

Idaho

Big Wood - 17040219 8 Digit Hydrologic Unit Profile

January 2006



Introduction

The Big Wood 8-Digit Hydrologic Unit Code (HUC) subbasin contains 957,520 acres. Approximately 61 percent of the subbasin is in Blaine County, 18 percent in Gooding County, 16 percent in Lincoln County and the remainder in Camas County. Twenty three percent of the basin is privately owned.

Sixty nine percent of the basin is in shrubland, rangeland, grass, pasture, or hayland. Eight percent is irrigated cropland and pasture, and the remainder in forest, water, wetlands, developed or barren.

Elevations range from about 2,700 feet in the southern portion to nearly 12,000 feet in the northern portion of the HUC.

Conservation assistance is provided by four Soil and Water Conservation Districts, and the Wood River Resource Conservation and Development office.

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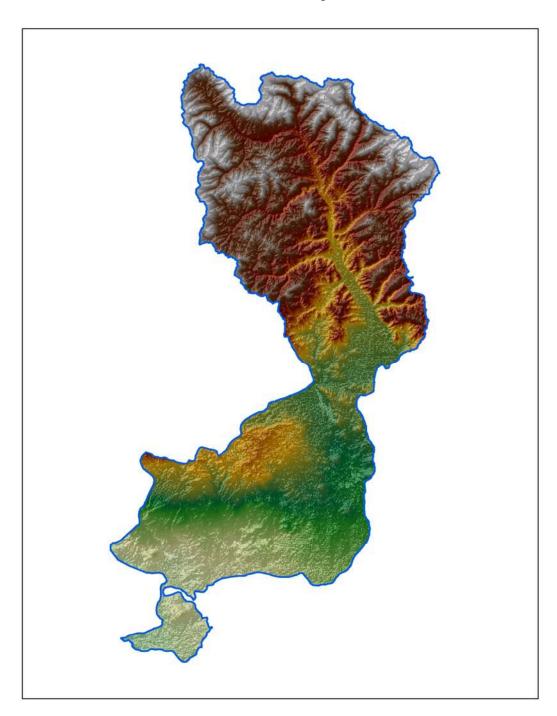
Footnotes/Bibliography

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Relief Map

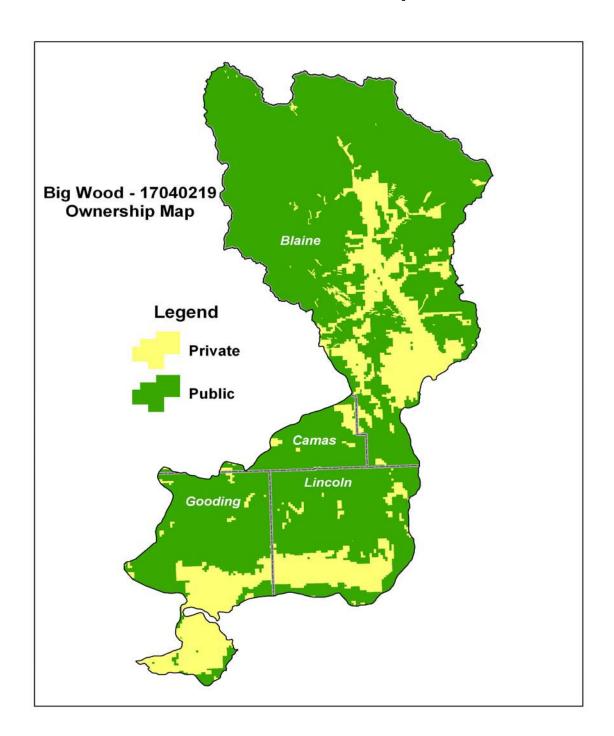




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General Ownership





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Physical Description

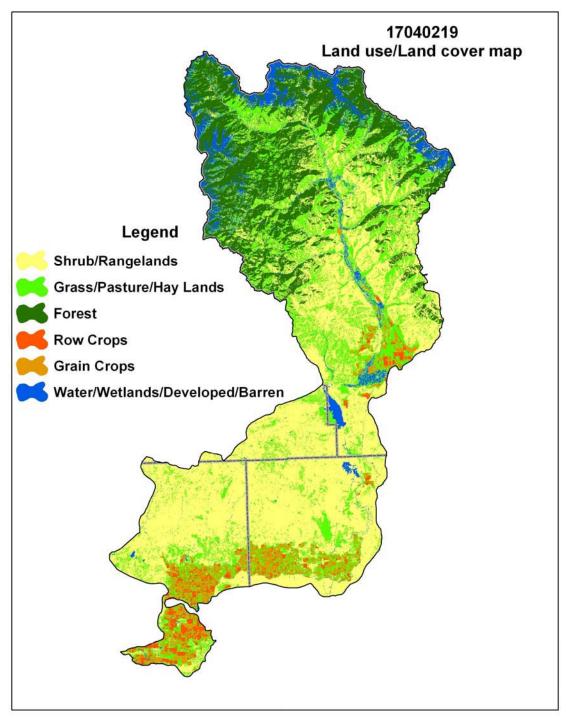
Land Cover/	Ownership - (2003 Draft BLM Surface Map Set ^{/1})								
Land Use	Public		Private		Tribal		Tatala		
(NLCD ^{/2})	Acres	%	Acres	%		%	Totals	% of HUC	
Forest	174,660	18%	4,600	1%			179,260	19%	
Grain Crops			31,270	3%			31,270	3%	
Conservation Reserve Program (CRP) Land ^{/3}			1,100	<1%					
Grass/Pasture/Hay Lands	134,140	14%	74,120	8%			208,960	22%	
Orchards/Vineyards/Berries									
Row Crops			24,310	3%			24,310	3%	
Shrub/Rangelands	386,710	40%	70,080	7%			457,190	47%	
Water/Wetlands/ Developed/Barren	46,160	5%	10,370	1%			56,530	6%	
Idaho HUC Totals	741,670	77%	215,850	23%			957,520	100%	

	Type of Land	ACRES	% of Irrigated Lands	% of HUC
Irrigated Lands ^{/4}	Cultivated Cropland	44,700	64%	5%
	Non-Cultivated Cropland	8,900	13%	1%
	Pastureland	16,100	23%	2%
	Total Irrigated Lands	69,700	100%	8%



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Land Use/Land Cover

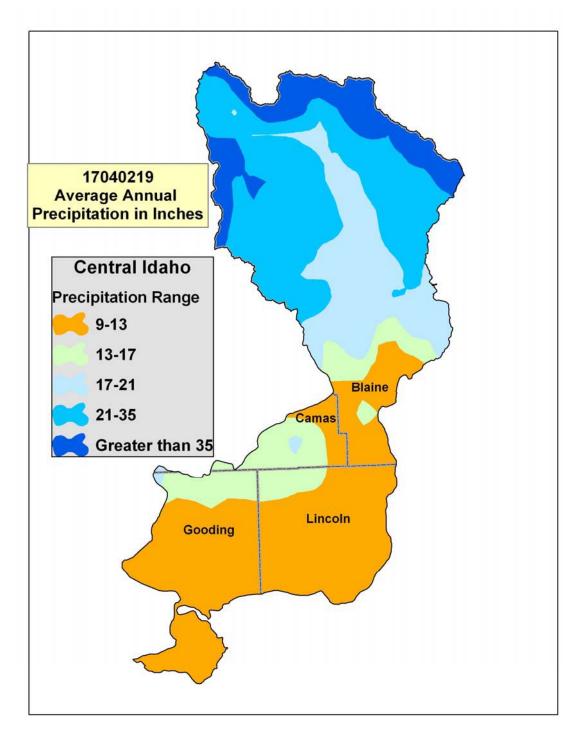




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Average Annual Precipitation

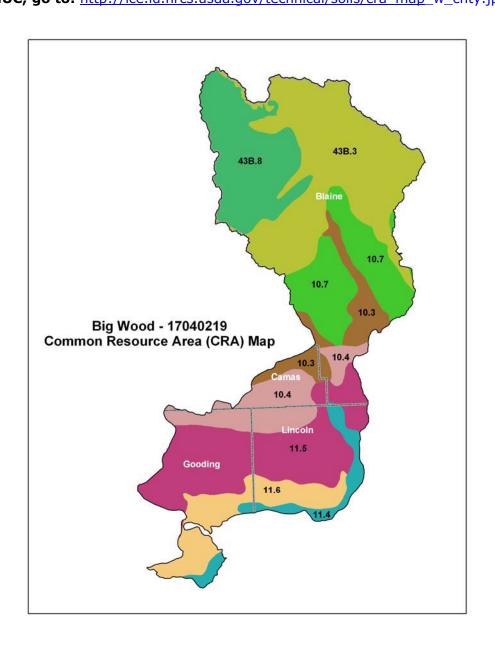




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Common Resource Area Map

CRA Map - areas with a majority are listed below - for descriptions of every class within the HUC, go to: http://ice.id.nrcs.usda.gov/technical/soils/cra_map_w_cnty.jpg





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- 10.3 Central Rocky and Blue Mountain Foothills Camas Prairie: This unit consists of a cold, wet valley used for small grain and alfalfa farming, pasture, range, and wildlife refuge. It is flanked by the foothills of the Rocky Mountains to the north and the Bennett Hills to the south. These foothills trap mountain runoff. Resultant wet soils and flooding occur and are local and seasonal problems. Frigid mollisols are common and are colder than the soils of the lower Treasure Valley. Wet bottomlands support meadow grasses and sedges. Alluvial fans and terraces are covered by grasses and sagebrush.
- 10.4 Central Rocky and Blue Mountain Foothills Semiarid Foothills: The shrub- and grass-covered foothill unit is higher and more rugged than nearby CRA units. A few perennial streams flow across the unit but are absent on the lacustrine deposits of the Unwooded Alkaline Foothills CRA. Shallow, clayey soils are common and often support medusahead, wild rye, cheatgrass, and scattered shrubs. Wildfire frequency is high. Land use is primarily livestock grazing and is distinct from the irrigated agriculture of the Treasure Vallev.
- 10.7 Central Rocky and Blue Mountain Foothills John Day Clarno Moist Uplands: This unit consists of grass and shrub covered foothills in the rain shadow of high elevation mountains. The hills and benches are dry, treeless, and covered by shrubs and grasses. The vegetation mosaic is unlike open forests. Land use is mostly grazing.
- 11.4 Snake River Plains Eastern Snake River Basalt Plains: This unit is characterized by shallow, stony soils that are unsuitable for cultivation. Only small areas have soils deep enough to be farmed under sprinkler irrigation. Rangeland is the dominant land cover. Potential natural vegetation is mostly sagebrush and bunchgrass, although it is cool enough for some regeneration capacity for native plants.
- 11.5 Snake River Plains Mountain Home Uplands: This upland shrub and grass covered unit is sparsely populated. Local relief is between that of the flanking foothills and the Magic and Treasure Valleys. Soils are warmer than the frigid soils of the Owyhee Mountains. Today, cheatgrass, medusahead, wild rye, and sagebrush occur and livestock carrying capacity is low; native grasses are rare and vegetative regeneration capacity is limited.
- 11.6 Snake River Plains Magic Valley: This unit is underlain by alluvium, loess, and basalt lava flows. The aridic soils require irrigation to grow commercial crops. Many canals, reservoirs, and diversions supply water to pastureland, cropland, and residential, commercial, and industrial developments. Small grains, alfalfa, sugar beets, potatoes, and beans are grown. Livestock and dairy farms are common. Dams, irrigation diversions, pollution, and channel alteration have affected water quality. Over-irrigation has raised ground water levels and created artificial wetlands. Natural vegetation is mostly sagebrush and bunchgrass but low terraces have salt tolerant plants. Population density is greater than in adjacent rangeland-dominated units.
- 43B.3 Central Rocky Mountains Dry, Partly Wooded Mountains: The Dry, Partly Wooded Mountains ecoregion is largely underlain by sedimentary and extrusive rocks; granitics are less common than in other parts of the Idaho Batholith. This region is in the rain shadow of high elevation mountains. A mosaic of shrubland, open Douglas-fir forest, and aspen occurs. Mining has affected water quality.
- 43B.8 Central Rocky Mountains Southern Forested Mountains: The Southern Forested Mountains ecoregion is mantled by droughty soils derived from granitic rocks and is only marginally affected by maritime influence. Open Douglas-fir is common, grand fir and subalpine fir occur at higher elevations, and ponderosa pine grows in canyons. Mountain sagebrush and forests are found in the south. Streams are subject to high sediment loading when soils are disturbed.



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Physical Description - continued

		CFS	
	Surface Water	4,912	
Irrigated Adjudicated	Groundwater	623	
Water Rights ^{/6})	Total Irrigated Adjudicated Water Rights	5,535	
			ACRE-FEET
Stream Flow Data / /	USGS 13139500 Big Wood River at Hailey,	Average Annual	358,700
	1971-2000	March-July Average	256,400
		Percent of Amount	71%
	T T		
		MILES	PERCENT
	Names Stream Miles (100K Hydro GIS Layer) ^{/23}	1,070	
Ch D	Total Stream Miles /23	3,303	
Stream Data	Impaired (all pollutant categories) ^{/22}	759	23
	Anadromous Fish Presence (Streamnet)/8	0	
	Bull Trout Presence (Streamnet)/8	0	
	T	ACRES	PERCENT
	Forest	6,155	12%
Land Cover/Use ^{/2}	Grain Crops	2,548	5%
based on a 100 ft.	Grass/Pasture/Hay Lands	15,101	29%
stretch on both	Row Crops	1,713	3%
sides of all streams in the 100K Hydro Layer	Shrub/Rangelands - Includes CRP Lands	22,539	43%
in the 100K Hydro Layer	Water/Wetlands/Developed/Barren	4.146	8%
	Total Acres of 100 ft stream buffers	52,202	100%
	I – slight limitations	2,300	3%
	II – moderate limitations	8,200	12%
	III – severe limitations	30,500	44%
	IV – very severe limitations	26,700	38%
Land Capability	V – no erosion hazard, but other limitations	300	<1%
Class ^{/4}	VI – severe limitations, unsuited for cultivation, limited to pasture, range, forest	1,900	3%
	VII – very severe limitations, unsuited for cultivation, limited to grazing, forest, wildlife	0	0%
	VIII – misc areas have limitations, limited to recreation, wildlife, and water supply	0	0%
	Total Crop & Pasture Lands	69,900	100%



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Physical Description - continued

Confined Animal Feeding Operations – Dairies/Feedlots ^{15, 16}								
Operation Type	Number	300-999	1000-4999	>10,000				
Dairy	31							
Feedlots	8	1	6	1				

Resource Concerns

Pasture: Irrigated pasturelands in high elevation mountain valleys. Annual precipitation is 16-30 inches, and the growing season is 50-100 days. Soils vary from silt loams to gravelly sands, with slopes from 1 to 5 percent. Irrigation water is diverted from streams and distributed by earthen ditches. In the field, water is controlled and directed by ditch tarps on contour ditches and tailwater returns to perennial streams. Some fields have been leveled, smoothed or shaped to allow for irrigation. Plants are a mixture of introduced and native perennial forage species. Conventional tillage is used when rotating pasture and grain. The average rotation is ten years of pasture and two years of small grain. Commercial fertilizers are occasionally used, and soil testing is rarely done.

Hayland: Non-irrigated upland hay consists of introduced perennial grasses and legumes. One cutting is common. Renovations occur every 6-10 years. Soils vary from loams to silt loams with slopes ranging from three to 30 percent. Precipitation is 16 inches or greater.

Irrigated hayland utilizes surface irrigation and is conventionally tilled. Small grains and alfalfa hay are grown in rotation, with alfalfa typically maintained for four to six years. Grazing of crop aftermath may occur. Precipitation is 15 to 20 inches per year with a growing season ranging from 80 to 160 days. Typical soils are loamy sands or finer with slopes of zero to seven percent. Fertilizers and pesticides are applied. Nutrient, pest, and/or irrigation water management typically does not meet Idaho standards.

Surface Irrigated Crops: Conventionally tilled, surface irrigated cropland planted predominantly to row crops. Crops grown include: onions, sugar beets, potatoes, beans, silage corn, grain corn and winter wheat. Alfalfa may be included in the rotation and is typically maintained for three to four years. Fertilizers and pesticides are applied. Nutrient, pest, and/or irrigation water management typically does not meet Idaho standards. Precipitation is 12 inches or less and the growing season is approximately 120-160 days. Typical soils are sandy loam or finer, approximately 15 inches in depth with slopes from zero to seven percent.

Irrigation induced erosion can range from 2.2 tons per acre per year on the flatter slopes, up to 10 tons per acre per year on the steeper slopes. The sediment generated from surface irrigation on cropland is the major source of sediment in the streams within the watershed.



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Resource Concerns - continued

Sprinkler Irrigated Crops: Typical soils are loamy sands or finer. Growing season is approximately 120 to 160 days. Cropland is conventionally tilled and planted predominantly to row crops. A typical rotation is 67 percent low residue crops such as potatoes and sugar beets, and 33 percent high residue crops such as grain and alfalfa. Fertilizer and pesticide application management varies throughout the area. Precipitation is 12 inches or less and the irrigation water source is from canals and groundwater. Hand-lines, wheel-lines and pivots are commonly used to irrigate crops.

Rangeland: Riparian grazing units typically exhibit impacts to riparian vegetation and a loss of woody species. Riparian vegetation consists of grasses, sedges, rushes and a variety of woody species. Streams are primarily low gradient and depend on vegetation for stability. These areas are important habitat for a variety of fish and wildlife. Soils vary from gravelly to loamy. Elevation and precipitation vary widely throughout the area.

Upland rangeland vegetation consists of sagebrush and perennial grasses. Precipitation is six to 16 inches per year, most of which falls in winter and early spring outside the growing season. Topography varies from nearly level flats, up to benches and rolling hills. Soils are loamy to gravelly, usually shallow with some rock outcrops. Fencing is generally an existing practice. Frequent fires have eliminated vast areas of sagebrush. Cheatgrass and other invaders are dominant. Regeneration of native perennial vegetation is limited. Carrying capacities are limited by available water. Land is utilized by antelope and livestock during the winter and early spring.

Forests and Grazed Forests: The riparian forest consists of mixed conifers and deciduous trees. The associated understory is comprised of grasses and brush species with inclusions of wetter areas. Soils are silt loams and clay loams that are shallow to deep, and can have low to high rock fragment content. They range from somewhat poorly to well-drained. Average annual precipitation ranges from 18 to 35 inches. The forest landscape is characterized by level to nearly level landforms. Riparian grazing units typically exhibit impacts to riparian vegetation and a loss of woody species. Important wildlife species include elk, deer, moose, bear, raptors and songbirds.

Ponderosa pine and dryer Douglas fir habitat types are found at elevation ranges from 1,800 to 4,000 feet on a variety of soil types. Annual precipitation is less than 25 inches with hot, dry summers. Slopes are less than 35 percent. The forest understory is dominated by ninebark/oceanspray and associated brush species. Grass and forb species are common. Livestock grazing occurs during the summer and early fall period, and overgrazing is common. Important wildlife species include elk, deer, moose, bear, raptors and songbirds.

Douglas fir, Grand fir, and wetter habitat types are found at elevations greater than 4,000 feet on a variety of soil types. Slopes are greater than 35 percent. Annual precipitation is greater than 25 inches, most of which falls in the winter and spring. Summers are warm and relatively dry. The forest understory is dominated by forbs and scattered grass species, with associated brush species such as snowberry, willow and alder. Livestock grazing occurs during the midsummer and early fall period, and overgrazing is common. Livestock tend to concentrate along



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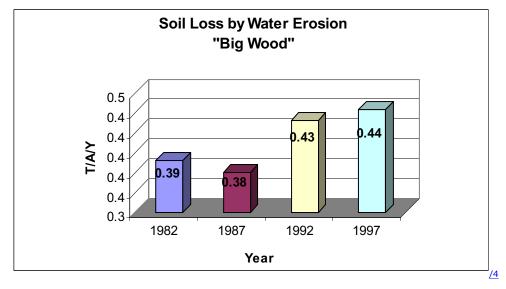
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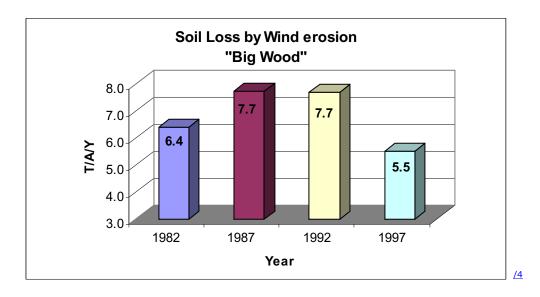
Resource Concerns - continued

the road corridors and riparian areas. Important wildlife species include elk, deer, moose, bear, raptors and songbirds. Sheet and rill erosion by water on the sub-basin croplands, pasturelands and CRP have been essentially static since 1982. Sheet and rill erosion is not a major issue on cropland in this sub-basin. Susceptibility to sheet and rill erosion is low in this sub-basin because the natural precipitation is low and the cropland is relatively flat.

Controlling erosion not only sustains the long-term productivity of the land, but also affects the amount of soil, pesticides, fertilizer, and other substances that move into the nation's waters.



Wind erosion on the sub-basin croplands and pasturelands has been reduced from about $6\frac{1}{2}$ T/A/Y in 1982 to about $5\frac{1}{2}$ T/A/Y in 1997.





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Resource Concerns – continued

Through NRCS programs many farmers and ranchers have applied conservation practices to reduce the effects of erosion by wind. As a result, wind erosion rates on cropland and pasture fell 15 percent between the years 1982 and 1997.

Controlling erosion not only sustains the long-term productivity of the land, but also affects the amount of soil, pesticides, fertilizer, and other substances that move into the nation's waters.

Impacted Water Bodies ^{/22}	Stream Miles	Sediment	Nutrients	Bacteria	Temperature	Dissolved Oxygen	Flow Alteration	Habitat Alteration
Magic Reservoir		X		X	X			X
Big Wood River (SK007_05)	29.0				X		X	X
Big Wood River (SK002_06)	62.5	X	X	X	X	X	X	X
Big Wood River (SK004_05)	39.5	X	X		X		X	X
Big Wood River (SK018_04)	13.1	X	X		X		X	X
Black Canyon Creek (SK030_03)	28.1	X	X		X		X	
Black Canyon Creek (SK030_02)	121.6	X	X		X			
Cove Creek (SK011_02)	40.7	X	X				X	X
Croy Creek (entire)	45.7	X	X				X	
Eagle Creek (entire)	14.3	X	X		X		X	
EF Wood River (entire)	50.5	X *	X *					
Greenhorn Creek (entire)	33.7	X	X		X		X	
Lake Creek (entire)	7.0		X				X	
Malad River (SK001_06)	17.6	X	X	X				
Quigley Creek (entire)	15.9	X	X		X	X	X	
Rock Creek (SK028_03)	9.2	X	X	X	X		X	
Rock Creek (EF)(SK028_02)	39.4	X	X		X		X	X
Seamans Creek (entire)	50.6	X	X		X		X	X
Thorn Creek (entire)	59.2	X	X		X	X	X	X
Warm Springs/Placer Creek (SK024_02,SK024_03)	81.4		X					
	750							
* Pig Wood Piver TMDL room	759		1.0	T .	1.0			

^{*} Big Wood River TMDL recommends removal from Integrated Report. Shading indicates an EPA-approved TMDL. Magic Reservoir is considered "not assessed" in the 2002 Integrated Report.



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Resource Concerns - continued

Nutrients, sediment and temperature are the major pollutants which impact beneficial uses of surface waters in this watershed. Pollutant sources include activities related to timber harvest, grazing, and irrigated agricultural lands. The lack of adequate riparian vegetation contributes to non-support of beneficial uses. Flow alteration problems exist within the watershed.

Conservation practices that can be used to address these water quality issues include erosion control, grazing management, irrigation water management, residue management, nutrient management and riparian buffers.

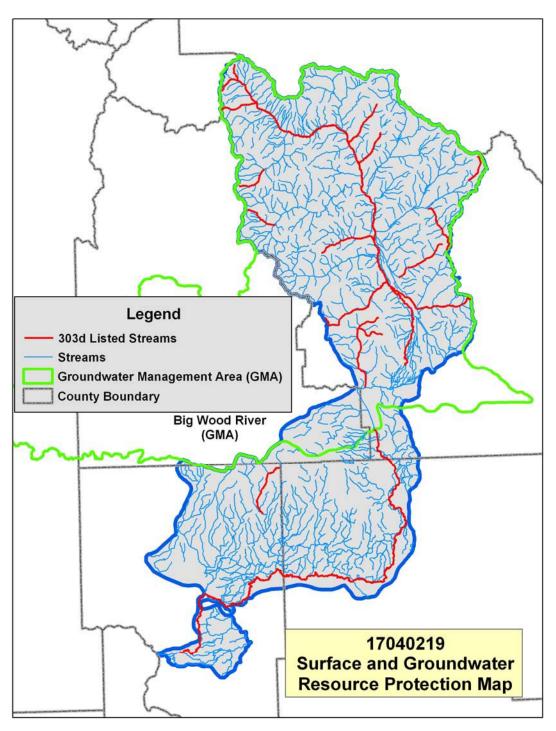
Watershed Projects, Plans, Studies, and Assessments					
Federal/Other Plans and Studies 9, 10	State Plans and Studies				
Gooding Wind Erosion Study 1991					
NWPCC Subbasin Plans and Assessments ²⁰	IDEQ TMDLs 11				
Middle Snake Subbasins Assessment (2004)	Big Wood River (1999)				
	SCC TMDL Agricultural Implementation Plans 12				
	Big Wood River (in progress)				
	IDEQ 319 Projects ¹³				
	Hailey Big Wood River Improvement (2002)				



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Surface and Groundwater Resource Protection





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Resource Concerns – continued

	Resource Concerns/ Issues by La	and Us	se					
SWAPA	Specific Resource Concerns/Issues	Pasture	Hayland	Dry Crops	Surface Irrigated Crops	Sprinkler Irrigated Crops	Rangeland	Grazed and Ungrazed Forest
	Sheet and rill							
	Ephemeral or classic gully							
Soil Erosion	Wind				X	X		
	Streambank	X					X X X X	X
	Irrigation Induced				X			
Water Quantity	Inefficient use on irrigated lands	X	X		X	X		
Water Quality, Surface	Suspended sediment	X	X		X		X	X
water Quarity, Burrace	Nutrients and organics	X	X		X		X	X
Water Quality, Ground	Nutrients and organics		X		X	X	X X X	
water Quarity, Ground	Pesticides		X		X	X		
Soil Condition	Organic matter depletion				X	X		
Son Condition	Compaction	X					X X X X X	X
	Productivity, health and vigor	X	X				X	X
Plant Condition	Noxious and invasive plants	X			X	X	X X X X X X X X X	X
	Wildfire hazard							X
Domestic Animals	Inadequate feed or water	X					X	X
Fish and Wildlife	Inadequate water						X	
1 ion and whatie	Inadequate cover/shelter	X	X		X	X	X	X

Human considerations: Implementation of conservation practices and enhancement has the potential for change in management and cost of production. Installation of practices will have an upfront cost and require maintenance. In the short run increased management may be required as new techniques are learned. Land may be taken out of production for installation of practices or conversion to other uses, such as wildlife habitat. Long term benefits should result from increased soil health, benefits to water quality and wildlife habitat. For CSP Tier II, the third resource concern will be wildlife.

FEDERALLY LISTED THREATENED AND ENDANGERED SPECIES ^{/17}						
Threatened Species	Candidate Species					
Mammals - Lynx	Fish - None					
Birds - Bald eagle	Birds - Yellow-billed cuckoo					
Fish - None						
Invertebrates - None	PROPOSED SPECIES None					
Plants - None	1 130 00 20 1 2 2 2 2 1 0 1 0 1 0 1 0 1 0 1					
ESSENTIAL FISH HABITAT - None						



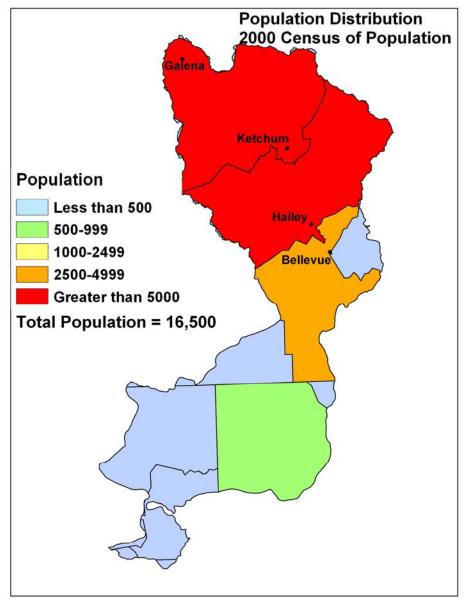
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Census and Social Data

Population: 16,500 Number of Farms: 390

	0-49 acres	50-999 acres	1000+ acres		
Number of Farms	189	169	32		





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Census and Social Data - continued

Sixty-three percent of farm operators are farmers by occupation. The remaining operators have off-farm jobs as their primary occupation. The majority of operators are male; women make up 13 percent of the total. Ninety-two percent of all operators are white. Non-white operators are of Hispanic, American Indian and Asian background.

Farm size ranges from less than 10 acres to more than 1,000 acres with an average of 680 acres. Agricultural land in the watershed is a mix of cropland, range, pasture and hayland. Landusers in the watershed utilize EQIP, CRP, Continuous CRP and other programs to implement conservation plans.

Farm size and market value of production to farmers are up over the past several years. Government payments to farmers are up substantially for the same period. Farm sales range from less than \$1,000 to more than \$500,000 per year. Seventy-one percent of the farms reported sales of less than \$50,000 per year.

	Average size	Market Value of	Government
	farm	Production (Average	Payments (Average
		Farm)	Farm)
1997	660	\$181,900	\$7,200
2002	680	\$241,000	\$13,100
Change	3.0%	32.0%	82.0%

Economic Profile: This watershed is unique because of the Sun Valley Ski resort.

	Watershed	Idaho	United States
Population	16,500		
Per Capita Personal Income	\$34,000	\$24,500	\$30,400
Median Home Value	\$184,300	\$106,600	\$119,600
Percent Unemployment	4.3%	5.4%	5.8%
Percent Below Poverty Level	9.1%	11.7%	12.1%

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Progress/Status

PRMS Data	FY99	FY00	FY01	FY02	FY03	FY04	FY05	Avg /Year	Total
Total Conservation Systems Planned Acres	1940	1298	1309	1120	2838				
Total Conservation Systems Applied Acres	1496	846	576	40	475				
Conservation Treatment									
Waste Management (number)	1	0	4	0	5	0	0	1.4	10
Riparian Forest Buffers (acres)	0	26	0	21	4	0	0	7.3	51
Erosion Control (acres)	491	216	440	240	670			411.4	2057
Irrigation Water Management (acres)	523	422	440	1082	1590	779	317	736.1	5153
Nutrient Management (acres)	0	0	400	520	285	573	384	308.9	2162
Pest Management (acres)	0	0	0	3	0	292	447	106.0	742
Prescribed Grazing (acres)	0	0	0	0	0	0	0	0.0	0
Trees & Shrubs (acres)	55	0	0	3	0	0	0	8.3	58
Residue Management (acres)	0	0	0	0	0	115	336	64.4	451
Wildlife Habitat (acres)	2	26	15	3	259	44	31	54.3	380
Wetlands (acres)	0	0	0	0	0	16	0	2.3	16

^{*}Progress in the last seven years has been focused on:

- ~ irrigation water management
- ~ erosion control
- ~ nutrient management

- ~ erosion control
- $\sim \, nutrient \,\, management$
- ~ irrigation water management
- ~ prescribed grazing
- ~ riparian area improvement
- ~ water quality & water quantity

Lands Removed from Production through Farm Bill Programs

Conservation Reserve Program (CRP): <u>1,100 acres</u>

Wetland Reserve Program (WRP): <u>24 acres</u>

^{*}Resource concerns that require ongoing attention:

Footnotes/Bibliography

All data is provided "as is". There are no warranties, express or implied, including warranty of fitness for a particular purpose, accompanying this document. Use for general planning purposes only.

- 1. Ownership Layer Source: This spatial data contains surface management land status (sometimes known as "ownership") and Public Land Survey System (PLSS) information for Idaho. The Bureau of Land Management (BLM) in Idaho creates and maintains these spatial data layers. The primary source of the spatial features is the BLM Geographic Coordinate Database (GCDB), which contains official survey records and corresponding geodetic control information maintained by the BLM Cadastral program. In areas where GCDB records are unavailable, the spatial features are taken from a variety of sources including the BLM Idaho Resource Base Data collection, US Geological Survey Digital Line Graphs (DLGs), and US Forest Service Cartographic Feature Files (CFFs), among others. The source of the attribute information is the BLM Master Title Plats (MTPs) and careful cooperation with other government agencies that own or manage land parcels. The layer is available from the Inside Idaho (Interactive Numeric & Spatial Information Data Engine): http://inside.uidaho.edu. For current ownership status, consult official records at appropriate federal, state or county offices. Ownership classes grouped to calculate Public Ownership vs. Private Ownership.
- 2. National Land Cover Dataset (NLCD): NLCD 92 (National Land Cover Data 1992) is a 21-category land cover classification scheme that has been applied consistently over the conterminous U.S. It is based primarily on the unsupervised classification of Landsat TM (Thematic Mapper) 1992 imagery. Ancillary data sources included topography, census, agricultural statistics, soil characteristics, other land cover maps, and wetlands data. The NLCD 92 classification is provided as raster data with a spatial resolution of 30 meters. The layer is available from: http://edcwww.cr.usgs.gov/products/landcover/nlcd.html Description: Abstract: These data can be used in a geographic information system (GIS) for any number of purposes such as assessing wildlife habitat, water quality, pesticide runoff, land use change, etc. The State data sets are provided with a 300 meter buffer beyond the State border to facilitate combining the State files into larger regions.
- 3. Farm Service Agency, USDA, 2005. CRP acres from GIS (CLU) database.
- 4. ESTIMATES FROM THE 1997 NRI DATABASE (REVISED DECEMBER 2000) REPLACE ALL PREVIOUS REPORTS AND ESTIMATES. Comparisons made using data published for the 1982, 1987, or 1992 NRI may produce erroneous results. This is due to changes in statistical estimation protocols, and because all data collected prior to 1997 were simultaneously reviewed (edited) as 1997 NRI data were collected. All definitions are available in the glossary. In addition, this December 2000 revision of the 1997 NRI data updates information released in December 1999 and corrects a computer error discovered in March 2000. For more information: http://www.nrcs.usda.gov/technical/NRI/
- 5. PRISM Climate Mapping Project. Annual precipitation data. See www.ocs.orst.edu/prism_new.html for further information.
- 6. Irrigated Adjudicated Water Rights Idaho Department of Water Resources http://www.idwr.idaho.gov/water/srba/mainpage/
- 7. US Geological Survey Water Resources Data for Idaho; and Natural Resources Conservation Service Centralized Forecast System (CFS).
- 8. StreamNet is a cooperative venture of the Pacific Northwest's fish and wildlife agencies and tribes and is administered by the <u>Pacific States Marine Fisheries Commission</u>. Streamnet provided data and data services in support of the region's Fish and Wildlife Program and other efforts to manage and restore the region's aquatic resources. Official Streamnet website: http://www.streamnet.org/
- 9. Natural Resource Conservation Service, Watershed Projects Planned and Authorized, http://www.nrcs.usda.gov/programs/watershed
- 10. Natural Resource Conservation Service, Watershed Plans, Studies and Assessments completed, http://www.nrcs.usda.gov/programs/watershed/Surveys Plng.html#Watershed%20Surveys%20and %20Plan

- 11. Idaho Department of Environmental Quality (IDEQ), Surface Water Quality: Subbasin Assessments, TMDLs, and Implementation Plans. http://www.deq.state.id.us/water/data-reports/surface-water/tmdls/sba-tmdl-master-list.cfm
- 12. Idaho Soil Conservation Commission (SCC), TMDL watershed implementation plans: agricultural com http://www.scc.state.id.us/PDF/Ag%Component%20Status%20Report%20-%202004.pdf
- 13. Idaho Department of Environmental Quality, Watershed protection: Nonpoint source management (319 grant), Reports and program resources. http://www.deg.state.id.us/water/data_reports/surface_water.nps/reports/cfm
- 14. Idaho State Department of Agriculture (ISDA). Groundwater water quality regional projects. http://www.agri.state.idaho.us/Categories/Environment/water/qwReports.php
- 15. (Dairy) Idaho Department of Water Resources: http://www.idwr.state.id.us/gisdata/gis_data.htm
- 16. (Feedlot) Idaho State Department of Agriculture: http://www.agri.state.id.us/ FOIA request.
- 17. NRCS Field Office Technical Guide, Section II, Threatened and Endangered List and the Idaho Conservation Data Center, Idaho Department of Fish and Game http://fishandgame.idaho.gov/cms/tech/CDC/
- 18. Data were taken from the 2002 Agricultural Census and adjusted by percent of HUC in the county or by percent of zip code area in the HUC, depending on the level of data available. Data were also taken from the U.S. Census, 2000 by zip code and adjusted by percent of zip code in the HUC.
- 19. Surface and Groundwater Resource Protection Map
 - a. 303d Listed Streams designated by the Idaho Department of Environmental Quality (1998) and approved by the Environmental Protection Agency, Section 303d Clean Water Act
 - b. Groundwater Management Areas and Critical Groundwater Management Areas designated by the Idaho Department of Water Resources. http://www.idwr.idaho.gov/hydrologic/projects/gwma/
 - c. Nitrate Priority Areas. IDEQ has developed a list of degraded ground water areas. This list focuses on nitrate and ranks the top 25 nitrate-degraded areas (referred to as "nitrate priority areas") in the state based on the severity of the degradation, the population affected, and the trend; the rank of "1" indicates the most severely impacted area in the state. http://www.deg.state.id.us/water/prog_issues/ground_water/nitrate.cfm#ranking
- 20. Subbasin assessments and plans are developed by local groups (SWCDs, Watershed Councils, Tribes and others) as part of the Northwest Power and Conservation Council's fish and wildlife program in the Columbia River Basin. This program is funded and implemented by the Bonneville Power Administration. http://www.nwcouncil.org/fw/subbasinplanning/Default.htm
- 21. Idaho Department of Water Resources (IDWR). State Comprehensive Water Plans. http://www.idwr.idaho.gov/waterboard/planning/Comp Basin Plans.htm
- 22. Idaho Department of Environmental Quality. 2002 Integrated Report.

 http://www.deq.idaho.gov/water/data_reports/surface_water/monitoring/integrated_report.cfm

 Idaho Department of Environmental Quality. 2002 Big Wood River Watershed Management Plan (TMDL)

 http://www.deq.idaho.gov/water/data_reports/surface_water/tmdls/big_wood_river/big_wood_river.cfm
- 23. National Hydrology Dataset (NHD). Developed by U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency and other State and local partners. See http://nhd.usgs.gov/

Big Wood HUC-17040219 Conservation Activities for Irrigated Pasture:

Current Conditions	Total Acres	Riparian/ Wetland Potential
Total Surface Irrigated Pasture	11,110	1,470
Total Sprinkler Irrigated Pasture	4,990	630
Total Irrigated Pasture	16,100	2,100
Typical Management Unit/Ownership	089	90
Current Farm Bill participation	15%	

Current Level of Treatment for Irrigated Pasture:	l Pastu	re:									
Irrigated Pasture	O	Quantity	Costs	S		Effects			lmp	Implementation	tation
Practices	Unit	Quantity	Additional Investment Cost	Annual O&M and Mngt. Cost	Water Conservation	Water Storage	Fish Habitat	Ø	ЕЙЬ	MHIP	Ofher CREP
Surface Irrigation	Ac.	11,110			ငှ	+/-		ဇှ			
Fence (382)	Ft.	7,307	\$0	\$ 300							
Irrigation System Surface (443)	Ac.	ı	\$0	- \$					×		
Irrigation Water Conveyance (430EE)	Ft.	400	\$0	\$ 10					X		
Irrigation Water Management (449)	Ac.	318	\$0	\$ 2,400					X		
Nutrient Management (590)	Ac.	125	\$0	\$ 600					×		
Pasture and Hayland Planting (512)	Ac.	24	\$0	\$ 20					X		
Prescribed Grazing (528)	Ac.	24	\$0	\$ 100					×		
Sprinkler Irrigation	Ac.	4,990			+2	1+	+1	+1			
Fence (382)	Ft.	3,282		\$ 100							
Irrigation System Sprinkler (442)	Ac.	25	\$0	\$ 400					×		
Irrigation Water Conveyance (430DD)	Ft.	7,254	\$0	\$ 300					X		
Irrigation Water Management (449)	Ac.	197	\$0	\$ 1,500					X		
Nutrient Management (590)	Ac.	09	\$0	\$ 300					×		
Pasture and Hayland Planting (512)	Ac.	40	\$0	\$ 40					×		
Prescribed Grazing (528)	Ac.	40	\$0	\$ 200					×		

Future Conditions		Total Acres
Total Surface Irrigated Pasture		3,250
Total Sprinkler Irrigated Pasture		9,750
Total Conversion to Riparian Pasture		
RMS		2,100
Total Acres		16,100

Irrigated Pasture	9	Quantity	Costs	3		Effects			lmp	Implementation	ntation	_
Practices	Unit	Quantity	Additional Investment Cost	Annual O&M and Mngt. Cost	Water Conservation	Water Storage	Habitat	WQ	ЕЙЬ	dIHM	СВЕЬ	Other
Surface Irrigation	Ac.	3,250			-/+	-/+	-/+	+1				
Fence (382)	Ŧ.	53,630	\$81,100	\$1,600					×			×
Irrigation System Surface (443)	Ac.	3,250	\$487,500	\$14,600					×	×	×	×
Irrigation Tailwater Recovery(447)	No.	20	\$302,000	\$9,000					×			×
Irrigation Water Conveyance (430HH)	Ft.	107,250	\$437,600	\$4,400					×			×
Irrigation Water Conveyance (430EE)	Ft.	214,500	\$850,000	\$4,300					×			×
Irrigation Water Management (449)	Ac.	3,250	\$66,000	\$22,000					×			×
Nutrient Management (590)	Ac.	3,250	\$46,900	\$15,600					×			×
Pasture & Hayland Planting (512)	Ac.	1,300	\$127,600	\$1,300					×			×
Pest Management (595)	Ac.	3,250	\$97,500	\$32,500					×			×
Prescribed Grazing (528)	Ac.	3,250	\$48,400	\$16,100					×			×
Structure for Water Control (587)-Fish												
Screen	No.	20	\$240,000	\$2,400					×	×		×
Upland Wildlife Management (645)	Ac.	490	\$7,400	\$2,500					×			×
Watering Facility (614)	No.	20	\$20,000	\$200					×			×

Sprinkler Irrigation	Ac.	9.750			+3	+3	+2	+3				
Fence (382)	Ŧ.	161,040	\$276,100	\$5,500					×			×
Irrigation System Sprinkler (442)	Ac.	9,750	\$6,807,500	\$136,200					×			×
Irrigation Water Conveyance (430DD)	Ŧ.	73,800	\$493,800	\$2,500					×			×
Irrigation Water Management (449)	Ac.	9,750	\$214,900	\$71,600					×			×
Nutrient Management (590)	Ac.	9,750	\$145,400	\$48,500					×			×
Pasture & Hayland Planting (512)	Ac.	3,900	\$386,000	\$3,900					×			×
Pest Management (595)	Ac.	9,750	\$292,500	\$97,500					×			×
Prescribed Grazing (528)	Ac.	9,750	\$145,700	\$48,600					×			×
Structure for Water Control (587)-Fish Screen	o Z	09	\$720,000	\$7.200					×	×		×
Tree/Shrub Establishment (612)	Ac.	30	\$13,500	\$100								
Upland Wildlife Management (645)	Ac.	1,460	\$21,900	\$7,300					×			×
Watering Facility (614)	No.	09	\$60,000	009\$					×			×
Riparian Pastures	Ac.	2,100			+1	+1	+3	+3				
Use Exclusion (472)	Ac.	105	\$3,700	\$100					×	×	×	×
Riparian Herbaceous Cover (390)	Ac.	25	\$1,300	\$10					×	×	×	×
Riparian Forest Buffer (391)	Ac.	3	\$9,000	\$100					×			×
Pasture & Hayland Planting (512)	Ac.	840	\$84,000	\$800					×			×
Pest Management (595)	Ac.	2,100	\$63,000	\$21,000					×			×
Nutrient Management (590)	Ac.	2,100	\$31,500	\$10,500					×			×
Prescribed Grazing (528)	Ac.	2,100	\$31,500	\$10,500					×			×
Watering Facility (614)	No.	13	\$13,000	\$100					×		×	×
Fence (382)	Ft.	34,650	\$60,600	\$1,200					×	×	×	×
Streambank & Shoreline Prot (580)	Ft.	22,260	\$534,200	\$53,400					×			×
Upland Wildlife Management (645)	Ac.	315	\$4,700	\$1,600					×			×
Wetland Wildlife Management (644)	Ac.	105	\$1,600	\$200					×			×
Total RMS Costs			\$13,227,400	\$655,810								

Potential RMS Effects Summary for Irrigated Pasture			
Cost Items and Programs)	Costs	O&M Costs
Non Farm Bill Programs (5 percent of total)	\$	661,400	\$ 32,800
Potential Farm Bill Programs 95 percent of total	\$ 12	\$ 12,566,000	623,010
Operator O&M and Management Cost			\$ 655,810
Annual Management Incentives (3 yrs - Incentive Payments)	\$	1,218,900	
Operator Investment (25% Cost Share)	\$	2,836,800	
Federal Costs (75% Cost Share)	\$	8,510,300	
Total RMS Costs	\$ 12	\$ 12,566,000	
Estimated Level of Particpation		12%	
Total Acres in RMS System		12,100	
Total Acre Feet of Water Saved Annually		20,910	
Total Annual Forage Production Benefits (animal unit months)		56,700	
Improves riparian habitat for ESA endangered & threatened species			

Big Wood HUC-17040219 Conservation Activities for Irrigated Cropland/Hayland:

onditions	Total
Total Irrigated Cropland/Hayland	55,580
Typical Management Unit/Ownership	089
Total Surface Irrigated Cropland/Hayland	28,900
Typical Sprinkler Irrigated	
Cropland/Hayland	26,680
Current Farm Bill participation	15%

Current Level of Treatment for Irrigated Cropland/Hay	Croplan	d/Hayland::										
Irrigated Cropland/Hayland	ō	Quantity	Costs	sts		Effects			lmp	leme	Implementation	ر
			Additional	Annual O&M and					Яl	dIН	EP	Jer
:	:	;	Investment	Mngt.	Water	Water	Fish		EC	ΙM	СВ	ŀΟ
Practices	Onit	Quantity	Cost	Cost	Conservation	Storage	Habitat	WQ				
Surface Irrigation	Ac.	28,900			-3	+/-	-2	-3				
Irrigation System Surface (443)	Ac.	40	0\$	\$ 200					×			
Irrigation Water Conveyance (430EE)	Ft.	400	0\$	- \$					×			
Pest Management (595)	Ac.	792	0\$	\$ 2,900					×			
Nutrient Management (590)	Ac.	1032	0\$	\$ 5,200					×			
Irrigation Water Management (449)	Ac.	2298	0\$	\$ 17,200					×			
Structure for Water Control (587)	Ac.	1	0\$	- \$					×			
Sprinkler Irrigation	Ac.	4,990			+1	-/+	+1	+3				
Irrigation System Sprinkler (442)	Ac.	5,228	0\$	\$ 73,200					×			
Irrigation Water Conveyance (430DD)	Ft.	7,754	0\$	\$ 300					×			
Pest Management (595)	Ac.	969	0\$	\$ 7,000					×			
Nutrient Management (590)	Ac.	1256	0\$	\$ 6,300					×			
Irrigation Water Management (449)	Ac.	3133	0\$	\$ 23,500					×			
Structure for Water Control (587)	Ac.	1	0\$	- \$					×			

Future Conditions	Total Acres
Total Surface Irrigated Cropland/Hayland	13,890
Total Sprinkler Irrigated Cropland/Hayland	41,690
Total Acres	55,580

Floject Futule Level of Heatment for Imgated Cropiand/nayland.	מופח כי	Opiditame	ylaliu.									
Irrigated Cropland/Hayland	g	Quantity	Costs	ts		Effects			ldul	Implementation	ation	
Practices	Unit	Quantity	Additional Investment Cost	Annual O&M and Mngt. Cost	Water Conservation	Water Storage	Habitat	WQ	ЕЙЬ	MHIP	СВЕЬ	Other
Surface Irrigation	Ac.	13,890			+2	+1	+2	+2				
Anionic Polyacrylamide, (PAM) (450)	Ac.	13,890	\$ 625,100	\$ 208,400					×			×
Irrigation System, Surface (443)	Ac.	13,890	\$ 2,077,500	\$ 62,300					×			×
Irrig. Tailwater Recovery (447)	No.	98	\$ 1,283,500	\$ 38,500					×			×
Irrigation Water Conveyance (430 EE)	Ft.	916,740	\$ 3,637,900	\$ 18,200					×	×		×
rrigation Water Management (449)	Ac.	13,890	\$ 260,800	\$ 58,000					X			×
Land Leveling/Smoothing (466 & 464)	Ac.	3,480	\$ 696,000	\$ 20,900					×			×
Nutrient Management (590)	Ac.	13,890	\$ 192,900	\$ 64,300					X			×
Pasture & Hayland Planting (512)	Ac.	2,560	\$ 556,000	\$ 5,600					X		×	×
Pest Management (595)	Ac.	13,890	\$ 407,900	\$ 136,000					X			×
Sediment Basin (350)	No.	06	\$ 247,500	\$ 7,400					×			×
Residue Mngt, Mulch Till (329B)	Ac.	13,890	\$ 625,100	\$ 208,400					×			×
Structure for Water Control (587) -Fish												
Screen	No.	175	\$ 210,000	\$ 2,100					×			×
Upland Wildlife Habitat Management												
(645)	Ac.	2,080	\$ 31,200	\$ 10,400					×			×
Windbreak/Shelterbelt Establishment	ĭ		6						*			;
(380)	Ħ.	229,190	\$ 1,164,300	\$ 11,600					×			×

Project Future Level of Treatment for Irrigated Cropland/Hayland Continued:	rrigated	Cropland/Ha	ayland Continu	ed:								
Irrigated Cropland/Hayland	ā	Quantity	Costs	sts		Effects			Imple	Implementation	tation	
Practices	Unit	Quantity	Additional Investment Cost	Annual O&M and Mngt. Cost	Water Conservation	Water Storage	Habitat	× Ø	ЕЙЬ	MHIP	СВЕЬ	Other
Sprinkler Irrigation	Ac.	41,690			+3	+2	+2	+3				
Cover Crop (340)	Ac.	12,500	\$ 625,000	\$ 6,300					×			×
Irrigation System, Sprinkler (442)	Ac.	41,690	\$25,523,400	\$ 510,500					X			×
Irrigation Water Conveyance (430DD)	Ft.	230,780	\$ 1,654,900	\$ 8,300					X			×
Irrigation Water Management (449)	Ac.	41,690	\$ 867,500	\$ 289,200					×			×
Nutrient Management (590)	Ac.	41,690	\$ 606,500	\$ 202,200					X			×
Pasture & Hayland Planting (512)	Ac.	16,670	\$ 1,667,000	\$ 16,700					X		×	×
Pest Management (595)	Ac.	41,690	\$ 1,229,800	\$ 409,900					X			×
Residue Mngt, Mulch Till (329B)	Ac.	41,690	\$ 1,876,100	\$ 625,400					×			×
Structure for Water Control (587) -Fish												
Screen	No.	260	\$ 312,000	\$ 3,100					×			×
Upland Wildlife Habitat Management (645)	Ac	6.250	008.86	\$ 31,300					×			×
Windbreak/Shelterbelt Establishment		,										
(380)	Ŧ.	687,890	\$ 3,494,500	\$ 34,900					×			×
Total RMS Costs			\$49,966,200	\$2 989 900								

Potential RMS Effects Summary for Irrigated Cropland/Hayland		
		O&M
Cost Items and Programs	Costs	Costs
Non Farm Bill Programs (5 percent of total)	\$ 2,498,300	\$ 149,500
Potential Farm Bill Programs 95 percent of total	\$47,467,900	\$2,840,400
Operator O&M and Management Cost		\$2,989,900
Annual Management Incentives (3 yrs - Incentive Payments)	\$ 4,940,600	
Operator Investment (25% Cost Share)	\$10,631,800	
Federal Costs (75% Cost Share)	\$31,895,500	
Total RMS Costs	\$47,467,900 \$2,989,900	\$2,989,900
Estimated Level of Particpation		75%
Total Acres in RMS System		41,700
Total Acre Feet of Water Saved Annually		41,165
Increases infiltration and storage of water in soil profile		
Participating landowners will be in compliance with TMDLs		
Improves habitat for ESA endangered & threatened species		

Big Wood HUC-17040219 Conservation Activities for Grazed Dry Pasture and Rangeland:

Current Conditions	Grazed	Ungrazed	Grazed Ungrazed Riparian/Wetland/Potential Total Acres	Total Acres
Total Private Dry Pasture &				
Rangeland	96,075	19,215	12,810	128,100
Typical Range Management Unit	4,000			
Current Farm Bill participation	15%			

Current Level of Treatment for Grazed Dry Pasture and Kangelands	ed Dry Fa	asture and _K	angelands:										
Grazed Dry Pasture and Rangeland	70 O	Quantity)	Costs		Effects			lπ	plem	mplementation	on	
; (:	;	Investment	Annual O&M	Water	Water		(EØIP	dIHW	WRP	СВЕЬ	Other
Practices	Onit	Quantity	Cost	and Mngt. Cost	Conservation	Storage	Habitat	δW					
Without prescribed grazing	Ac.	19,215			+/-	-1	-3	-3					
Pond (378)	No.	2	\$0	\$ 100					×				
Watering Facility (614)	No.	1	\$0	- \$					×				
Fence (382)	Ft.	2,132	\$0	\$ 100					×				
With prescribed grazing	Ac.	96,075	\$0		-/+	+/-	-/+	-/+					
Prescribed Grazing (528)	Ac.	475	\$0	\$ 2,400					×				
Pond (378)	No.	4	\$0	\$ 200					×				
Watering Facility (614)	No.	1	\$0	-					×				
Pipeline (516)	Ft.	135	\$0	\$					×				
Range planting (550)	Ac.	09	\$0	\$ 100					×				
Fence (382)	Ft.	13,000	\$0	\$ 500					×				

Future Conditions	Rangeland/Pasture	Riparian	Total Acres
Private Dry Pasture and Rangeland	115,290	12,810	128,100

Project Future Level of Treatment for Grazed Dry Pasture a	or Grazed	Dry Pasture	and Rangelands:	ınds:									
Grazed Dry Pasture and Rangeland	ਰੱ	Quantity	O	Costs		Effects				mplementation	menta	tion	
Practices	Unit	Quantity	Investment Cost	Annual O&M and Mngt. Cost	Water Conservation	Water Storage	Habitat	WQ	ЕЙЬ	MHIP	ЧЯР	СВЕЬ	Other
Dry Pasture and Rangeland	Ac.	115,290			+3	+2	+3	+3					
2000	i	000	7						;				;
Fence (382)	L L	1,902,285	Ξ,						<				<
Firebreak (394)	Ŧ.	475,570	\$ 917,900	\$ 183,600					×				×
Pest Management (595)	Ac.	115,290	\$ 3,458,700	\$ 1,152,900					×				×
Pipeline (516)	Ft.	1,902,280	\$ 5,135,800	\$ 102,700					×				×
Pond (378)	No.	46	\$ 200,000	\$ 2,000					×				×
Prescribed Grazing (528)	Ac.	115,290	\$ 1,722,200	\$ 574,100					×				×
Range Planting (550)	Ac.	38,050	ניא	\$ 34,200					×				×
Spring Development (574)	No.	180	\$ 423,000	\$ 2,100					×	×			×
Upland Wildlife Management (645)	Ac.	17,290	\$ 259,400	\$ 86,500					×	×			×
Watering Facility (614)	No.	720	\$ 718,000	\$ 14,400					×				×
Dry Pasture and Rangeland													
Riparian	Ac.	12,810			+3	+1	+3	+3					
Channel Bank Vegetation (322)	Ac.	120	\$ 600,000	\$ 12,000					×				×
Channel Stabilization (584)	Ŧ	17,250	\$ 310,500	\$ 6,200					×				×
Fence (382)	Τ̈́	211,365	\$ 369,900	\$ 7,400					×	×	×		×
Pest Management (595)	Ac.	12,810	\$ 384,300	\$ 128,100					×				×
Pipeline (516)	Ft.	211,360	\$ 570,700	\$ 11,400					×				×
Prescribed Grazing (528)	Ac.	12,810	\$ 192,200	\$ 64,100					×				×
Pumping Plant (533)	No.	40	\$ 114,000	\$ 2,300					×				×
Riparian Forest Buffer (391)	Ac.	120	\$ 360,000	\$ 3,600					×				×
Riparian Herbaceous Cover (390)	Ac.	120	\$ 6,000	\$ 100					×	×	×		×
Streambank & Shoreline Prot (580)	Ft.	172,510	\$ 4,140,200	\$ 414,000					×	×			×
Tree/Shrub Establishment (612)	Ac.	200	\$ 90,000	\$ \$					×				×
Upland Wildlife Management (645)	Ac.	1,920	\$ 28,800	\$ 9,600					×	×			×
Use Exclusion (472)	Ac.	640		\$ 700					×	×	×		×
Watering Facility (614)	No.	80	\$ 80,000	\$ 1,600					×		×		×
Total RMS Costs			\$25,398,900	\$ 2,852,000									

Potential RMS Effects Summary for Private Grazed Dry Pasture and Rangeland	zed Dry Pas	ture	and
Cost Items and Programs	Costs	õ	O&M Costs
Non Farm Bill Programs (5 percent of total)	\$ 1,269,900	\$	142,600
Potential Farm Bill Programs 95 percent of total	\$24,129,000	s	2,709,400
Operator O&M and Management Cost		\$	2,852,000
Annual Management Incentives (3 yrs - Incentive			
Payments)	\$ 6,045,600		
Operator Investment (25% Cost Share)	\$ 4,520,900		
Federal Costs (75% Cost Share)	13,562,500		
TOTAL DINO CONTRACT	000 001 100	€	00000000
Total Rivis Costs	\$24,129,000 \$	0	7,632,000
Estimated Level of Particpation			75%
Total Acres in RMS System			96,100
Total Annual Forage Production Benefits (acre unit months)			19,100
Improves infiltration and storage of water in soil profile			
Improves upland wildlife habitat for deer, elk, antelope and other species	ther species		
Improves water quality by reducing erosion and sediment delivery to streams	livery to stream	S	

Big Wood HUC-17040219 Conservation Activities for Forestlands:

Current Conditions	Grazed	Grazed Ungrazed	Total Acres
Total Private Forestlands	3,680	920	4,600
Typical Forest Management Unit			
Current Farm Bill participation	2%		

Current Level of Treatment for Forestiand:	orestiand.												
Forestlands	Ö	Quantity	တ	Costs		Effects				mplementation	nenta	tion	
Practices	Unit	Quantity	Investment Cost	Annual O&M and Mngt. Cost	Water Conservation	Water Storage	Habitat	WQ	ЕЙЬ	MHIP	МКР	СВЕЬ	Other
Forestland (Grazed)	Ac.	3,680			-/+	-/+	-/+	-/+					
Forestland (Ungrazed)	Ac.	920			-/+	-/+	-/+	-/+					
Tree and Shrub Establishment	V	6	\$ 03E1 \$	θ					>				
		-							<				

Future Conditions		Total Acres
Forest land		4,600

	,	Other		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	
	Implementation	СВЕЬ																				
	lemer	ЧЯМ																				
	lmp	MHIP														×				×		
		ЕЙЬ		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	
		WQ	+3																			
	9	Habitat	6+																			
	Effects	Water Storage	+5																			
		Water Conservation	+2																			
	sts	Annual O&M and Mngt. Cost		\$ 318,800	\$ 7,100	\$ 6,600	\$ 8,400	006,7 \$	- \$	\$ 2,600	\$ 200	\$ 46,000	\$ 10,700	\$ 23,000	\$6,000	\$ 140	\$ 34,010	\$13,400	\$ 1,400.00	\$ 4,600	008 \$	\$ 490,550
S:	Costs	Investment Cost		\$2,125,200	\$ 142,600	\$ 218,500	\$ 418,600	\$ 36,600	\$ 345,000	\$ 517,500	\$ 43,700	\$ 138,000	\$ 534,100	000'69 \$	\$600,000	\$ 28,200	\$1,700,500	\$133,600	\$ 142,700	\$ 13,800	\$ 30,000	\$7,237,600
ed Forestland	Quantity	Quantity	4,600	151,800	28,520	460	239,200	18,975	1,380	1,150	46	4,600	97,800	4,600	200	12	96	5,565	320	920	30	
t for Graz	Ö	Unit	Ac.	Ft.	Ft.	Ac.	Ft.	Ft.	Ac.	Ac.	Ac.	Ac.	Ft.	Ac.	Ac.	No	Ac.	Ft.	Ac.	Ac.	No.	
Project Future Level of Treatment for Grazed Forestlands:	Forestlands	Practices	Forestland	Access Road (560)	Animal Trails and Walkways (575)	Critical Area Planting (342)	Fence (382)	Firebreak (394)	Forest Site Preparation (490)	Forest Stand Improvement (666)	Forest Trails and Landings (655)	Pest Management (595)	Pipeline (516)	Prescribed Grazing (528)	Riparian Forest Buffer (391)	Spring Development (574)	Stream Habitat Improvement (395)	Streambank&Shoreline Protec (580)	Tree/Shrub Establishment (612)	Upland Wildlife Management (645)	Watering Facility (614)	Total RMS Costs

Potential RMS Effects Summary for Private Grazed Forestlands		
		O&M
Cost Items and Programs	Costs	Costs
Non Farm Bill Programs (5 percent of total)	\$ 361,900	\$ 24,500
Potential Farm Bill Programs 95 percent of		
total	\$6,875,700	\$466,050
Operator O&M and Management Cost		\$490,550
Annual Management Incentives (3 yrs - Incentive Payments)	\$ 220,800	
Operator Investment (25% Cost Share)	\$1,663,700	
Federal Costs (75% Cost Share)	\$4,991,200	
Total RMS Costs	\$6,875,700	\$490,550
Estimated Level of Particpation	%5/	
Total Acres in RMS System	3,450	
Total Annual Forage Production Benefits	2,300	
Improves infiltration and storage of water in soil profile		
Improves upland wildlife habitat for elk, deer, antelope and other species	cies	
Improves water quality by reducing erosion and sediment delivery to streams	streams	