Polcy of those areas.
Examples	A related question is to be assured that the US Forest Service and the State of Colorado have been consulted with concerning any consequences your proposed changes might cause in management of adjacent public lands,
	I would however like to see the document (or regulations) make it clear that positive evidence of designation must be on the ground (for example a sign indicating acceptable uses) before the permitted user can proceed.
	I could not find a description of "individual activity plan(s)"; how would these be done (and what level of public input would be accepted) and is there concern that they could compromise the spirit of decisions made in the overall TMP?
	You explain how there are four WSAs within the planning unit but you also note that three of them (Upper and Lower Grape Creek and MacIntyre Hills) were not actually recommended for Wilderness designation (only Browns Canyon was). Can you clarify whether or not that finding has any effect on your obligation to manage these areas as if they were actually legislative wilderness?
	I take note and approve of the proposal's reference to closure (and restoration?) of user-created routes within the existing WSAs; I would appreciate seeing a statement that commits the BLM to taking necessary future management action to ensure such closures are respected.
	I would like to have it clarified whether or not a user is within 100 ft if it is or is not acceptable to create (new) resource damage; if it is not, then your rule would be a powerful tool to ensure that existing dispersed camping sites do not simply grow every year by the 100ft implied by your new regulation.
BLM Response	All designated routes will be signed on site in accordance with Colorado Inter-Agency Travel Managemer Sign Standards. Implementing travel plans includes signs, maps, education, maintenance, construction, reconstruction, closures, field presence, law enforcement, and monitoring. Refer to p. 169, Mitigation Common to All Alternatives.
	All WSA's are managed in accordance with the Interim Management Policy for Lands Under Wilderness Review (IMP) to maintain wilderness values. BLM's recommendation on the area's suitability for wilderness designation does not affect current management.
	The IMP also directs BLM to maintain wilderness values by regularly monitoring WSAs to prevent unauthorized uses, such as motorized and mechanized vehicle use. RGFO regularly monitors all WSAs. Closure of user created routes in WSAs and enforcement of these closures is part of travel management plan implementation.
	RGFO has completed few individual activity plans; however, the activity planning process tiers to existing decisions from the Resource Management Plan and other plans (i.e. Travel Management Plans) that pertait to the area affected by the activity plan. The scope and complexity of the planning effort would determine the level of public input to the process; however, an Environmental Assessment is prepared as part of the process.

CommentID	S
General Comment	Numerous public comments addressed mountain biking trail proposals in the Salida travel planning sub- unit under Alternatives A and C. Two comments expressed concern that BLM designation of mountain bike trails leading to USFS lands will impede natural resource planning and management on adjacent public lands.
Examples	I grew up in Salida and have been biking here since 1989. I am excited to see the BLM going through this plannning process as I believe that land planning is a significant tool for future use patterns. I am encouraged by the emphasis that the BLM has given to public input in the planning process.
	The Salida subunit plan can be pivitol to the continued growth of cycling in the area. As our country moves away from fossil fuel and more people take to cycling as a cost efficient means of transportation there will inevitiably be more avid cyclists that wish to ride in the hills surrounding Salida. Their proximity to the town means that, unfortunately, trails will be expanded and created with or outwith out the BLMs blessings
BLM Response	BLM recognizes sport mountain biking and cyclists as an integral, and growing, recreation and mulitple use of the public land in the travel planning area. BLM assessed variations of a non-motorized, single-track trail network in the Salida travel planning sub-unit as proposed by Salida Mountain Trails (Map 6) in Alternatives A and C (Proposed Action) in the EA. Between 2003-2007, BLM discussed the Salida Mountain Trails proposal with partner agencies including USFS, CDOW, Chaffee County, and others.
	BLM assessed all proposed trails in Alternative A and a portion of the trails, excluding the proposed Dead Goat Gulch Loop (S), Sweetwater Gulch Loop (U), and western Little Rainbow (T & R) in Alternative C. BLM evaluated the alternatives referencing BLM Colorado Standards for Public Lands Health (Appendix 5), Desired Future Conditions (p. 13, Appendix 2) for the Salida sub-unit, issues of recreation management and user-conflict, as well as direct, indirect, and cumulative environmental effects of the proposed single- track trails on soils, water, wildlife, air quality as well as other resource values.
	The location and reach of the proposed Dead Gulch and Sweetwater Loops in Alternative A would challenge BLM Colorado Standards for Public Lands Health on animal communities (Standard 3), specifically habitat fragmentation and wildlife movement corridors in the rapidly urbanizing Salida vicinity. Slope, soil substrate, and erosion risk along the proposed western section of Little Rainbow, would also pose direct impact and maintenance costs to ensure that Standard 1 for Upland Soils could be met.
	Conversely, given the location and reach the remaining trails proposed by Salida Mountain Trails, BLM agrees that designation and construction of this non-motorized trail system can meet BLM Colorado Standards for Public Lands Health while providing beneficial recreational, social, and economic value to the people of Chaffee County and beyond.
	BLM accepts the prior need for USFS completion of NEPA environmental review and decision. BLM accepts inter-agency public comment to close segments of those proposed mechanized, single-track trails connected and leading to user-created trails on lands managed by the Salida Ranger District of the San Isabel National Forest until USFS NEPA action is complete. BLM recommends direct Salida Mountain Trails coordination with USFS staff at the Salida Ranger District PSICC on those trails. BLM is coordinating with the Salida Ranger District on trails and roads that connect with the National Forest. BLM has not found adverse impacts on the environment from the segments of those trails that traverse BLM lands following conditions set forward in Appendix 7 of the EA.
	Leah Quesenberry, the Recreational Planner for the BLM Royal Gorge Field Office, met with Mike Sugaski, Forest Service Recreation Planner, Tom Purvis and Larry Kovacic, plus two additional representatives of Salida Mountain Trails on 09/27/2007. Ms. Quesenberry explained to Mr. Sugaski that a letter, to Bill Schuckert, requesting commitment to evaluate mountain bike trails that transverse BLM property but begin and/or end on Forest Service property was forthcoming. Mike felt that without significant pressure and interest from the community this subject would not be considered high priority. The meeting ranked six trails in the following order of priority; Cottonwood and Columbine are top priority, followed by Blood, Guts and King Gulch which are lower priority, to The Cache which isn't really a priority. On 10/12/2007 BLM received formal response from USFS District Ranger William Schuckert requesting BLM deferral of decision on these six mountain bike trail segments until December, 2008. On 11/13/2007 Roy Masinton, Joe Vieira and John Dow consulted Bill Schuckert. The Forest Service requests time to complete NEPA analysis on the segments of those routes that run through Forest Service lands. BLM consulted with Salida Mountain Trails on 11/13/2007 on BLM's need to close those segments until the Forest Service NEPA process is complete.
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SSS CommentID Several public comments addressed specific CMTRA trail proposals and environemental impacts under **General Comment** Alternative A, encouraged wet weather closures Resolving issues with non-maintained county roads is important. However, each route in question should Examples be analyzed as to whether it is really needed for access, particularly if the proposed solution would be incorporating the roads into BLM's system. Closure of the target shooting areas at Turkey Rock and Salida (in both A and C) is a reasonable and necessary action for public safety and reduction of habitat destruction and noise. A-3 ATV/motorcycle trail. I strongly oppose the A-3 trail. Reopening this trail that was closed in 1998 would greatly expand the motorized area beyond the currently OHV open areas, would require rerouting to avoid riparian habitat, and have an adverse effect on wildlife. Maverick Gulch is an important riparian zone, there are at least two springs (Maverick Gulch #1 and #2) that would need additional protection, and the trail would intrude into the bighorn sheep lambing area which is an unacceptable impact on wildlife. Opening this area to motorized travel will reduce the amount of vegetation and increase sediment into the tributaries of the Arkansas River. S-1 Single track motorcycle trail. I very strongly oppose the S-1 trail. Completely new construction of 7.6 miles of single-track trail through an extremely rugged part of East Gulch is just not acceptable. It is clear that the proponents in submitting their proposal had not actually explored the area, and the ruggedness of the terrain is born out by my own brief experience in hiking just a short distance on the upper area, as well as by BLM staff who attempted to trace the route. The expenses and technical difficulty of construction along the purported route would be a very unwise use of resources. In addition it would greatly expand motorized use beyond the current OHV open areas located several miles to the west, and potentially provide access into Big Hole. More important would be the impact on a currently roadless area which is a large core wildlife habitat area that extends eastward into the Big Hole Subunit. Large core areas with low routes density and good wildlife habitat are hard to come by, and with the heavy motorized impact to the west of the main road, it is vital that this area remain intact. As BLM knows, the suggest trail location is in an area proposed for Wilderness in the Wild Ten and Wild Connections Conservation Plan, recommendations that were based on extensive studies of the wilderness qualities, wildlife habitat, riparian resources and quiet recreation potential. S-2 Expert motorcycle trail. I strongly oppose the S-2 trail. Reopening this trail between Reese Gulch and Red Gulch to accommodate a few expert motorcycle riders is not acceptable in light of the inevitable damages to riparian habitat, Fernleaf Gulch environs, water quality and wildlife, including a bighorn sheep lambing area. The extensive mitigation measures that would be needed are very expensive, and in addition this would expand motorized use beyond the current OHV open areas. I support BLM's decision to not include S-2 in Alternative C. Sangres Foothills Subunit BLM routes 1276, 1296, and 1269 in the Sangres Foothills Subunit are often duplicative or short 0 spurs. These are left open in Alternative A, and I believe that the sedimentation from the whole complex of routes in that area is harmful to water quality. I recommend that this decision be reviewed. o BLM route 212 crosses a large sand gulch and deadends at private property. The damage caused by sand play and the potential trespass into private land, as well as less impact on adjacent elk wintering grounds would recommend that this route be closed. I recommend that this decision be reviewed. o BLM route 422 that would be reopened in Alternative A also ends at the private property noted for Route 212 and is located in elk winter range with the potential for wildlife impacts. I recommend that this decision be reviewed. o Alternative A would open 430 and 210 for motorcycle use that have been in the past and would continue to be restricted to administrative use under the Preferred Alternative. These routes duplicate a similar route to the west, both of which are close to the Sangre de Cristo Wilderness, lynx habitat and are located in an elk winter concentration and migration area that will have negative impacts on elk that are

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trying to move to lower elevations.

	 I Support the BLM's decision to close BLM routes 431 and 433 that are near to lynx habitat on BLM lands and in the adjacent Sangre de Cristo Wilderness, and are located in an elk winter concentration and migration area. Road Gulch Subunit The proposed Action Alternative C limits BLM routes 714, 495, 52 and part of 72 to horse use or are
	closed to all use. I support this action and oppose opening these routes to motorcycle use. Their proximity to the McIntyre Hills Wilderness Study Area makes them good candidates for equestrian use, and allowing motorcycles increases the risk of motorized intrusion into the WSA.
	The use of seasonal and temporary closures should be pursued on all travel routes in wet seasons or unusually inclement weather.
BLM Response	Agreements regarding unmaintained county roads would only be pursued where it is critical to the transportation system on public lands.
	BLM concurs on the target shooting closures.
	A-3 trail is not included in the Proposed Action.
	S-1 trail will only be analyzed when and if the proponents provide BLM with a detailed proposal.
	S-2 trail is not included in the Proposed Action.
	Sangres Foothills subunit routesroutes 1276, 1296, and 1269 not included in the Proposed Action.
	Road Gulch subunit routes BLM concurs.
	Seasonal and temporary closures on all travel routes in wet seasons or unusually inclement weather would be costly to implement with negligible benefits to resources. RFGO has implemented several temporary closures in areas where impacts to resources, damage to roads, and visitor safety are important issues. Some, but not all, routes in the Arkansas River TMP may warrant this level of management control.
CommentID	Т
General Comment	A couple of public comments addressed public lands grazing and associated impacts to recreational travel
Examples	One comment I have regarding this area is when horseback riding in the past there were a number of cattle using this area Will this area be open for cattle grazing?
BLM Response	BLM recognizes that grazing is a multiple use of public lands consistent with the Federal Lands Management Policy Act, impacted by, and occuring concurrently with recreational travel. The Arkansas River Travel Management Plan Environmental Assessment (EA) addressed travel management alternatives on grazing or livestock management in the context of affected environment and cumulative impacts concerning road and trail use (p.139).
	The EA identified drivers of noxious weed spread and differences in risk of weed seed dispersal, as measured by route mileage and potential weed establishment from vehicle treads, between the No Action and Alternatives A, B, and C (p.43). Under the Proposed Action, assuming recovery and regeneration of native plant cover along on closed unauthorized routes, BLM projects that the risk of potential weed spread, although not eliminated, would be reduced over the No Action.
	Under the proposed action, grazing permittee use of designated roads and trails will be consistent with off- road motorized travel restrictions in place for the general public. However, grazing permittees will additionally maintain existing motorized travel access for grazing allotment management and operations along designated BLM administrative roads identified in Map 9.

CommentID	TT
General Comment	Several comments defined a need for designation more pedestrian and mountain bike trails in the travel management plan.
Examples	I think the ideal situation would be to preserve a pedestrian and non-motorized corridor along grape creek.
	The rail bed north of Temple Canyon Park to the Ecology park appears significantly more overgrown than the trail south of Temple Canyon Park. The value of a non-motorized connection between the two city parks seems self-evident, and, as you said, nothing in the TMP appears to prohibit the future development of such a connection.
	Establishing a non-motorized corridor along or near the historical rail bed would preserve access through the canyon, and is not without precedent in designated Wilderness areas or WSA's. The BLM policy with regard to WSA's, as I understand it, allows it discretion in creating designated routes that allow bicycle use.
BLM Response	Alternative C provides for a designated trail on public land throughout the Grape Creek corridor. However, BLM does not plan to construct new trail in Grape Creek. The portions of the trail within the Upper and Lower Grape Creek WSAs are open to foot and equestrian use.
	BLM has very limited discretion in designating trails for mountain bike use in WSAs. The Interim Management Policy for Lands Under Wilderness Review (IMP) states, "To foster efficient wilderness management, it is BLM's policy to minimize the establishment of new discretionary uses in WSAs that would be imcompatible with possible wilderness designation, even when the uses would not in themselves exceed the nonimpairment standard." The designation of the trail through Grape Creek for mountain bike use would fall into the definition of a new discretionary use within the two WSAs.
	Further, the historic railroad grade through Grape Creek is not continuous and its designation for mountain bike use would necessitate trail construction and maintenance to prevent resource damage. The IMP states, "No new, permanent recreational ways, trails, structures, or installations will be permitted, except those that are the minimum necessary for public health and safety in the use and enjoyment of the public lands' wilderness values, and that are necessary to protect wilderness resource values."
	The portion of the Grape Creek trail that is open to mountain bikes is from the Ecology Park to the Arkansas River because this is outside of the WSAs and the vegetation and terrain are suited to mountain bike use.

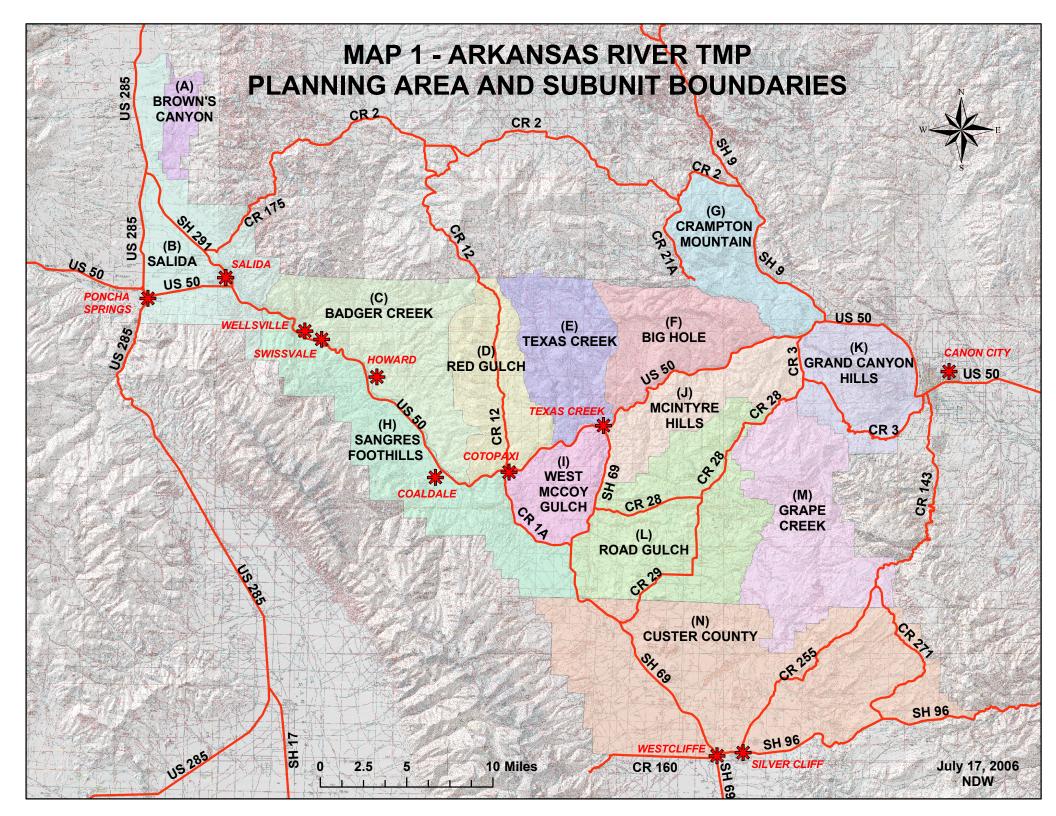
CommentID	U
General Comment	Public comments expressed concern about long-term natural resource damage from OHV recreation on public lands
Examples	I run into many OHV's off the trails and the damage they do takes forever to go away
BLM Response	BLM is clear regarding public concern for off-highway vehicle impacts on soils, water, wildlife, wetlands and other resources on the public lands (see issues and concerns p.7-11, affected environment and environmental consequence sections in the EA, and Appendix 2).
	BLM also recognizes the recreational, social, and economic value that motorized recreation provides to a growing number of the public. In the environmental assessment, BLM considered recreational travel opportunity and environmental impact in 14 geographic travel planning sub-units in the 500,000 acre planning area. Four alternatives were compared to determine where and how motorized use could be accomodated.
	BLM Interdisciplinary Team NEPA environmental assessment and travel network analysis was completed referencing BLM Colorado Standards for Public Lands Health (Appendix 5), BLM Recreation Management Guidelines (Appendix 11), and Desired Future Conditions (DFC's, p.13 and Appendix 2). BLM developed DFC's via public process for specific geographic travel planning sub-units, considering existing, and proposed recreational travel networks.
	Under the Proposed Action (Alternative C), BLM seeks to maintain and augment motorized recreational opportunity in the Texas Creek sub-unit, while also addressing and mitigating direct environmental impacts and user-conflicts via guidelines identified in Appendix 6 of the EA.
	BLM evaluated Colorado Motorcycle Trail Riders (CMTRA) association proposed trails A-1, A-2, A-3, A-5 and S-1 (Map 5) in Alternative A and CMTRA proposed trails A-2 and A-5 in Alternative C to determine the direct, indirect, and cumulative impacts of such an expanded network.
	BLM natural resources staff determined that BLM Colorado Public Lands Health Standards for riparian systems (Standard 2) and animal communities (Standard 3) and Desired Future Conditions for the Texas Creek Subunit could be met under Alternative C but not under Alternative A.
	Specifically indicators for landscape connectivity and habitat fragmentation could not be sustained by the designation of routes A-1, A-3, A-5. BLM determines in this EA that designation, construction, and motorized traffic along said routes would result in encroachment and fragmentation of biologically critical riparian systems and key upland-river deer and elk corridors in the Fernleaf, Maverick, and East Gulches where said proposed routes would be constructed.
CommentID	UU
General Comment	Numerous public comments questioned the impact of parking restrictions and off-road travel on game retrieval and hunter recreation.
Examples	Actually, I would like to see the regs relaxed to allow hunters to drive more than 300 feet off roads to retrieve game. Game doesn't automatically drop within such boundaries, and some hunters, especially older hunters, need to be able to use vehicles to get to the animal.
BLM Response	There are different methods to retrieve game that do not require off route motorized travel.
	BLM is not aware of any research that shows that limiting off route travel by motorized vehicles for game retrieval significantly decreases participation of older, infirm or disabled individuals in hunting.

CommentID	V
General Comment	Public comments expressed concern that OHV designations in the Arkansas River Travel Management Plan Alternative C restrict regional supply of single- and multiple-day motorized riding opportunities. Several public comments referenced closure of OHV riding areas in the Colorado Front Range and cumulative impacts to motorized riding opportunities as a reason to expand motorized trails in the Texas Creek sub-unit
Examples	There are too few areas left now for motorcycle trail riders. So much of the public land in Colorado is now closed to OHV use. I would really like an expanded trail system that would allow more than a day trip.
	With closure of the private land in Pueblo, multi-use access has been seriously dimished in the past year for the many users in the Pueblo and Colorado Springs areas.
BLM Response	Refer to Map 11, Regional Motorized Recreational Areas. The Pueblo Motorsports Park closed 700 acres that was open to dirt bikes and ATVs. Because of its limited size, BLM did not consider the Pueblo Motorsports Park as a significant part of the Regional Motorized Recreation Areas. Route designations in the Proposed Action (Alternative C) and Action Alternatives (A and B) considered in the Arkansas River Travel Management Plan EA would have a neglible impact on total available motorized mileage in the region. The majority of public lands in Colorado are available for motorized recreation. There are several motorized trail systems within the Front Range area. These trail systems provide a variety of trail experiences.
	Providing additional motorcycle trail riding opportunities at Texas Creek was considered and analyzed as part of Alternative A and C. In addition to assessing proposed motorcycle trails in the EA, BLM reviewed regional supply of motorized recreational areas and travel networks on public lands in 8 areas adjacent to the TMP planning area. In response to the public comment, BLM references the hundreds of miles of BLM and USFS system motorized routes in those areas that are presently available for single and multiple day-trips for motorized recreational travel.
	As measured by total available system roads on BLM and USFS lands, BLM does not agree that a scarcity of motorized recreational opportunity exists in the planning region for motorcyclists, ATV/Quad trail riders, or 4x4 enthuisasts. Numerous recreational travel opportunities for motorcycle trail riders remain within a 30-minute drive time from Canon City, Salida, and Buena Vista and a 2-4 hr drive time from population centers in greater Denver, Colorado Springs, and Pueblo.
	The extent and reach of motorized roads and trails in the planning region is publicly available via BLM, USFS, and private map sources. Abundant motorcycle road and trail riding opportunities in central Colorado, including but not limited to those assessed in this EA, remain for public motorized use and may be accessed from Highway 285, 24, 115, and 5.
CommentID	VV
General Comment	Several comments referenced results and conclusions from previous environmental assessment of OHV roads and trails in the Texas Creek area.
Examples	It is also appropriate to create some additional trails and routes to handle increased use where this does no unduly impact the land. However, I see no reason to believe that the 1998 Environmental Assessment for the Texas Creek Trail construction and Maintenance Project (CO-0570980127 EA) was flawed or inaccurate.
BLM Response	BLM assessed natural resource impacts that would result from Colorado Motorcycle Trail Riders Association (CMTRA) proposed trails in the Fernleaf gulch area in the EA under Alternative A. BLM concurs that environmental assessment in the current NEPA action verifies the direct, indirect, and cumulative impacts that were previously documented in the 1998 Texas Creek Environmantal Assessment (CO-057-098-0127). BLM maintains that expansion of the motorized trail system into this sensitive area does not meet the public interest in maintaining Colorado Standards for Public Lands Health

CommentID	W
General Comment	One comment proposed user-fees as an alternative to road and trail closures in Alternatives A, B, and C.
Examples	I am strongly against closing this area to vehicle traffic. I would rather see you impose an access fee on people who wanted to use those roads. While collecting that access fee, you could emphasize the need for people to stay on existing trails. And then use the funds to enforce those rules.
BLM Response	BLM cannot charge fees for access to public lands. The implementation of recreation fees on public lands is guided by the Federal Lands Recreation Enhancement Act (FLREA) passed by the US Congress and BLM Special Recreation Permit policy. At the present time, BLM is not proposing to charge recreation fees at Texas Creek in part, because the area would not meet the requirements for facilities that were established in FLREA.
CommentID	WW
General Comment	One comment questioned BLM's use of the limited to vehicle type designation at Turkey Rock and recommended use of Special Recreation Permits and elimination of Open designation for motorcycle trials bikes
Examples	Limited designation should be applied to designated routes in addition to vehicle types. Turkey Rock should be managed as a Special Recreation Permit site. Trials bike practice area
BLM Response	 BLM presently manages motorcycle trials events as Special Recreation Permits at Turkey Rock. The proposal is to define Turkey Rock as a practice area. BLM contacted BLM Rio Puerco district at considers the the situation at Turkey Rock distinct in terms of area of impact. BLM believes that the reduction of open motorcycle trials bike use to 52 acres at Turkey Rock prevents resource damage from expanding outside that specific area. BLM will monitor resource use and impacts at Turkey Rock and maintains discretion to establish stricter guidlelines should trials bike practice use lead to higher impacts. BLM will work closely with Colorado Motorcycle Trail Riders Association to further define trials bike event and practice routes. However, BLM considers designating vehicle use to motorcycle trials bikes necessary presently to insure that vehicle use over time does not migrate to larger axle vehicles.

CommentID	X
General Comment	Some comments expressed criticism of travel planning networks and OHV area linkages in the Proposed Alternative C.
Examples	Poor job of linking OHV areas together. Short distance trails does not enhance the OHV experience. Linking areas properly together should actually create fewer problems as users have a better area to ride, and less reasons to create new trails.
BLM Response	BLM must balance the demand for all types of recreation opportunities with public land health considerations. Quality of undisturbed wildlife habitat is one such consideration and BLM is committed to preventing fragmentation of wildlife habitat when possible. Colorado's wildlife does better in larger blocks of undisturbed habitat rather than smaller fragmented pieces. Habitat fragmentation is also considered to be the greatest threat to biological diversity. Determining when a road or trail causes habitat fragmentation and how it contributes to a reduction in biological diversity is extremely difficult. Nevertheless, protecting large, undisturbed areas of wildlife habitat was considered when decisions were made concerning travel management in the Arkansas River travel planning area.
	Preventing fragmentation maintains wildlife movement corridors. Corridor use by wildlife is influenced by topography, vegetation, species of interest and nearby human activities. A wildlife corridor should serve to provide for several functions such as providing wide-ranging animals an opportunity to travel, migrate and meet mates, allow plants to propagate, provide for genetic interchange, allow for populations to move in response to environmental changes, and to allow for individuals to re-colonize habitats. Corridors are needed to maintain connectivity among formally contiguous habitats.
	The Fernleaf Gulch drainage between Texas Creek and Red Gulch is one such wildlife corridor. Linking of OHV trails in the Texas Creek and Red Gulch subunits was considered and analyzed in Alternative A but were not included in Alternative C (Proposed Action) due to impacts to resources.
	Many of the existing routes in Texas Creek that remain open to motorized use under Alternative C were user-created routes. In the 1998 EA, some were allowed to remain open and others were closed to protect resources. All routes were analyzed in the current EA.
CommentID	Y
General Comment	Several public comments expressed concern that the Porposed Action (Alternative C) closed all or large portions of the Texas Creek OHV riding area.
Examples	In regards to the recent debate about closing approx. 55 miles of trails in the texas creek area. I respectfully ask you to consider not closing these trails.
	Please don't close down the best trails to motorized traffic.
	While I believe you are doing the right things, I also believe the public lands are just that, and you are strangling use too much. While I do not live in the west, I have visited, and want to again. To say 'no hunting', 'no shooting', is not sane, and not fair.
BLM Response	BLM's proposed alternative (Alternative C) maintains popular motorized routes in the Texas Creek, Kerr Gulch, Road Gulch, Badger Creek, and Crampton Mountain sub-units. BLM's proposed action expands motorized mileage in the Texas Creek and Crampton Mountain sub-units. BLM route designations in Alternatives A, B, and C (Proposed Action) all specify vehicle class including designations and trails that are specific to ATVs and motorcycles (see Map 9 - Texas Creek).
	Alternative C (Proposed Action) proposes 38.3 miles of routes for motorized use in the Texas Creek area. Currently, there are 37.6 miles of routes available for motorized use. BLM's Proposed Action would slightly increase the mileage of routes available to motorized use over the existing condition. Many of the trails proposed for closure in the entire planning area are user-created routes or routes with no legal public access. Some routes would be closed for resource impacts.

CommentID	Ζ
General Comment	Numerous public comments differed with BLM's proposed Alternative C and route designations in the Texas Creek sub-unit, and proposed further mitigations to allow motorcycle trail development into the Fernleaf and Maverick Gulch areas.
Examples	In response to the Arkansas River Travel Management Plan, I support the specific proposals (enclosed) put forth by the Colorado Motorcycle Trail Riders (CMTRA) for trail improvements in the Texas Creek Trail system.
BLM Response	The Texas Creek OHV area encompasses a large area of public land with wide variety of habitat types. Water flows in Fernleaf Gulch, Maverick Gulch, East Gulch and numerous springs, seeps and intermittent creeks are present. Due to the variety of habitats present many wildlife species common in Fremont County are found in this area. This area of public land is one of the last large blocks of public land with relatively little access in the county. This contiguous, unfragmented block of habitat is extremely valuable as wildlife habitat because so few areas remain due to human development on private land and recreational demands on public lands.
	The proposed OHV trail system traverses several habitat types from low elevations to high elevation. Critical elk, deer and bighorn sheep habitat is found in the area. Impacts to wildlife species and habitat can be described as direct or indirect. Direct impacts are those that affect a species or habitat directly: loss of browse due to a trail or road constructed through habitat, streamside riparian vegetation compacted and destroyed from OHV use, etc. Indirect impacts occur when actual damage to habitat is absent. Animals, however, avoid areas of suitable habitat due to the disturbance associated with human uses. Research has demonstrated that roads and trails have an impact on the ability of wildlife to utilize habitat adjacent to these "high use" areas. Wildlife use can be affected within 1/4 mile on either side of an existing road or trail (Perry and Overly, 1977 in "Impact of Roads on big game distribution in portions of the Blue Mountains of Washington, Wash. Game Dept. Appl. Res. Sect., Bull. 11, 39pp, and Rost and Bailey, 1979 in "Distribution of mule deer and elk in relation to roads", J. Wildl. Manage., 43(3):634-641).
	A review of the OHV proposal and a field trip to the area by the Front Range Resource Advisory Council on March 18, 1999 resulted in the following recommendation: "There should be no more roads or trails in the west half of the OHV area which is designated as "limited" use, to protect wildlife habitat and the wildlife" (Front Range RAC Meeting minutes of 3/18/99).



MAP 2 - CURRENT OHV OPEN AREAS AND TRIALS EVENTS AREAS

SAND GULCH **OHV OPEN AREA**

> **TURKEY ROCK TRIALS EVENT AREA**

TEXAS CREEK OHV OPEN AREA



GRAND CANYON HILLS OHV OPEN AREA





10 Miles

Map 3 - Reese Gulch Trials Event Site and Requested OPEN Trials Bike Practice Area

0{{ 11

RIVER

0.2

O

0.4

0.8 Miles

10

10

Legend

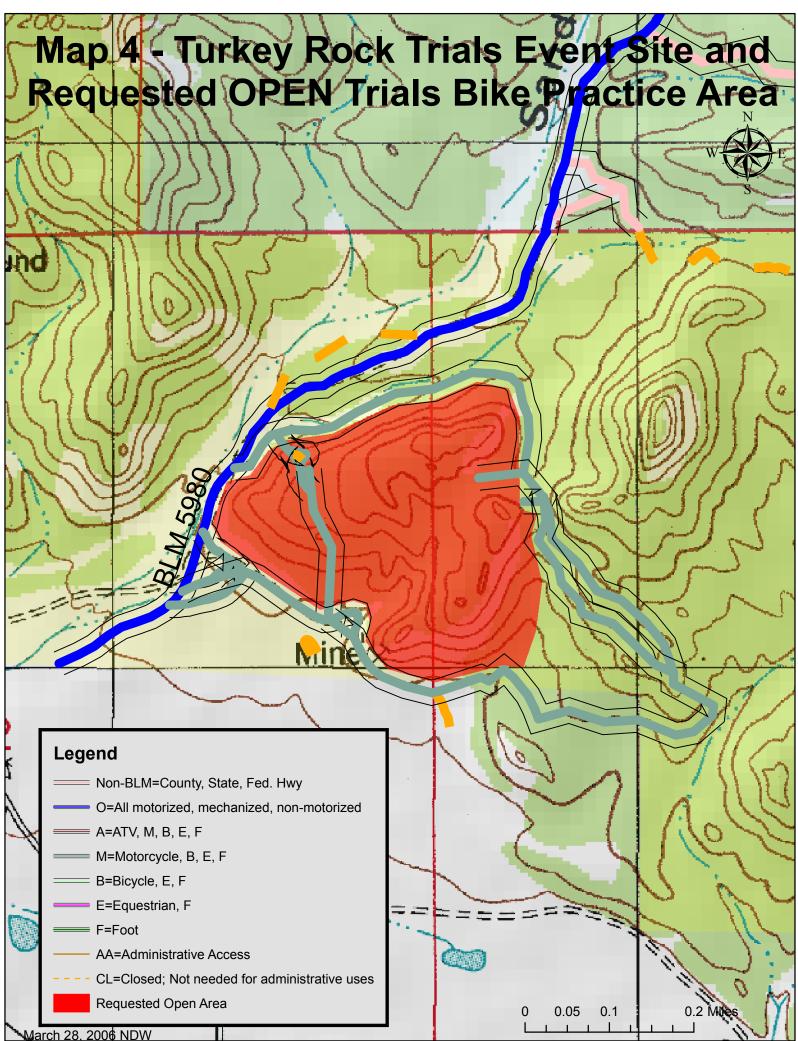
Non-BLM=County, State, Fed. Hwy

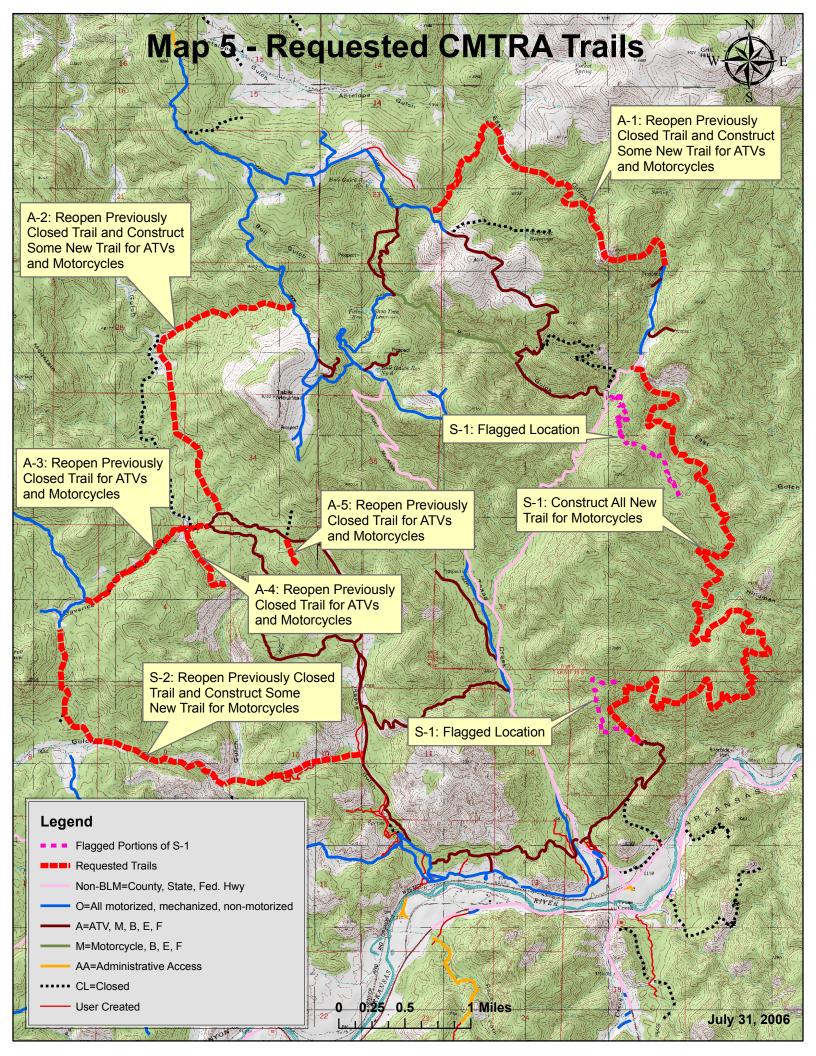
Falls

- O=All motorized, mechanized, non-motorized
- —— A=ATV, M, B, E, F
- M=Motorcycle, B, E, F
- B=Bicycle, E, F
- E=Equestrian, F
- F=Foot

July 28, 2006

- AA=Administrative Access
- - CL=Closed; Not needed for administrative uses
 - Requested Practice Area





Map 6 - Requested SMTPC Trails

S

F

D

SALIDA

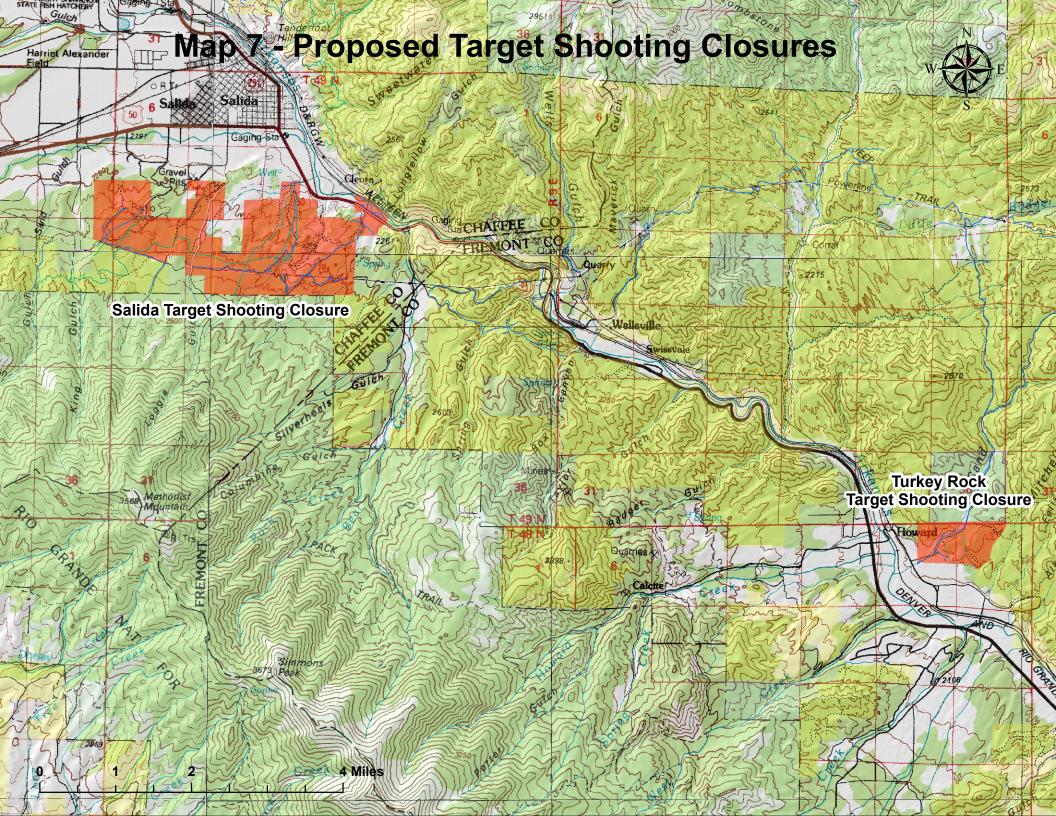


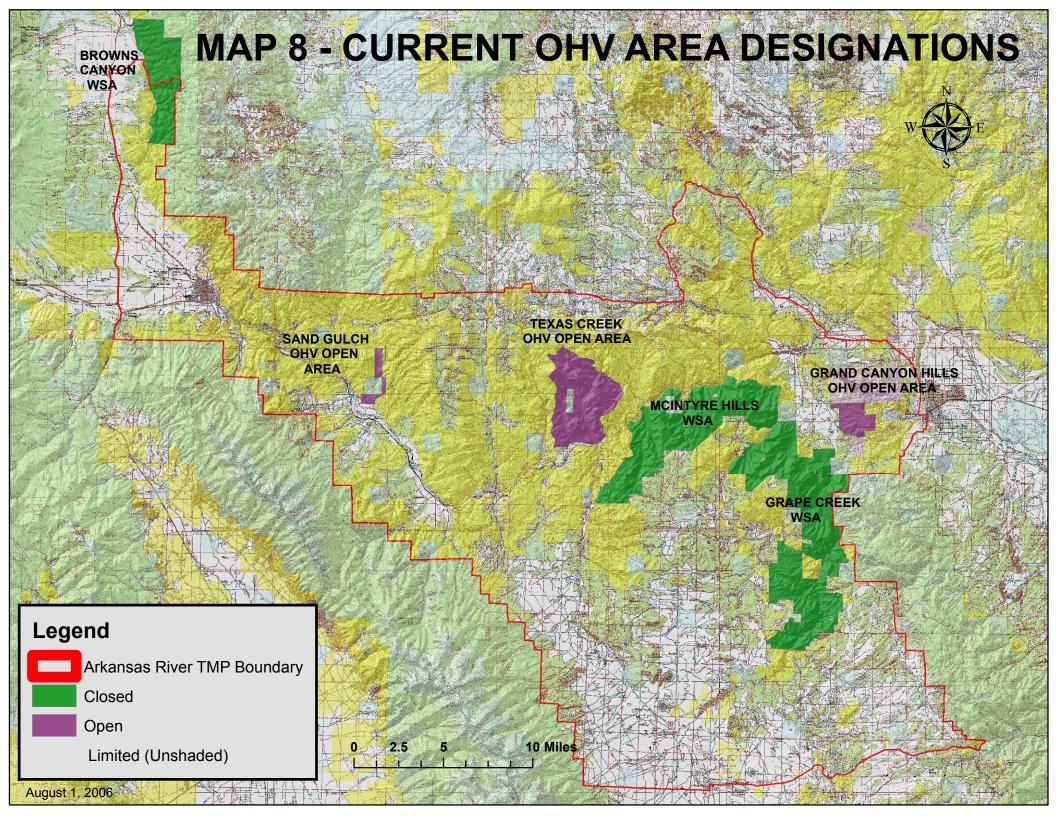
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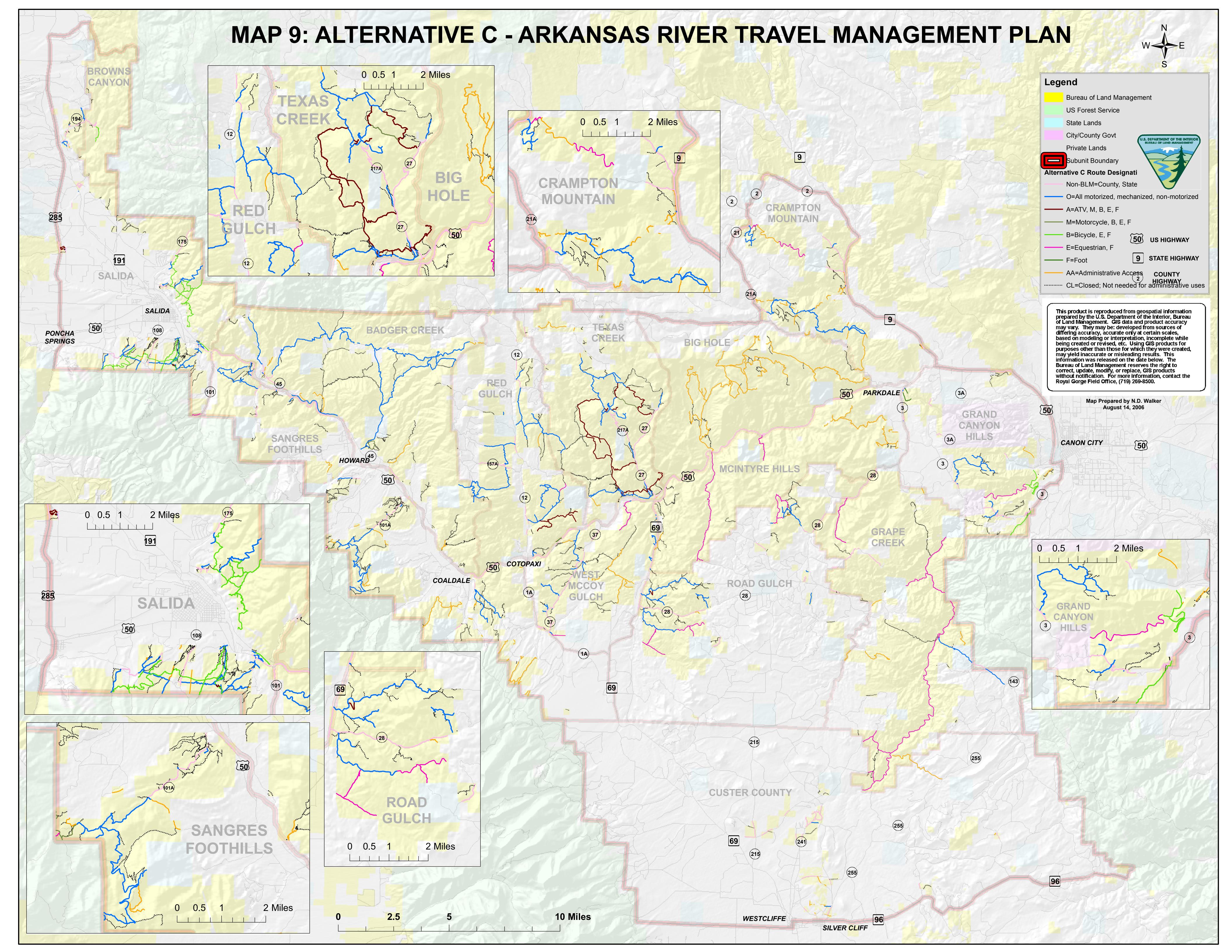
REQUESTED SMTPC TRAILS

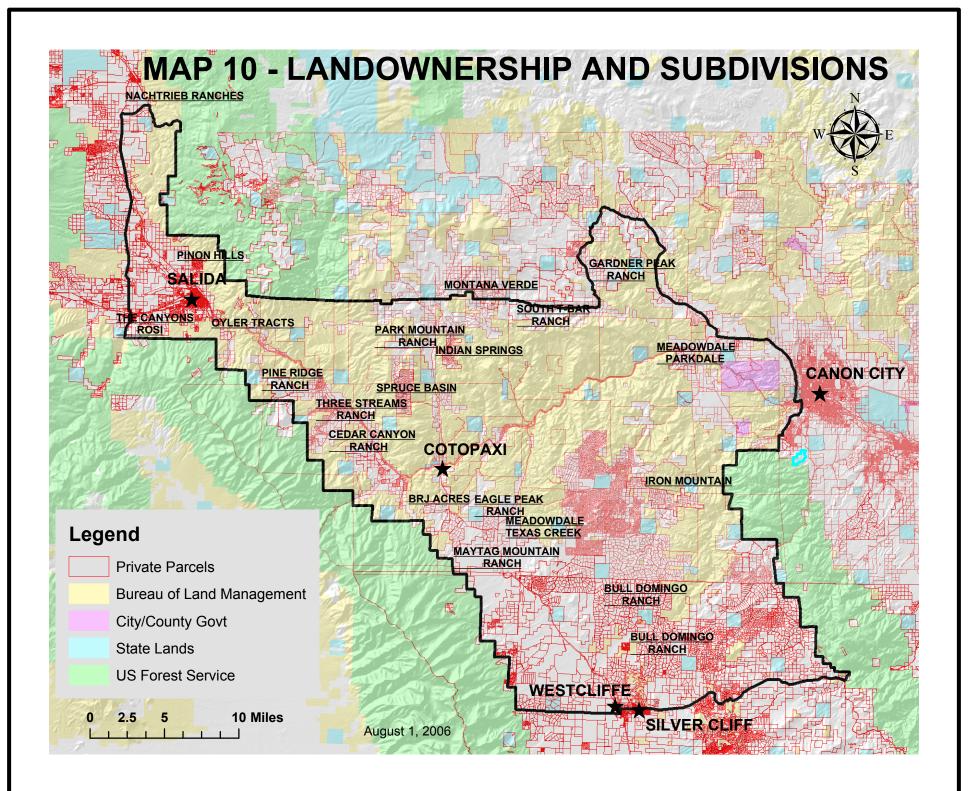
TRAIL_NAME

- A County 110 and Powerline Connector
- C- King Gulch
- D- Lower Cottonwood to Cleora
- E- Lower Cottonwood Gulch
- G- North Backbone
- H- Mid Backbone
- I- South Backbone
- J- North End Guts Trail
- K- Puali
- L- Sand Dunes
- M- Sand Dunes-Uncle Nasty Connector
- N- S Mountain
- O- Uncle Nasty
- P- West Ridge-Castle Garden
- R (NEW)- Advanced Loop
- S (NEW)- Dead Goat Gulch Loop
- T (NEW)- Little Rainbow
- U (NEW)- Sweetwater Gulch Loop
- V- Lost Trail





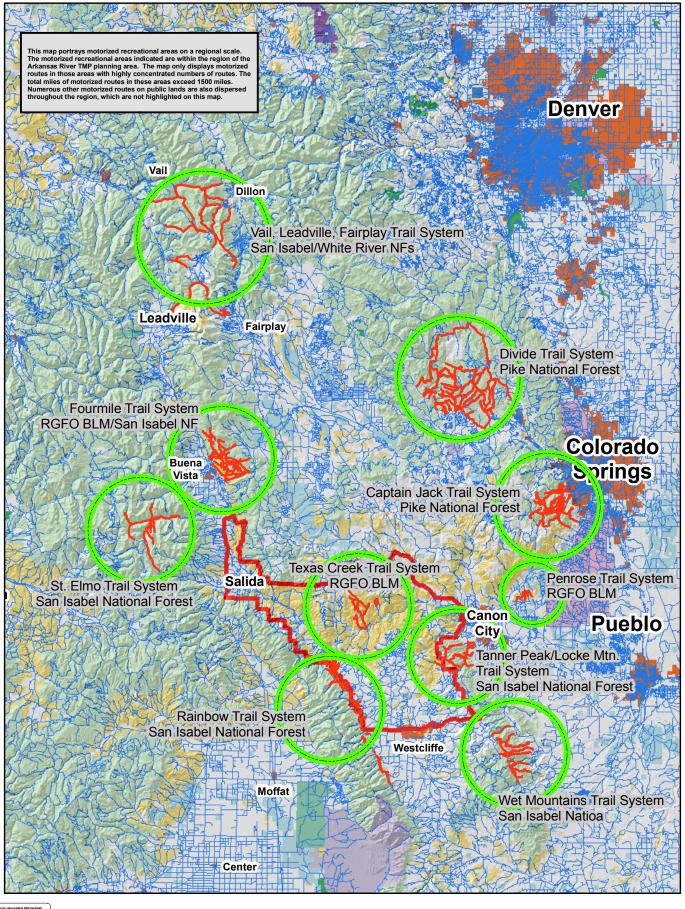


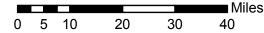


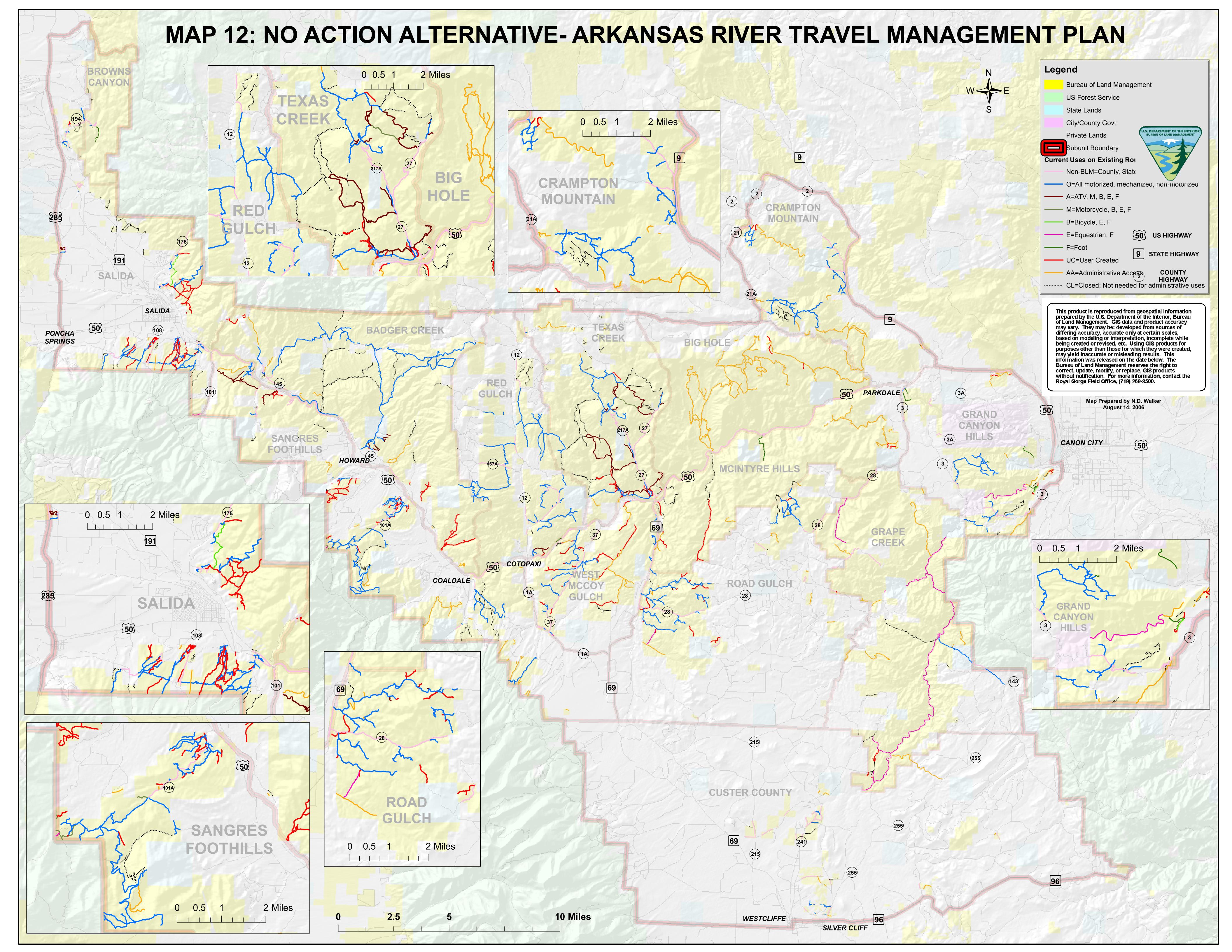


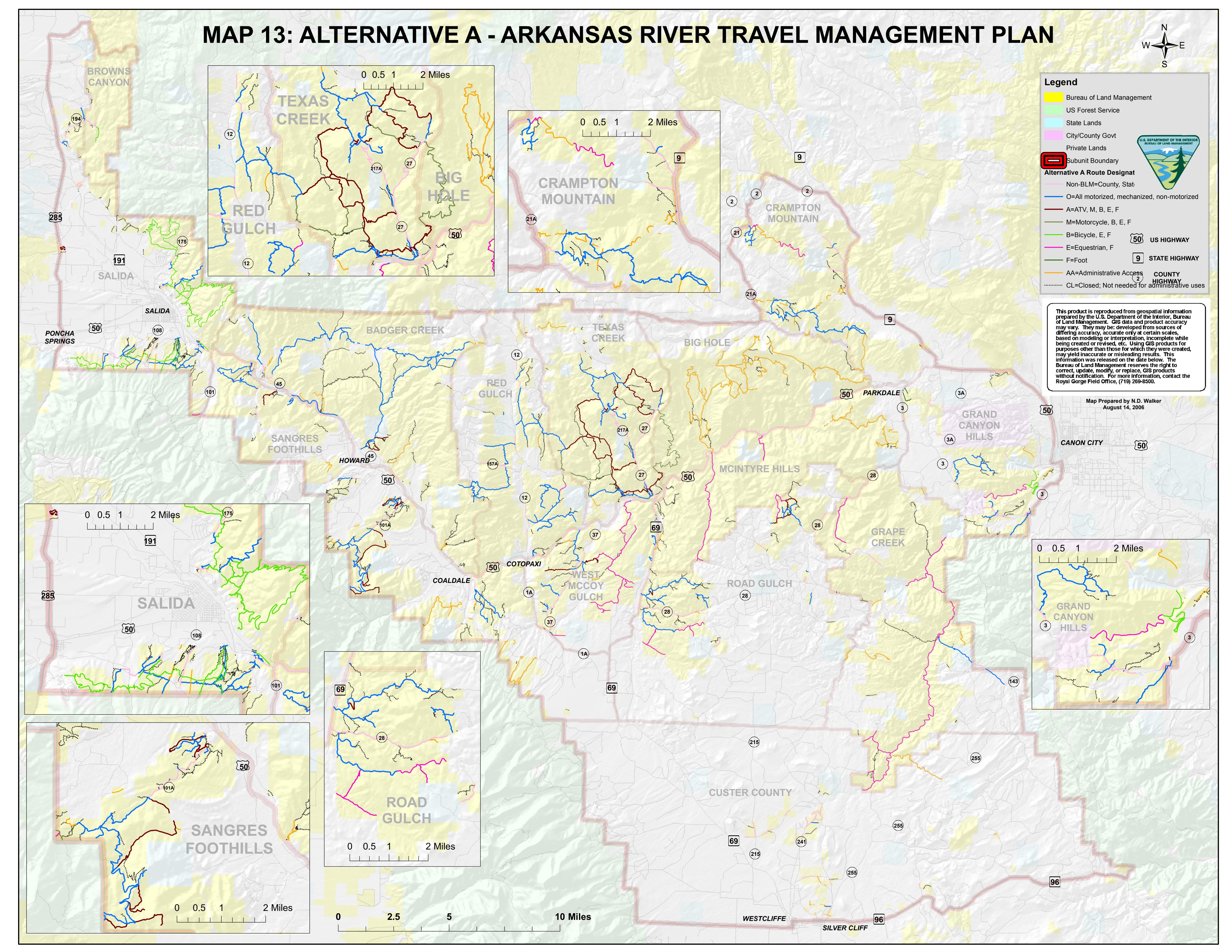
MAP 11 Regional Motorized Recreational Areas Arkansas River Travel Management Planning Area

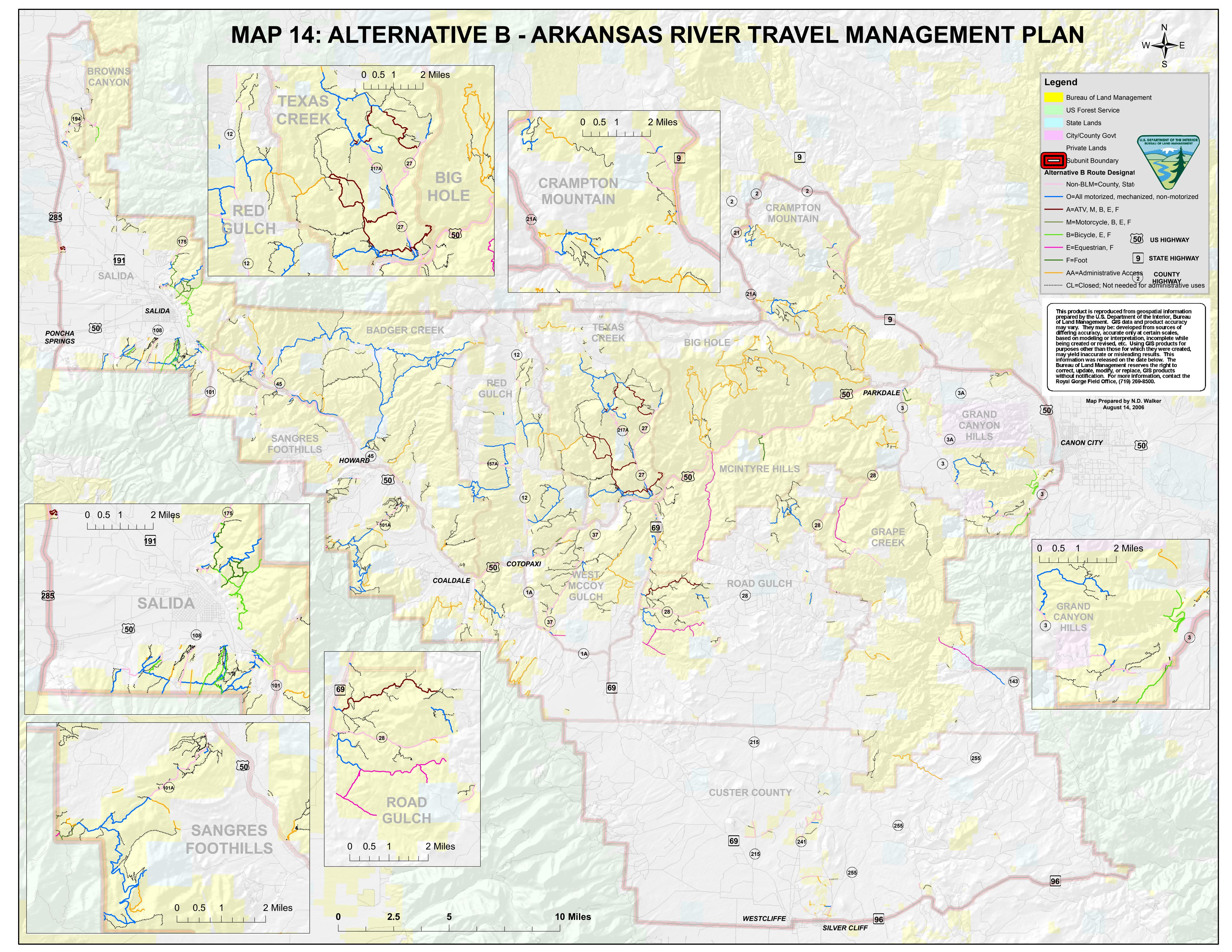


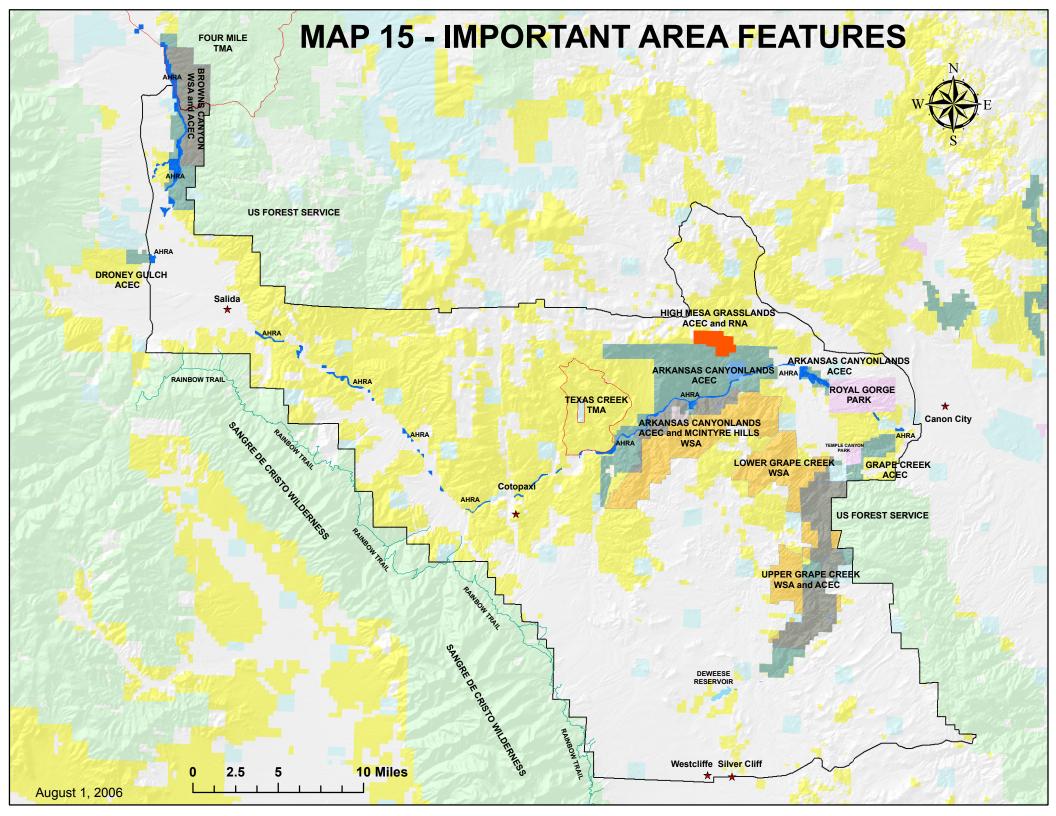


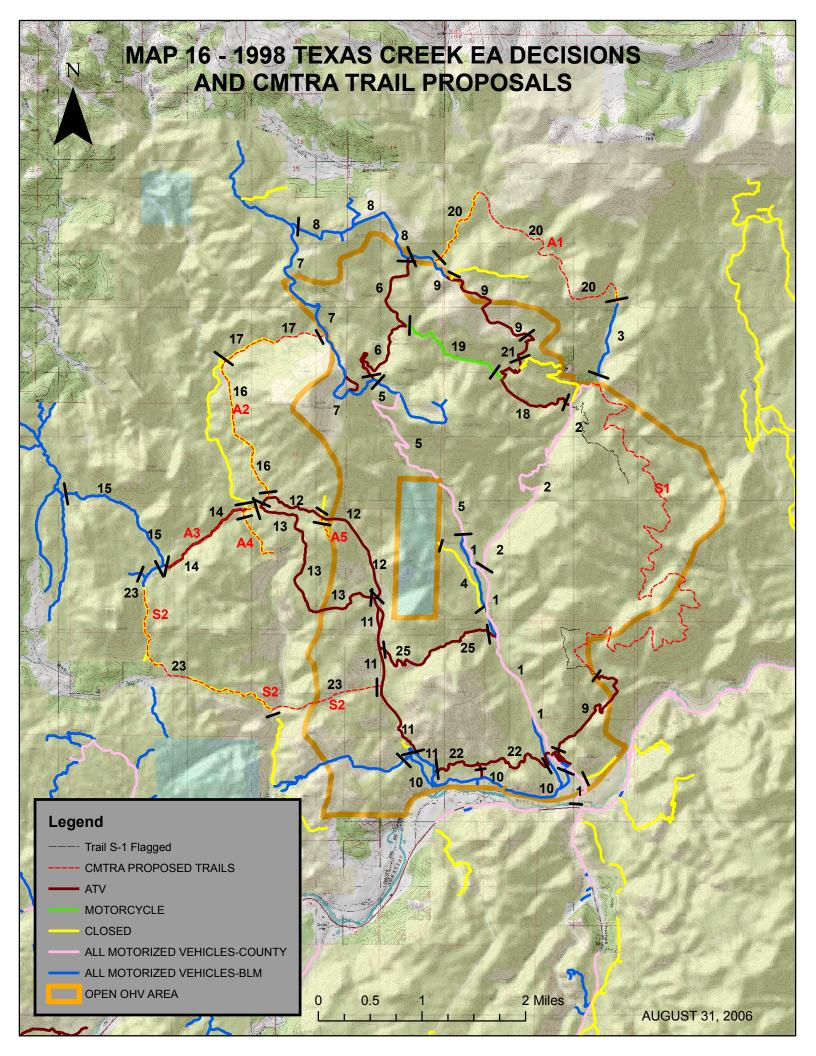


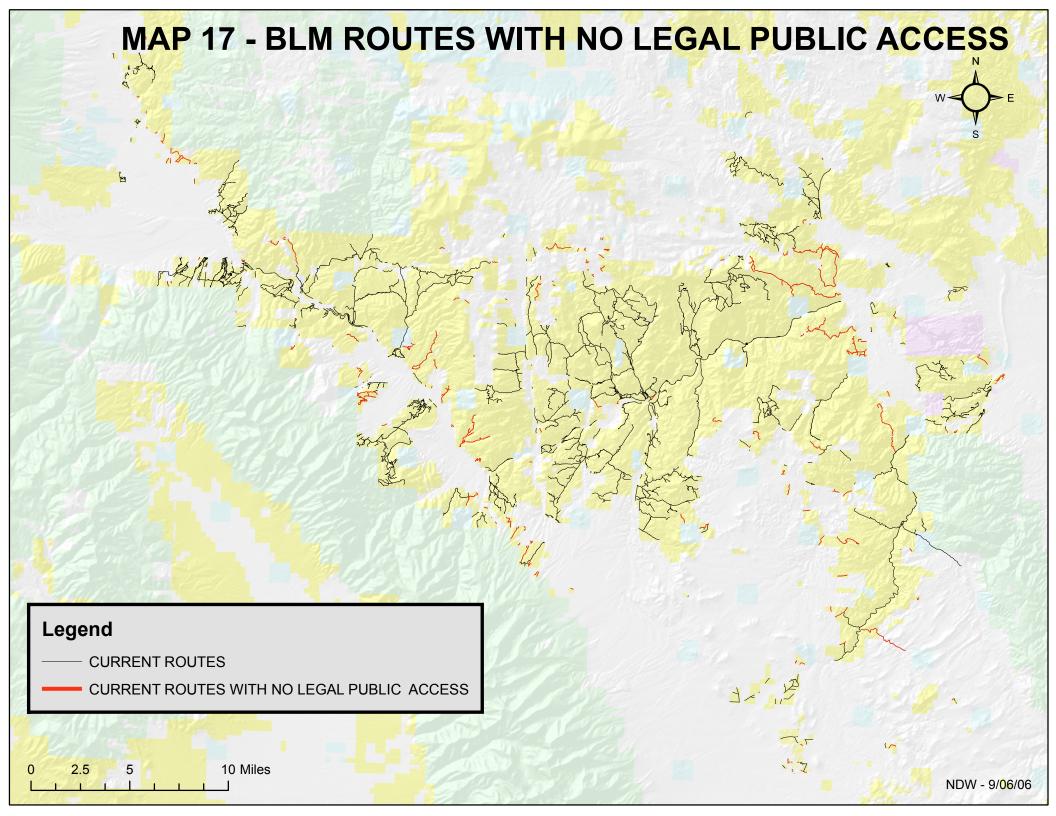


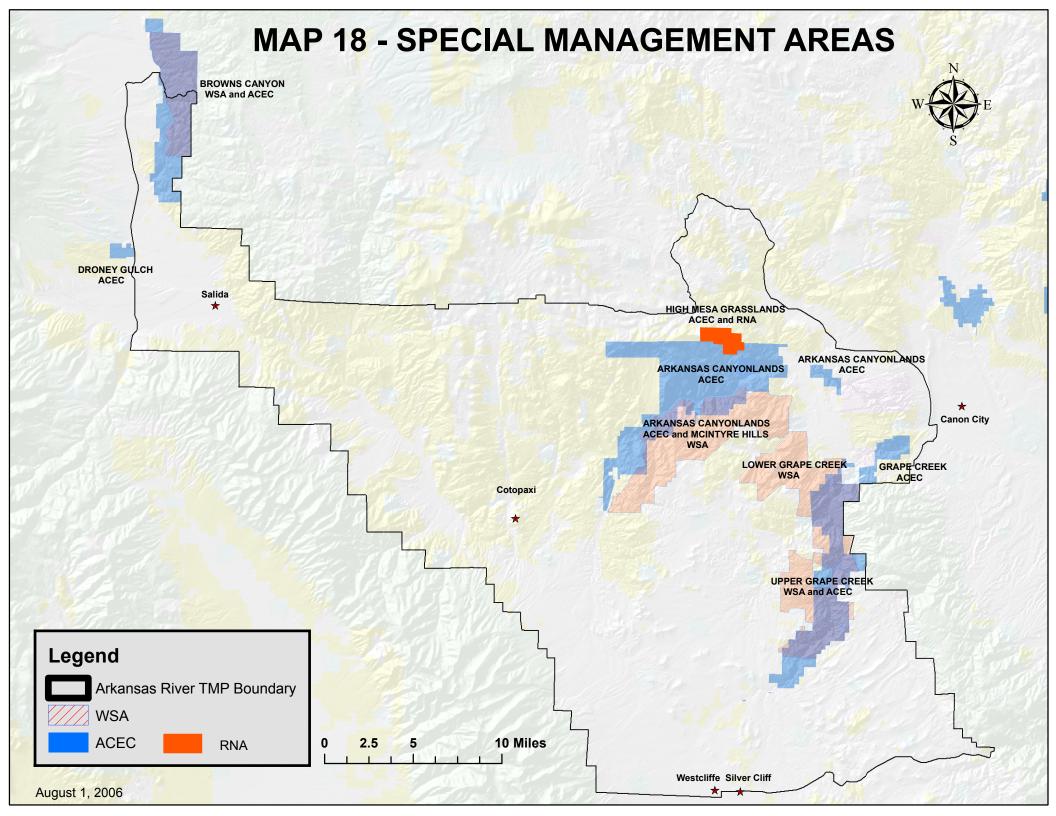


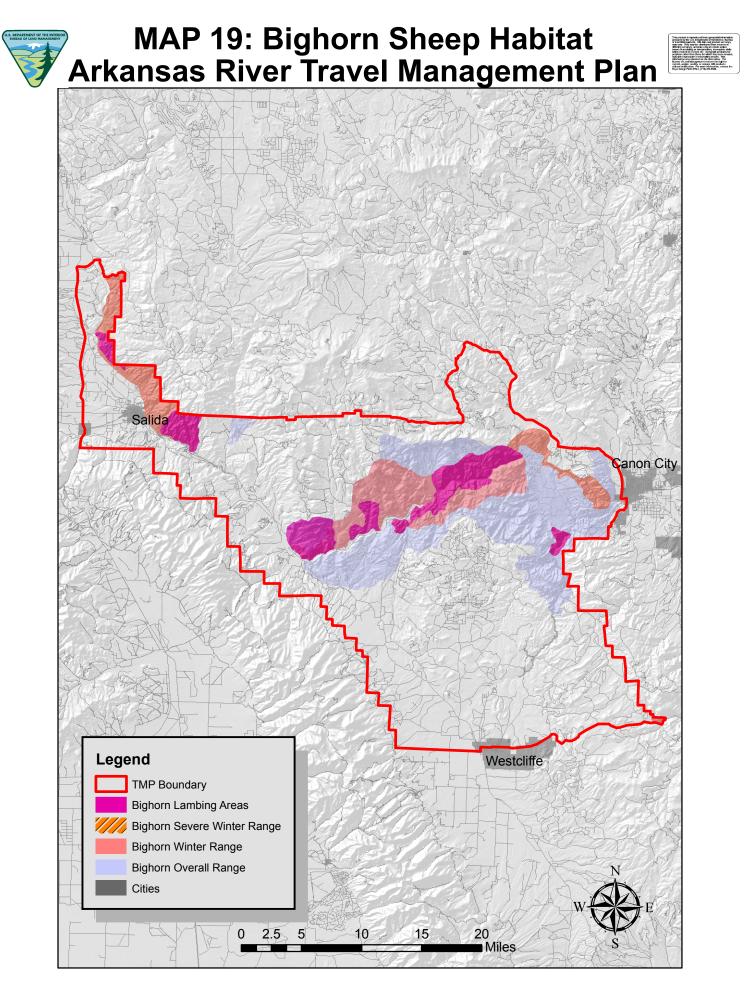




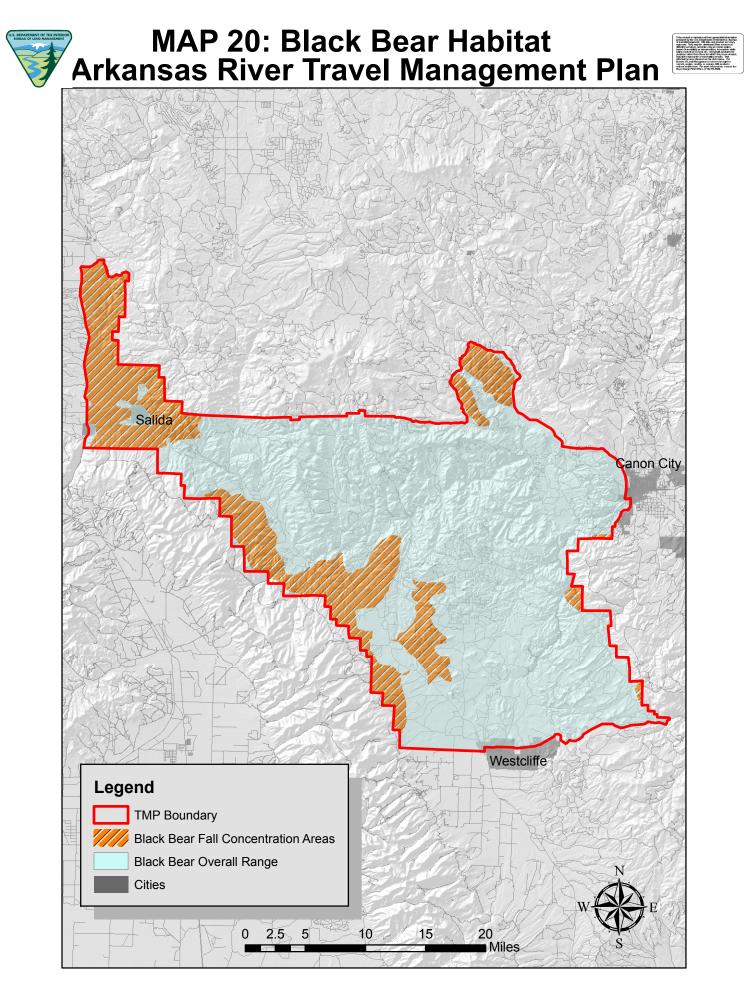








Royal Gorge Field Office, Bureau of Land Management, Canon City, CO; October 25, 2006

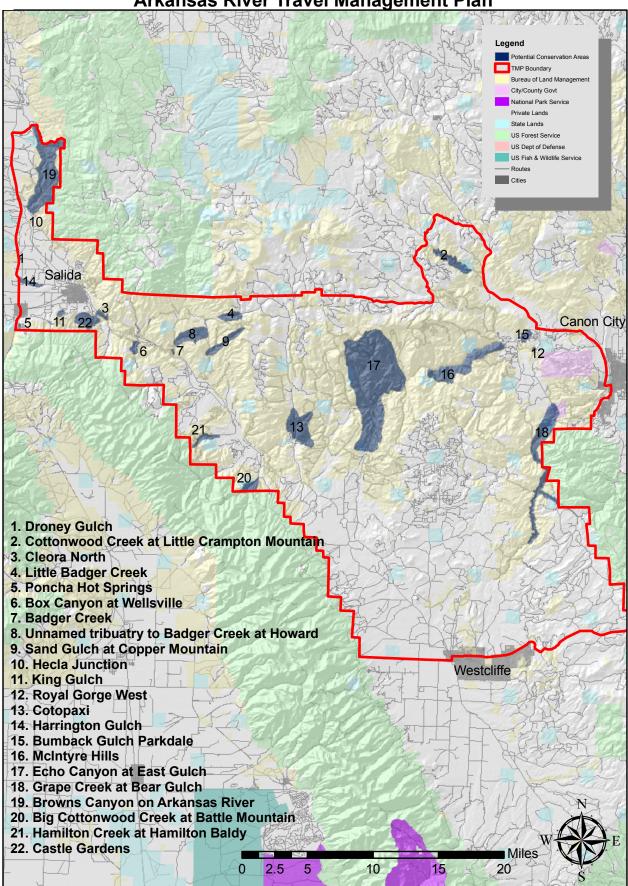


Royal Gorge Field Office, Bureau of Land Management, Canon City, CO; October 25, 2006

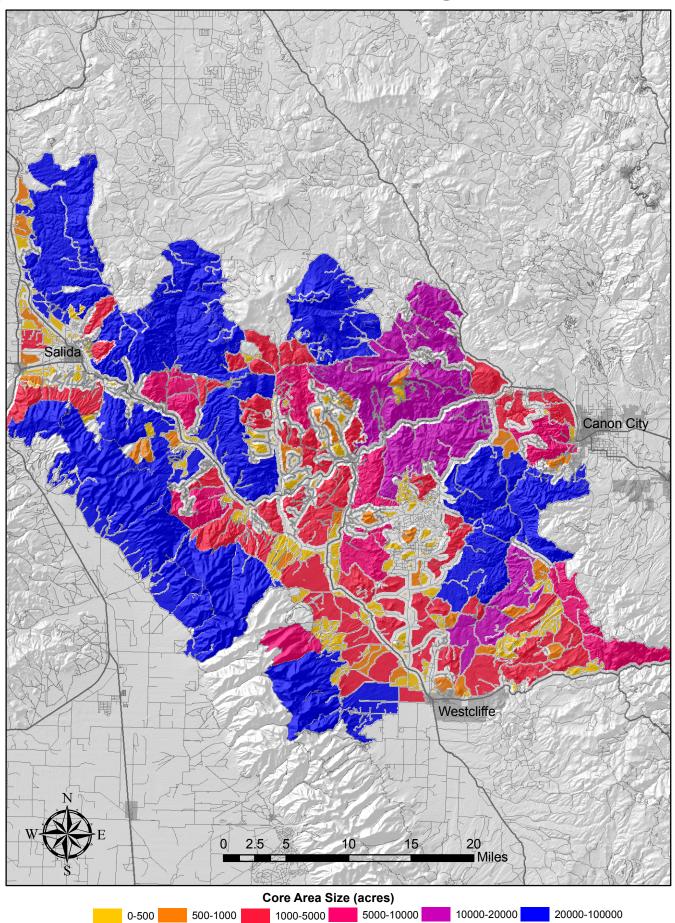


MAP 21: Colorado Natural Hertiage Program Potential Conservation Areas Arkansas River Travel Management Plan

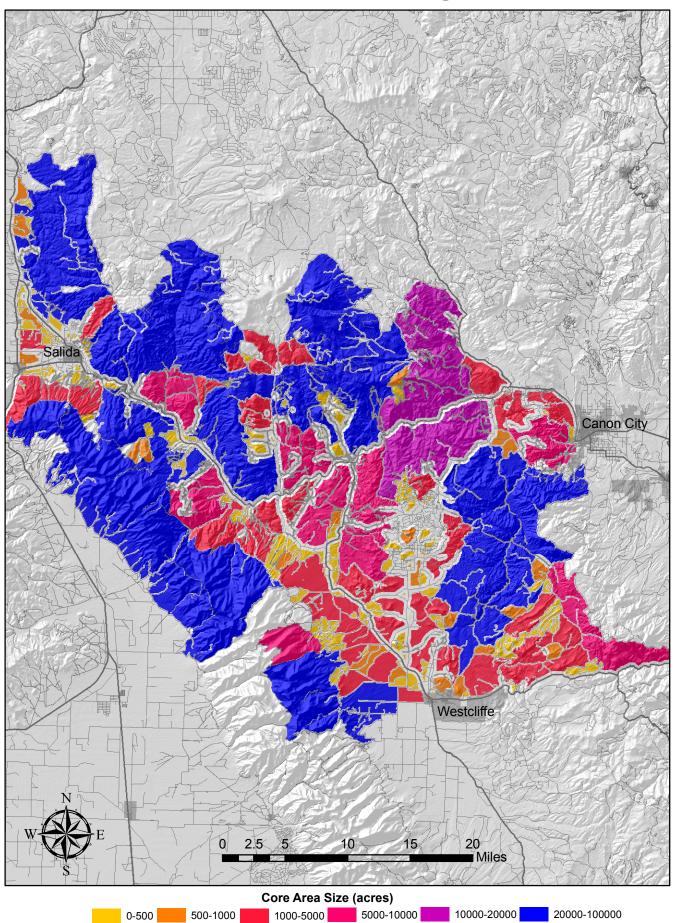




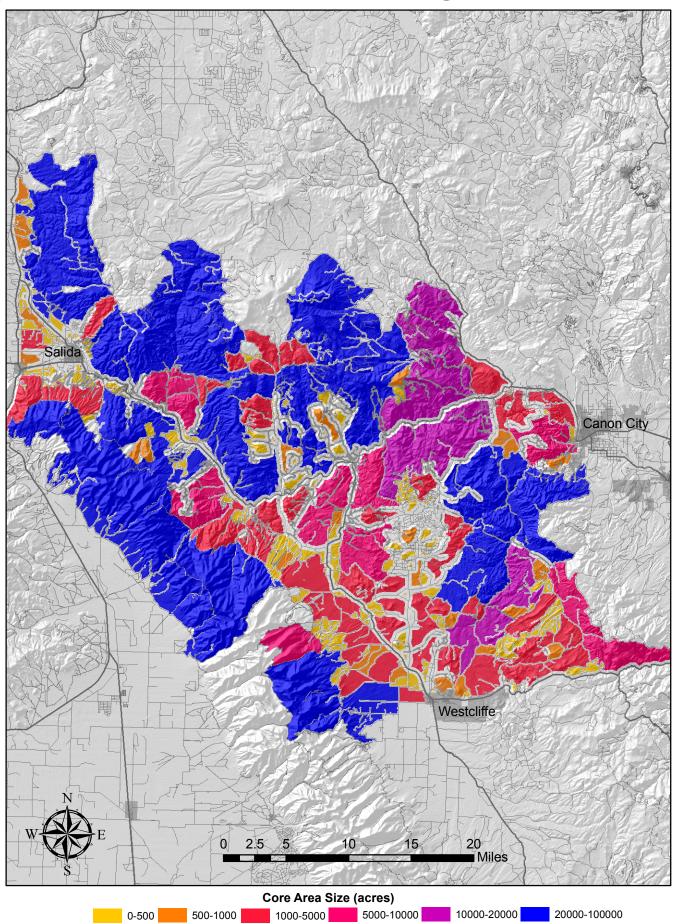
MAP 22: Core Interior Habitat-Alternative A Arkansas River Travel Management Plan



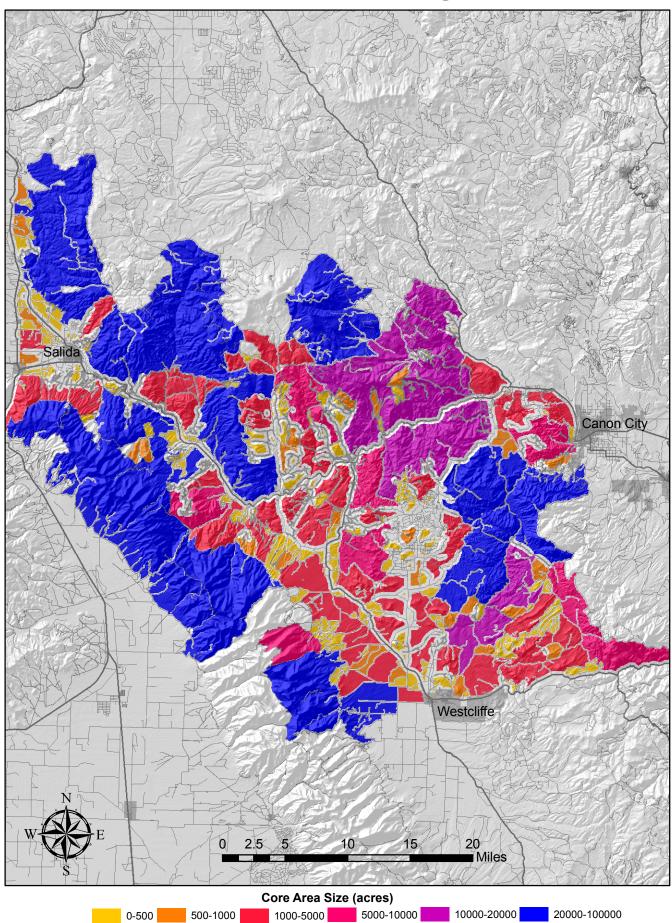
MAP 23: Core Interior Habitat-Alternative B Arkansas River Travel Management Plan

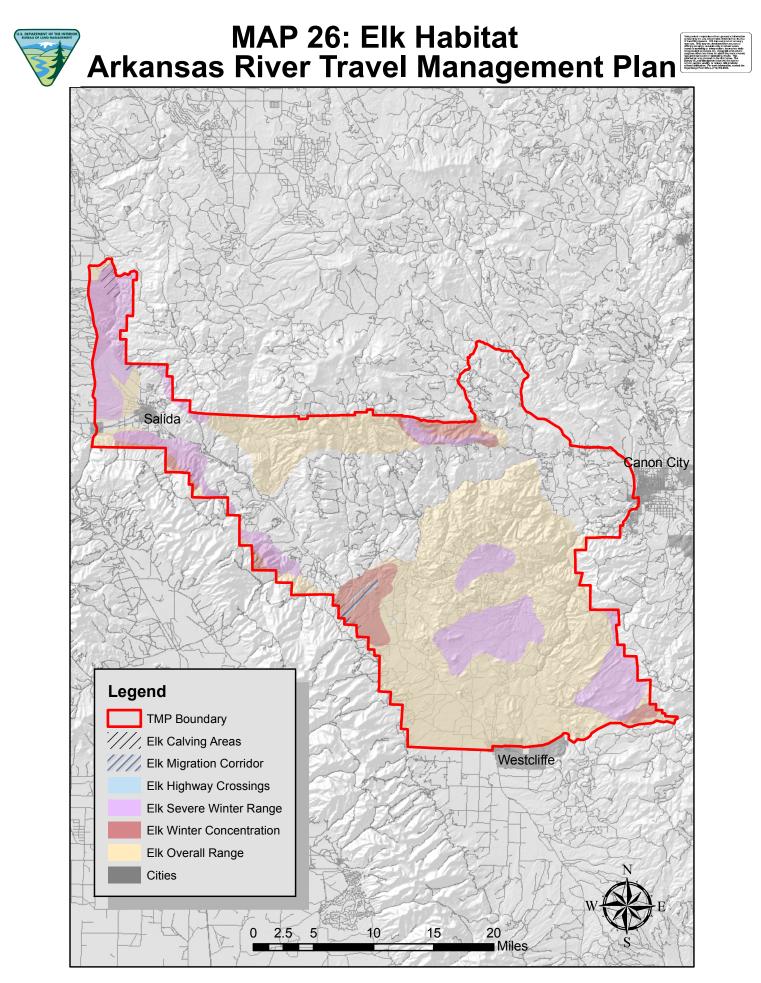


MAP 24: Core Interior Habitat-Alternative C Arkansas River Travel Management Plan



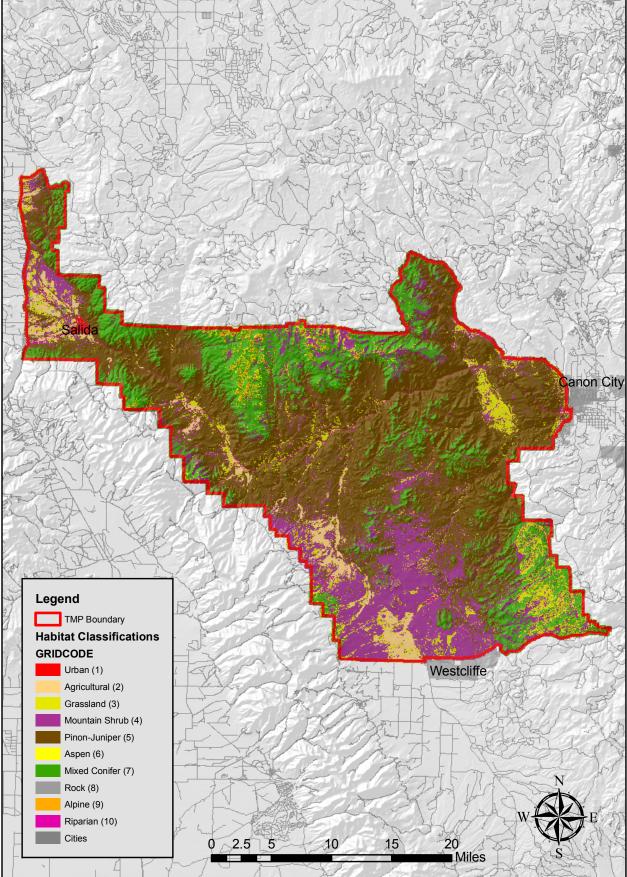
MAP 25: Core Interior Habitat- No Action Alternative Arkansas River Travel Management Plan



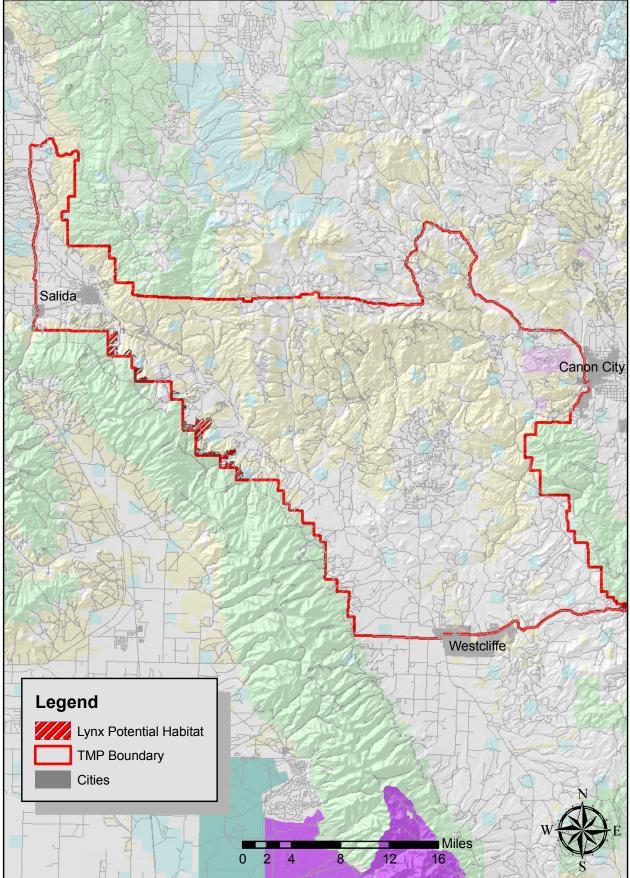


Royal Gorge Field Office, Bureau of Land Management, Canon City, CO; October 25, 2006

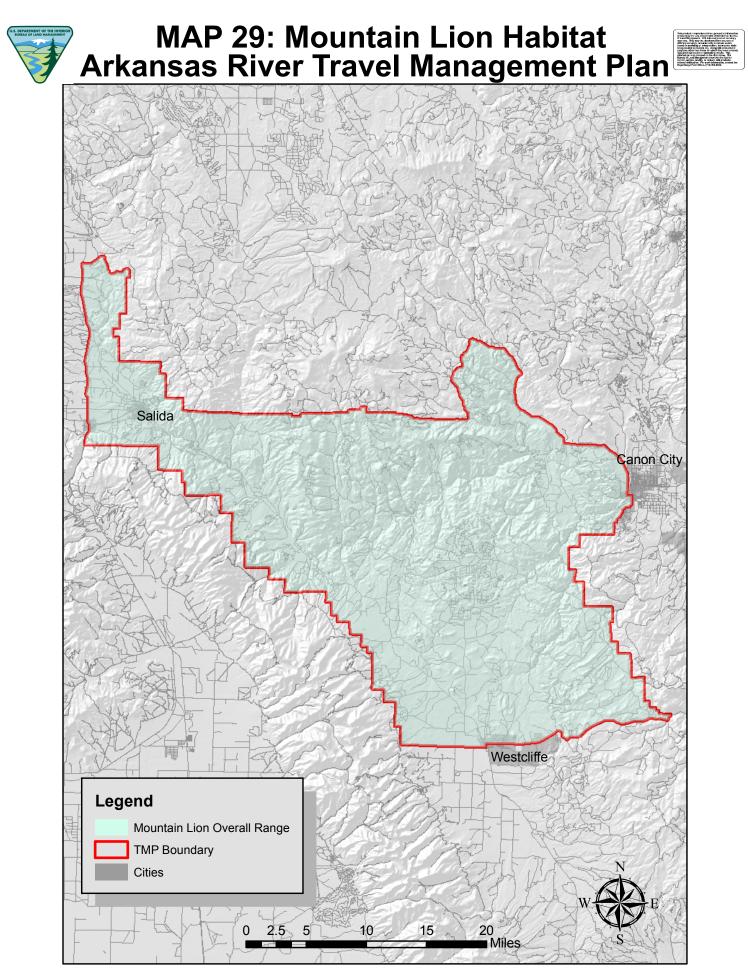
MAP 27: Habitat Classifications Arkansas River Travel Management Plan



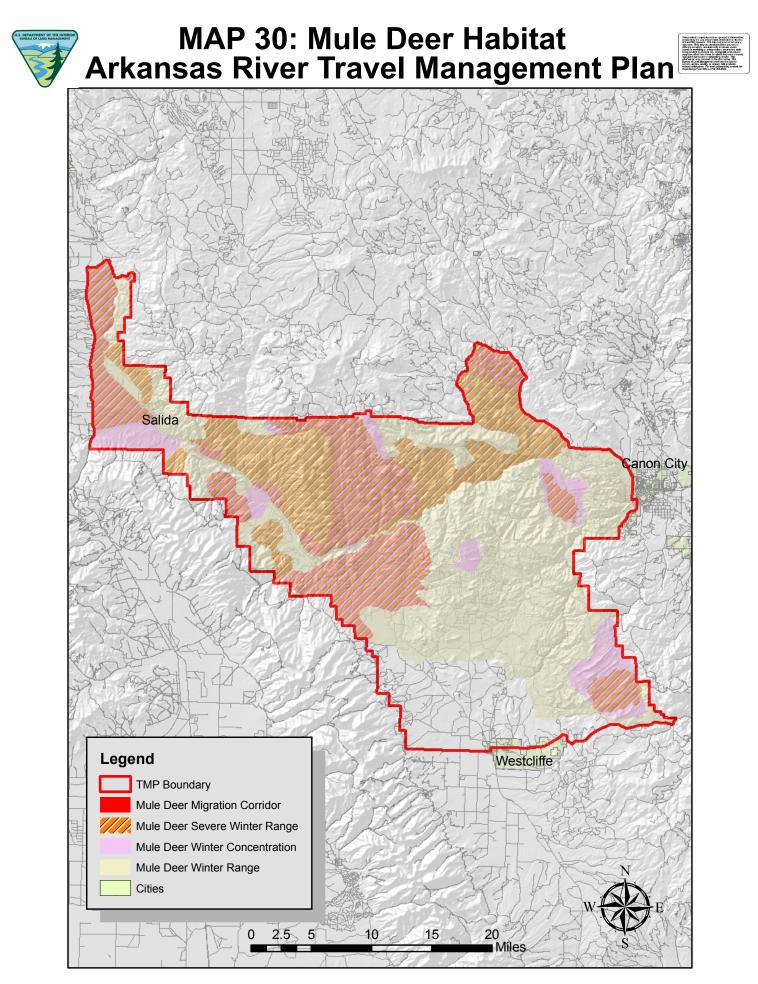




Royal Gorge Field Office, Bureau of Land Management, Canon City, CO; October 25, 2006

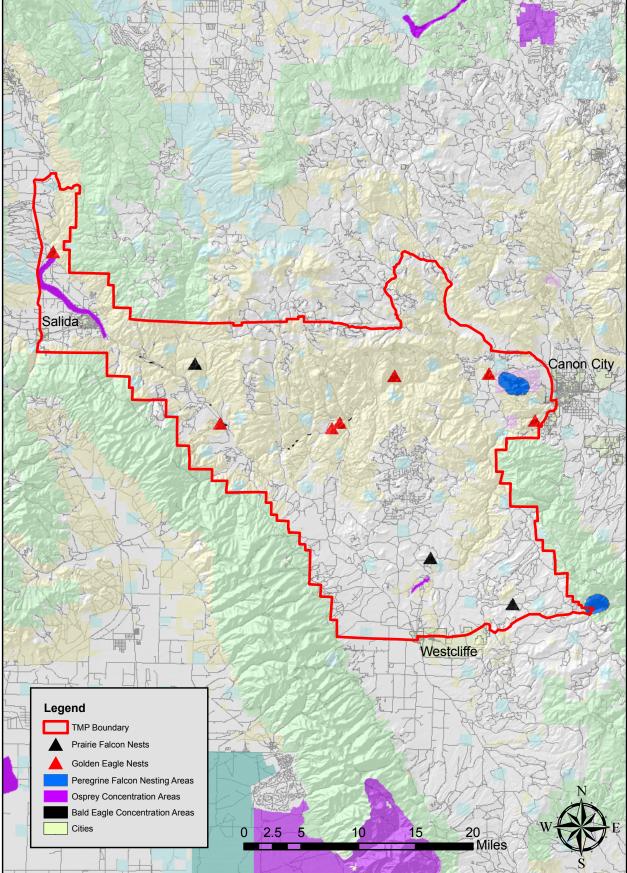


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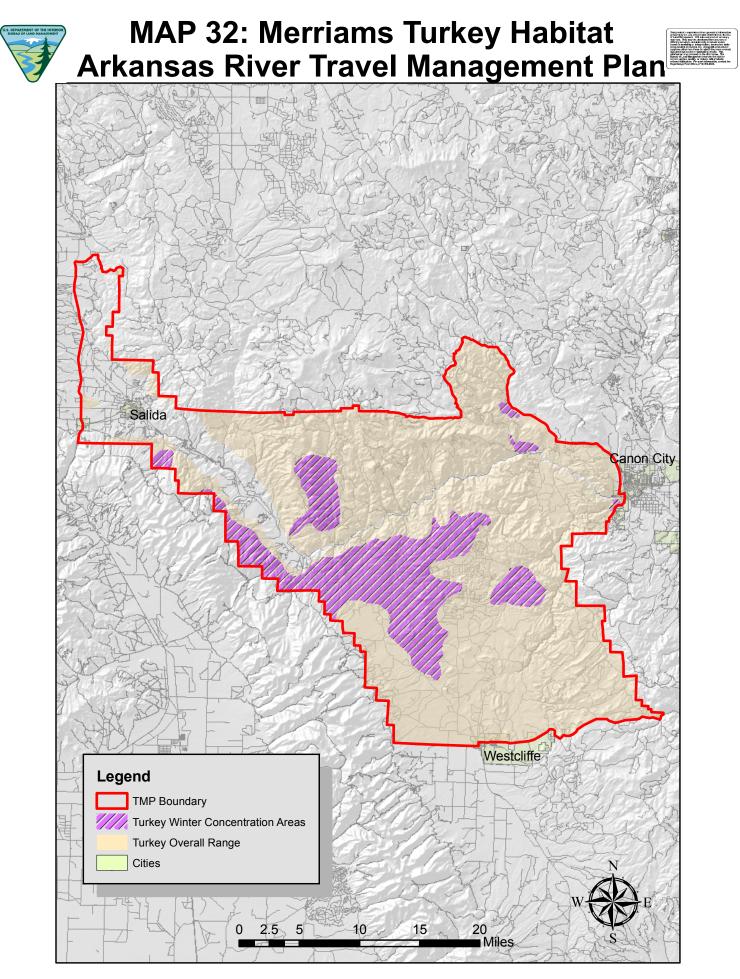


Royal Gorge Field Office, Bureau of Land Management, Canon City, CO; October 25, 2006





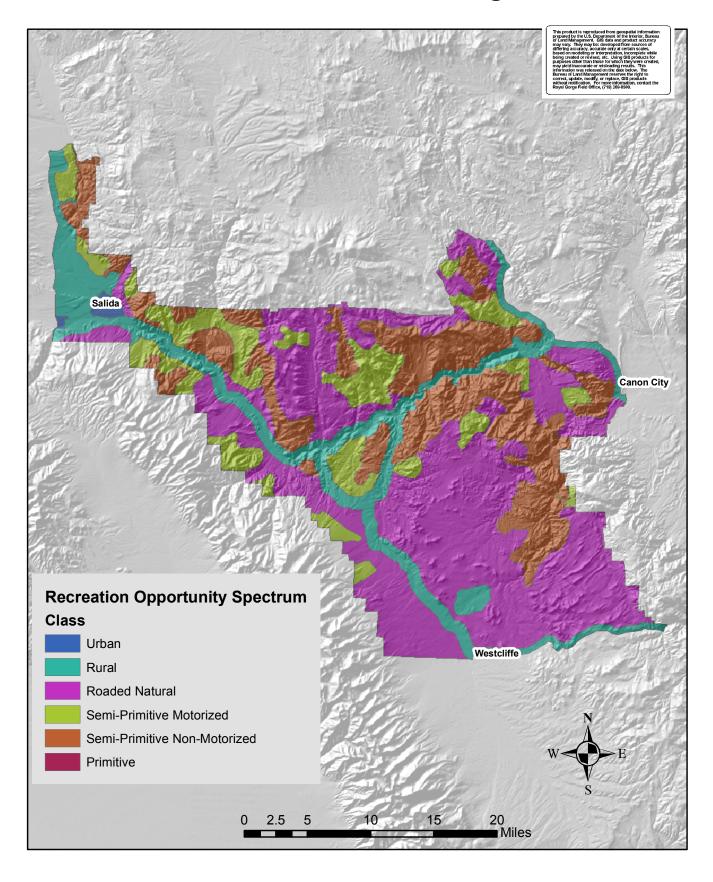
Royal Gorge Field Office, Bureau of Land Management, Canon City, CO; October 25, 2006



Royal Gorge Field Office, Bureau of Land Management, Canon City, CO; October 25, 2006



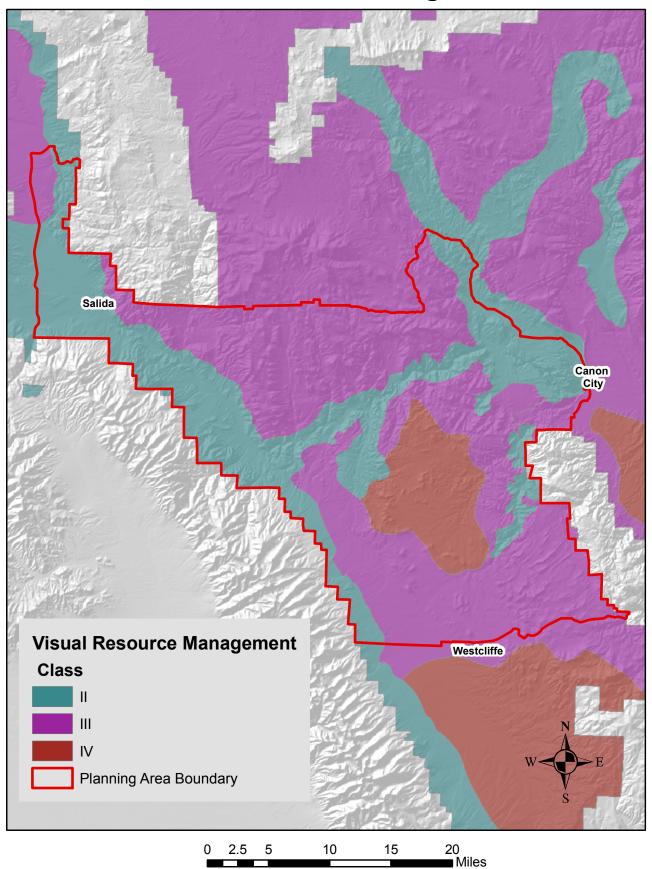
MAP 33: Recreation Opportunity Spectrum Classes Arkansas River Travel Management Plan



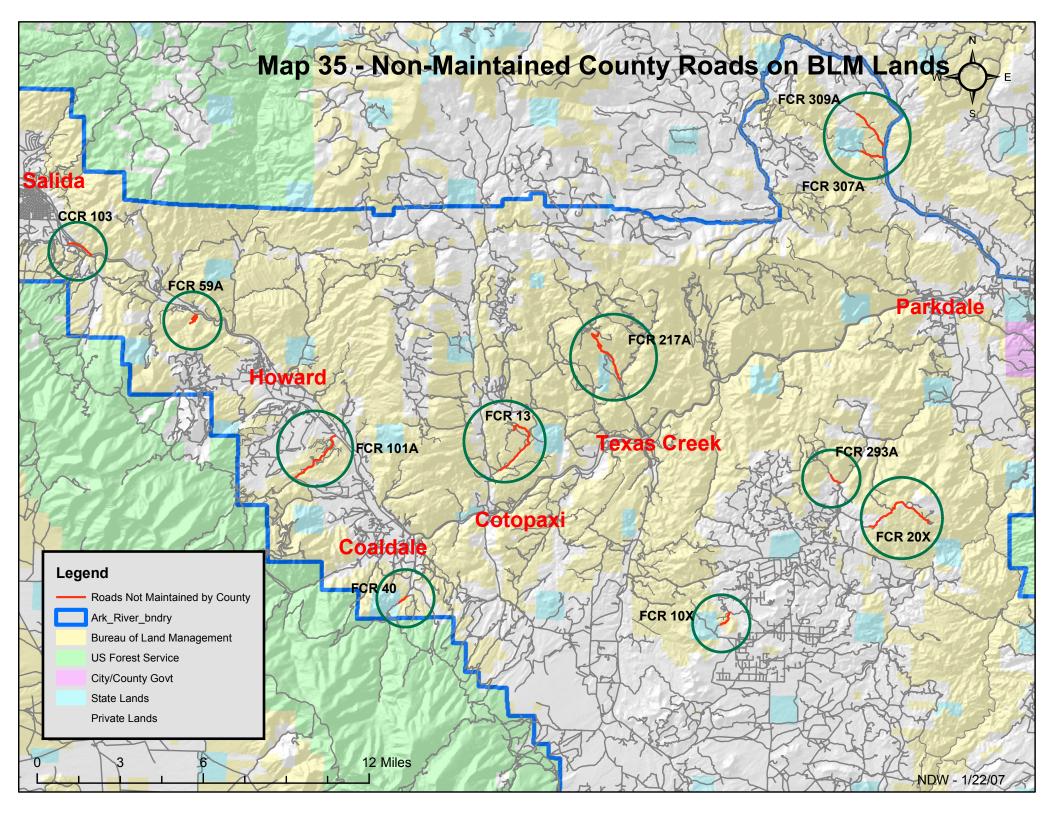


MAP 34: Visual Resource Management Arkansas River Travel Management Plan

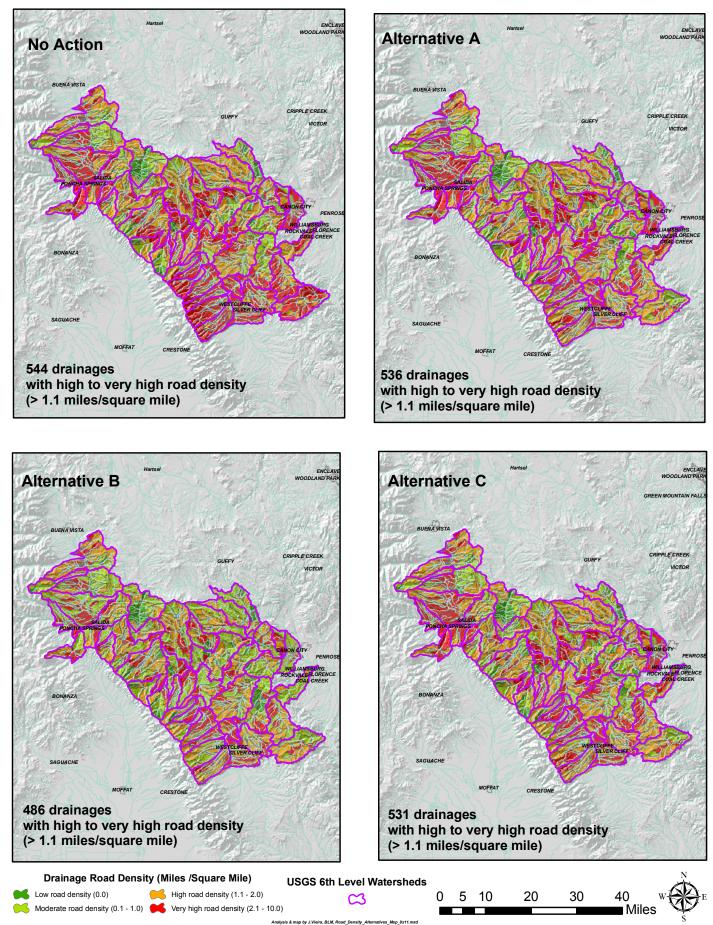


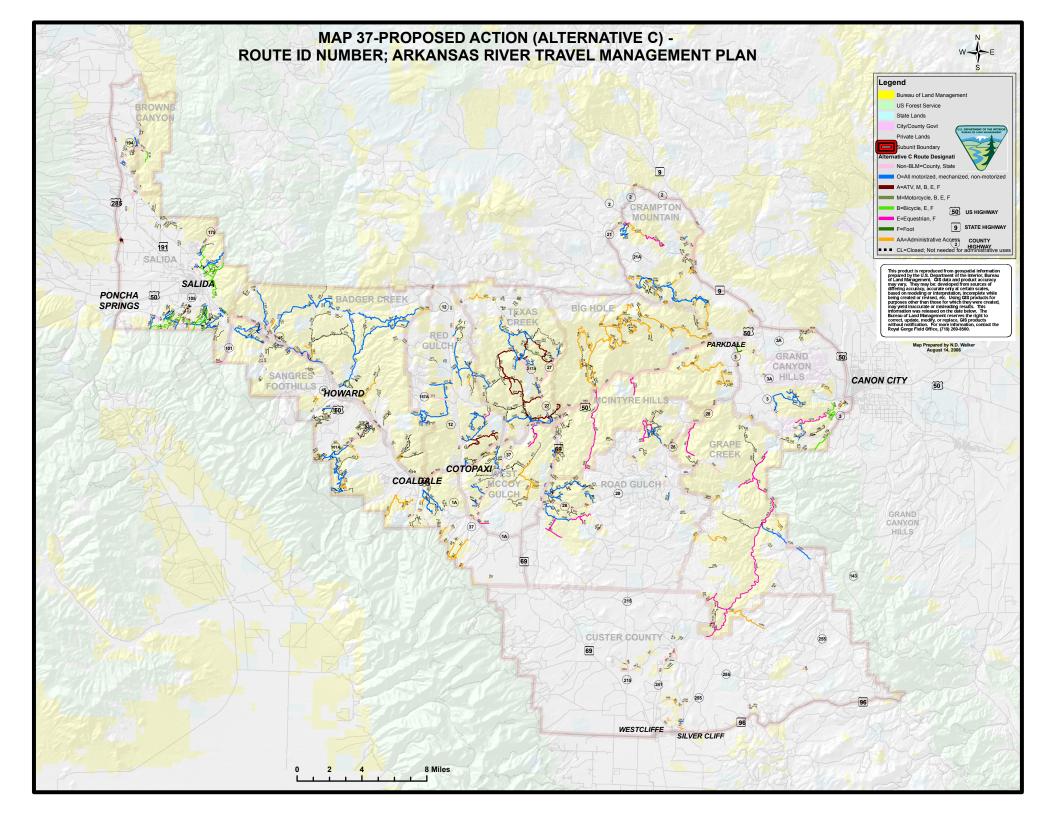


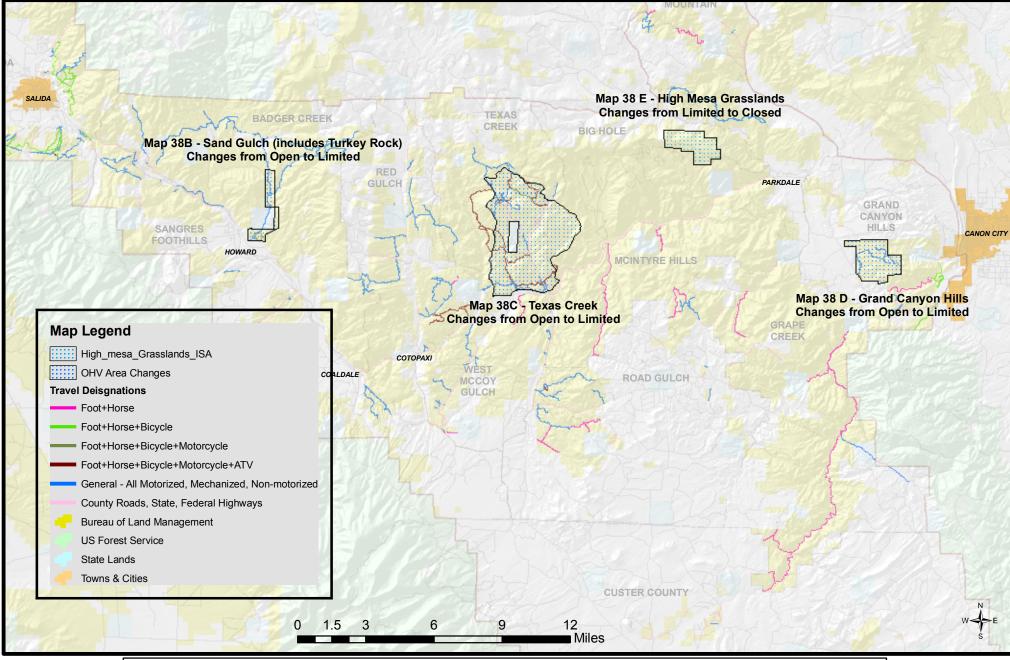
Royal Gorge Field Office, Bureau of Land Management, Canon City, CO, February 15, 2007



⁷ MAP 36: Arksansas River Travel Management Plan Comparison of Road Density and Watershed Impacts









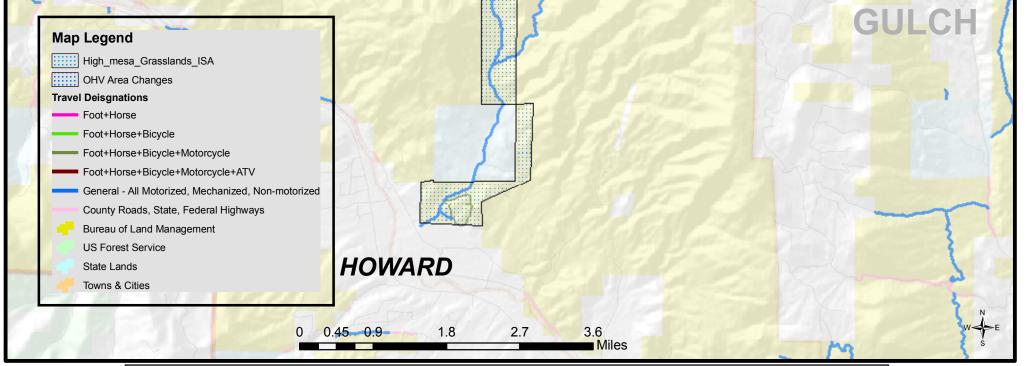
MAP 38 A - OHV AREA DESIGNATIONS - GENERAL LOCATION MAP See Attached Inset Maps for Details



Sources: BLM, USGS; Map prepared by J.Vieira, NRS, BLM Royal Gorge Field Office, Canon City, CO, 9/20/2007; Reference: Map39_AlternativeC_FinalDecision__OHV_Area_EnitireTMP.mxd

BADGER CREEK

Sand Gulch (includes Turkey Rock) Changes from Open to Limited



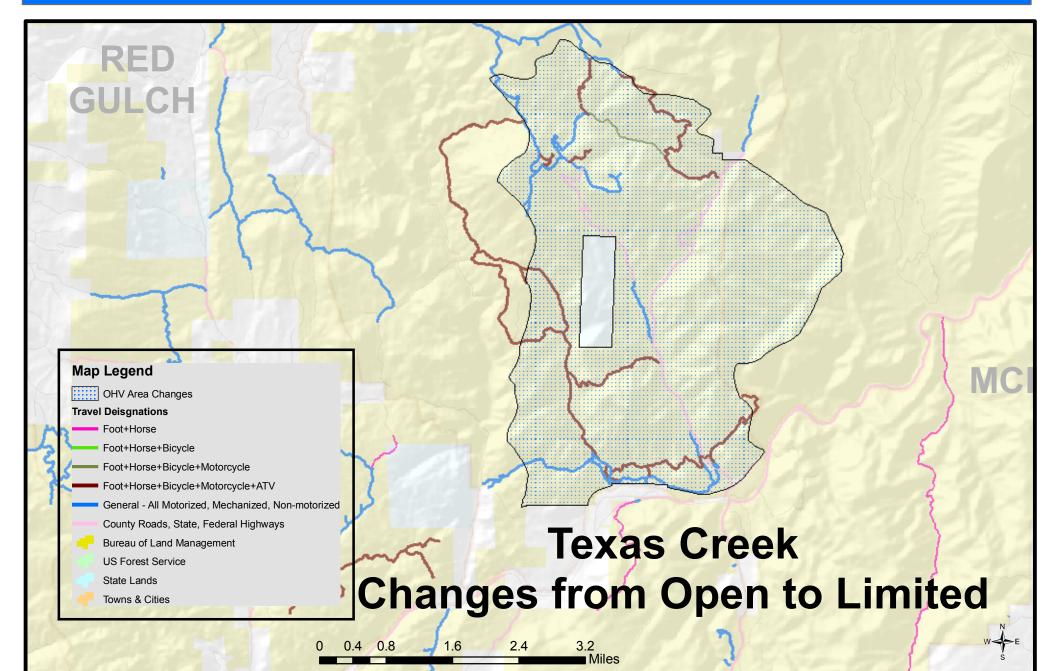






RED

urces: BLM, USGS; Map prepared by J.Vieira, NRS, BLM Royal Gorge Field Office, Canon City, CO, 9/20/2007; Reference: Map39_AlternativeC_FinalDecision__OHV_Area_EnitireTMP.mxd

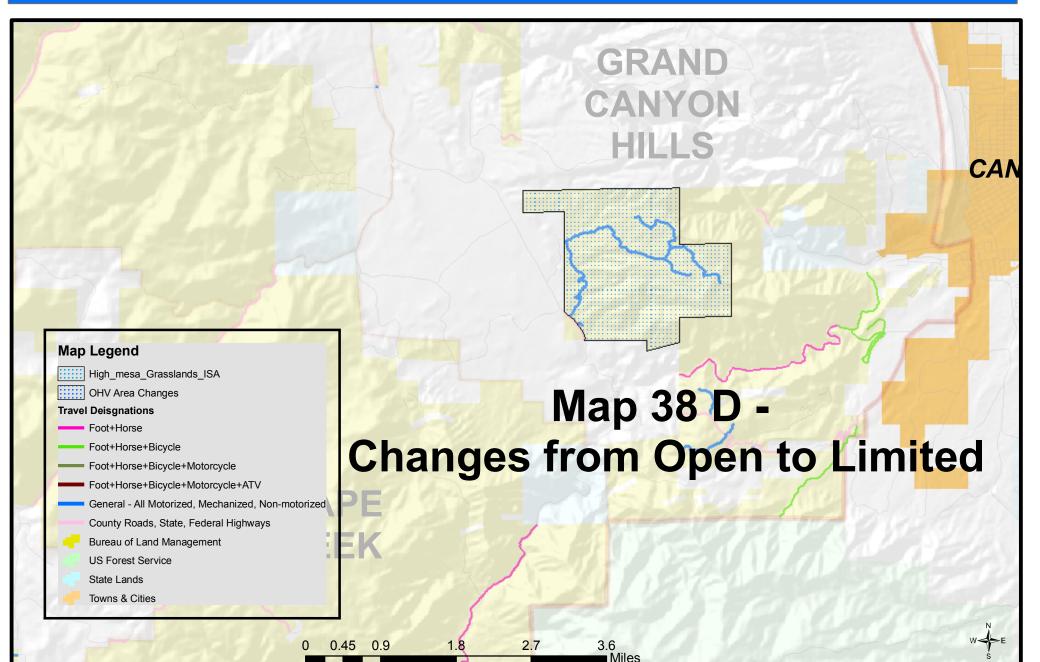




MAP 38 C - OHV AREA DESIGNATIONS - TEXAS CREEK



Sources: BLM, USGS; Map prepared by J.Vieira, NRS, BLM Royal Gorge Field Office, Canon City, CO, 9/20/2007; Reference: Map39_AlternativeC_FinalDecision__OHV_Area_EnitireTMP.mxd



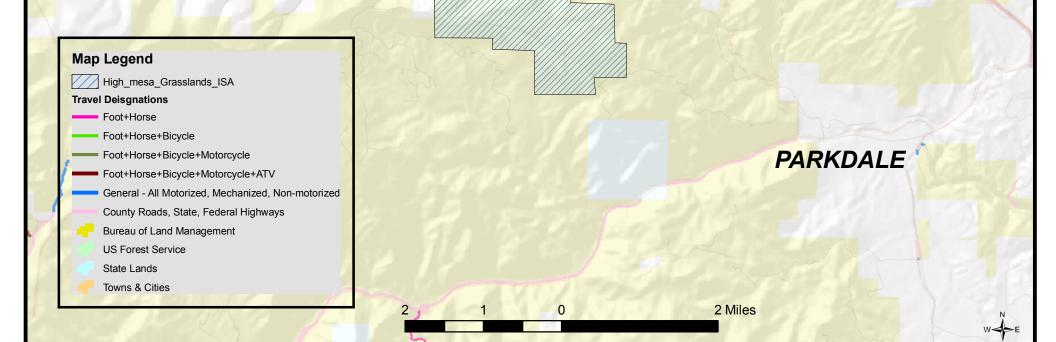


MAP 38 D - OHV AREA DESIGNATIONS - GRAND CANYON HILLS See Attached Inset Maps for Details



Sources: BLM, USGS; Map prepared by J.Vieira, NRS, BLM Royal Gorge Field Office, Canon City, CO, 9/20/2007; Reference: Map39_AlternativeC_FinalDecision__OHV_Area_EnitireTMP.mxd

HIGH MESA GRASSLANDS- RMP INSTANT STUDY AREA (ISA) CHANGES FROM LIMITED TO CLOSED

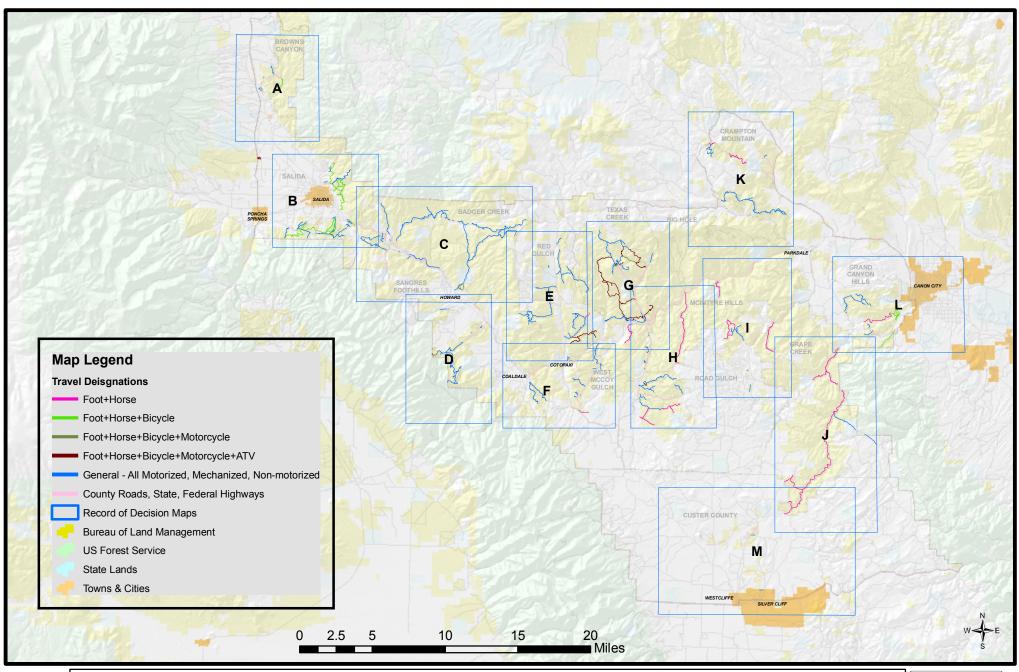




BIG HOLE

MAP 38 E - OHV AREA DESIGNATIONS - HIGH MESA GRASSLANDS ISA



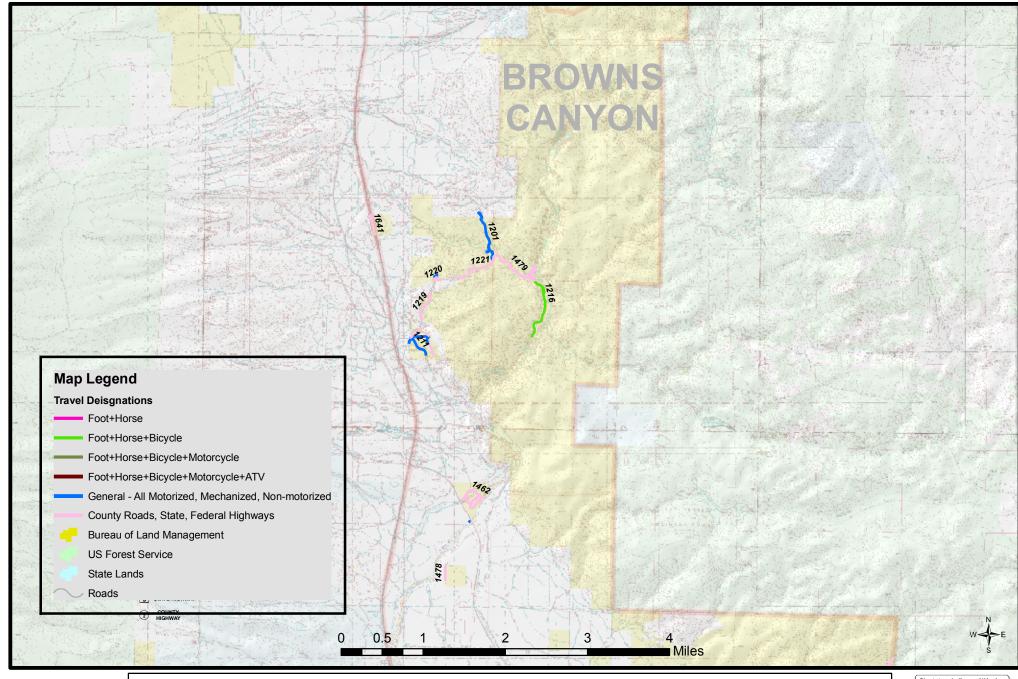




MAP 39 - DESIGNATED BLM TRAVEL ROUTES - GENERAL LOCATION MAP See Attached Inset Maps for Details



Sources: BLM, USGS; Map prepared by J. Vieira, NRS, BLM Royal Gorge Field Office, Canon City, CO, 9/20/2007; Reference: Map38_AlternativeC_FinalDecision_EnitireTMP.mxd

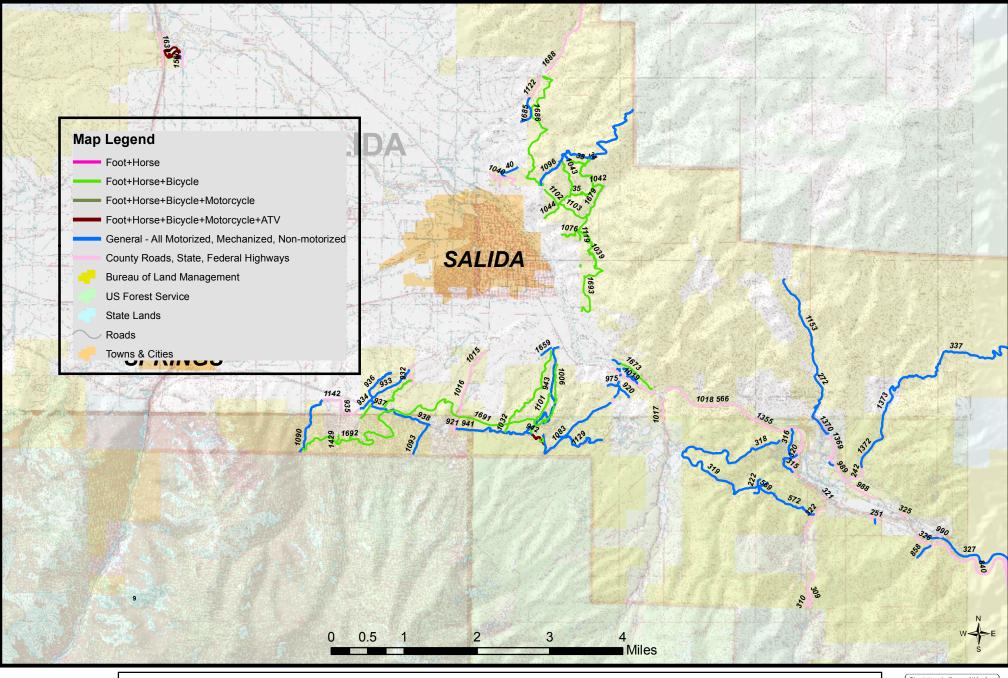








Sources: BLM, USGS; Map prepared by J. Vieira, NRS, BLM Royal Gorge Field Office, Canon City, CO, 9/20/2007; Reference: Map38_AlternativeC_FinalDecision_MapInsetA.mxd

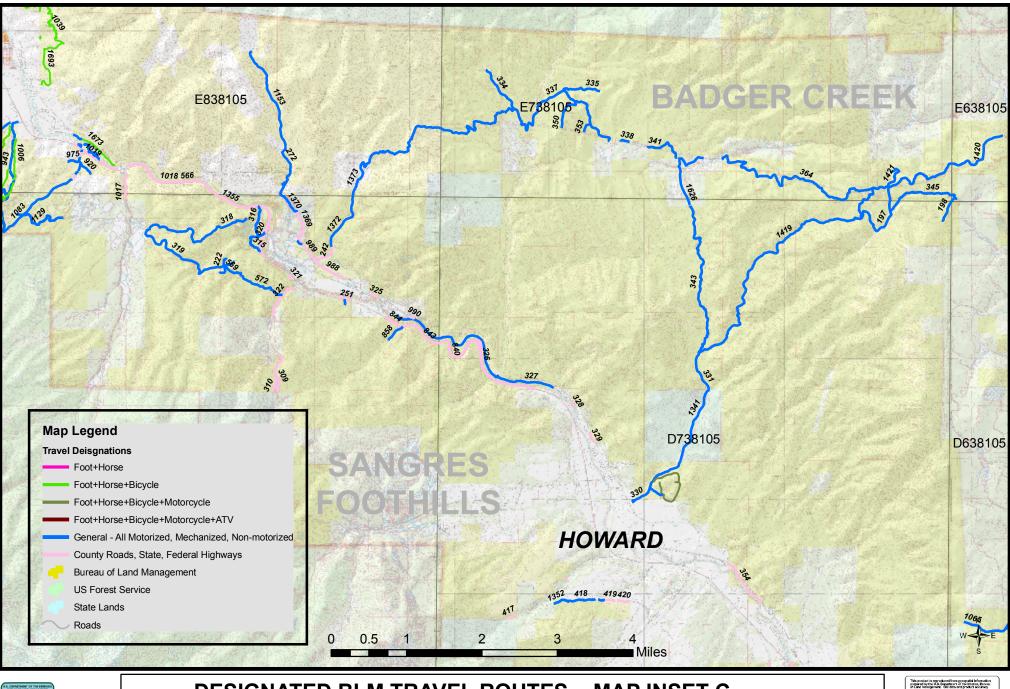








Sources: BLM, USGS; Map prepared by J. Vieira, NRS, BLM Royal Gorge Field Office, Canon City, CO, 9/20/2007; Reference: Map38_AlternativeC_FinalDecision_MapInsetB.mxd

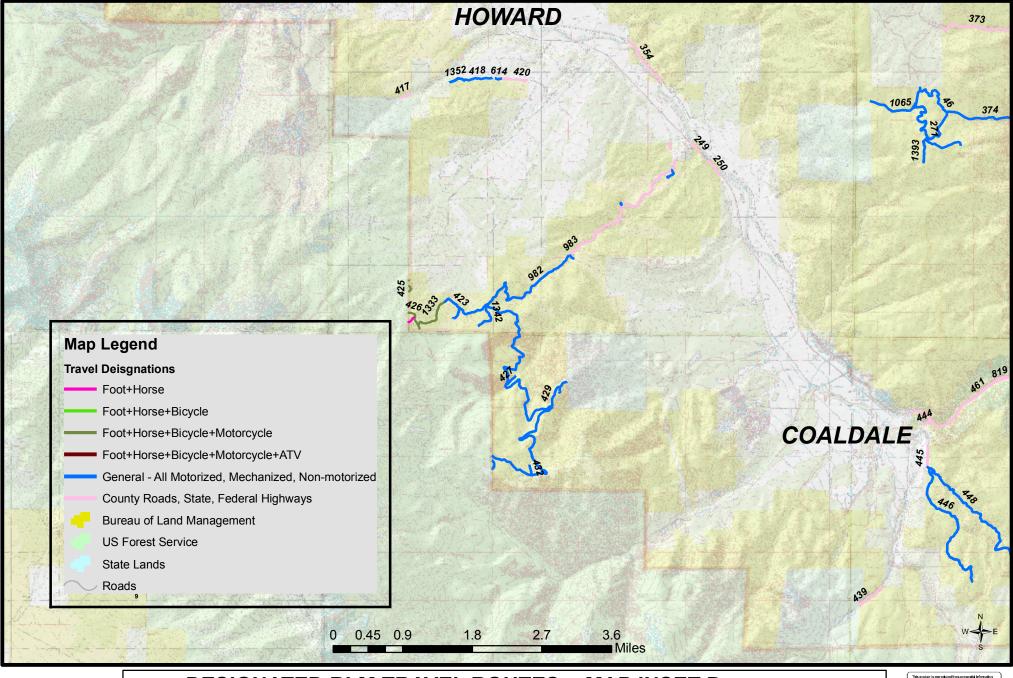








Sources: BLM, USGS; Map prepared by J. Vieira, NRS, BLM Royal Gorge Field Office, Canon City, CO, 9/20/2007; Reference: Map38_AlternativeC_FinalDecision_MapInsetB.mxd

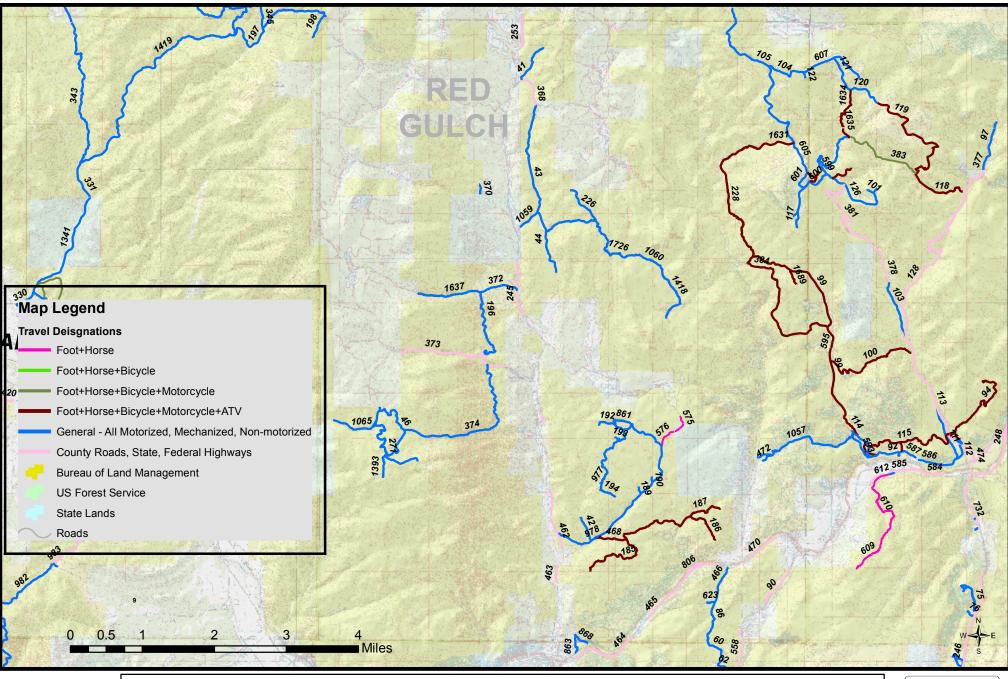




DESIGNATED BLM TRAVEL ROUTES - MAP INSET D Badger Creek & Sangres Foothills Subunits



Sources: BLM, USGS; Map prepared by J. Vieira, NRS, BLM Royal Gorge Field Office, Canon City, CO, 9/20/2007; Reference: Map38_AlternativeC_FinalDecision_MapInsetC.mxd

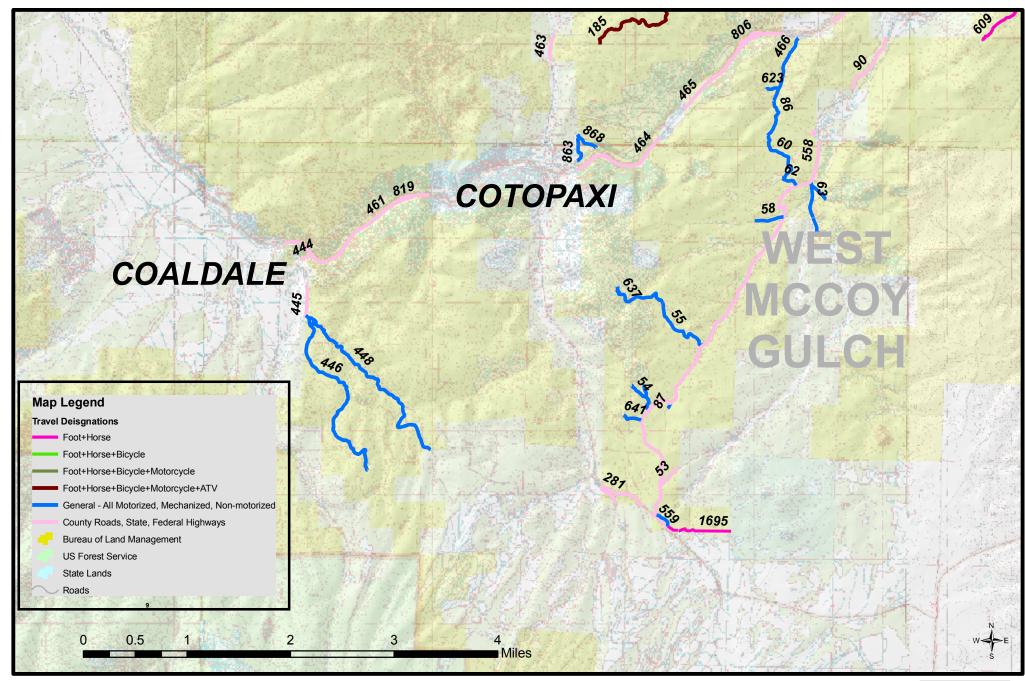








Sources: BLM, USGS; Map prepared by J. Vieira, NRS, BLM Royal Gorge Field Office, Canon City, CO, 9/20/2007; Reference: Map38_AlternativeC_FinalDecision_MapInsetE.mxd



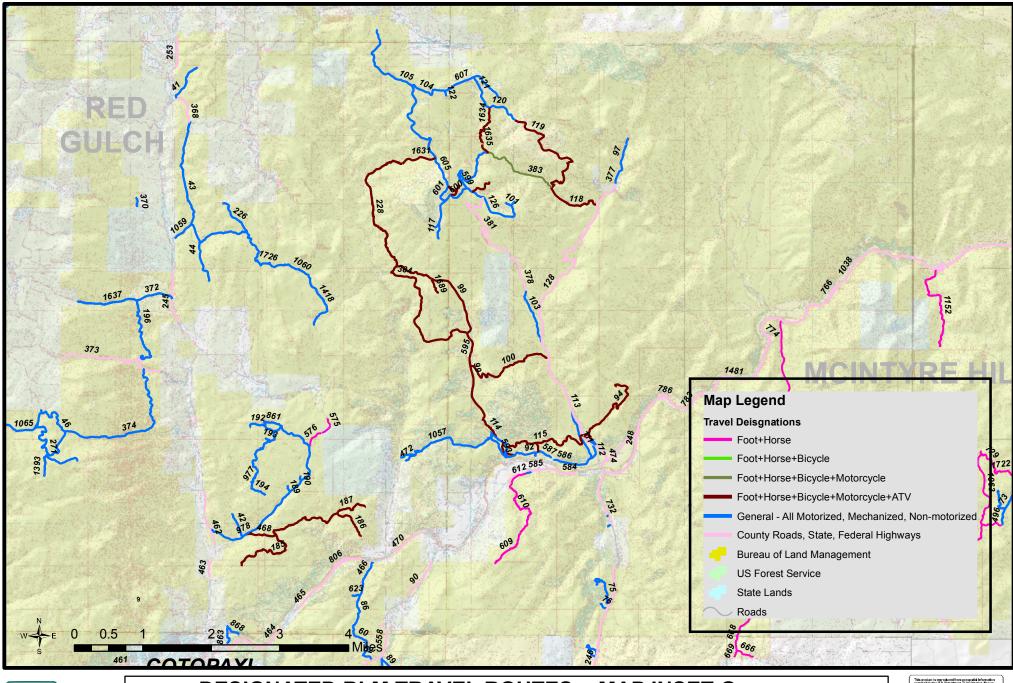


DESIGNATED BLM TRAVEL ROUTES - MAP INSET F West McCoy Gulch Subunit - Cotopaxi Area



Sources: BLM, USGS; Map prepared by J. Vieira, NRS, BLM Royal Gorge Field Office, Canon City, CO, 9/20/2007; Reference: Map38_AlternativeC_FinalDecision_MapInsetF.mxd

ARKANSAS RIVER TRAVEL MANAGEMENT PROPOSED PLAN - FINAL DECISION

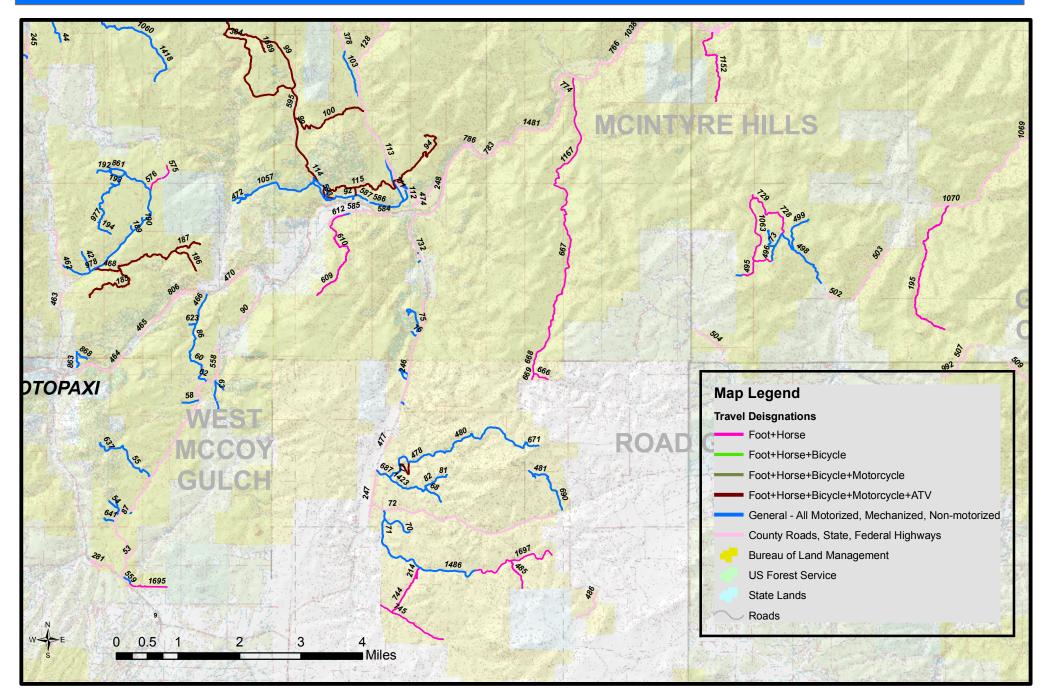




DESIGNATED BLM TRAVEL ROUTES - MAP INSET G Texas Creek - Big Hole - McIntyre Hills Subunits - Texas Creek Area



Sources: BLM, USGS; Map prepared by J. Vieira, NRS, BLM Royal Gorge Field Office, Canon City, CO, 9/20/2007; Reference: Map38 AlternativeC FinalDecision_MapInsetG.mxd

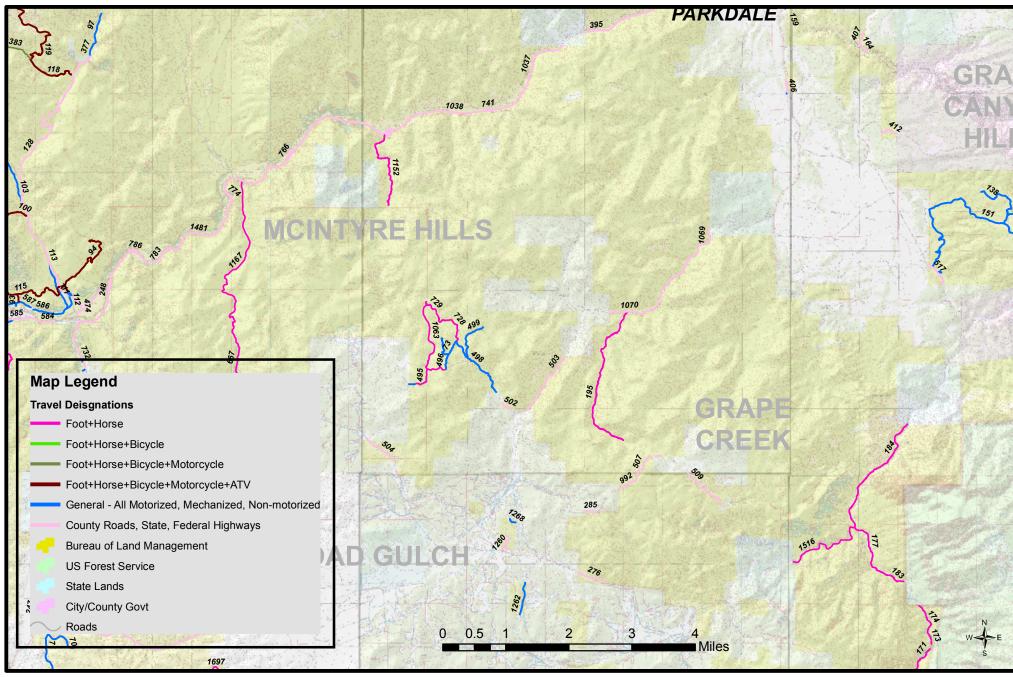








Sources: BLM, USGS; Map prepared by J. Vieira, NRS, BLM Royal Gorge Field Office, Canon City, CO, 9/20/2007; Reference: Map38 AlternativeC FinalDecision_MapInsetG.mxd

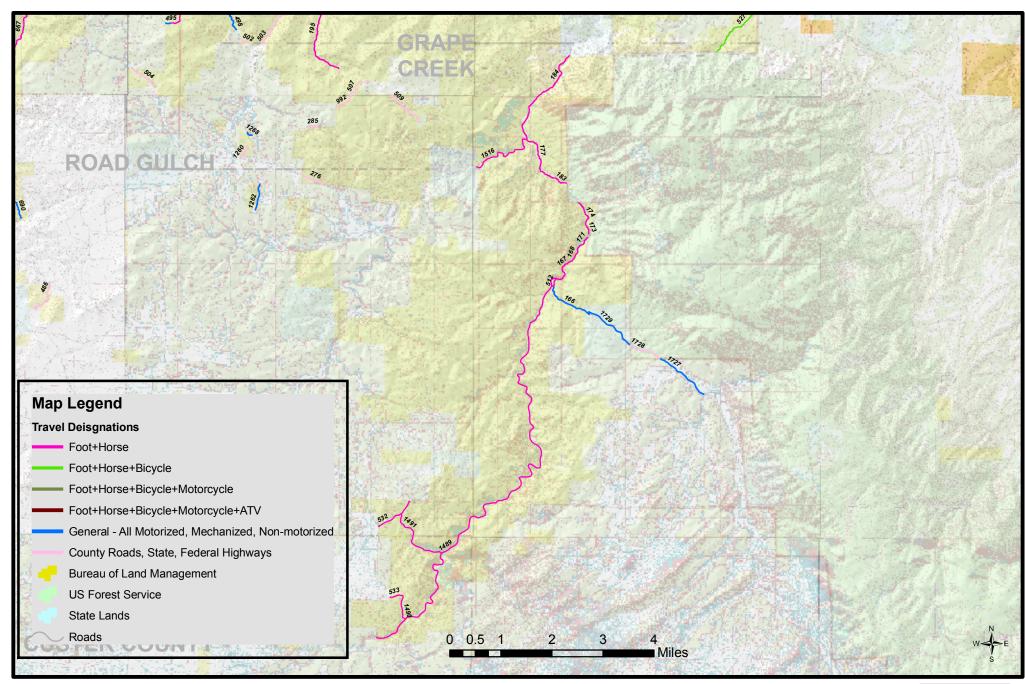




DESIGNATED BLM TRAVEL ROUTES - MAP INSET I McIntyre Hills - Grape Creek Subunits - Poverty Mountain Copper Gulch Area



Sources: BLM, USGS; Map prepared by J. Vieira, NRS, BLM Royal Gorge Field Office, Canon City, CO, 9/20/2007; Reference: Map38 AlternativeC FinalDecision_MapInsetH.mxd

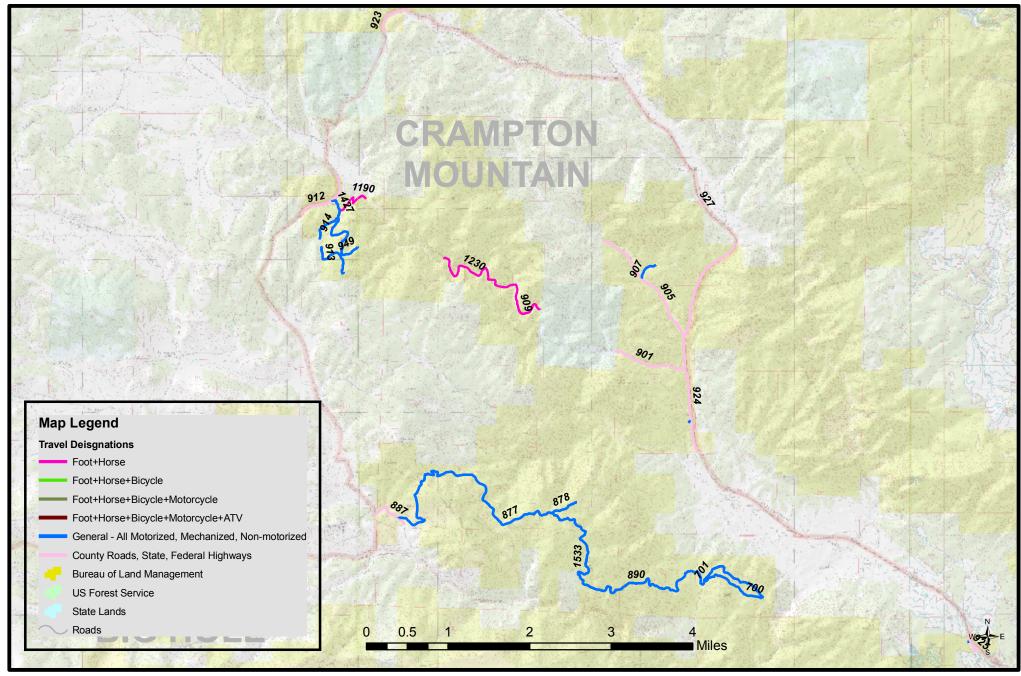








Sources: BLM, USGS; Map prepared by J. Vieira, NRS, BLM Royal Gorge Field Office, Canon City, CO, 9/20/2007; Reference: Map38_AlternativeC_FinalDecision_MapInsetI.mxd

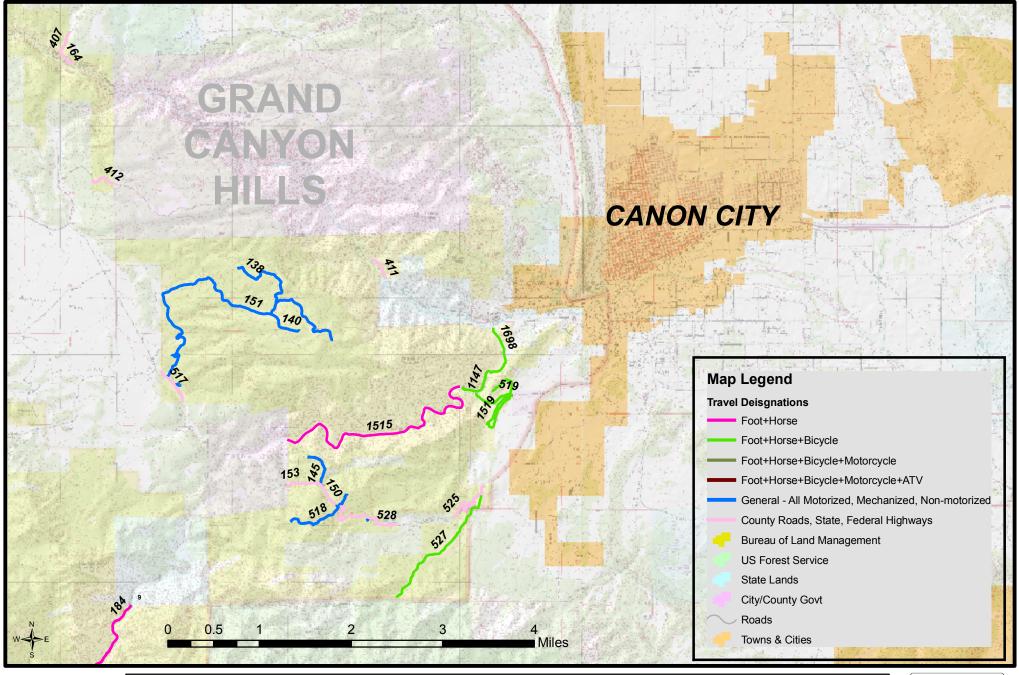




DESIGNATED BLM TRAVEL ROUTES - MAP INSET K Crampton Mountain Subunit



Sources: BLM, USGS; Map prepared by J. Vieira, NRS, BLM Royal Gorge Field Office, Canon City, CO, 9/20/2007; Reference: Map38_AlternativeC_FinalDecision_MapInsetJ.mxd

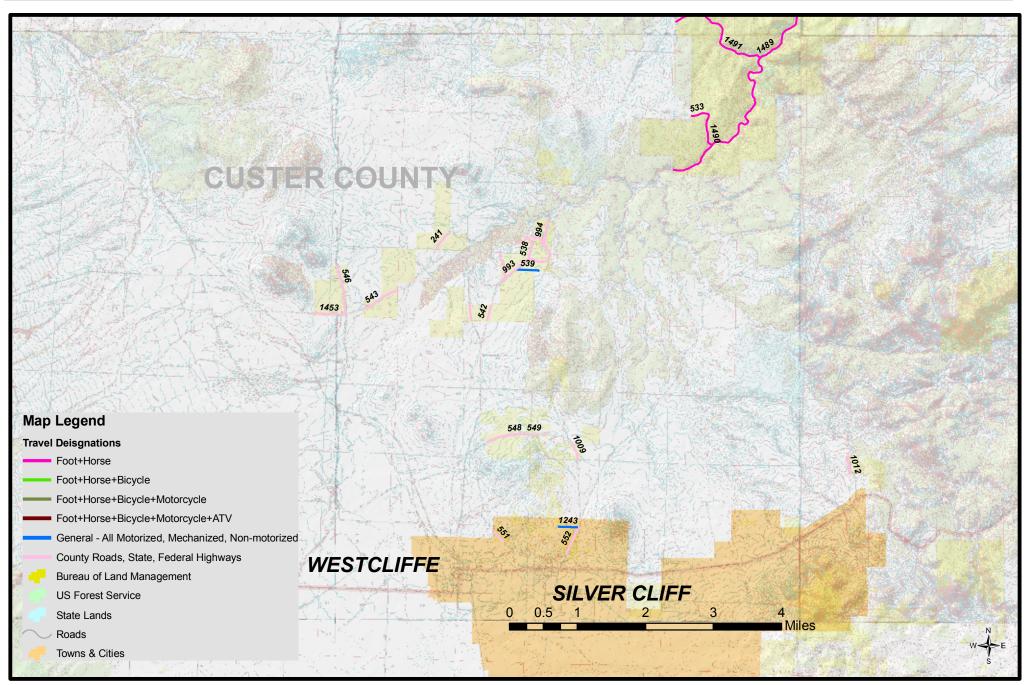








Sources: BLM, USGS; Map prepared by J. Vieira, NRS, BLM Royal Gorge Field Office, Canon City, CO, 9/20/2007; Reference: Map38. Alternative C. FinalDecision_MapInsetL.mxd









Sources: BLM, USGS; Map prepared by J. Vieira, NRS, BLM Royal Gorge Field Office, Canon City, CO, 9/20/2007; Reference: Map38 AlternativeC FinalDecision_MapInsetL.mxd