

# **Appendix K**

## **National Goals**

National goals relevant to land and resource management (based on Forest Service manual objective statements)

### **American Indians - 1563**

1. Maintain a governmental relationship with federally recognized tribal governments.
2. Implement programs and activities honoring treaty rights and fulfill legally mandated trust responsibilities to the extent that they are determined applicable to National Forest System lands.
3. Administer programs and activities to address and be sensitive to traditional native religious beliefs and practices.
4. Provide research, transfer of technology and technical assistance to American Indian governments.

### **Noxious Weed Management - 2080.2**

To use an integrated weed management approach to control and contain the spread of noxious weeds on National Forest System lands to adjacent lands. Specific objectives to be achieved through noxious weed management include:

1. Prevention of the introduction and establishment of noxious weed infestations.
2. Containment and suppression of existing noxious weed infestation.
3. Formal and informal cooperation with State agencies, local landowners, weed control districts and boards, and other Federal agencies in the management and control of noxious weeds.
4. Education and awareness of employees, users of National Forest System lands, adjacent landowners, and State agencies about noxious weed threats to native plant communities and ecosystems.

### **Solid Waste Management - 2130.2**

Program objectives are to design, operate, and maintain all solid waste systems under Forest Service jurisdiction in such a manner so as to meet all federal, state, and local requirements; promote public health and safety; protect Forest resource and environmental qualities; and complement and support the total land-use management process.

### **Pesticide Management - 2150.2**

To ensure the proper use of pesticides.

## **Energy Management - 2170.2**

1. Conserve energy in the conduct of Forest Service programs and in the operation of Forest Service programs and facilities, and to improve efficiency in the production and use of wood products.

2. Minimize undesirable consequences associated with development of renewable and non-renewable energy source extracted from Forest System lands.

3. Facilitate recovery of fuels from Forest System lands and implement programs to support production and use of alternative fuels.

4. Provide leadership and support for environmentally acceptable and scientifically sound development, production, and use of all energy resources from lands.

## **Range Management - 2202.1**

1. To manage range vegetation to protect basic soil and water resources, provide for ecological diversity, improve or maintain environmental quality, and meet public needs for interrelated resource uses.

2. To integrate management of range vegetation with other resource programs to achieve multiple-use objectives contained in Forest System land and resource management plans.

3. To provide for livestock forage, wildlife food and habitat, outdoor recreation, and other resource values dependent on range vegetation.

4. To contribute to the economic and social well-being of people by providing opportunities for economic diversity and by promoting stability for communities that depend on range resources for their livelihood.

## **Grazing and Livestock Use Permit System - 2230.2**

To administer the grazing permit system consistent with range resource management objectives found in Forest land management plans, and to best serve the public's long-term economic and social needs.

## **Range Improvements - 2240.2**

1. Without impairing land productivity or water quality, implement and maintain range improvements to the extent benefits are commensurate with cost and demand for livestock forage.

2. Provide information and advice through the Range Technical Information System and the Rangeland Technology Equipment Council to enhance restoration, improvement, and quality of rangeland.

## **Structural Range Improvement - 2242.02**

Install structural range improvements to obtain proper livestock management and to meet objectives contained in Forest land and resource management plans and allotment management plans.

### **Maintenance of Improvement - 2244.02**

To maintain in operable condition all range improvements on the National Forest System and other lands controlled by the Forest Service.

### **Range Improvement Investment - 2246.02**

Invest in cost-effective range improvements to achieve objectives established in Forest land and resource management plans and allotment management plans.

### **Recreation - 2302**

1. To provide non-urbanized outdoor recreation opportunities in natural-appearing forest and rangeland settings.
2. To protect the long-term public interest by maintaining and enhancing open-space options, public accessibility, and cultural, visual, and natural resource values.
3. To promote public transportation and/or access to National Forest recreation opportunities.
4. To shift landownership patterns as necessary to place urbanized recreation setting into other ownerships to create more public open space and/or natural resource recreation values.

### **National Wilderness Preservation System - 2320.2**

1. Maintain and perpetuate the enduring resource of Wilderness as one of the multiple uses of National Forest System land.
2. Maintain Wilderness in such a manner that ecosystems are unaffected by human manipulation and influences so that plants and animals develop and respond to natural forces.
3. Minimize the impact of those kinds of uses and activities generally prohibited by the Wilderness Act, but specifically exempted by the Act or subsequent legislation.
4. Protect and perpetuate Wilderness character and public values including, but not limited to, opportunities for scientific study, education, solitude, physical and mental challenge and stimulation, inspiration, and primitive recreation experiences.

### **Recreation in Wilderness - 2323.11**

1. Provide, consistent with management of the area as Wilderness, opportunities for public use, enjoyment, and understanding of the Wilderness, through experiences that depend on a Wilderness setting.
2. Provide outstanding opportunities for solitude or a primitive and unconfined type of recreation.

### **Range in Wilderness - 2323.21**

Manage Wilderness range in manner that utilizes the forage resource in accordance with established Wilderness objectives.

### **Wildlife and Fish Management in Wilderness - 2323.31**

1. Provide an environment where the forces of natural selection and survival rather than human actions determine which and what numbers of wildlife species will exist.
2. Consistent with objective #1, protect wildlife and fish indigenous to the area from human-caused conditions that could lead to federal listing as threatened or endangered.
3. Provide protection for known populations and aid recovery in areas of previous habitation, of federally listed threatened or endangered species and their habitats.

### **Soil and Water in Wilderness - 2323.41**

Maintain satisfactory natural watershed condition within Wilderness.

### **Forest Cover in Wilderness - 2323.51**

Manage forest cover to retain the primeval character of the environment and to allow natural ecological processes to operate freely.

### **Air Resource in Wilderness - 2323.61**

1. Protect air quality and related values, including visibility, on Wilderness land designated Class 1 by the Clean Air Act as amended in 1977.
2. Protect air quality in Wilderness areas not qualifying as Class 1 under the same objectives as those for other national Forest System lands.

### **Minerals in Wilderness - 2323.72**

1. To preserve the Wilderness environment while allowing activities for the purpose of gathering information about mineral resources.
2. To ensure that mineral exploration and development operations conducted in accordance with valid existing rights for federally owned, locatable, and leasable minerals (FSM 2810 and FSM 2820) and for non-federally owned minerals (FSM 2830) preserving the Wilderness resource to the extent possible.
3. To ensure the restoration of lands disturbed during exploration and development activities as nearly as practicable promptly upon abandonment of operations.

### **Insects and Disease in Wilderness - 2324.11**

1. To allow indigenous insect and plant diseases to play, as nearly as possible, their natural ecological role within Wilderness.
2. To protect the scientific value of observing the effect of insects and diseases on ecosystems and identifying genetically resistant plant species.
3. To control insect and plant disease epidemics that threaten adjacent lands or resources.

### **Fire Management in Wilderness - 2324.21**

1. Permit lightning-caused fires to play, as nearly as possible, their natural ecological role within Wilderness.
2. Reduce, to an acceptable level, the risks and consequences of wildfire within Wilderness or escaping from Wilderness.

### **Structures and Improvements in Wilderness - 2324.31**

To limit structures and improvements for administrative purposes or under special-use permit to those actually needed for management, protection, and use of the Wilderness for the purpose for which the Wilderness was established.

### **Research in Wilderness - 2324.41**

To provide appropriate opportunity for scientific studies that are dependent on a Wilderness environment.

### **Motorized Equipment in Wilderness - 2326.02**

1. To accomplish management activities with non-motorized equipment and non-mechanical transport of supplies and personnel.
2. Exclude the sight, sound, and other tangible evidence of motorized equipment or mechanical transport within Wilderness except where they are needed and justified.

### **Public Managed Recreation Opportunities - 2330.2**

1. To maximize opportunities for visitors to know and experience nature while engaging in outdoor recreation.
2. To develop and manage sites consistent with the available natural resources to provide a safe, healthful, aesthetic, non-urban atmosphere.
3. To provide a maximum contrast with urbanization at National Forest sites.

### **Privately Provided Recreation Opportunities - 2340.2**

1. To provide, under special-use authorization, sufficient, suitable facilities and services that supplement or complement those provided by the private sector, state, and local government on private land and the Forest Service on National Forest System land to meet public needs, as determined through land and resource management planning.
2. To facilitate the use, enjoyment, understanding, and appreciation of the National Forest, natural resource setting.

### **Concession Uses Involving Privately Developed Facilities - 2343.02**

To provide a diversity of recreation activities that emphasize the Forest setting and rustic, natural-resource-based recreation opportunities.

### **Group Use By Institutions or other Entities - 2345.02**

To allow group recreation opportunities, facilities, and service at camps on National Forest System land when suitable private lands are not available.

### **Trail, River, and Similar Recreation Opportunities - 2350.2**

1. Provide recreation opportunities for users of the general forest, water, and cave resources.
2. Provide opportunities for a variety of recreation pursuits with emphasis on activities that are in harmony with the natural environment and consistent with the recreation role of the National Forest.
3. Mitigate adverse impacts of users on the natural resources, cultural and historical resources, and on other users.

### **Forest Development Trails - 2353.02**

1. Provide trail-related recreation opportunities that serve public needs and meet land management and recreation policy objectives.
2. Provide trail recreation opportunities that emphasize the natural setting of the National Forest and are consistent with land capability.
3. Provide trail access for National Forest management and protection.

### **Scenic and Historic Trails - 2353.41**

To develop and administer National Scenic or National Historic Trails to ensure retention of the outdoor recreation experience for which the trail was established and continued production of maximum benefits from the land.

### **National Wild and Scenic Rivers System - 2354.02**

Provide river and similar water-recreation opportunities to meet the public needs in ways that are appropriate to the National Forest recreation role and are within the capabilities of the resource base. Protect the free-flowing conditions of designated Wild and Scenic Rivers and preserve and enhance the values for which they were established.

### **Off-Road Vehicle Management - 2355.02**

Provide off-road vehicle recreation opportunities that are in concert with the environmental setting, minimize off-road vehicle effects on the land and resources, promote public safety, and control conflicts with other uses of National Forest System lands.

### **Cave Management - 2356.02**

Provide cave-related recreational, cultural, educational, and scientific study opportunities that serve public need. Balance surface resource management and cave use with the protection of cave values.

## **Special Interest Areas - 2360.2**

To protect and, where appropriate, foster public use and enjoyment of areas with scenic, historical, geological, botanical, zoological, paleontological, or other special characteristics. To classify areas that possess unusual recreation and scientific values so that these special values are available for public study, use, or enjoyment.

## **Cultural Resources - 2361.02**

1. Complete an inventory of cultural resources on all National Forest System land by 1985 sufficient to provide a database for land management planning.
2. Complete an inventory of all cultural resources on National Forest System land by 1990.
3. Until these inventories are complete, exercise caution to ensure cultural resources are not damaged, destroyed or transferred by meeting the coordination requirements outlined in FSM 2361.3.
4. As part of the decision-making process, document inventory and evaluation procedures to ensure adequate participation by cultural resource professionals.
5. Perform inventories at appropriate levels prior to initiating project actions.

## **National Registry of National Landmarks - 2373.02**

To cooperate with the U.S. Department of Interior National Park Service:

1. Encourage the preservation of sites illustrating the geological and ecological character of the United States.
2. Enhance the scientific and educational value of sites thus preserved.
3. Foster a greater concern in the conservation of the Nation's natural heritage.

## **Visual Quality - 2380.2**

To manage all National Forest System lands to attain the highest possible visual quality commensurate with other appropriated public uses, costs, and benefits.

## **Interpretive Services/Visitor Information - 2390.2**

1. To assist those visitors in the National Forest, research projects, and state and private forestry locations in gaining a greater appreciation of the role of conservation in the development of the nation's heritage and culture.
2. To promote visitor understanding of the Forest Service, the National Forest System, forestry research, and state and private forestry programs.
3. To inform visitors of recreation opportunities and facilities on the National Forests.
4. To help visitors know and experience the natural environment.
5. To implement an interpretive program that helps solve management problems and aids in the development of public understanding of Forest Service management.
6. To expand the number of interpretive associations that contribute to public understanding of Forest Service practices, support interpretive services objectives, increase public awareness, and aid in management of National Forest resources.

7. To increase visitor understanding of natural and cultural history principles and their relation to land management techniques.

### **Timber Management - 2402**

1. Provide a continuous supply of National Forest timber for the use and necessities of the citizens of the United States.

2. To provide, as far as feasible, an even flow of National Forest timber in order to facilitate the stabilization of communities and opportunities for employment.

3. Manage and provide for regeneration of tree stands.

4. Maintain a diversity of forest vegetation types and resources consistent with the Forest Plan.

5. Plan and conduct cost-effective timber sales and other timber management activities.

### **Personal Use Firewood - 2431.6**

Make existing firewood available to all potential users consistent with protection of other resources values and budget and personnel constraints.

### **Commercial Timber Sales - 2430.2**

1. To provide an orderly program of timber sales from each National Forest in accordance with the Forest Plan or approved interim plans.

2. To offer for sale the ASQ and other sales specified in Forest Plans, subject to financing levels or other modification during their implementation.

3. To coordinate the timber sales program with planning, management, and use of other Forest resources.

4. To provide a continuous flow of raw material to local forest industries.

5. To ensure the Government only conducts business with responsible persons and in a manner which protects the interest of the Government and public.

### **Salvage Sales - 2435.02**

1. Provide for the removal of damaged or dead timber as soon as practically possible to avoid unnecessary loss of value and volume and to respond to potentially serious catastrophes such as wildfire, windthrow or hurricane.

2. Manage timber stands at high risk of spreading disease or insect epidemics to prevent volume loss.

3. Manage the use of the salvage sale fund to provide for the rapid, optimum practical use of wood material damaged through natural events such as insects, windstorms, wildfires, hurricanes and tornados.

### **Silvicultural Practices - 2470.2**

To prescribe, implement, and monitor silvicultural practices that develop forest stand conditions, which meet land management objectives designated in Regional Guides and Forest Plans.

### **Harvest Cutting - 2471.02**

Manage timber and other forest resources for protection, enhancement, and sustained yield of those resources through the sale or permitted use of forest products with the long-term intent to regenerate the stand.

### **Reforestation - 2472.02**

1. Maintain all forest lands within the National Forest System in appropriate forest cover.
2. Improve the quality and yield of new timber stands.
3. Achieve desired time and stocking level goals in a cost-efficient manner.
4. Develop and demonstrate successful reforestation methods and techniques and encourage their use by private landowners.

### **Timber Stand Improvement - 2476.02**

1. Maintain or increase the growth rate, health, species composition, and/or improve the quality of stands for timber or other resource uses according to direction in the Forest Plan.
2. Develop and demonstrate the benefit of improved methods and techniques of timber stand improvement for all resource uses as an encouragement for private landowners to apply timber stand improvement practices on their own land.

### **Watershed Management - 2502**

1. To protect and, where appropriate, enhance soil productivity, water quality and quantity, and timing of waterflows.
2. To maintain favorable conditions of streamflow and continuous production of resources from National Forest System watersheds.

### **Watershed Protection and Management - 2520.2**

To protect National Forest watersheds by implementing practices designed to retain soil stability, improve or maintain site productivity, secure favorable conditions of water flow, and preserve or enhance aquatic values.

### **Watershed Improvement - 2522.02**

1. Restore hydrologic balance of degraded watershed areas by stabilizing soil, controlling surface runoff and erosion, reducing flood potential, and improving long-term soil productivity.
2. Improve soil and water quality.

### **Burned Area Emergency Rehabilitation - 2523.02**

1. To determine if emergency watershed conditions exist.
2. To alleviate emergency watershed conditions following wildfire to help stabilize soil, control water, sediment, and debris movement, and to prevent threats to life, property, and other downstream values, both on-site and off-site.

### **Riparian Areas - 2526.02**

1. To protect, manage, and improve riparian areas while implementing land and resource management activities.
2. To manage riparian areas in the context of the environment in which they are located, recognizing their values.

### **Floodplain Management Wetland Protection - 2527.02**

1. To reduce risk of flood loss.
2. To minimize impacts of floods on human safety, health, and welfare.
3. To minimize destruction, loss, and degradation of wetlands.
4. To preserve and restore the natural and beneficial values of floodplains and wetlands.

### **Water Quality Management - 2532.02**

1. To protect and, where needed, improve the physical, chemical, biological, and aesthetic quality of the water resource consistent with the purposes of the National Forests and national water-quality goals.
2. To provide water of a quality suitable for the beneficial uses identified in the land and resource management planning process.
3. To ensure safe drinking water subject to public use on National Forests, whether the source is a natural or developed water supply. (Where state standards do not exist, observe EPA water-quality criteria.)

### **Municipal Supply Watersheds - 2542.02**

To manage National Forest System lands for multiple uses by balancing present and future resource use with domestic water-supply needs.

### **Soil Resource Improvement - 2553.02**

1. To improve soil quality to selected levels for specific purposes by mechanical treatment, chemical, or other soil additives, irrigation, or vegetative manipulation.
2. To rehabilitate soils that are in unsatisfactory condition.

### **Air Quality - 2580.2**

1. Protect air-quality-related values within Class 1 areas, as described in 42 U.S.C.7475 (d)(2)(b) and (c) and section 2580.5.
2. Control and minimize air-pollutant impact from land management activities.
3. Cooperate with air regulatory authorities to prevent significant adverse effects of air pollutants and atmospheric deposition on forest and rangeland resources.

### **Fish and Wildlife - 2602**

1. Maintain ecosystem diversity and productivity by:

- a. Recovering threatened or endangered species.
  - b. Maintaining at least viable populations of all native and desired non-native wildlife, fish, and plants in habitats distributed throughout their geographic range on National Forest System lands.
  - c. Producing habitat capability levels to meet sustained yield objectives relative to demand for featured management indicator species identified in RPA and Forest Plans.
2. Provide diverse opportunities for aesthetic, consumption, and scientific uses of wildlife, fish, and sensitive plant resources in accordance with national, regional, state and local demands.

### **Animal Damage Management - 2650.2**

The objective of animal damage management activities is to protect National Forest System resources, to protect activities taking place on National Forest System lands, and to reduce threats to human health and safety.

### **Threatened and Endangered Species - 2670.21**

Manage National Forest System habitats and activities for threatened and endangered species to achieve recovery objectives so that special protection measures provided under the Endangered Species Act are no longer necessary. Promote recovery efforts through Research and State and Private Forestry programs.

### **Sensitive Species - 2670.22**

1. Develop and implement management practices to ensure that species do not become threatened or endangered because of Forest Service actions.
2. Maintain viable populations of all native and desired non-native wildlife, fish, and plant species in habitats distributed throughout their geographic range on National Forest System lands.
3. Develop and implement management objectives for populations and/or habitat of sensitive species.

### **Special Uses - 2702**

1. To manage special uses of National Forest System lands in a manner which protects natural resource values and public health and safety, consistent with the Forest land and resource management plans;
2. To administer special uses based on resource management objectives and sound business management principles; and
3. To develop and maintain a well-trained workforce to properly manage and administer special uses.

## **Special Use Administration - 2721.02**

To issue and to administer special-use permits for recreation uses that serve the public, promote public health and safety, and protect the environment.

## **Special Uses Management - 2730.2**

1. Provide rights-of-way for the public road system, including the federal-aid system, when such roads cross National Forest System lands or interest in lands.
2. Accommodate the access needs for the protection, development, and utilization of lands and resources owned by private interests or administered by public agencies when the planned Forest Development Road System and public road system do not meet those needs adequately.
3. Protect and enhance the quality of air, water, soil, and natural beauty of Forest Service administered lands in the granting of any right-of-way.
4. Cooperate with intermingled and adjacent landowners in developing roads that serve the needs of both parties through the exchange of rights-of-way.
5. Provide access across National Forest System land to private land that is adequate to secure the owners thereof reasonable use and enjoyment of their land without unnecessarily reducing the management options of the Forest Service or damaging National Forest lands or resources.

## **Withdrawals - 2761.02**

1. Protect the United States' improvements and other unique values that are subject to disposition or destruction under the public land laws.
2. Provide a consistent and efficient withdrawal program that meets land and resource management objectives.
3. Ensure cooperation and coordination with the Secretary of the Interior and the Bureau of Land Management.
4. Encourage mineral activity where mineral extraction is the best use of the site.

## **Federal Power Act Projects - 2770.2**

To ensure hydroelectric production where it is compatible with National Forest purposes. To ensure that planning, construction, and operation of hydroelectric projects are performed in such a manner to protect or effectively utilize National Forest System land and resources.

## **Minerals and Geology - 2802**

1. Encourage and facilitate the orderly exploration, development, and production of mineral and energy resources within the National Forest System in order to maintain a viable, healthy minerals industry and to promote self-sufficiency in those mineral and energy resources necessary for economic growth and the national defense.
2. Ensure that exploration, development, and production of mineral and energy resources are conducted in an environmentally sound manner and that these activities are integrated with the planning and management of other National Forest resources.

3. Ensure that lands disturbed by mineral and energy activities are reclaimed for other productive uses.

### **Minerals Reservations Outstanding Mineral Rights - 2830.2**

To administer mineral reservations and outstanding mineral rights consistent with the rights reserved or outstanding and the acquired rights of the United States in a manner that minimizes damage to National Forest System resources.

### **Reclamation - 2840.2**

1. Minimize the environmental impacts resulting from such activities.
2. Ensure that disturbed lands are returned to a use that is consistent with long-term Forest land and resource management plans.

### **Mineral Materials - 2850.2**

To meet the demand for mineral materials consistent with the management of other surface resources.

### **Rural Development - 3602**

1. To utilize Forest Service programs and authorities to provide more jobs and income opportunities, to improve rural living conditions, to enrich the cultural life of rural America, and to maintain and protect the environment and natural resources of rural areas.
2. Participation in the Rural Conservation and Development Program (RC&D) is to improve the ability of state and local units of government and local sponsors to accelerate the conservation, development, and use of forest resources with the aim of improving the social, economic, and environmental conditions in an authorized RC&D area.

### **Rural Development - 3610.2**

1. To protect and manage the natural resources including scenic, Wilderness, and other special values of forest and range environments in rural areas.
2. To promote research to expand the technological base for forestry and the use of forest products and to lend support for rural housing goals.
3. To encourage the development and transfer of technological improvements to protect and improve the quality of the rural environment, and to extend the supplies of natural resources.
4. To maintain or increase the forest land base, improve its productivity, and improve forest landownership patterns.
5. To promote orderly development and wise use of forest resources consistent with sound stewardship to develop and increase rural employment and income with the aim of improving or stabilizing rural social and economic conditions.
6. To expand public understanding of environmental conservation and natural resource planning, protection, and management and how stewardship is related to these activities.
7. To provide information and analysis for determining forest resource potentials and opportunities to enhance rural development.

## **Resource Conservation and Development Program - 3620.2**

1. To help provide the people of the area with employment and other economic opportunities through the orderly development, improvement, conservation, and utilization of forest land and related resources in the RC&D areas.

2. To provide state and local leadership with the opportunity to coordinate and use the facilities and techniques available under current agricultural programs and any applicable new programs as may be instituted to aid in planning and carrying out a balanced program of development, conservation, and protection of natural resources to meet local, state, and national needs.

3. To develop a level of state and local leadership that can assume independent programs in forest and related resource management and achieve state and local forestry and related resource goals and objectives.

## **Research Natural Areas - 4063.02**

1. Preserve a wide spectrum of representative areas that typify important forest, shrubland, grassland, alpine, aquatic, geological, and similar natural situations that have special or unique characteristics of scientific interest and importance that in combination form a national network of ecological areas for research, education, and maintenance of biological diversity.

2. Preserve and maintain genetic diversity.

3. Protect against serious environmental disruptions.

4. Serve as reference areas for the study of succession.

5. Provide on-site and extension educational activities.

6. Serve as baseline areas for measuring long-term ecological changes.

7. Serve as control areas for comparing results from manipulative research.

8. Monitor effects of resource management techniques and practices.

## **Fire Management - 5102**

1. To integrate consideration of fire protection and use into the formulation and evaluation of land and resource management objectives, prescriptions, and practices.

2. To provide a cost efficient level of wildfire protection on National Forest System lands commensurate with the threat of life and property and commensurate with the potential for resource and environmental damage based on hazard, risk, values, and management objectives.

3. Consistent with land and resource management objectives, to minimize the sum of (a) the fire program cost, plus (b) the net change in value of planned resource outputs due to fire.

4. To protect, maintain, and enhance the production and quality of National Forest resources through fire protection and use of prescribed fire.

## **Fire Suppression - 5130.2**

To safely suppress wildfires at minimum cost consistent with land and resource management objectives and fire management direction as stated in fire management action plans.

### **Prescribed Fire - 5140.2**

To use prescribed fires, from either management ignitions or natural ignitions, in a safe, carefully controlled, cost-effective manner as a means of achieving management objectives defined in the Forest Plan.

### **Fuel Management - 5150.2**

To identify, develop, and maintain fuel profiles that contribute to the most cost-efficient fire protection and use program in support of land and resource management direction in the Forest Plan.

### **Landownership Adjustment - 5402**

1. Achieve the optimum landownership pattern to provide for resource uses to meet the needs of the people now and in the future.
2. Settle land title claims equitably and promptly.
3. Provide resource administrators readily accessible and understandable title information affecting the status and use of lands and resources they administer.

### **Land Purchases and Donations - 5420.2**

1. Enhance the multiple use and sustained yield of the goods and services from the National Forest System.
2. Protect and improve the quality of renewable resources.
3. Protect and preserve important historic, cultural, and natural aspects of the national heritage.
4. Provide for access, use, and enjoyment of the forest resources by the public.
5. Improve administrative efficiency and effectiveness of the National Forest System.

### **Land Exchange - 5430.2**

To implement land management and resource planning directions to attain an optimum National Forest System landownership pattern that provides for resource uses that best meet the present and future needs of the people.

### **Partial Interest Acquisition - 5440.2**

1. Provide for acquisition of only those interests in land necessary to meet planned program objectives.
2. Provide for continuance of private land uses which are consistent with planned program objectives.

### **National Forest System Modification - 5450.2**

1. The objectives of National Forest System modifications are to:
  - a. Obtain National Forest status for all appropriate lands within the National Forest System.

- b. Modify existing National Forest System unit boundaries as needed to provide logical exterior boundaries.
  - c. Establish purchase units as needed to meet program objectives.
  - d. Establish National Forest or other boundaries as needed to facilitate management and administration.
2. The objectives of land transfers are to:
- a. Improve management efficiency of federal lands.
  - b. Improve service to the public.
  - c. Result in net benefits to the government, to the public, or both.

### **Right-of-Way Acquisition - 5460.2**

Rights-of-way acquisition objectives are to acquire:

- 1. Road and trail rights-of-way that are adequate for the protection, administration, and utilization of the National Forests System;
- 2. Rights-of-way in time to meet road and trail construction and resource development program schedules;
- 3. All interests needed for use of roads and trails to meet the long-term management and multiple use objectives of National Forest System lands as set out in Forest land and resource management plans; and
- 4. When compatible with National Forest System needs, the utilization and development of resources in other ownerships on which communities within or adjacent to the National Forests depend.

### **Reservations and Outstanding Rights - 5470.2**

To accomplish real property adjustments free of encumbrances that would detract from present or future uses of National Forest System land or that would needlessly restrict private land use and impose an unwarranted management obligation on the Forest Service.

### **Condemnation - 5480.2**

To acquire real property or interests in property by condemnation when all other methods of acquisition fail and the property or interest is required for the protection, administration, or utilization of National Forest System lands.

### **Land Surveying - 7151.02**

Provide legal land surveys and related services to locate, mark, post, and maintain land corners, property corners, and property lines between National Forest System land and other ownerships for the protection and management of National Forest System lands and resources.

### **Landline Location Program - 7152.02**

Provide the land manager and public with visible and legally defensible administrative and property boundary lines on the ground, and to accurately depict the location of landownership lines on administrative maps produced by the Forest Service.

### **Sign and Poster Program - 7160.2**

1. Support accomplishment of management area direction contained in the Forest Plan for the administration, protection, management, and use of National Forest System lands.

2. Provide information for the safety, enjoyment and convenience of National Forest and National Grassland visitors, users, cooperators, and employees.

3. Provide information about geographic and historical features, and the use, management, and research activities on the National Forest and National Grasslands.

4. Identify National Forest and National Grassland facilities and lands.

### **Portable Water Supply - 7420.2**

Protect the health of the public and Forest Service personnel by ensuring that water provided by the Forest Service for human consumption at any administrative site or public use area is both safe and protected.

### **Wastewater Collection Systems and Treatment Works - 7430.2**

1. Avoid creating health hazards or nuisance conditions.

2. Restore and maintain the chemical, physical, and biological quality of water resources.

3. Prevent future pollution or degradation of surface or groundwater.

### **Forest Highways - 7440.2**

The objective of this program is to plan, design, construct, operate, and maintain wastewater disposal facilities and other related effluent-disposal activities to ensure that discharge and/or infiltration of pollutants do not create health hazards or nuisance conditions, nor alter the quality or characteristics of either groundwater or surface water beyond applicable federal and/or state water-quality and effluent-discharge standards. Where no standards exist, the quality of characteristics of surface and groundwater shall:

a. Be maintained as near to their existing conditions as measurable.

b. Not be degraded to adversely affect either present or projected beneficial uses (FSH 7409.11 Ch. 20).

c. Not be allowed to degrade the quality of subsequent ground- or surface-receiving waters beyond the standards when such have been established.

### **Transportation System - 7702**

1. To plan, develop, and operate a network of transportation facilities and transportation modes that provide user safety, convenience, and efficiency of operations.

2. To provide access to National Forest System lands in order to accomplish management direction and protection objectives.

3. To coordinate access to National Forest System lands with national and statewide transportation needs.

4. To minimize the total transportation present-worth costs including user, maintenance, construction, reconstruction, rehabilitation, restoration, realignment, and betterment costs.

### **Transportation Planning - 7710.2**

1. To efficiently provide facilities that will achieve Forest management direction and that are appropriate for their intended purpose.

2. To direct the orderly development and management of the transportation system and to ensure the documentation of decisions affecting the system.

### **Development - 7720.2**

To locate, survey, design, and construct transportation facilities in accordance with FSM 7702.

### **Operation and Maintenance - 7730.2**

Operate and maintain the Forest Development Transportation System in a manner to provide cost effective support of resource management direction and safe travel for users of the system while protecting the environment, adjacent resources and the public investment.

### **Highway Safety Program - 7733.02**

To reduce traffic accidents, deaths, injuries and any resulting property damage.

### **Federal Lands Highway Program - 7740.2**

To assist the Federal Highway Administration with the administration of the Forest highway program to plan and develop access roads to:

- a. Enhance the value of National Forest System resources.
- b. Protect, develop, and use the National Forest System and its renewable resources.
- c. Enhance economic development at the local, regional, and national levels.
- d. Serve local needs and communities dependent on the National Forest System activities.
- e. Provide for economy of operation and maintenance and the safety of the users.
- f. Provide safe and adequate rural highways connecting the National Forest System with major highway systems.