

United States Department of Agriculture

Forest Service

Pacific Southwest Region

Stanislaus National Forest



March 1999

1998 Monitoring and Evaluation Report



United States Department of Agriculture Forest Service Stanislaus National Forest 19777 Greenley Road Sonora, CA 95370-5909 (209) 532-3671 FAX: (209) 533-1890 TTY/TDD: (209) 533-0765 http://www.r5.fs.fed.us/stanislaus

File Code: 1900 Date: March 31, 1999

Dear Friends:

I am pleased to announce completion of the Stanislaus National Forest 1998 Monitoring and Evaluation Report. The Report documents the results of monitoring and evaluation activities accomplished during federal fiscal year 1998 (October 1, 1997 to September 30, 1998). It also presents the Interdisciplinary Team's (IDT) conclusions and recommendations based on those results.

The Report identifies several major 1998 accomplishments, related to the recommendations contained in the Stanislaus National Forest 1997 Monitoring and Evaluation Report:

- The Forest completed the Emigrant Wilderness Direction Forest Plan Amendment.
- Additional monitoring and documentation occurred on 6 items previously identified for increased monitoring and/or documentation.
- The Forest Leadership Team conducted two Forest Plan Standards and Guidelines (S&Gs) Reviews.
- The 1999 Program of Work identifies monitoring as an emphasis item.

I support the IDT findings. Full implementation of their recommendations depends on adequate funding. Accordingly, the Forest will:

- 1. Improve application of management prescriptions for 3 items: Sensitive Plants selected populations; S&Gs for soil productivity; and, Watershed S&Gs.
- 2. Complete Forest Plan Amendments for the Carson-Iceberg and Mokelumne Wildernesses.
- 3. Focus monitoring program on resource conditions rather than accomplishments.
- 4. Increase Monitoring and/or Documentation, to the levels specified in the Forest Plan, for 17 Forest Plan monitoring items.

The 1998 Monitoring and Evaluation Report is available by request. Call, write, or stop by the Forest Supervisor's Office for copies. You may submit requests by e-mail (webmaster/r5_stanislaus@fs.fed.us). You may also view the Report on the Forest's website (http://www.r5.fs.fed.us/stanislaus/mgmt/mereport).

Comments received on this report will be considered in preparing future reports. Please submit comments, or any written requests for the documents to:

Stanislaus National Forest Attn.: Monitoring 19777 Greenley Road Sonora, CA 95370

Sincerely,

Ban Z. Leudala

BEN L. DEL VILLAR Forest Supervisor

Stanislaus National Forest 1998 Monitoring and Evaluation Report

Alpine, Calaveras, Mariposa and Tuolumne Counties, California March 1999

Lead Agency: U.S. Department of Agriculture Forest Service Pacific Southwest Region Stanislaus National Forest

Further Information: Stanislaus National Forest Attn: Monitoring 19777 Greenley Road Sonora, CA 95370 (209) 532-3671

Abstract

The 1998 Monitoring and Evaluation Report, prepared by an Interdisciplinary Team (IDT) for the Forest Supervisor, documents the results of monitoring and evaluation activities accomplished on the Stanislaus National Forest from October 1, 1997 to September 30, 1998. The accomplishments shown are based on projects and activities reported and performed to the levels specified in the Forest Plan. The Report presents the IDT's review of the monitoring results, along with their conclusions and recommendations based on those results.

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1998 Monitoring and Evaluation Report

1. Introduction

The Regional Forester approved the Stanislaus National Forest Land and Resource Management Plan (Forest Plan) and Environmental Impact Statement (EIS) on October 28, 1991 (USDA 1991). Chapter V of the Forest Plan includes a monitoring program. As stated in the Forest Plan (pg. V-1) the purpose of monitoring is to:

- 1. Inform the decision maker of progress toward achieving Plan goals and objectives, and applying standards and guidelines.
- 2. Determine the costs and effects of Plan implementation.
- 3. Identify when Plan amendments/revisions are needed.

In addition to monitoring, the Forest Plan requires evaluation of results. Evaluation is the analysis and interpretation of monitoring data to determine whether changes in the Forest Plan, or in project implementation are necessary. Monitoring and evaluation are critical elements ensuring that the Forest Plan remains a dynamic and responsible tool for managing the Forest's land and resources in a changing social and economic climate.

This report, prepared by an Interdisciplinary Team (see List of Preparers) for the Forest Supervisor, documents the results of monitoring and evaluation activities accomplished on the Stanislaus National Forest during federal fiscal year 1998 (October 1, 1997 to September 30, 1998). The accomplishments shown in this report are based on projects and activities reported and performed to the levels specified in the Forest Plan. Although more monitoring may occur, the Interdisciplinary Team (IDT) did not show accomplishments for any items without documentation or, conducted at less than Forest Plan levels. The IDT reviewed this information in light of Forest Plan Chapter V requirements. Later, the IDT completed its evaluation in an integrated fashion to develop the recommendations contained in this Report.

2. Monitoring Activities

The Forest Plan (as amended) now includes a total of 99 individual monitoring items in 22 broad categories ranging from Air Quality to Forest Standards and Guidelines (S&Gs). Table 1 (see Appendix) shows monitoring and evaluation accomplishments as reported for fiscal year 1998. It lists the 22 Forest Plan categories (Resource) and a short description of each monitoring objective (Objective). The item number (Key), is used for tracking purposes. Monitoring activities or accomplishments are shown by National Forest System Watershed (USDA 1991). Items shown as not applicable under accomplishments in Table 1 do not occur or apply in that particular watershed.

3. Evaluation of Monitoring

The IDT reviewed the results of monitoring and evaluation activities in an integrated fashion. In order to draw conclusions and make recommendations, the team identified these questions.

- Does the Forest Plan work?
- What monitoring has been done and what does it mean?
- Does monitoring relate to Forest Plan goals?
- Do managers consider monitoring results when making decisions?
- Do we monitor the right things?
- What additional monitoring is needed?
- What have we learned from outside sources?

Table 2 (see Appendix) shows a summary of the results of monitoring accomplished during the reporting period. Similar to Table 1, it lists the Resources and Objectives along with the IDT evaluation of results and their conclusions and recommendations. The sections immediately following present more detailed explanations. Items shown as not applicable under results in Table 2 do not have standards or limits of variability established in the Forest Plan.

3.1 Results

Monitoring activity occurred on 30 of the 99 Forest Plan items and on 5 non-Forest Plan items. The IDT reviewed the information pertaining to all 104 items, comparing conditions to monitoring limits of variability defined and established in Forest Plan Chapter V.

This Section provides a summary of the results obtained from monitoring activities conducted on the Stanislaus during fiscal year 1998. While conducting this portion of the evaluation, the IDT also considered the monitoring results contained in the 1997 Stanislaus National Forest Monitoring and Evaluation Report (USDA 1998a). Results show each item falling into one of the following categories (see Appendix, Table 2 for notes and legend).

- A. Conditions within limits of variability
- B. Conditions not within limits of variability
- C. Not enough information
- D. Not Applicable (no standards)
- E. None Conducted or Reported

A. Conditions Within Limits of Variability

The IDT determined conditions are within limits of variability on 9 items:

- 2-1 Cultural Resource cumulative effects
- **4-1** Fire acre control objectives
- **5-23** Lahontan Trout population
- 6-1 Forest Pests problems and damage
- 9-2 Permitted and actual AUMs
- **10-5** Motor vehicle conflicts
- **16-1** Roads closed to public vehicles
- **16-3** Road construction
- 10-5 Road construction
- **18-1** Water quality standards (BMPs)

B. Conditions not Within Limits of Variability

The IDT determined conditions are not within limits of variability on 12 items:

- 9-3 Allotment management objectives
- 9-4 Range administration and compliance
- **9-5** Range improvements
- **10-2** Condition of developed sites
- **11-1** Riparian maintained/improved
- 12-1 Sensitive Plants selected populations
- 13-1 S&Gs for soil productivity
- **13-6** Soil hydrologic function
 - 15-6 Reforestation
 - **15-7** Burn area reforestation
 - 18-2 Watershed S&Gs
 - 22-1 Forest S&Gs reviews

The following information provides some details for each item listed above.

- **9-3** Allotment Management Objectives At times, some allotments were not in full compliance with their allotment management objectives.
- **9-4** Range Administration and Compliance At times, some allotments were not in total compliance with the terms of their permits.
- **9-5** Range Improvements At times, some allotment improvements were not in compliance with their allotment plan, annual instructions or permit.
- **10-2** Condition of Developed Sites Due to budget limitations and a previously identified \$12.5 million rehabilitation backlog, achieving the limit of variability for this activity is not feasible.
- 11-1 Riparian Maintained/Improved Monitoring indicates most, but less than 90% of Streamside Management Zones (SMZs), are being implemented correctly.
- **12-1** Sensitive Plants Selected Populations Monitoring of selected populations showed several sensitive plant occurrences not within the limits of variability possibly due to both natural causes and management activities.
- 13-1 S&Gs for Soil Productivity Soil cover and soil organic matter are not within the limit of variability due to contour tilling on some site preparation projects. Some older plantations (Wrights Creek or Granite Burn), that did not require retention of large woody debris, do not meet the surface organic matter limits of variability.
- **13-6** Soil Hydrologic Function Monitoring of selected meadow soils showed that infiltration rates were not within the range of natural variability at numerous locations.
- 15-6 Reforestation
- **15-7** Burn Area Reforestation Due to catastrophic fires, limited funding and available workforce, reforestation of some areas has not been accomplished within 5 years of harvest.
- 18-2 Watershed S&Gs
 Streambank stability, ground cover and vegetative structure monitoring indicate the SMZ S&G is implemented at less than 90%.

22-1 Forest S&Gs Reviews Some conditions resulting from catastrophic natural fires and a landslide do not meet Forest Plan S&Gs.

C. Not Enough Information

Although monitoring occurred at Forest Plan specified levels, the IDT could not determine whether conditions are within, or not within limits of variability on 9 items:

- **5-1** Wildlife: vegetation diversity
- **5-2** Wildlife: special habitat
- **5-6** Spotted Owl population and habitat
- 5-9 Goshawk population
- 5-12 Great Gray Owl population

D. Not Applicable

- 5-19 Mule Deer population
- 5-26 Meadow Bird habitat capability
- 9-1 Range condition and trend
- 13-4 Soil resource improvements

The IDT could not evaluate conditions because the Forest Plan does not include monitoring standards or limits of variability on 5 items:

- 4-A Fuel treatments
- 5-A Bald Eagle nesting
- 5-B Western Pond Turtle

- 5-C Amphibians
- 9-A Noxious Weeds

E. None Conducted or Reported

The IDT could not evaluate conditions because monitoring did not occur; or, monitoring occurred but was not reported on the remaining 69 Forest Plan monitoring items (see Appendix, Table 2, result E).

3.2 Conclusions

This Section provides a summary of the IDT conclusions based on results obtained from monitoring activities conducted on the Stanislaus during fiscal year 1998. While conducting this portion of the evaluation, the IDT also considered the conclusions contained in the 1997 Stanislaus National Forest Monitoring and Evaluation Report (USDA 1998a).

While evaluating the overall Forest Plan monitoring program, the IDT found:

- The Forest completed the Emigrant Wilderness Direction Forest Plan Amendment.
- Additional monitoring and documentation occurred on 6 items previously identified for increased monitoring and/or documentation.
- The 1999 Program of Work identifies monitoring as an emphasis item.
- Managers often consider monitoring information while developing and approving site specific projects.
- The Forest Leadership Team conducted two Forest Plan S&Gs Reviews.
- Forest Plan monitoring program requirements are not fully implemented for several reasons: the program is too ambitious and based on a much larger overall Forest program than exists; lack of funding and staffing; and, other priorities and emergencies.

While evaluating the specific results of each individual monitoring activity, the IDT developed conclusions using the following broad categories:

- 1. No Action (continue current monitoring)
- 2. Improve Application of Management Prescriptions
- 3. Amend Forest Plan Management Prescriptions
- 4. Amend Forest Plan S&Gs
- 5. Amend Forest Plan Management Area Allocations
- 6. Amend Forest Plan Schedule of Outputs
- 7. Revise Forest Plan
- 8. Amend Forest Plan Monitoring Items
 - a. Accomplishments
 - b. Duplicate or Not Feasible
- 9. Amend Forest Plan Chapter V
- 10. Increase Monitoring and/or Documentation

A listing of the conclusions, by category, follows (see Appendix, Table 2 for notes and legend). Several monitoring items appear in more than one category; therefore, no overall Forest totals or percentages are shown.

1. No Action (continue current monitoring)

Forest Plan management direction and monitoring requirements are up-to-date and, where applicable, conditions are within limits of variability for 7 items:

- **2-1** Cultural Resource cumulative effects
- 5-15 Bald Eagle population
- **13-4** Soil resource improvements
- 15-6 Reforestation
- 6-1 Forest Pests problems and damage 22-1 Forest S&Gs reviews
- **10-5** Motor vehicle conflicts

2. Improve Application of Management Prescriptions

Conditions are not within limits of variability, however it is likely that conditions can meet limits of variability with improved application of existing management direction, for 3 items:

- 12-1 Sensitive Plants selected populations 18-2 Watershed S&Gs
- **13-1** S&Gs for soil productivity
- 3. Amend Forest Plan Management Prescriptions

Monitoring results did not show any items where applicable Forest Plan management prescriptions are out-of-date.

4. Amend Forest Plan S&Gs

Applicable Forest Plan S&Gs are out-of-date or do not provide specific management direction for 6 items:

- **3-1** Acres major vegetative type
- **3-2** Acres forest seral stage
- 5-19 Mule Deer population
- 9-A Noxious Weeds
- 5-13 Great Gray Owl S&Gs for habitat
- 20-1 Wilderness management

5. Amend Forest Plan Management Area Allocations

Applicable Forest Plan management area allocations are out-of-date for 1 item. Insect mortality is causing major changes within established Bald Eagle territories. Possible resolution may include boundary adjustments or relocations; however, detailed changes should occur only after completion of the Sierra Nevada Framework (see section 6. Recent Information):

5-16 Bald Eagle recovery habitat

6. Amend Forest Plan Schedule of Outputs

Forest Plan projected outputs are out-of-date and do not accurately reflect recent or expected future accomplishments; however, detailed changes should occur only after completion of the Sierra Nevada Framework.

7. Revise Forest Plan

Some conditions are not within limits of variability and several Forest Plan Amendments are needed. However, overall monitoring results indicate conditions are moving towards desired conditions as stated in the Forest Plan (USDA 1991). In addition, the IDT did not identify any items of sufficient magnitude to warrant Forest Plan revision.

8. Amend Forest Plan Monitoring Items

Some Forest Plan monitoring requirements are "accomplishments"; duplicates of other monitoring items; already covered by project plans and reports; or, feasible only at a larger than Forest scale.

a. Accomplishments

Monitoring requirements reflect "accomplishments" rather than resource conditions for 21 Forest Plan monitoring items (see Appendix, Table 2 for individual conclusions and recommendations). Existing "accomplishment" reports address these "accomplishments" outside from the annual interdisciplinary monitoring and evaluation report. Information and results would still be available to managers and the public through existing "accomplishment" reports.

- **4-1** Fire acre control objectives
- 8-1 Land adjustments
- 8-2 Landline location priorities
- 8-3 Right-of-way acquisition
- 9-2 Permitted and actual AUMs
- **10-3** Actual use of developed sites
- **10-6** Designated route miles
- **15-1** Allowable sale quantity
- 15-2 Forest regulation
- 15-3 Reforestation and TSI needs
- 15-4 Harvest unit size

- 15-5 Timber suitability
- 16-1 Roads closed to public vehicles
- 16-2 Average daily traffic
- 16-3 Road construction
- **16-4** Trail construction
- 17-3 Visual resource improvements
- **21-1** Cost of practices and activity
- 21-2 Values of goods and services
- 21-3 Return to counties
- 21-4 Local and area employment

b. Duplicate or Not Feasible

Monitoring requirements are duplicates of other monitoring items; already covered by project plans and reports; or, feasible only at a larger than Forest scale for 18 items (see Appendix, Table 2 for individual conclusions and recommendations). These items can be removed from the annual Forest Plan monitoring program. Information and results would still be available to managers and the public through other Forest Plan monitoring items or through project reports.

- 1-3 Air pollution
- 5-1 Wildlife: vegetation diversity
- 5-7 Spotted Owl S&Gs for viable populations
- 7-1 Geology mitigation measures
- 8-4 Land occupancy and use
- 10-1 ROS Classes
- 10-4 Condition of dispersed camping
- **10-7** Trail condition ratings
- 11-1 Riparian maintained/improved

- 12-1 Sensitive Plants selected populations
- 12-3 Sensitive Plants viable populations
- 13-2 Soil moisture conditions
- 13-3 Tree, grass and shrub growth
- 15-7 Burn area reforestation
- 15-8 Yield table projections
- 17-1 Visual Resource planned objectives
- 18-5 Water yield predictions
- 20-6 Stream condition

9. Amend Forest Plan Chapter V

Forest Plan Chapter V does not consistently identify specific indicators of resource conditions that are measurable or subject to change. Standards and limits of variability are not consistently defined or even identified for several items. Some standards are not measurable, or not achievable; however, detailed changes and full integration of new monitoring requirements should occur only after completion of the Sierra Nevada Framework. Monitoring requirements are out-of-date, no longer feasible as written or, without specific indicators or measurable standards for 47 items:

- 1-1 Air quality related values
- 1-2 Smoke emissions
- 3-1 Acres major vegetative type
- **3-2** Acres forest seral stage
- 4-A Fuel treatments
- 5-2 Wildlife: special habitat
- 5-3 Wildlife: riparian areas
- 5-4 Wildlife: stream ecosystems
- 5-6 Spotted Owl population and habitat
- 5-9 Goshawk population
- 5-10 Flycatcher population
- 5-11 Flycatcher S&Gs for habitat
- **5-12** Great Gray Owl population
- 5-13 Great Gray Owl S&Gs for habitat
- 5-17 Gray Squirrel population
- 5-18 Woodpecker population
- 5-20 Fisher population
- 5-21 Marten population
- 5-22 Resident Trout population
- 5-23 Lahontan Trout population
- 5-24 Riparian Bird habitat capability
- 5-25 Conifer Bird habitat capability
- 5-26 Meadow Bird habitat capability
- **5-27** Oak Bird habitat capability

- 5-A Bald Eagle nesting
- 5-B Western Pond Turtle
- 5-C Amphibians
- 9-3 Allotment management objectives
- 9-4 Range administration and compliance
- 9-5 Range improvements
- 9-A Noxious Weeds
- 10-2 Condition of developed sites
- 12-2 Sensitive Plants all populations
- 13-1 S&Gs for soil productivity
- **13-5** Soil moisture regime
- **13-6** Soil hydrologic function
- 13-7 Soil environmental health
- 14-1 Botanic SIA conditions
- 14-2 Cultural SIA conditions
- 14-3 Cave conditions
- **15-9** Timber stand improvements
- 17-2 Trends in Scenic Corridors
- **18-1** Water quality standards (BMPs)
- 18-2 Watershed S&Gs
- **18-3** Water quality baseline
- 18-4 Watershed condition
- 20-1 Wilderness management

10. Increase Monitoring and/or Documentation

Although the IDT could not determine conditions on 78 monitoring items (see results C and E), it is unlikely that trends could be established for most, over the relatively short period since Forest Plan approval, even with more information and unlimited monitoring budgets. The IDT expects monitoring occurs, at the levels specified in the Forest Plan, on several items but is not consistently reported. The IDT found not enough information or documentation exists and the information is needed to help answer questions for 17 items:

- 5-5 Spotted Owl S&Gs for habitat
- 5-6 Spotted Owl population and habitat
- 5-8 Goshawk S&Gs for habitat
- 5-9 Goshawk population
- **5-10** Flycatcher population
- 5-11 Flycatcher S&Gs for habitat
- 5-12 Great Gray Owl population
- 5-13 Great Gray Owl S&Gs for habitat
- 5-14 Peregrine Falcon nesting

- **9-1** Range condition and trend
- 9-A Noxious Weeds
- 12-1 Sensitive Plants selected populations
- 19-1 Wild and Scenic management
- 20-2 Crowding
- 20-3 Campsite condition
 - 20-4 Stock holding area condition
 - 20-5 Firewood availability

3.3 Recommendations

The IDT reviewed their conclusions, and the recommendations contained in the 1997 Stanislaus National Forest Monitoring and Evaluation Report (USDA 1998), to develop the following recommendations. These items are recommended to the Forest Supervisor for any further action. Full implementation depends on adequate funding, Forest Leadership Team approval, and completion of the Sierra Nevada Framework. The National Environmental Policy Act (NEPA) process and regulations apply to all proposed projects and Forest Plan Amendments. Table 3 (see Appendix) lists the specific actions needed to implement these recommendations.

Short-term

- Improve application of management prescriptions for 3 items: Sensitive Plants selected populations (12-1); S&Gs for soil productivity (13-1); and, Watershed S&Gs (18-2).
- Complete Forest Plan Amendments for the Carson-Iceberg and Mokelumne Wildernesses.
- Focus monitoring program on resource conditions rather than accomplishments: complete a Forest Plan Amendment separating the 62 Forest Plan resource monitoring items from the 37 accomplishment and duplicate items (see conclusions 8a and 8b).
- Increase Monitoring and/or Documentation to the levels specified in the Forest Plan for 17 Forest Plan monitoring items (see Conclusion 10).

Long term

- Amend Forest Plan S&Gs (see Conclusion 4) and, amend Forest Plan Management Area Allocations for Bald Eagle Recovery Habitat (see Conclusion 5) pending results obtained from the Sierra Nevada Framework.
- Amend Forest Plan Chapter V (see Conclusion 9) pending results obtained from the Sierra Nevada Framework

4. Proposed Action Plan

The IDT proposed a schedule to implement their recommendations (see Appendix, Table 3). The Proposed Action Plan identifies the additional monitoring needed (or no longer needed) and the Forest Plan amendments proposed. Full implementation depends on adequate funding, Forest Leadership Team approval, and completion of the Sierra Nevada Framework. The National Environmental Policy Act (NEPA) process and regulations apply to all proposed projects and Forest Plan Amendments.

5. Status of Previous Recommendations

While conducting this evaluation, the IDT considered the current status of the recommendations contained in the 1997 Stanislaus National Forest Monitoring and Evaluation Report (USDA 1998a). That report identified the following short-term recommendations addressed during the period covered by this report.

 Previous Recommendation: Improve application of management prescriptions for 3 items: Riparian maintained/improved (11-1); S&Gs for soil productivity (13-1); and, Watershed S&Gs (18-2).

Status: The IDT found conditions not fully within standards for these three items: The IDT brought this recommendation forward for two of these items: S&Gs for soil productivity (13-1); and, Watershed S&Gs (18-2).

Previous Recommendation: Complete Forest Plan Amendment for the Emigrant Wilderness.

Status: The Forest completed the Emigrant Wilderness Direction Forest Plan Amendment in April 1998 (USDA 1998b).

 Previous Recommendation: Focus monitoring program on resource conditions rather than accomplishments: complete a Forest Plan Amendment separating the 57 Forest Plan resource monitoring items from the 36 accomplishment and duplicate items (see conclusions 8a and 8b).

Status: The Forest identified a proposed action and conducted preliminary public scoping in January 1998. The IDT brought this recommendation forward but now recommends completion of this Forest Plan Amendment pending the Sierra Nevada Framework.

Previous Recommendation: Complete the 5 year Forest Plan Review.

Status: No activity to date. Due to expectations of the Sierra Nevada Framework, the IDT did not bring this recommendation forward.

 Previous Recommendation: Increase Monitoring and/or Documentation for 20 Forest Plan monitoring items

Status: Additional monitoring and documentation occurred on 6 items previously identified for increased monitoring and/or documentation. The IDT determined not enough information exists and the information is needed to determine conditions for 10 of those items. The IDT brought this recommendation forward along with 7 additional items.

 Previous Recommendation: Develop the 1999 monitoring program, based on information contained in this Report, incorporating into the Program of Work by assigning priorities and funding. **Status**: The IDT found some consideration given to the previous M&E Report; and, monitoring is identified as an emphasis item in the 1999 Program of Work. Since this item should now be considered normal business, the IDT did not bring this recommendation forward.

 Previous Recommendation: Schedule and conduct Forest Leadership Team reviews, at least two per year, of Forest Plan S&Gs implementation.

Status: The Forest conducted two reviews of Forest Plan S&Gs implementation during 1998 (USDA 1998c and USDA 1999). Since this item should now be considered normal business, the IDT did not bring this recommendation forward.

Previous Recommendation: Develop ways to increase and improve monitoring documentation and reporting.

Status: The IDT expects additional monitoring occurs without adequate documentation or reporting. However, since this item should now be considered normal business, the IDT did not bring this recommendation forward.

6. Recent Information

Recent information, with potential application on the Stanislaus, is shown below.

Sierra Nevada Framework

The Forest Service adopted interim guidelines for protecting owl habitat in 1993 and subsequently began developing a long-term management plan for owl habitat and other issues. A draft Environmental Impact Statement (EIS) for this work was released in 1995. A revised draft EIS was scheduled for release in 1996. However, release of new scientific information in the Sierra Nevada Ecosystem Project (SNEP) report influenced the withdrawal of the revised draft EIS. The Secretary of Agriculture empanelled a Federal Advisory Committee (FAC) to review and advise on the EIS and SNEP report. The FAC report offered recommendations for addressing inconsistencies with new scientific information, identified shortcomings in some key elements of the analysis process, and stressed the need for more collaborative planning.

In response to the FAC report and other information, the Forest Service is now beginning a new project to amend the management plans for eleven national forests in the Sierra Nevada. As part of the larger Sierra Nevada Framework for Conservation and Collaboration (Framework), a new EIS is being developed to pursue cooperative solutions to range-wide issues in the Sierra.

To provide a foundation for Framework, a team of scientists from the Pacific Southwest Research Station, produced the Sierra Nevada Science Review (USDA 1998d). The Science Review summarizes new scientific information with specific attention to issues of urgent priority in the Sierra. A companion document, the Summary of Existing Management Direction (USDA 1998e) summarizes existing management direction on Sierra Nevada National Forests as it relates to issues brought forward in the Science Review.

A "Notice of Intent" (USDA 1998f) identifies the proposed action and possible alternatives for the new EIS. However, many additional issues surfaced in public meetings that are not appropriately addressed in the EIS. To address these issues, the Forest Service developed a "Design Paper" (USDA 1998g) to describe the agency's proposals for addressing issues that will not be included in the EIS. Currently, comments from the pre-NEPA scoping period, which ended January 19, 1999, are being analyzed. A draft EIS is expected to be available in 1999.

7. List of Preparers

Mike Brown Experience Forest Silviculturist Stanislaus National Forest 1986 to Present Forest Logging Engineer Stanislaus National Forest 1983 to 1986 **District Timber Management** Stanislaus National Forest 1980 to 1983 Timber Sale Planner Willamette National Forest 1977 to 1980 Southern Illinois University 1969 Education B.S. **Jim Frazier** Forest Hydrologist Stanislaus National Forest 1986 to Present Experience Hydrologist Stanislaus National Forest 1974 to 1986 Education CSU, Humboldt M.S. 1973 CSU, Long Beach B.A. 1968 John Maschi Land Management Planner Stanislaus National Forest 1996 to Present Experience Assistant Recreation Officer Stanislaus National Forest 1991 to 1996 Landscape Architect Stanislaus National Forest 1980 to 1990 Education University of Illinois M.L.A. 1978 Rutgers University B.S., Landscape Architecture 1976 Aileen Palmer Experience **District Wildlife Biologist** Stanislaus National Forest 1980 to Present Forester Lassen National Forest 1978 to 1980 Colorado State University M.S. 1978 Education UC, Berkeley B.S. 1975 Denise Van Keuren Experience Forest Range Conservationist Stanislaus National Forest 1988 to Present Range Conservationist **Tonto National Forest** 1985 to 1988 Range Conservationist **Coronado National Forest** 1979 to 1985 Education Arizona State University B.S., Range Management 1979

8. Location of Supporting Documentation

Supporting documentation and summary information for this monitoring report is part of the Planning Records on file at:

 Stanislaus National Forest Supervisor's Office 19777 Greenley Road Sonora, CA 95370 (209) 532-3671

Project specific files are located at the appropriate Ranger District office:

- Calaveras Ranger District Highway 4
 P.O. Box 500
 Hathaway Pines, CA 95232
 (209) 795-1381
- Mi-Wok Ranger District Highway 108
 P.O. Box 100
 Mi-Wuk Village, CA
 (209) 586-3234

- Groveland Ranger District 24525 Old Highway 120 Groveland, CA 95321 (209) 962-7825
- Summit Ranger District Highway 108 #1 Pinecrest Lake Road Pinecrest, CA 95364 (209) 965-3434

9. Public Participation

This report is available by request. The Forest will inform the public of its availability by news release and posting on the internet (http://www.r5.fs.fed.us/stanislaus/mgmt/mereport). Comments received on this report will be considered in preparing future reports. Please submit comments to:

Stanislaus National Forest Attn.: Monitoring 19777 Greenley Road Sonora, CA 95370

10. Appendix

References

USDA Forest Service. 1991. Stanislaus National Forest Land and Resource Management Plan, EIS, Forest Plan and Record of Decision. Pacific Southwest Region; San Francisco, CA.

USDA Forest Service. 1998a. 1997 Stanislaus National Forest Monitoring and Evaluation Report. Stanislaus National Forest, Sonora, CA.

USDA Forest Service. 1998b. Emigrant Wilderness Direction Forest Plan Amendment. Stanislaus National Forest, Sonora, CA.

USDA Forest Service. 1998c. June 1998 Fire Salvage Standards and Guidelines Review. Stanislaus National Forest, Sonora, CA.

USDA Forest Service. 1998d. Sierra Nevada Science Review. Pacific Southwest Research Station. July 24, 1998.

USDA Forest Service. 1998e. Sierra Nevada Framework for Conservation and Collaboration, Summary of Existing Management Direction. Pacific Southwest Region. August 11, 1998.

USDA Forest Service. 1998f. Sierra Nevada Forest Plan Amendment Project EIS, Notice of Intent. Pacific Southwest Region. November 16, 1998.

USDA Forest Service. 1998g. Sierra Nevada Framework Project, Design Paper (version 1.4). Pacific Southwest Region. November 18, 1998.

USDA Forest Service. 1999. September 1998 Recreation Standards and Guidelines Review. Stanislaus National Forest, Sonora, CA.

	Resource	Kev	Objective				F١		99 cati								ıts			
			0.0,000.000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Air Quality	1-1	Air quality related values	T																
	-	1-2	Smoke emissions																	
		1-3	Air pollution																	
2	Cultural Resource	2-1	Cumulative effects; mitigation																	
3	Diversity	3-1	Acres major vegetative type*																	
		3-2	Acres forest seral stage*																	
4	Fire and Fuels	4-1	Acre control objectives																	
		4-A	Fuel treatments																	
5	Fish and	5-1	Wildlife: vegetation diversity*																	
	Wildlife	5-2	Wildlife: special habitat																	
1		5-3	Wildlife: riparian areas	1																
		5-4	Wildlife: stream ecosystems																	
	Spotted Owl	5-5	S&Gs for habitat																	
		5-6	Population and habitat trend																	
		5-7	S&Gs for viable populations	Г																
	Goshawk	5-8	S&Gs for habitat																	
		5-9	Population trend																	
	Flycatcher	5-10	Population status and trend																	
		5-11	S&Gs for habitat																	
	Great Gray Owl	5-12	Population status and trend																	
		5-13	S&Gs for habitat																	
	Peregrine Falcon	5-14	Nesting and reproductive																	
	Bald Eagle	5-15	Population status and trend																	
		5-16	Condition of recovery habitat																	
	Gray Squirrel	5-17	Population status and trend																	
	Woodpecker	5-18	Population status and trend																	
	Mule Deer	5-19	Population status and trend																	
	Fisher	5-20	Population status and trend																	
	Marten	5-21	Population status and trend																	
	Resident Trout	5-22	Population status and trend																	
	Lahontan Trout	5-23	Population status and trend																	
	Riparian Bird	5-24	Habitat capability trends																	
	Conifer Bird	5-25	Habitat capability trends																	
	Meadow Bird	5-26	Habitat capability trends	1								l								
	Oak Bird	5-27	Habitat capability trends																	
		5-A	Bald Eagle nesting																	
		5-B	Western Pond Turtle																	
		5-C	Amphibians	1								l								
6	Forest Pests	6-1	Problems and damage				_												 	
7	Geology	7-1	Mitigation measures																	

Table 1: *Monitoring and Evaluation Accomplishments*; fiscal year 1998; Stanislaus National Forest; page 1 of 3 (see legend at end of table).

						F١		998								ts			
Resource	Key	Objective					Lo	catio	on	Wa	ters	heo	ΙNι	.ımb	er)				
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
8 Lands	8-1	Land adjustments																	
	8-2	Landline location priorities																	
	8-3	Right-of-way acquisition																	
	8-4	Land occupancy and use																	
9 Range	9-1	Range condition and trend*																	
	9-2	Permitted and actual AUMs																	
	9-3	Allotment management																	
	9-4	Administration and compliance																	
	9-5	Range improvements																	
	9-A	Noxious Weeds	Ī																
10 Recreation	10-1	ROS Classes																	
	10-2	Condition of developed sites	1																
	10-3	Actual use of developed sites																	
	10-4	Condition of dispersed camping																	
	10-5	Motor vehicle conflicts																	
	10-6	Designated route miles																	
	10-7	Trail condition ratings																	
11 Riparian Areas		Riparian maintained/improved																	
12 Sensitive	12-1	Selected populations																	
Plants	12-2	Changes to all populations																	
	12-3	Viable populations																	
13 Soils	13-1	S&Gs for soil productivity																	
	13-2	Soil moisture conditions																	
	13-3	Tree, grass and shrub growth																	
	13-4	Soil resource improvements																	
		Soil moisture regime																	
		Soil hydrologic function																	
	13-7	Soil environmental health																	
14 Special Areas	14-1	Botanic SIA conditions*																	
	14-2	Cultural SIA conditions																	
	14-3	Cave conditions																	
15 Timber		Allowable sale quantity																	
		Forest regulation																	
		Reforestation and TSI needs																	
		Harvest unit size																	
		Timber suitability	<u> </u>																
		Reforestation																	
		Burn area reforestation																	
		Yield table projections*																	
	15-9	Timber stand improvements																	

Table 1: Monitoring and Evaluation Accomplishments; fiscal year 1998; Stanislaus NationalForest; page 2 of 3 (see legend at end of table).

						Fγ	′ 1	99	8 A		cor	np	lis	hm	ier	its			
Resource	Key	Objective					Lo	cati	cation (Watershed Number)										
	5	3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
16 Transportation	16-1	Roads closed to public vehicles																	
	16-2	Average daily traffic																	
	16-3	Road construction																	
	16-4	Trail construction																	
17 Visual	17-1	Planned objectives																	
Resource	17-2	Trends in Scenic Corridors																	
	17-3	Visual resource improvements																	
18 Water	18-1	Water quality standards (BMPs)																	
	18-2	Watershed S&Gs																	
	18-3	Water quality baseline																	
	18-4	Watershed condition																	
	18-5	Water yield predictions																	
19 Wild and Scenic	19-1	Wild and Scenic management																*1	
20 Wilderness	20-1	Wilderness management																	
	20-2	Crowding																	
	20-3	Campsite condition																	
	20-4	Stock holding area condition																	
	20-5	Firewood availability																	
	20-6	Stream condition																	
21 Economic	21-1	Cost of practices and activity																	
	21-2	Values of goods and services																	
	21-3	Return to counties									l								
	21-4	Local and area employment									l								
22 Forest S&Gs	22-1	S&Gs reviews																	

Table 1: *Monitoring and Evaluation Accomplishments*; fiscal year 1998; Stanislaus National Forest; page 3 of 3 (see legend at end of table).

Legend



1998 Monitoring and Evaluation Report

	Decouraa	Kov	Objective		Do	~	lto		Conclusions/Recommendations
	Resource	Key	Objective				lts D		Conclusions/Recommendations
		4.4	Alexandre Provinsia to develope	A	D	C	U	-	
1	Air Quality	1-1	Air quality related values						9 (not feasible as written)
		1-2	Smoke emissions						9
L			Air pollution						8b (feasible only at larger than Forest scale)
2	Cultural Resource	2-1	Cumulative effects; mitigation						1
3	Diversity	3-1	Acres major vegetative type*						4, 9 (depends on Framework)
		3-2	Acres forest seral stage*						4, 9 (depends on Framework)
4	Fire and Fuels	4-1	Acre control objectives						8a
		4-A	Fuel treatments						9 (depends on Framework)
5	Fish and	5-1	Wildlife: vegetation diversity*						8b (cover in 3-1), (depends on Framework)
	Wildlife	5-2	Wildlife: special habitat						9
		5-3	Wildlife: riparian areas						9
İ		5-4	Wildlife: stream ecosystems	1 1					9
	Spotted Owl	5-5	S&Gs for habitat						10
		5-6	Population and habitat trend						9, 10
		5-7	S&Gs for viable populations						8b (feasible only at larger than Forest scale)
	Goshawk	5-8	S&Gs for habitat						10
		5-9	Population trend						9, 10
	Flycatcher	5-10	Population status and trend						9, 10
		5-11	S&Gs for habitat						9, 10
	Great Gray Owl	5-12	Population status and trend						9, 10
		5-13	S&Gs for habitat						4 (review territories), 9, 10
	Peregrine Falcon	5-14	Nesting and reproductive						10
	Bald Eagle	5-15	Population status and trend						1
l		5-16	Condition of recovery habitat						5 (review territories)
	Gray Squirrel	5-17	Population status and trend						9 (habitat focus)
	Woodpecker	5-18	Population status and trend						9 (habitat focus)
	Mule Deer	5-19	Population status and trend						4 (Forest Plan appeal resolution)
1	Fisher	5-20	Population status and trend						9 (habitat focus)
1	Marten	5-21	Population status and trend						9 (habitat focus)
1	Resident Trout		Population status and trend						9
1	Lahontan Trout	5-23	Population status and trend						9
1	Riparian Bird	5-24	Habitat capability trends						9
1	Conifer Bird	5-25	Habitat capability trends						9
	Meadow Bird	5-26	Habitat capability trends						9
1	Oak Bird	5-27	Habitat capability trends						9
		5-A	Bald Eagle nesting						9
1		5-B	Western Pond Turtle						9
L		5-C	Amphibians						9
6	Forest Pests	6-1	Problems and damage						1
7	Geology	7-1	Mitigation measures						8b (report by project)

Table 2: Monitoring and Evaluation Results, Conclusions and Recommendations; fiscal year1998; Stanislaus National Forest; page 1 of 3 (see legend at end of table).

Table 2: Monitoring and Evaluation Results, Conclusions and Recommendations; fiscal year
1998; Stanislaus National Forest; page 2 of 3 (see legend at end of table).

Resource	Key	Objective		Re	su	lts		Conclusions/Recommendations
			Α	В	С	D	Ε	
8 Lands	8-1	Land adjustments						8a
	8-2	Landline location priorities						8a
	8-3	Right-of-way acquisition	İ	Ì				8a
	8-4	Land occupancy and use						8b (report by project)
9 Range	9-1	Range condition and trend*						10 (10 year report item)
	9-2	Permitted and actual AUMs						8a
	9-3	Allotment management						9
	9-4	Administration and compliance						9
	9-5	Range improvements						9
	9-A	Noxious Weeds						4, 9, 10 (depends on Framework)
10 Recreation	10-1	ROS Classes						8b (report by project)
	10-2	Condition of developed sites	1					9 (not feasible as written)
	10-3	Actual use of developed sites						8a
	10-4	Condition of dispersed camping						8b
	10-5	Motor vehicle conflicts						1
	10-6	Designated route miles						8a
	10-7	Trail condition ratings						8b
11 Riparian Areas	11-1	Riparian maintained/improved						8b (cover in 18-2)
12 Sensitive	12-1	Selected populations						2, 8b, 10 (not feasible as written)
Plants	12-2	Changes to all populations						9
	12-3	Viable populations						8b (feasible only at larger than Forest scale)
13 Soils	13-1	S&Gs for soil productivity						2, 9
	13-2	Soil moisture conditions						8b (cover in 13-1)
	13-3	Tree, grass and shrub growth						8b (cover in 13-1)
	13-4	Soil resource improvements						1
	13-5	Soil moisture regime						9
	13-6	Soil hydrologic function						9
	13-7	Soil environmental health						9
14 Special Areas	14-1	Botanic SIA conditions*						9
	14-2	Cultural SIA conditions						9
	14-3	Cave conditions						9
15 Timber	15-1	Allowable sale quantity						8a
	15-2	Forest regulation						8a
	15-3	Reforestation and TSI needs						8a
	15-4	Harvest unit size						8a
		Timber suitability						8a
		Reforestation						1 (catastrophic events)
		Burn area reforestation						8b (cover in 15-6)
		Yield table projections*						8b (feasible only at larger than Forest scale)
	15-9	Timber stand improvements						9

Resource	Key	Objective	Re B		Conclusions/Recommendations
16 Transportation		Roads closed to public vehicles			8a
		Average daily traffic			8a
		Road construction			8a
	16-4	Trail construction			8a
17 Visual		Planned objectives			8b (report by project)
Resource	17-2	Trends in Scenic Corridors			9
	17-3	Visual resource improvements			8a
18 Water		Water quality standards (BMPs)			9
	18-2	Watershed S&Gs			2, 9
	18-3	Water quality baseline			9
	18-4	Watershed condition			9
	18-5	Water yield predictions			8b (not feasible as written)
19 Wild and Scenic	19-1	Wild and Scenic management			10
20 Wilderness	20-1	Wilderness management			4, 9 (Carson-Iceberg and Mokelumne)
	20-2	Crowding			10 (Emigrant)
	20-3	Campsite condition			10 (Emigrant)
	20-4	Stock holding area condition			10 (Emigrant)
	20-5	Firewood availability			10 (Emigrant)
	20-6	Stream condition			8b (Emigrant)
21 Economic	21-1	Cost of practices and activity			8a
	21-2	Values of goods and services			8a
	21-3	Return to counties			8a
	21-4	Local and area employment			8a
22 Forest S&Gs	22-1	S&Gs reviews			1 (catastrophic events)

Table 2: Monitoring and Evaluation Results, Conclusions and Recommendations; fiscal year 1998; Stanislaus National Forest; page 3 of 3 (see legend at end of table).

Key

- 9-1 Forest Plan Item
 - 9 Resource Number
 - 1 Item Number
 - * 10 Year Report Item
- 9-A Non-Forest Plan Item
- 9 Resource Number
- A Item Letter

AUMs Animal Unit Months

- **BMPs** Best Management Practices
 - FY Fiscal Year (10-1 to 9/30)
- **ROS** Recreation Opportunity Spectrum
- SIA Special Interest Area
- S&Gs Standards and Guidelines
 - **TSI** Timber Stand Improvement

Legend

A Conditions within Limits of Variability B Conditions not within Limits of Variability

- **C** Not enough Information
- **D** Not Applicable (no standards)
- E None Conducted or Reported

Conclusions/Recommendations

Results

- 1 No Action (continue current monitoring)
- 2 Improve Application of Management Prescriptions
- 3 Amend Forest Plan Management Prescriptions
- 4 Amend Forest Plan S&Gs
- 5 Amend Forest Plan Management Area Allocations
- 6 Amend Forest Plan Schedule of Outputs
- 7 Revise Forest Plan
- 8 Amend Forest Plan Monitoring Items
 - a. Accomplishment
 - b. Duplicate or Not Feasible
- 9 Amend Forest Plan Chapter V
- 10 Increase Monitoring and/or Documentation

Table 3: *Proposed Action Plan*; Interdisciplinary Team (IDT) recommendations; Stanislaus National Forest. Full implementation depends on adequate funding, Forest Leadership Team approval, and completion of the Sierra Nevada Framework. The National Environmental Policy Act (NEPA) process and regulations apply to all proposed projects and Forest Plan Amendments.

	Action	Who	When
Improve	application of prescriptions:	District Rangers	on-going
12-1	Sensitive Plants selected populations		
	S&Gs for soil productivity		
18-2	Watershed S&Gs		
	Forest Plan Standards and Guidelines:		
3-1	Acres major vegetative type	Resource Management	pending Framework
3-2	Acres forest seral stage	Resource Management	pending Framework
5-13		Resource Management	pending Framework
5-19	Mule Deer population	Resource Management	pending Framework
9-A	Noxious Weeds	Resource Management	pending Framework
20-1	Carson-Iceberg and Mokelumne Direction	Calaveras and Summit DRs	9/30/99
	Forest Plan Management Area Allocation:		
5-16	Bald Eagle designated recovery habitat	Resource Management	pending Framework
Amend I	Forest Plan Monitoring Items	IDT and Forest Leadership	pending Framework
Amend	Forest Plan Chapter V	IDT and Forest Leadership	pending Framework
	monitoring and/or documentation to the levels	District Rangers	on-going
specified 5-5	l in the Forest Plan: Spotted Owl S&Gs for habitat		
5-5	Spotted Owl population and habitat		
5-8	Goshawk S&Gs for habitat		
5-9	Goshawk population		
5-10	Flycatcher population		
5-10	Flycatcher S&Gs for habitat		
5-12	Great Gray Owl population		
5-13	Great Gray Owl S&Gs for habitat		
5-14	-		
9-1	Range condition and trend		
9-A	Noxious Weeds		
12-1	Sensitive Plants selected populations		
19-1	Wild and Scenic management		
20-2	Crowding		
20-3	Campsite condition		
20-4	Stock holding area condition		
20-5	Firewood availability		