



United States Department of Agriculture

# Apache-Sitgreaves National Forests Land Management Plan

## Programmatic Final Environmental Impact Statement

Apache, Coconino, Greenlee, and Navajo Counties,  
Arizona

Volume II. Chapter 4, Glossary, References, Index, and  
Appendices A through G



Forest Service

Apache-Sitgreaves National Forests

MB-R3-01-11

August 2015

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# Programmatic Final Environmental Impact Statement for the Apache-Sitgreaves National Forests Land Management Plan

## Volume II. Chapter 4, Glossary, References, Index, and Appendices A through G

Apache, Coconino, Greenlee, and Navajo Counties, Arizona

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**Abstract:** To comply with the National Forest Management Act and address changes that have occurred over the past 27 years, the Apache-Sitgreaves National Forests propose to revise the current land management plan (1987 plan). This programmatic final environmental impact statement (FEIS) documents analysis of the impacts of four alternatives developed for programmatic management of the 2.1 million acres administered by the Apache-Sitgreaves National Forests.

The FEIS documents the analysis of all alternatives and the associated environmental consequences at a programmatic level. The preferred alternative (alternative B) analyzed in this FEIS and reflected in the accompanying “Apache-Sitgreaves National Forests Land Management Plan,” would guide all natural resource management activities on the Apache-Sitgreaves National Forests. This alternative addresses new information and concerns received since the 1987 plan was published, and it meets objectives of Federal laws, regulations, and policies.



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# Commonly Used Acronyms

ADA – Arizona Department of Agriculture

ADEQ – Arizona Department of Environmental Quality

ADOT – Arizona Department of Transportation

AMS – Analysis of the Management Situation

AZGFD – Arizona Game and Fish Department

ASQ – Allowable Sale Quantity

BAER – Burned Area Emergency Response

BLM – Bureau of Land Management

BMP – Best Management Practice

CCF – 100 cubic feet

CER – Comprehensive Evaluation Report

CFR – Code of Federal Regulations

CWPP – Community Wildfire Protection Plan

CWRF – Cottonwood-Willow Riparian Forest

DBH – Diameter at Breast Height

DMCF – Dry Mixed Conifer Forest

DRC – Diameter at Root Collar

EI – Ecological Indicator

EIS – Environmental Impact Statement

EPA – Environmental Protection Agency

EO – Executive Order

ESA – Endangered Species Act

FR – Federal Register

FSH – Forest Service Handbook

FSM – Forest Service Manual

GBG – Great Basin Grassland

GIS – Geographical Information System

GTR – General Technical Report

HUC – Hydrologic Unit Code

IC – Interior Chaparral

IRA – Inventoried Roadless Area

MBDRF – Mixed Broadleaf Deciduous Riparian Forest

MIS – Management Indicator Species

MOU – Memorandum of Understanding

MPOW – Madrean Pine-Oak Woodland

MSO – Mexican Spotted Owl

MSG – Montane/Subalpine Grasslands

MVUM – Motor Vehicle Use Map

MWRF – Montane Willow Riparian Forest

NEPA – National Environmental Policy Act

NF – National Forest

NFMA – National Forest Management Act

NFS – National Forest System

NOA – Notice of Availability

NOI – Notice of Intent

NPS – National Park Service

NRCS – Natural Resource Conservation Service

NRHP – National Register of Historic Places

NRT – National Recreation Trail

## Commonly Used Acronyms

NVUM – National Visitor Use Monitoring

OHV – Off-highway Vehicle

PAC – Protected Activity Center

PFA – Post-fledging Family Area

PFC – Proper Functioning Condition

PJW – Piñon-Juniper Woodland

PNVT – Potential Natural Vegetation Type

PPF – Ponderosa Pine Forest

RMRS – Rocky Mountain Research Station

RNA – Research Natural Area

ROS – Recreation Opportunity Spectrum

SAD – Sudden Aspen Decline

SDG – Semi-Desert Grassland

SFF – Spruce-Fir Forest

TCP – Traditional Cultural Property

TES – Terrestrial Ecosystem Survey

USC – United States Code

USDA – United States Department of  
Agriculture

USFS – United States Forest Service

USFWS – United States Fish and Wildlife  
Service

WCRA – Wetland Cienega Riparian Areas

WMCF – Wet Mixed Conifer Forest

WQA – Wildlife Quiet Area

WUI – Wildland-urban Interface

# Chapter 4. Consultation and Coordination

## Preparers and Contributors

The following individuals and Forest Service staff groups contributed to the development of this environmental impact statement:

### Responsible Official

Calvin Joyner, Regional Forester for the Southwestern Region

### Official Responsible for Preparing the FEIS

Thomas D. Osen, Forest Supervisor

## Interdisciplinary Team Members

**Table 177. Interdisciplinary team members for plan revision**

<b>Name</b>	<b>Title and FEIS Contribution</b>	<b>Education and Experience</b>
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Chapter 4. Consultation and Coordination

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Name	Title and FEIS Contribution	Education and Experience
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Denise VanKeuren	Former Range Program Manager (Range Specialist Report)	B.S., Natural Resources Management emphasis in Range, Arizona State University 33 years with the Forest Service

### Other Forest Service Contributors

Review and input in the development of the proposed plan and FEIS were received from the staffs of the Alpine, Black Mesa, Clifton, Lakeside, and Springerville Ranger Districts, Supervisor’s Office, and Southwestern Regional Office. Delilah Jaworski, social scientist with TEAMS Enterprise Unit, prepared the “Socioeconomic Resource Report.” Tamara Conner, forest environmental coordinator, provided NEPA review and oversight.

### Consultation and Coordination

The Forest Service consulted the following tribes, Federal, State, and local agencies, groups, and individuals during the development of this environmental impact statement:

#### Tribes

The following nine tribes and one chapter were consulted: White Mountain Apache Tribe, San Carlos Apache Tribe, Hopi Nation, Navajo Nation, Pueblo of Zuni, Yavapai-Apache Tribe, Tonto Apache Tribe, Fort McDowell Yavapai Nation, Yavapai-Prescott Indian Tribe, and the Ramah Chapter of the Navajo Nation.

#### Federal, State, and Local Agencies

Numerous Federal, State, and local agencies have been consulted in the development of the proposed plan and this FEIS. Complete mailing lists for the scoping periods are available in the “Plan Set of Documents.” Some of the agencies consulted include the following:

U.S. Federal Advisory Council on Historic Preservation	Apache County Board of Supervisors
U.S. Army Corps of Engineers	Apache County Cooperative Extension Office
U.S. Bureau of Indian Affairs	Apache County Planning and Zoning
U.S. Bureau of Reclamation	Apache County Sheriff's Office
U.S. Customs and Border Protection	Catron County Board of Commissioners
U.S. Department of Energy	Coconino County Board of Supervisors
U.S. Department of Agriculture	Coconino County Planning and Zoning
U.S. Environmental Protection Agency	Gila County Board of Supervisors
U.S. Federal Energy Regulatory Commission	Graham County Board of Supervisors
U.S. Federal Highway Administration	Greenlee County Board of Supervisors
U.S. Fish and Wildlife Service	Greenlee County Road Department
U.S. National Park Service	Navajo County Board of Supervisors
U.S.D.A. Animal Damage Control	Navajo County Cooperative Extension
U.S.D.A. Farm Services Agency	Navajo County Sheriff's Office
U.S.D.A. Natural Resources Conservation Service	City of Holbrook
U.S. Congress Members	City of Show Low
U.S. Senate Members	City of St. Johns
Arizona State Representatives	City of Winslow
Arizona State Senators	Clay Springs-Pinedale Fire Department
Arizona Department of Environmental Quality	Eagar Town Council
Arizona Department of Mines and Mineral Resources	Eastern Arizona Counties Organization
Arizona Department of Public Safety	Forest Lake Fire District
Arizona Department of Transportation	Greer Fire District
Arizona Game and Fish Department	Heber-Overgaard Fire Department
Arizona Governor's Office	Lakeside Fire Department
Arizona State Forestry Division	Show Low Planning and Zoning Commission
Arizona State Historic Preservation Office	Town of Taylor
Arizona State Land Department	Town of Clifton
Arizona State Parks	Town of Duncan
New Mexico Department of Game and Fish	Town of Eagar
Apache County Natural Resource Conservation District	Town of Pinetop-Lakeside
	Town of Snowflake
	Town of Springerville
	Town of Taylor
	Winslow Chamber of Commerce

## **Others**

Numerous groups and individuals participated in the process through written comments and by attending public meetings. Complete mailing lists are available in the "Plan Set of Documents." Some of the groups consulted include the following:

Apache-Sitgreaves National Forests' Permit Holders	Disabled Explorers
Alpine Action Alliance	Ducks Unlimited
Alpine Chamber of Commerce	Earth Justice
American Sportfishing Association	Eastern Arizona Counties Organization
Animal Defense League of Arizona	Ecological Restoration Institute
Animal Welfare Institute	Economic Development for Apache County
Apache County ATV Roughriders	Forest Guardians
Apache County Historical Society	ForestERA
Archery Trade Association	Foundation for North American Wild Sheep
Arizona Cattle Growers' Association	Freeport-McMoRan Copper & Gold, Inc.
Arizona Council of Trout Unlimited	Friends of Anderson Mesa
Arizona Deer Association	Friends of Arizona Rivers
Arizona Desert Bighorn Sheep Society	Graham County Republicans
Arizona Elk Society	Grand Canyon Trust
Arizona Grazing Lands Conservation Association	Grand Canyon Wildlands Council
Arizona Healthy Grazing Coalition	Grand Canyon Wolf Recovery Project
Arizona Nature Conservancy	Great Old Broads for Wilderness
Arizona OHV Coalition	Greenlee County Cattle Growers Association
Arizona Public Service	Greenlee County Cowbells
Arizona Riparian Council	Izaak Walton League of America
Arizona Trail Riders	Little Colorado River Plateau RC&D
Arizona Trappers Association	Little Colorado River Watershed Coordinating Council
Arizona Wilderness Coalition	Local Homeowner's Associations
Arizona Wildlife Federation	Maricopa Audubon Society
Arizona Wool Producers Association	National Assembly of Sportsmen's Caucuses
Arizona Zoological Society	National Rifle Association of America
Back Country Horsemen of America	National Shooting Sports Foundation
Back Country Pilots	National Wild Turkey Federation
Backcountry Horsemen of Arizona	Natural Heritage New Mexico
Bear Trust International	Navajo County ATV Roughriders
Blue Ribbon Coalition	Navopache Electric Co-op
Blue River Cowbells	New Mexico Cattle Growers Association
Blue River Watershed Association	New Mexico Wilderness Alliance
Campaign for America's Wilderness	North American Bear Foundation
Campfire Club of America	North American Grouse Partnership
Center for Biological Diversity	Northern Arizona University
Center for Desert Archaeology	People of the West
Central Arizona Grotto	
Citizens for Multiple Land Use and Access (CMLUA)	
Defenders of Wildlife	

Public Employees for Environmental Responsibility	The Rewilding Institute
Public Lands Foundation	The Wilderness Society
Quails Unlimited	The Wildlands Project
Quality Deer Management Association	TRACKS
Ranching Heritage Alliance	Trout Unlimited
Recreational Boating and Fishing Foundation	Tucson Electric Power
Rocky Mountain Elk Foundation	University of Arizona
Ruffed Grouse Society	Upper Eagle Creek Watershed Association
Safari Club International	Upper Little Colorado River Watershed Partnership
Salt River Project	Western Environmental Law Center
Sand County Foundation	Western Lands Exchange Project
Save the Peaks Coalition	Western Watersheds Project
Sierra Club	White Mountain Audubon Society
Sky Island Alliance	White Mountain Conservation League
Southwest Center for Biological Diversity	White Mountain Open Trails Association
Southwest Environmental Center	White Mountain Regional Development Corporation
Southwest Forest Products	White Mountain Shooters Association
Springerville-Eagar Regional Chamber of Commerce	WildEarth Guardians
The Nature Conservancy	Wilderness Watch
The Northern Arizona Wood Products Association	

### **List of Agencies, Organizations and Persons to Whom Copies of the FEIS Were Sent**

Notice of the availability of this FEIS was mailed to the public, forest employees, tribal governments, Federal and State agencies, and local governments. These mailing lists can be found in the “Plan Set of Documents” and are available on request. The FEIS is available on the forests’ web site. Printed copies or CDs are available upon request.