



Final Environmental Impact Statement for the Land Management Plan

Tonto National Forest

Volume 5: Appendix I

Coconino, Gila, Maricopa, Pinal, and Yavapai Counties, Arizona



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for the Land Management Plan**

Tonto National Forest

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Contents

Appendix I. Crosswalk from 1985 Forest Plan to Revised Forest Plan.....	1
Introduction	1
Crosswalk Tables.....	1
1985 Plan Goals.....	1
Soil, Water, and Air Quality	2
Fire Management	3
Wildland Fire	4
Pest Management.....	5
Wildlife, Fish, and Plants.....	6
Transportation and Utility Corridors	7
Transportation and Administrative Facilities.....	8
Timber.....	8
Outdoor Recreation.....	9
Caves.....	11
Wilderness and Wild and Scenic Rivers	11
Range	12
Lands.....	13
Minerals	14
Law Enforcement.....	14
1985 Forest Plan Standards and Guidelines	14
Recreation	15
Special Uses.....	19
Energy Production and Delivery.....	20
Rangelands, Forage, and Grazing	22
Cultural and Historic Resources	25
Forestry and Forest Products	29
Scenery.....	32
Mining and Minerals.....	34
Roads	36
Facilities.....	38
Lands and Access.....	40
Vegetation.....	42
Fire and Fuels.....	48
Watersheds and Water Resources	54
Riparian Areas, Seeps, Springs, Wetlands, and Riparian Management Zones (RMZs)	55
Wildlife, Fish, and Plants.....	58
Invasive Species.....	82
Soils	84
Caves and Karsts.....	85

Air Quality	86
Designated Wilderness Areas	87
Designated Wild and Scenic Rivers.....	89
Other Designated Areas	90

References for the appendices are in the Reference section of volume 2 of the final environmental impact statement. Also, please refer to volumes 1-3 for more information and analysis.

Appendix I. Crosswalk from 1985 Forest Plan to Revised Forest Plan

Introduction

The intent of this appendix is to provide greater transparency on how key plan direction from the 1985 forest plan (e.g., standards and guidelines) was incorporated into the revised plan. It does not provide an exhaustive account of all plan direction; it is focused on plan content associated with the identified needs for change and specific topics where stakeholder concerns were voiced at some point during the plan revision process. It should be noted that existing laws, regulations, and Forest Service policy must be adhered to whether or not it is duplicated in plan direction.

Crosswalk Tables

The tables below outline the changes between the 1985 plan direction and the revised forest plan.

The “action taken” column describes what was done with the 1985 plan direction.

- When the action taken is described as “retained”, the 1985 plan direction was carried forward in the revised plan exactly as written, or with very little modification.
- When the action taken is described as “removed”, the 1985 plan direction was dropped from the revised plan entirely.
- When the action taken is described as “retained but modified”, the intent of the 1985 plan direction was preserved but the wording was changed to improve clarity, add detail, or address a need for change.
- Where the action taken is described as “replaced”, there have been advancements in scientific understanding and while the basic intent of the 1985 plan direction may have been preserved, the changes made were greater than when “retained but modified” is used.

1985 Plan Goals

Forestwide goals from the 1985 Land and Resource Management Plan for the Tonto National Forest (1985 plan), as amended, are listed below and compared to revised forest plan direction. These goals were pulled from pages 19-22 of the 1985 plan.

The table format below incorporates abbreviations for plan content and resource areas. Plan component coding is outlined in the forest plan, Chapter 1. Introduction, Forest Plan Framework and Organization and can be used to help identify the plan component type and resource area the plan direction is associated with in the revised forest plan. Additionally, there may be other related plan direction captured within the forest plan that meets the intent of the 1985 plan goals. The components listed in the “2021 Plan Direction or Other Plan Content” columns of the table capture the most directly related plan content.

Soil, Water, and Air Quality

1985 Plan Goal	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Meet minimum air and water quality standards.	25	Replaced	Air Quality, Watersheds and Water Resources	WAT-DC-02, AQ-DC-02	The revised forest plan does not incorporate goals for management. The intent of the goal has been translated into a desired condition in the revised plan to meet or exceed standards for both air quality and water quality.
Emphasize improvement of soil productivity, air and water quality.	20	Replaced	Air Quality, Watersheds and Water Resources, Soils	SL-DC-01, WAT-DC-03, AQ-DC-01	The revised forest plan does not incorporate goals for management. The intent of the goal has been translated into desired conditions in the revised plan to have functioning watersheds, soils, air resources.
Augment water supplies when compatible with other resources.	None	Removed	Watersheds and Water Resources	N/A	The revised forest plan does not incorporate goals for management. This specific goal is not captured elsewhere in the plan.
Enhance riparian ecosystems by improved management.	22	Replaced	Riparian Areas, Seeps, Spring, Wetlands, and Riparian Management Zones	RMZ-DC-04, RMZ-DC-05	The revised forest plan does not incorporate goals for management. The intent of the goal has been translated into desired conditions to manage multiple uses within riparian areas to protect the long-term health of riparian ecosystems.
Obtain water rights necessary to ensure orderly resource development.	None	Replaced	Watersheds and Water Resources	WAT-DC-09	The revised forest plan does not incorporate goals for management. The intent of the goal has been translated into a desired condition in the revised plan to acquire water rights to support ecosystem water needs.

1985 Plan Goal	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Inventory and interpret soil, air and water resources.	6	Replaced	Monitoring	Watershed Monitoring Question M-03	The revised forest plan does not incorporate goals for management. This goal has been retained in the form of monitoring questions incorporated in the plan to track progress towards meeting desired conditions.
Resource planning and management activities within the desert zone must fully recognize the limitations this unique ecosystem has to the impacts of man's uses and activities.	14, 17, 19	Replaced	Ecological Response Units – Desert Ecosystems	ERU-DES-DC-03, EDU-DES-DC-04, ERU-DES-DC-05	The revised forest plan does not incorporate goals for management. The intent of the goal has been translated into desired conditions in the revised plan that acknowledge the unique characteristics of desert ecosystems.

Fire Management

1985 Plan Goal	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Fire will be recognized as a resource management tool and will be included within a management prescription where it can effectively accomplish resource management objectives.	18	Replaced	Fire and Fuels	FF-DC-04, FF-DC-06	The revised forest plan does not incorporate goals for management. The intent of the goal has been translated into desired conditions in the revised plan highlighting the importance of fire as a management tool.
The long-term goal of fire management is to re-introduce fire back into fire dependent ecosystems, and allow it to resume its natural role.	18	Replaced	Fire and Fuels	FF-DC-05	The revised forest plan does not incorporate goals for management. The intent of the goal has been translated into a desired condition in the revised plan that wildfire behavior and effects are within their natural range of variability.

1985 Plan Goal	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
The priorities for managing wildland fire will be the protection of public and firefighter safety, property, natural and cultural resources to minimize negative impacts.	18	Replaced	Fire and Fuels	FF-DC-01, FF-DC-02	The revised forest plan does not incorporate goals for management. The intent of the goal has been translated into desired conditions in the revised plan that firefighter and public safety is the first priority in fire management activities and that these activities do not result in loss of life, damage to property or infrastructure, or degraded ecosystem function.
Fire management, including suppression activities, will be commensurate with resource values and objectives.	18	Replaced	Ecological Response Units and Fire and Fuels	ERU-DC-06, ERU-DC-07, FF-S-01	The revised forest plan does not incorporate goals for management. The intent of the goal has been translated into desired conditions in the revised plan that fire frequency and severity are within characteristic ranges expected for the vegetation. It has also been incorporated into standards requiring fire to be managed to meet resource objectives.
The criteria for determining and managing Wildland and prescribed Fires must meet agency direction.	18	Replaced	Fire and Fuels	FF-S-02	The revised forest plan does not incorporate goals for management. The intent of the goal has been translated into standards in the revised plan that decision makers use a decision support process to guide and document wildfire management decisions.

Wildland Fire

1985 Plan Goal	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Wildland Fire will be managed regardless of Wilderness area and agency boundaries as determined by resource and/or Wilderness objectives identified in a Wildland Fire Implementation Plan.	18	Replaced	Fire and Fuels, Designated Wilderness Management Areas, and Recommended Wilderness Management Areas	FF-DC-07, DWMA-G-05, RWMA-G-05	The revised forest plan does not incorporate goals for management. The intent of the goal has been translated into desired conditions in the revised plan that wildland fire plays natural role in both designated and recommended wilderness areas. The revised plan also includes guidelines for the use of prescribed fire within wilderness areas.
In areas where it is not possible to allow fire to fully resume its natural role within an ecosystem, Prescribed Fire will be applied to meet management objectives.	18	Replaced	Fire and Fuels	FF-G-04	The revised forest plan does not incorporate goals for management. This goal has been captured as a guideline in the revised plan focused on utilizing prescribed fire to move areas towards natural fire regimes.
Actively participate with all interested and potentially affected parties to develop strategic Interface management measures to reduce Wildland Fire threats to life, property and resources, address issues of Forest health, and provide for community partnerships including treatments of vegetation and fuels, and access needs.	18	Replaced	Fire and Fuels	FF-MA-06	The revised forest plan does not incorporate goals for management. The intent of the goal has been translated into management approaches in the revised plan that encourage partnerships with potentially affected parties for wildland fire management.

Pest Management

1985 Plan Goal	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Through Integrated Pest Management (IPM), manage resources to prevent a build-up of insects and diseases to prevent or reduce serious, long lasting hazards.	12	Replaced	Invasive Species	INS-DC-01, INS-MA-03	The revised forest plan does not incorporate goals for management. The desired condition for the forest is that invasive species do not disrupt ecological functionality or sustainability of forest resources. The intent of the goal has been translated into management approaches in the revised plan that utilizes IPM to manage known locations of invasive species, but this might not be the only tool utilized.

Wildlife, Fish, and Plants

1985 Plan Goal	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Wildlife and fish habitat elements will be recognized in all resource planning and management activities to assure coordination that provides for species diversity and greater wildlife and fish populations through improvement of habitat.	None	Replaced	Wildlife, Fish, and Plants	WFP-DC-01	The revised forest plan does not incorporate goals for management. The intent of the goal has been translated into a desired condition that ecological conditions contribute to the vitality of both common and uncommon native species.
Ensure that fish and wildlife habitats are managed to maintain viable populations of existing native vertebrate species.	27	Replaced	Wildlife, Fish, and Plants	WFP-DC-01, WFP-DC-02, WFP-DC-04	The revised forest plan does not incorporate goals for management. The intent of this goal is captured in multiple desired conditions around the condition of habitats to promote viable populations of fish and wildlife species.

1985 Plan Goal	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Improve habitat for selected species.	27	Replaced	Wildlife, Fish, and Plants, and Ecological Response Units	WFP-DC-01	The revised forest plan does not incorporate goals for management. While we recognize the importance of improving habitat for at-risk species, language in the plan focuses on maintaining habitat for all species, both common and uncommon. Additionally, Designated critical habitat would be managed specifically to contribute to the ecological conditions necessary for federally listed species.
Cooperate with appropriate State Fish and Wildlife agencies.	7, 9	Replaced	Wildlife, Fish, and Plants	WFP-MA-01	The revised forest plan does not incorporate goals for management. This goal has been retained as a management approach in the revised plan, but modified to identify other pertinent partnerships.
Prevent destruction or adverse modification of critical habitats for Threatened and Endangered species and manage for a goal of increasing population levels that will remove them from the lists.	1	Replaced	Wildlife, Fish, and Plants	WFP-G-01, WFP-G-03	The revised forest plan does not incorporate goals for management. This goal has been replaced by guidelines indicating that recovery plans, best available science, and other conservation methods are used to contribute to the recovery of federally listed species.

Transportation and Utility Corridors

1985 Plan Goal	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Provide that right-of-ways grants are confined to designated corridors to the extent practicable.	41	Replaced	Energy Production and Delivery	EG-DC-03	The revised forest plan does not incorporate goals for management. The intent of this goal has been translated into a desired condition that utility right-of-ways allow for maintenance of infrastructure, but also allow progress towards desired conditions for vegetation and other land uses.

Transportation and Administrative Facilities

1985 Plan Goal	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Provide a serviceable road and trail transportation system to meet public access, land management, and resource protection needs.	51	Replaced	Lands and Access	LA-DC-01	The revised forest plan does not incorporate goals for management. The intent of this goal was captured in a desired condition that roads and trails provide access where needed across the forest.
Provide administrative facilities to meet resource and activity needs and which meet pollution abatement standards where applicable.	44	Replaced	Facilities	FC-DC-01, FC-DC-02	The revised forest plan does not incorporate goals for management. The intent of this goal was captured in desired conditions that facilities are present where needed and have minimal impact on ecological conditions.

Timber

1985 Plan Goal	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
On forested lands identified as suitable for commercial timber production, manage the timber resource to provide the full potential yield of quality timber on a sustained yield basis.	29	Replaced	Forestry and Forest Products	FP-O-01	The revised forest plan does not incorporate goals for management. The intent of this goal is captured in the objective for timber contributions to the forest product industry that accounted for the sustained yield limit.
Design of timber management activities will integrate considerations for water quality, soils, wildlife habitat, recreation opportunities, visual, and other values.	33	Replaced	Forestry and Forest Products	FP-DC-01, FP-DC-02	The revised forest plan does not incorporate goals for management. The intent of this goal was translated into desired conditions that timber harvest contributes to ecological condition
Develop and implement a fuelwood management program for the Forest.	3	Removed	Forestry and Forest Products	N/A	The revised forest plan does not incorporate goals for management. This specific goal was removed from the plan as the revised forest plan does not incorporate language around the development of alternate programs. These items would be determined at a lower level, within program management.

Outdoor Recreation

1985 Plan Goal	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Maintain and enhance visual resource values by emphasizing recreation resource management which will increase opportunities for a variety of developed and dispersed experiences.	36, 40	Replaced	Scenery and Recreation	SC-DC-01, REC-DC-04	The revised forest plan does not incorporate goals for management. The intent of this goal was translated into desired conditions for diverse recreation opportunities in visually appealing landscapes that contribute to visitors' sense of place.
Provide those developed sites needed to meet most of the public demand and to support dispersed visitor use.	38	Replaced	Developed Recreation	REC-DEV-DC-01	The revised forest plan does not incorporate goals for management. The intent of this goal was captured as a desired condition for amenities on developed sites that meet the needs of forest users.
Emphasize visual quality objectives in all resource planning and management activities.	40	Replaced	Scenery	SC-G-01, SC-G-02, SC-G-03	The revised forest plan does not incorporate goals for management. The intent of this goal was translated to guidelines in the plan that impacts to scenic resources should be minimal and mitigation measures should be incorporated in project design.
Conduct inventory, evaluation, nomination, management protection, scientific study, public interpretation, and enhancement of cultural resources in accordance with the management prescriptions, and objectives and priorities	48	Replaced	Cultural and Historic Resources	CUH-DC-01, CUH-DC-08	The revised forest plan does not incorporate goals for management. The intent of this goal was captured as desired conditions in the revised plan in having the forest inventoried for cultural properties and characteristics are retained.
Coordinate planning for these activities with the State Cultural Resource Plan, and planning activities of the State Historic Preservation Office, and with other State and Federal agencies.	7	Replaced	Cultural and Historic Resources	CUH-MA-10	The revised forest plan does not incorporate goals for management. Throughout the plan, coordination with partners and stakeholders is documented as management approaches.

Caves

1985 Plan Goal	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Preserve and protect cave ecosystems as nonrenewable resources to maintain their geological, scenic, educational, cultural, biological, hydrological, paleontological, and recreational values.	None	Replaced	Caves and Karsts	CVK-DC-01	The revised forest plan does not incorporate goals for management. The intent of this goal was captured as a desired condition in the revised plan that caves and karst features are conserved, maintained, and not degraded by visitors

Wilderness and Wild and Scenic Rivers

1985 Plan Goal	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Emphasize a wilderness management program which is interdisciplinary in approach, and which is directed towards achieving the intent of the Wilderness Act of 1964 and FSM 2320.	None	Replaced	Designated Wilderness Management Area	DWMA-S-01	The revised forest plan does not incorporate goals for management. This goal is in the revised plan as a standard that wilderness character is maintained or improved by all management actions within wilderness areas.
Work cooperatively with the Coconino and Prescott National Forests to protect and enhance the specific outstandingly remarkable values within the designated Wild and Scenic segments of the Verde River. Protect its free-flowing condition and water quality.	7	Replaced	Designated Wild and Scenic Rivers	DWSR-MA-02	The revised forest plan does not incorporate goals for management. Throughout the plan, coordination with neighboring forests is documented as management approaches, including for the management of designated wild and scenic rivers.

Range

1985 Plan Goal	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Emphasize a program of range administration which will bring the range resource under proper management and improve range forage conditions. The recognizable benefit of this emphasis will be improved watershed condition, range forage improvement, wildlife habitat improvement, and visual quality enhancement.	30, 34	Replaced	Rangelands, Forage, and Grazing	GRZ-DC-02, GRZ-DC-03	The revised forest plan does not incorporate goals for management.
Investigate, control, minimize, and eliminate unauthorized livestock use as a priority range management job.	None	Replaced	Rangelands, Forage, and Grazing	GRZ-G-08	The revised forest plan does not incorporate goals for management. This goal is captured as a guideline providing direction for dealing with unauthorized livestock.
Bring the permitted grazing use in balance with the forage allocated for use by domestic livestock, and to have all allotments under appropriate levels of management during the third time period.	34	Replaced	Rangelands, Forage, and Grazing	GRZ-DC-02, GRZ-G-04, GRZ-G-09	The revised forest plan does not incorporate goals for management. This goal is captured in the revised forest plan in that grazing allows for healthy ecosystems and provides guidelines on timing restrictions and monitoring of rangeland conditions.

Lands

1985 Plan Goal	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Use land ownership adjustment to accomplish resource management objectives.	50	Replaced	Lands and Access	LA-DC-01, LA-G-01	The revised forest plan does not incorporate goals for management. This goal has been directly translated into a desired condition within the plan. Additionally, the revised plan incorporates a guideline for acquiring lands.
Post identifiable property boundaries.	52	Replaced	Lands and Access	LA-DC-04	The revised forest plan does not incorporate goals for management. This goal has been directly translated into a desired condition within the plan.
Allow the use of available National Forest lands for appropriate public or private interests consistent with National Forest policies.	50	Replaced	Special Uses	SU-DC-02	The revised forest plan does not incorporate goals for management. This goal is in line with law, regulation, and policy, but has been captured as a desired condition for special uses that special use authorizations balance public demand with protection of ecological resources.
Resolve unauthorized occupancy and obtain needed rights-of-way.	51, 52	Replaced	Land and Access	LA-DC-03, LA-DC-05, LA-DC-06	The revised forest plan does not incorporate goals for management. The intent of this goal has been translated into desired conditions within the plan that trespass does not exist on the forest and access is available where needed. Additionally, the revised plan has guidelines

Minerals

1985 Plan Goal	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Support environmentally sound energy and minerals development.	None	Replaced	Mining, Minerals, and Abandoned Mines	MMAM-DC-01	The revised forest plan does not incorporate goals for management. This goal is incorporated into the revised plan with a desired condition about minimal adverse impacts as a result of the development of mineral resources.

Law Enforcement

1985 Plan Goal	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Cooperate with State and local law enforcement agencies in the protection of visitors and their property.	7	Replaced	Partnerships and Volunteers	PV-DC-01	The revised forest plan does not incorporate goals for management. Throughout the plan, coordination with partners is documented as management approaches, including coordination with law enforcement. Additionally, desired conditions
Emphasize a high level of Forest Service law enforcement activities in areas of high recreation use and fuelwood production.	7	Replaced	Partnerships and Volunteers, Recreational Shooting, and Lakes and Rivers Management Area	PV-DC-01, REC-DIS-RS-MA-04, LRMA-MA-03	The revised forest plan does not incorporate goals for management. Throughout the plan, coordination with partners is documented as management approaches, including coordination with law enforcement.

1985 Forest Plan Standards and Guidelines

Standards and guidelines from the 1985 Land and Resource Management Plan for the Tonto National Forest (1985 plan), as amended, are listed below and are compared to revised forest plan direction. The following tables do not provide an exhaustive account of all plan direction but are

focused on plan content associated with the identified needs for change and specific topics where stakeholder concerns were voiced at some point during the plan revision process. It is also important to note that not every piece of plan direction in the 1985 was applied forest wide, as the 1985 plan was broken down into 47 management areas each with specific management. Most of the plan direction from the revised plan is applicable forestwide, unless it is captured within a specific management area.

The table format below incorporates abbreviations for plan content and resource areas. Plan component coding is outlined in the Forest Plan, Chapter 1. Introduction, Forest Plan Framework and Organization and can be used to help identify the plan component type and resource area the plan direction is associated with in the revised forest plan. Additionally, there may be other related plan direction captured within the forest plan that meets the intent of the 1985 plan components. The components listed in the “2021 Plan Direction or Other Plan Content” columns of the table capture the most directly related plan direction.

Recreation

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Implement pack-in, pack-out program. Encourage “no trace” camping ethic. Campfires must be contained in such a manner so as not to leave significant residues. Human waste must be carried out.	36	Retained but modified	Recreation, Special Uses	REC-G-07, SU-G-02	Modified to promote land use ethics, including leave no trace, for all recreation activities.
OHV use prohibited.	2, 36	Replaced	Motorized Recreation	REC-DIS-MO-S	Modified to be less prescriptive in site specific closures and allow for adaptive management responses to visitor use and needs. Site specific closures would be considered at the project level based on desired conditions outlined in the forest plan.
OHV use prohibited unless posted as open.	2, 36	Replaced	Motorized Recreation	REC-DIS-MO-S	Modified to be less prescriptive on site specific closures and allow for adaptive management responses to visitor use and needs. Site specific closures would be considered at the project level based on desired conditions outlined in the forest plan.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Based on scheduling, carry out development plan from site survey through design and contract preparation. Complete actual construction (including contract administration) of new developed sites, and rehabilitation of existing sites.	3	Removed	Developed Recreation, Facilities	FC-MA-02	Removed from the plan because it restated existing law, regulation, and/or policy. These items would be determined on the project level.
Objective is to achieve full service level of management and administration. Fluctuation in operation and maintenance budgets may require less than full service.	37	Replaced	Recreation, Facilities	FC-DC-08	Replaced by plan direction that is less prescriptive and allows for adaptive management responses to visitor use and needs.
Prevent wildland fire from destroying developed recreation improvements, including a five-chain wide buffer surrounding them.	44	Replaced	Fire and Fuels, Developed Recreation, Facilities	FF-DC-02, REC-DEV-DC-05, FC-G-06	Replaced by plan direction that is less prescriptive and allows for adaptive management responses for user safety and vegetation types.
Develop and document feasibility study/EA's for proposed recreation and/or VIS sites as scheduled for each decade (Appendix K, Table 4). Based on this schedule, carry out development plan from site surveys through design and contract preparation. Complete actual construction (including contract administration) of proposed new developed sites and rehabilitation of existing sites.	3	Removed	Developed Recreation, Facilities	FC-MA-02	Removed from the plan because it restated existing law, regulation, and/or policy and is not needed for program management.
Manage dispersed recreation at low intensity, reduced service level.	38	Retained but modified	Dispersed Recreation	REC-DIS-DC-01, REC-DIS-NMO-DC-02	Modified to incorporate sustainable recreation principles where dispersed recreation adapts to visitor use and need.
Entire trail system to provide for a variety of user experience levels, resource protection, and public safety. Includes trail condition surveys and maintenance plans.	None	Retained but modified	Dispersed Recreation	REC-DIS-DC-01, REC-DIS-DC-05	Modified to remove language around development of surveys and additional plans. The modified plan direction allows for adaptive management responses.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Construction or reconstruction of trails in either former or new locations to prevent resource degradation and/or promote public safety.	36	Retained but modified	Dispersed Recreation	REC-DIS-DC-01, REC-DIS-G-02	Modified to incorporate sustainable recreation principles where dispersed recreation adapts to visitor use and need while integrating natural resource management.
Trail system maintenance level percentages by management area.	2	Removed	Dispersed Recreation	N/A	Removed to reduce the complexity of plan components related to management areas that fragment the landscape by their arrangement and management differences.
Identify alternative routes for new trails near urban centers and/or main travel routes. Gather information for cost estimating and design criteria. Includes trail location and selection, survey, design, and field review.	3, 38	Replaced	Recreation	REC-MA-03	Specific approaches to accomplishing desired conditions have been modified and incorporated in the plan as management approaches.
Visitor information and interpretive service programs will be at a level that encourages basic user safety. This would entail primarily issuance of Forest and recreation maps only and office receptionist service to the public.	5	Replaced	Recreation	REC-MA-06	Specific approaches to accomplishing desired conditions, including public education, have been modified and incorporated in the plan as management approaches.
Continue cooperative planning with other Forests and Federal, State, County, and local governments to coordinate Forest recreation management.	7, 8	Replaced	Partnerships and Volunteers, Recreation	PV-MA-02	Specific approaches to accomplishing desired conditions, including collaboration with federal, state, county and local government, have been modified and incorporated in the plan as management approaches.
Continue to cooperate with other agencies and governments to coordinate recreation management.	7, 8	Replaced	Partnerships and Volunteers, Recreation	PV-MA-02	Specific approaches to accomplishing desired conditions, including collaboration with federal, state, county and local government, have been modified and incorporated in the plan as management approaches.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Establish a Forestwide Total Service Day allocation for hunting as shown in table below. Issue priority and temporary permits from this allocation. Require permittees to submit an annual operating plan identifying the desired service days and Management Areas for hunting services.	3	Removed	Wildlife-Related Recreation	N/A	Removed from the plan because it is duplicative of law, regulation, and policy for hunting within the State of Arizona. Additionally, this language is overly prescriptive and does not allow for adaptive management.
Recreation Opportunity Spectrum (ROS) classes will be managed according to the existing inventory (See Appendix E).	None	Retained	Recreation	REC-G-10	Management of ROS classes has been incorporated into the forest plan as a guideline that management activities should be consistent with or move the area toward the appropriate Recreation Opportunity Setting.
Coordinate recreation management and administration program with the Apache-Sitgreaves and Coconino National Forests to ensure that overall recreation management goals for the Mogollon Rim area are being met.	9	Replaced	Recreation	REC-MA-10	Specific approaches to accomplishing desired conditions, including collaboration with neighboring forests, have been modified and incorporated in the plan as management approaches.

Special Uses

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Plan direction by management area for specific outfitter/guide service allocation, including types of service, class of permit, number of permits, and maximum service days per permit. Use established outfitter/guide allocations contained in the Standards and Guidelines for each Management Area as the basis for all decisions/recommendations.	2	Removed	Special Uses	N/A	Removed to reduce the complexity of plan components related to management areas that fragment the landscape by their arrangement and management differences.
Authorizations for special uses may be issued to qualified applicants when the proposed use (a) fulfills a demonstrated special need without unduly infringing on the use by the general public, (b) is in accordance with an approved implementation plan (where called for) and will not cause adverse impacts on the National Forest and its resources which cannot be fully mitigated, (c) does not serve a function that can be provided by private enterprise off National Forest lands, and (d) is complementary to Forest Service and Management Area objectives, programs, and purposes.	49	Replaced	Special Uses	SU-DC-02	Replaced with plan direction that allows for adaptive management responses to applications for special uses, balancing user needs and natural resources.
Continue administration of existing recreation special use permits to assure compliance, and to assure that a quality public service is provided consistent with Forest Service and Management Area objectives.	49	Retained but modified	Special Uses	SU-MA-03	Specific approaches to accomplishing desired conditions have been modified and incorporated in the plan as management approaches.
Respond to applications for new permits, amendments, documents and leases within 30 days of receipt.	49	Replaced	Special Uses	SU-S-05	Modified to remove specificity and allow for more adaptive management utilizing criteria for new commercial public services.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Where supply still exceeds demand, large commercial use permits will be considered on a case-by-case basis.	49	Retained but modified	Special Uses	SU-DC-01, SU-S-05	Modifies to allow for more adaptive management, balancing user needs and natural resources.
The existing Recreation Residence Term Special Use Permits (FS-2700-18 [6/88]) for established lots within the Camp Creek Recreation Residence Area will continue in effect until December 2009, unless revoked, terminated, or relinquished. New permits may be re-issued for this area after the above expiration date, following completion of a determination of consistency as provided for a Clause IX of the above referenced Term Special Use Permits.	None	Removed	Special Uses	N/A	Removed from the plan because it is repetitive of existing law, regulation, and/or policy.

Energy Production and Delivery

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Authorize new utility corridors only after full compliance with the NEPA process.	None	Removed	Energy Production and Delivery	N/A	Removed from the plan because it is repetitive of existing law, regulation, and/or policy.
Efforts will be made to consolidate new electronic site proposals on currently approved sites. Recommendations to the Regional Forester on new electronic site classifications will be made after a comprehensive environmental analysis indicates such occupancy will not compromise other National Forest management objectives.	41	Replaced	Energy Production and Delivery	EG-DC-02, EG-G-01, EG-G-05	Replaced with a guideline that new transmission lines occur within existing disturbed areas.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Requests for utility corridors will be coordinated to locate needed facilities within existing corridors where feasible.	41	Replaced	Energy Production and Delivery	EG-MA-01	Specific approaches to accomplishing desired conditions have been modified and incorporated in the plan as management approaches.
Respond to oil and gas lease applications including EA if needed.	None	Removed	Energy Production and Delivery	N/A	Removed from the plan because it is repetitive of existing law, regulation, and/or policy.
Provide that right-of-ways grants are confined to designated corridors to the extent practicable.	41	Retained but modified	Energy Production and Delivery	EG-DC-03	Modified as a desired condition that allows for more adaptive manage balancing user needs and natural resources.
Locate and post all land line needed for outputs two-to-three years in advance of resource output production years.	None	Removed	Energy Production and Delivery	N/A	Removed from the plan because it is repetitive of existing law, regulation, and/or policy.
Update land line location atlas as additional corners are found, and boundary is posted.	3	Removed	Energy Production and Delivery	N/A	Removed from the plan because it requires developing additional planning documents, many of which require updates on a regular cycle and are more applicable to program level law, regulation, and policy.

Rangelands, Forage, and Grazing

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Allowable Use Guide (Percent) By Range Condition and Management Strategy is shown in a table on this page. Site-specific data may show that the numbers in this table are substantially high or low. These numbers are purposefully conservative to assure protection in the event that site-specific data is not available. Range Condition as evaluated and ranked by the Forest Service is a subjective expression of the status or health of the vegetation and soil relative to their combined potential to produce a sound and stable biotic community. Soundness and stability are evaluated relative to a standard that encompasses the composition, density, and vigor of the vegetation and physical characteristics of the soil.	3	Removed	Rangelands, Forage, and Grazing	N/A	<p>Redundant with law, regulation, policy. Allowable use and range condition evaluation are decisions made during allotment level planning and associated range NEPA.</p> <p>The 1985 plan direction did not just reference handbook direction but repeated it in detail. This handbook direction has since been rescinded because it was overly prescriptive and did not adequately support adaptive management.</p>
Assure permittee maintenance of existing structural improvements on an annual basis to assure full life of project.	34	Replaced	Rangelands, Forage, and Grazing	GRZ-G-01	Modified to be less specific to allow for adaptive management based on condition of improvements and extend the useful life.
Coordinate with range to achieve utilization in the riparian areas that will not exceed 20% of the current annual growth by volume of woody species.	34	Removed	Rangelands, Forage, and Grazing, Ecological Response Units	N/A	Decisions around utilization to be made during allotment level planning, based on rangeland conditions. The ecological desired condition informs the decisions made on the range NEPA level.
Emphasize a program of range administration which will bring the range resource under proper management and improve range forage conditions.	34	Replaced	Rangelands, Forage, and Grazing, Ecological Response Units	GRZ-DC-03, Specific ERU desired conditions	Intent is preserved. Satisfactory management occurs where the status of desired conditions for natural resources or other resource uses is not declining.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Investigate, control, minimize, and eliminate unauthorized livestock use as a priority range management job.	None	Retained but modified	Rangelands, Forage, and Grazing	GRZ-G-08	Intent is preserved. Modified to be less specific and allow for adaptive management decisions for unauthorized livestock.
Forage use by grazing ungulates will be maintained at or above a condition which assures recovery and continued existence of threatened and endangered species.	34	Replaced	Rangelands, Forage, and Grazing, Wildlife, Fish, and Rare Plants	WFP-G-04, WFP-G-05	Redundant with law, regulation, policy and formal agreements in place with U.S. Fish and Wildlife Service. Replace by plan direction to incorporate design elements for the protection or avoidance of at-risk species within allotment management plans.
Identify key ungulate forage monitoring areas. These key areas will normally be 1/4 to 1 mile from water, located on productive soils on level to intermediate slopes, and be readily accessible for grazing. Size of the key forage monitoring areas could be 20 to 500 acres. In some situations, such as high mountain meadows with perennial streams, key areas may be closer than 1/4 mile from water and less than 20 acres. Within key forage monitoring areas, select appropriate key species to monitor average allowable use.	35	Replaced	Rangelands, Forage, and Grazing	GRZ-DC-04, GRZ-MA-02, GRZ-MA-04	The 1985 plan direction did not just reference handbook direction but repeated it in detail. This handbook direction has since been rescinded because it was overly prescriptive and did not adequately support adaptive management. No comparable handbook direction has been issued. The intent if the 1985 direction, which was to provide for sustained yield and other multiple uses, is preserved in the revised plan.
Specific allotment goals and objectives, utilization guidelines, grazing systems or methods, structural and non-structural improvement needs, and specific monitoring methods will be documented in allotment management plans for each allotment.	35	Replaced	Rangelands, Forage, and Grazing	GRZ-S-01, GRZ-G-03, GRZ-MA-03,	Redundant with law, regulation, policy for grazing and rangeland management. Replaced by plan direction if necessary to highlight specific items to be incorporated in allotment level planning. Additionally, specific approaches to accomplishing desired conditions have been modified and incorporated in the plan as management approaches.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Levels of estimated permitted use and grazing capacities are based on current estimated land capabilities to produce forage for domestic livestock on a sustained yield basis.	35	Replaced	Rangelands, Forage, and Grazing, Ecological Response Units	GRZ-DC-03, GRZ-G-09, Specific ERU desired conditions	Intent is preserved. Satisfactory management occurs where the status of desired conditions for natural resources or other resource uses is not declining. Plan direction has been incorporated encouraging use of a stock and monitor approach to evaluate stocking rates in grazing decisions.
Scheduling of livestock adjustments must recognize the economic viability of each ranching operation. The time frame of actual accomplishment depends considerably on permittee willingness to implement proper management systems and level of range management funding for both operation and maintenance and range improvements.	35	Retained but modified	Rangelands, Forage, and Grazing	GRZ-DC-01, GRZ-MA-03	Intent is preserved in that benefits are commensurate with costs and in conformance with applicable laws and regulations in allotment management plans.
Continue inspections of the existing range study plots, and revegetation and brush treatment projects.	6	Replaced	Rangelands, Forage, and Grazing, Plan Monitoring	GRZ-MA-04, GRZ-MA-06, GRZ-MA-07, GRZ-MA-08, Grazing Monitoring Questions M-19 and M20	Specific approaches to accomplishing desired conditions have been modified and incorporated in the plan as management approaches. Additionally, this is supported by plan-level monitoring questions. The idea is that allotment specific monitoring will also feed information into plan-level monitoring and evaluation.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Plan direction within management areas to manage suitable Rangelands at Level A, Level B, Level C, or Level D.	3	Removed	Rangelands, Forage, and Grazing	GRZ-DC-02, GRZ-DC-03	Grazing intensity levels, and grazing suitability, were established based on range conditions at the time the 1985 plan was developed using handbook direction that has been removed in favor of adaptive management. Allowable use and range condition evaluation are decisions made during allotment level planning and associated range NEPA.
Install wildlife escape ramps in all livestock water as funding permits.	27	Retained but modified	Rangelands, Forage, and Grazing; Wildlife, Fish, and Rare Plants	GRZ-O-01, WFP-G-06	Specific objectives for the installation of escape ramps were incorporated.

Cultural and Historic Resources

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Conduct inventory, evaluation, nomination, management protection, scientific study, public interpretation, and enhancement of cultural resources in accordance with the management prescriptions, and objectives and priorities identified in Appendix H. Coordinate planning for these activities with the State Cultural Resource Plan, and planning activities of the State Historic Preservation Office, and with other State and Federal agencies.	None	Removed	Cultural and Historic Resource	N/A	This is redundant with law, regulation and Forest Service policy direction.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Each Forest contract, permit, or lease that has the potential to affect cultural resources will contain a clause specifying site protection responsibilities and liability for damage. If damage to a cultural resource is found, the procedures specified in the PA and in the Forest Service Manual and Handbook, will be followed.	None	Removed	Cultural and Historic Resource	N/A	This is redundant with law, regulation and Forest Service policy direction.
The Forest Service will comply with the National Historic Preservation Act (as amended) and the PA.	None	Removed	Cultural and Historic Resource	N/A	This is redundant with law, regulation and Forest Service policy direction.
The standards specified in the PA will be followed. Where the settlement document does not specify standards, those in the Forest Service Manual and Handbook will apply.	None	Removed	Cultural and Historic Resource	N/A	This is redundant with law, regulation and Forest Service policy direction.
During the conduct of undertakings, the preferred management of sites listed in, nominated to, eligible for, or potentially eligible for the National Register is avoidance and protection. Exceptions may occur in specific cases where consultation with the SHPO indicates that the best use of the resource is data recovery and interpretation.	45, 46	Retained but modified	Cultural and Historic Resource	CUH-G-01	This direction was modified to remove specificity and provide for adaptive management. The specific actions are better determined in consultation with the State Historic Preservation Officer on a project and site-specific basis.
Where resource management conflicts occur, the desirability of in-place preservation of cultural resources will be weighed against the values of the proposed land use.	48	Replaced	Cultural and Historic Resource	CUH-G-04	Replaced with plan direction to incorporate design elements that minimize adverse impacts to cultural resources.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Measures for the protection of cultural resources from vandalism and natural destruction will include regular inspection and, where necessary, electronic monitoring. Sites listed in or nominated to the National Register will be inspected biennially. Sites determined eligible for the National Register will be inspected periodically, unless previous data recovery has fully documented the characteristics that qualify the site for the Register. All other sites, except those formally determined ineligible for the National Register, will be inspected on a need or opportunity basis. Sites susceptible to rapid deterioration and/or human disturbance will be inspected most frequently.	None	Removed	Cultural and Historic Resources	N/A	This direction is overly prescriptive and does not adequately provide for adaptive management. This is better determined in consultation with the State Historic Preservation Officer and Advisory Council on a project and site-specific basis.
The Forest Service will nominate at least two individual sites per year for every full-time professional employed in the Forest's cultural resources management program.	None	Removed	Cultural and Historic Resource	N/A	This direction is overly prescriptive and does not adequately provide for adaptive management. This is better addressed on a site and circumstances-specific basis.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
The Forest will comply with the National Historic Preservation Act (NHPA) and with Executive Order (EO) 11593 and will undertake active management that recognizes heritage (cultural) resources as equal in importance to other multiple uses. Heritage resources will be managed in coordination with the State Historic Preservation Officer (SHPO) in accordance with the Programmatic Agreement regarding cultural property protection and responsibilities among New Mexico Historic Preservation Division, Arizona State Historic Preservation Office, Texas State Historic Preservation Office, Oklahoma State Historic Preservation Office, the Advisory Council on Historic Preservation and USDA Forest Service, Southwestern Region, signed in 1990 (hereafter referred to as the Programmatic Agreement or PA).	None	Removed	Cultural and Historic Resources	N/A	This is redundant with law, regulation and Forest Service policy direction.
Where preservation in place is important under these conditions, the Forest Service will give serious consideration to such options as project redesign, relocation, or cancellation. The procedures specified in the PA, 36 CFR 800, the Native American Grave Protection and Repatriation Act of 1990 (NAGPRA), and National Register Bulletin 38 will be followed in reaching a management decision.	None	Removed	Cultural and Historic Resources	N/A	This is redundant with law, regulation and Forest Service policy direction.

Forestry and Forest Products

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Issue small scale jojoba picking permits and permits for other miscellaneous products.	32	Replaced	Forestry and Forest Products	FP-DC-03	This direction was modified to remove specificity and ensure sustainable supply of multiple forest products are available for businesses and individuals by incorporating it into a desired condition.
Funds collected from fuelwood sales will be used in the following priorities: (1) stabilize road, (2) reseed cut block with approved seeding mixture, (3) plant wildlife browse species as needed.	None	Removed	Forestry and Forest Products	N/A	This direction is overly prescriptive and does not adequately provide for adaptive management. This is better addressed on a site and circumstances-specific basis.
Plan direction for timber suitability by management area. Timber suitability includes mature sawtimber, immature sawtimber, poles, and seedlings/saplings.	2	Replaced	Forestry and Forest Products	FP-O-01, FP-S-02	Timber suitability was retained as an objective, but the direction applies at the forest level where land is suitable for timber production, not at the management area level as it did in the 1985 forest plan.
Inventory timber and fuelwood on the area every 10 years.	6	Replaced	Forestry and Forest Products	Forested Ecosystems Monitoring Question M-11	The intent of this plan direction is supported by plan-level monitoring questions. The idea is that timber treatment monitoring will also feed information into plan-level monitoring and evaluation.
Administer commercial and personal use of fuelwood from slash, dead and down wood, and noncommercial species.	32	Retained but modified	Forestry and Forest Products	FP-DC-01, FP-G-02	Although much of this direction is redundant with law, regulation and policy, the National Forest Management Act and therefore the final directives for the 2012 planning rule require the plan to reiterate it. Local stakeholder concerns and dependence on firewood to heat their homes also reasons to add detail.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Sanitation and salvage wood sales will be administered as required to control disease and insects and to protect public health and safety.	33	Replaced	Forestry and Forest Products, Invasive Species	FP-MA-01, INS-DC-02	Specific approaches to accomplishing desired conditions have been modified and incorporated in the plan as management approaches.
Activity fuels and natural fuels will be reduced to manageable levels. Fuels management may include fuelwood harvest, chipping, piling, and/or prescribed broadcast burning.	4	Retained but modified	Forestry and Forest Products, Fire and Fuels	FP-G-05, FF-S-03	Modified in that fuels management activities are designed to move an area towards resource desired conditions. The specific tactic to accomplishing this would be decided at the project level.
Plan direction outlining the silvicultural prescription per management area.	2	Replaced	Forestry and Forest Products	FP-S-01	The 1985 plan sought to distribute the sustained yield limit across management areas. While redundant with law, regulation and policy, the National Forest Management Act requires provisions in the plan that limit harvest levels to those that are sustainable. The revised plan does this while allowing the flexibility to harvest from wherever such actions are legal and contributes the most socioeconomic and ecological benefit.
Prepare timber stand analysis and sale design concepts covering all of the suitable acres which contain sufficient volume. Complete within six years. Provide the minimum standard specified roads needed to manage the timber resource.	3	Removed	Forestry and Forest Products	N/A	Does not adequately provide for adaptive management responses to ecological, socioeconomic, political, or technological changes. This may need to be done on a more or less frequent basis than specified in the 1985 plan. Direction for these reviews is contained in Forest Service policy direction.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
An Interdisciplinary (I.D.) Team will evaluate the need for buffer strips adjacent to water bodies within proposed commercial sawtimber sale areas.	None	Removed	Forestry and Forest Products	N/A	This direction is overly prescriptive and does not adequately provide for adaptive management. This is better addressed on a site and circumstances-specific basis for commercial saw timber projects in meeting resource desired conditions.
Raise lead end of logs when skidding to minimize gouging. Restrict skidding during wet weather if necessary to prevent watershed damage.	None	Removed	Forestry and Forest Products	N/A	This direction is overly prescriptive and does not adequately provide for adaptive management. This is better addressed on a site and circumstances-specific basis.
Rehabilitate skid trails and landings when logging is completed (provide drainage, repair ruts and gullies, and seed if necessary).	33	Retained but modified	Forestry and Forest Products, Roads	RD-S-04	Modified to ensure temporary roads, including skid trails, are constructed, decommissioned, and rehabilitated as part of the same project. The tactics for doing so would be addressed on a project level.
On forested lands identified as suitable for commercial timber production, manage the timber resource to provide the full potential yield of quality timber on a sustained yield basis.	33	Retained but modified	Forestry and Forest Products	FP-DC-08	Although this is consistent with the agency's multiple use-sustained yield mandate, and is redundant with law, regulation and policy, the National Forest Management Act and therefore the final directives for the 2012 planning rule require the plan to reiterate it.
Design of timber management activities will integrate considerations for water quality, soils, wildlife habitat, recreation opportunities, visual, and other values.	33	Retained but modified	Forestry and Forest Products	FP-S-01	Although this direction is redundant with law, regulation and policy, the National Forest Management Act and therefore the final directives for the 2012 planning rule require this to be included as a standard or guideline. Specific wording changed but intent preserved.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Develop and implement a fuelwood management program for the Forest.	3	Removed	Forestry and Forest Products	N/A	Intent and flexibility to assess the need for a fuelwood management plan is preserved. Site specific fuelwood is handled through special use permit process.

Scenery

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Manage for Visual Quality Objectives (VQO's) ranging from Preservation to Maximum Modification as defined for each prescription and delineated in the Forest Visual Resource Inventory. Apply design guidelines found in USDA Handbooks and/or National Forest Landscape Management Series.	40	Replaced	Scenery	SC-G-01	This direction refers to the Visual Management System which is being replaced per the 2012 planning rule and final directives with the Scenery Management System. Scenic Integrity Objectives replace Visual Quality Objectives.
All EA's will analyze the potential impact the proposed action may have on the visual resources. Landscape architecture input is required on all projects affecting visual resource.	None	Removed	Scenery	N/A	This direction is redundant with law, regulation and policy. Scenic values will be considered at the project level.
Carry out actual rehabilitation to restore facilities, lands, and/or resources to meet VQO's.	40	Retained but modified	Scenery	SC-MA-02	This direction refers to the Visual Management System which is being replaced per the 2012 planning rule and final directives with the Scenery Management System. Scenic Integrity Objectives replace Visual Quality Objectives.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Coordinate visual quality objectives (VQO) on lands adjacent to other Forests.	40	Retained but modified	Scenery	SC-MA-03, SC-MA-04	Specific approaches to accomplishing desired conditions, including collaboration with federal, state, county and local government, have been modified and incorporated in the plan as management approaches.
Inventory existing visual condition of landscape.	3	Removed	Scenery	N/A	Intent and flexibility to assess existing visual condition of the landscape at the project-level is preserved.
Maintain and enhance visual resource values by emphasizing recreation resource management which will increase opportunities for a variety of developed and dispersed experiences. Provide those developed sites needed to meet most of the public demand and to support dispersed visitor use.	40	Retained but modified	Scenery	SC-DC-01, SC-DC-03, SC-DC-04	Scenery is managed to provide high quality scenic resources in areas valued by the public, contributing to their sense of place.
Maintain high quality visual conditions. The form, line, texture and color of characteristic landscapes will be clearly distinguishable when viewed as "middle ground" (per the VQO system).	40	Replaced	Scenery	SC-DC-01 through 05, SC-G-01, SC-G-03	This direction refers to the Visual Management System which is being replaced per the 2012 planning rule and final directives with the Scenery Management System, which includes specific management to achieve scenic integrity objectives.

Mining and Minerals

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Closely monitor all mineral activity and ensure that notices of intent and plans of operation are filed. Determine validity on all claims on which surface disturbing activities are planned. If validity is sustained on claims filed prior to January 1, 1984, or August 28, 1984, as applicable, complete the NEPA process on the plan, ensuring appropriate mitigation and reclamation measures are employed. Closely monitor activities of the approved plan of operations, utilizing wilderness rangers and technical assistance (as required).	None	Retained but modified	Mining and Minerals	MMAM-DC-01, MMAM-S-01	Although this direction is redundant with law, regulation and policy, the Tonto National Forest retained information related to requirement of plans of operation in order to minimize adverse environmental impacts.
Process withdrawals for locatable and leasable minerals by 1988. Issue no surface occupancy stipulations for leasing activities.	None	Removed	Mining and Minerals	N/A	This plan direction is outdated and overly prescriptive. Does not adequately provide for adaptive management.
Obtain mineral withdrawals for locatable minerals and appropriate surface protection stipulations for leasable minerals on all proposed developed recreation sites and administrative sites two years ahead of construction.	None	Removed	Mining and Minerals	N/A	This direction is overly prescriptive and does not adequately provide for adaptive management.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Prepare and administer small sales of mineral materials from previously designated areas.	42	Replaced	Mining and Minerals, Recommended Wilderness, Designated Wild and Scenic Rivers, Eligible Wild and Scenic Rivers, Research Natural Areas and Botanical Areas, National Trails	MMAM-G-01, RWMA-S-04, DWSRMA-S-02, EWSRMA-S-03, RNABAMA-S-01, NTMA-S-04	This direction is overly prescriptive and does not adequately provide for adaptive management. It has been replaced with plan direction prohibiting this activity in management areas where the use would be inconsistent with the purpose for management.
Respond to requests for large quantities of common variety mineral materials through the NEPA process, advertise sale (if appropriate), and permit administration.	42	Replaced	Mining and Minerals	MMAM-DC-03, MMAM-G-03	This direction is overly prescriptive and does not adequately provide for adaptive management. Has been replaced in revised plan with direction to consider mineral material sales where consistent with other resource desired conditions
Support environmentally sound energy and minerals development.	None	Retained but modified	Mining and Minerals	MMAM-DC-01, MMAM-S-02, MMAM-G-04	Retained in the form of a desired condition, with standards and guidelines focused on

Roads

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Roads needed for private land access, special uses, or mineral activities will be built and maintained by the permittee to minimum standards for the intended use on permanent locations, and closed, drained, and revegetated after use.	7	Retained but modified	Roads	RD-S-02, RD-S-04	The intent of this plan direction was retained as two separate standards in the revised plan for the maintenance of commercial roads where the construction, decommissioning, and rehabilitation occur as part of the same project.
Most roads and trails within the developed area cannot be relocated away from stream channels due to topography and development locations. If an opportunity develops to relocate or remove a road or trail, it will be done to current standards.	44	Replaced	Roads	RD-G-05	Replaced with language providing more guidance for new or reconstructions of roads being located outside of the riparian management zone or designed to minimize effects.
Road reconstruction to accommodate high concentration of vehicles may be necessary, as determined by Forest road management plans. Emphasis will be placed on public safety and protection of adjacent resource values.	44	Replaced	Roads	RD-DC-01	This would be determined through the ongoing travel management process, which would comply with the desired conditions within the Tonto National Forest Land Management Plan.
Construction should take place only when soil conditions are not too wet.	44	Removed	Roads	N/A	This plan direction was overly specific and would not allow for adaptive management. Parameters for construction would be determined on a project level.
Maintain roads to provide for public safety, community haul, and resource protection in accordance with FSM 7700 and 7730.	None	Removed	Roads	N/A	This item is duplicative of law, regulation, and policy therefore was not necessary to carry forward in the revised plan.
Minimize excavation with a balanced earthwork design; the area of cut slopes should be minimized in order to reduce erosion and slope instability	44	Retained buy modified	Roads	RG-G-11	Modified to reduce specificity and allow for adaptive management where construction avoids areas with high mass wasting potential

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Negotiate with local governments to finance their share of the road maintenance activity on roads not needed for Forest administration.	7	Replaced	Roads	RD-MA-01, RD-MA-03	Components related to partnerships and collaboration are captured as management approaches in the revised forest plan.
New roads will be designed and constructed by the Forest Service only as a determined necessary by transportation planning.	N/A	Removed	Roads	N/A	This item is duplicative of law, regulation, and policy therefore was not necessary to carry forward in the revised plan.
Provide a serviceable road and trail transportation system to meet public access, land management, and resource protection needs.	44	Retained but modified	Roads	RD-DC-01	This component was modified as a desired condition in the revised forest plan.
Provide necessary water drainage structures as road construction proceeds.	44	Retained but modified	Roads	RD-DC-06	This component was modified as a desired condition in the revised forest plan.
Reconstruct arterial roads as needed to provide for public safety.	44	Replaced	Roads	RD-DC-01	The intent of this plan component is captured within desired conditions for the Tonto's transportation system.
Reduce road dimensions to that which will adequately fulfill anticipated needs and avoid large road cuts and fills.	4	Removed	Roads	N/A	Road dimensions will be determined at a site-specific level, based on site specific conditions.
Road runoff should not be discharged directly into streams but should be diverted over stable vegetated areas or riprap.	44	Replaced	Roads	RD-DC-06	The intent of this plan component is captured within desired conditions for the Tonto's transportation system.
Roads should be located on well-drained and stable ground, avoiding seeps and other unstable areas.	44	Replaced	Roads	RD-G-05	Replaced with language providing more guidance for new or reconstructed roads being located outside of important water resources, including seeps, or to be designed to minimize effects.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Where channel crossings are necessary, select an area where the channel is straight and cross the channel at right angles.	44	Retained but modified	Roads	RD-G-06, RD-G-07	This direction is overly prescriptive and has been modified to allow for adaptive management where stream crossings are necessary.
Where possible, locate roads on natural benches, ridges, flat slopes near ridges or valley bottoms, and away from stream channels.	1, 44	Replaced	Roads, Watersheds and Water Resources	RD-S-04	This direction is overly prescriptive and does not adequately provide for adaptive management. It has been replaced by plan direction that road construction and maintenance be consistent with Best Management Practices ¹ .
Do not exceed more than seven (7) miles of arterial and collector roads in each 5,000-acre management unit. Additional local or feeder roads necessary for timber harvest will be closed, waterbarred, and blocked with logging slash when no longer required for post-sale activities.	2	Removed	Roads	N/A	This direction is overly prescriptive and does not adequately provide for adaptive management. Additionally, specific decisions related to the location of arterial and collector roads will be made through ongoing travel management planning or specific project planning where temporary roads are needed.

Facilities

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Construct or reconstruct capital improvements to support fire, administrative, and other multifunctional activities in compliance with FSM 7310 and energy conservation requirements.	None	Removed	Facilities	N/A	This item is duplicative of law, regulation, and policy therefore was not necessary to carry forward in the revised plan.

¹ National Best Management Practices for Water Quality Management on National Forest System Lands, Volume 1: National Core BMP Technical Guide (2012), defines Best Management Practices (BMPs) for water quality as methods, measures, or practices selected by an agency to meet its nonpoint source control needs.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Maintain or upgrade (minor betterment) capital improvements to support fire, administrative, and other multifunctional activities to abate serious safety hazards. Additional funding is needed to allow for maintenance to prevent further deterioration and for abatement of health hazards.	37, 44	Replaced	Facilities	FC-DC-01	The intent of this direction is captured within desired conditions of the revised forest plan that forest facilities provide for safety of forest users.
Bridges and culverts should be installed in a way that prevents stream sedimentation and channel changes and provides for fish migration.	44	Retained but modified	Facilities, Roads	RD-G-06, RD-G-07, FC-G-02	This plan direction is captured through multiple guidelines within the revised plan.
Construction should take place only when soil conditions are not too wet.	None	Removed	Facilities	N/A	This plan direction was overly specific and would not allow for adaptive management. Parameters for construction would be determined on a project level.
Remove unneeded nonconforming facilities on a preplanned schedule.	44	Replaced	Facilities	FC-G-05, FC-MA-01, FC-MA-02	Partially incorporated as guideline related to excess facilities. Additionally, tactics to achieve desired conditions and conduct program level management are captured as management approaches in the revised plan.
Provide administrative facilities to meet resource and activity needs and which meet pollution abatement standards where applicable.	37, 44	Retained but modified	Facilities	FC-DC-02, FC-DC-07	Captured in the plan as desired conditions that
When developing water for National Forest purposes, preference should be given to those types of developments that waste the least amount of water.	None	Removed	Facilities; Riparian Areas, Seeps, Spring, Wetlands, and Riparian Management Zones; Watersheds and Water Resources	N/A	This direction is overly prescriptive and does not adequately provide for adaptive management. Water development activities will conform to law, regulation, and policy, as well as best available scientific information.

Lands and Access

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Post all boundaries.	52	Retained	Lands and Access	LA-DC-04	While the language changed to add more information, this plan direction was retained that boundaries are marked.
Respond to land exchange proposals as presented. See to acquire all private holdings within designated wilderness and other lands where resource management objectives can be met by public ownership.	50	Replaced	Lands and Access	LA-DC-01, LA-DC-02	This direction is overly prescriptive and does not adequately provide for adaptive management. Has been replaced with desired conditions that land ownership adjustments and patterns improve management activities and allow the forest service to achieve land management objectives and desired conditions.
Use land ownership adjustment to accomplish resource management objectives	50	Retained but modified	Lands and Access	LA-DC-01, LA-G-01	The intent of this guideline is contained within desired conditions that land ownership adjustments improve management activities and allow the forest service to achieve land management objectives and desired conditions. Additionally, language is captured within guidelines on the acquisition of non-federal lands.
Limited motorized access to hydrologic, meteorologic and/or telecommunication facilities by appropriate agencies may also be authorized when non-motorized access means are not reasonably available or when time is of the essence, and where such access is essential to flood warning, flood control and water reservoir operation purposes, subject to conditions established by the Forest Service.	51	Replaced	Lands and Access	LA-DC-06	This direction is overly prescriptive and does not adequately provide for adaptive management. That said, the intent of the plan direction is included in that access to Forest System lands is available where needed. The tactic for providing access would be determined on the project level.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Acquire rights-of-way as needed to meet resource outputs or resolve legal status deficiencies.	51	Replaced	Lands and Access	LA-G-01	The intent of this direction was included in a plan component surrounding acquisition of non-federal lands where conveyance may improve management efficiency.
Continue to take action on occupancy trespass.	52	Retained but modified	Lands and Access	LA-DC-05, LA-G-02	The intent of this direction was retained in the plan as both a desired condition to address trespass and a guideline to actively respond to these activities.
Maintain land status records by updating annually.	3	Removed	Lands and Access	N/A	The timing and frequency of accomplishing this task is determined on a program basis, considering time and funding. It is not necessary to retain within the forest plan.
Prohibit encumbrances on lands identified for exchange, which will reduce future disposal opportunities.	None	Removed	Lands and Access	N/A	Land exchanges are dealt with site specifically, so this language is not needed in the forest plan.
Review land classification and determine the need for land adjustment to meet management objectives of providing for community expansion and logical boundary adjustments.	None	Removed	Lands and Access	N/A	This direction is overly prescriptive and does not allow for adaptive management. These types of activities are accomplished at a program management level in determining specific projects that then accomplish desired conditions.

Vegetation

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Maintain a minimum of 100 snags per 100 acres. A preferred 12' dbh and 20 feet tall over at least 50% of the pinyon-juniper type.	17	Retained but modified	Ecological Response Units - Pinyon-Juniper Woodland; Pinyon-Juniper Evergreen Shrub; Pinyon-Juniper Grass and Juniper Grass	ERU-PJO-DC-01, ERU-PJC-DC-01, ERU-PJJUG-DC-01	Plan direction outlining the desired seral states, canopy cover, and structural states is included in desired conditions for the ecological response units but may be modified based on best available scientific information.
Planting may be necessary in some areas to restore a seed source.	15	Replaced	Ecological Response Units	ERU-G-02	While the need for seeding is acknowledged in the forest plan, guidelines focus on the parameters of seed types when planning is necessary.
Achieve a savannah condition in the pinyon-juniper type by leaving a minimum of 40 mature trees per 40 acre cut block.	17	Replaced	Ecological Response Units - Pinyon-Juniper Evergreen Shrub	ERU-PJC-DC-01	This direction is overly prescriptive and does not allow for adaptive management. Was replaced by plan direction outlining the desired seral states, canopy cover, and structural states of the ecological response unit.
Maintenance performed on revegetation acres as determined in allotment management plans to retain optimum forage production. Methods will be appropriate to vegetation and terrain of treatment area and could include prescribed fire, chemical, and/or mechanical means.	14	Replaced	Rangelands, Forage, and Grazing	ERU-O-01, ERU-O-02, ERU-O-03	Vegetation treatments are focused on improving the ecological conditions on the landscape, which includes forage production for grazing. Treatment objectives are captured in the forest plan, but locations and methods are determined on a project level.
Manage the chaparral type on a 30-year prescribed fire rotation on those sites managed intensively for forage production and water yield.	16	Replaced	Ecological Response Units – Interior Chaparral	ERU-IC-DC-02	Updated based on best available scientific information for treatment of vegetation conditions at the landscape scale.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Manage noncommercial species within the pine type to maintain their representation in the vegetative diversity.	17	Replaced	Ecological Response Units	ERU-PPE-PG-DC-01, ERU-PPF-DC-04, ERU-MCD-02, ERU-MCW-01	Was replaced by plan direction outlining the desired seral states, canopy cover, and structural states of the ecological response unit. The revised forest plan does not focus management on the commercial use of the land, but rather management for functioning ecosystems that support commercial use.
Manage the alligator juniper component as follows: > 30" dbh or more at 1 per 5 acres, 20-30" dbh at 2 per 5 acres, and 10-20" dbh at 2 per 5 acres.	17	Replaced	Ecological Response Units - Pinyon-Juniper Woodland; Pinyon-Juniper Evergreen Shrub; Pinyon-Juniper Grass and Juniper Grass	ERU-PJO-DC-01, ERU-PJC-DC-01, ERU-PJJUG-DC-01	This direction is overly prescriptive and does not allow for adaptive management. Was replaced by plan direction outlining the desired seral states, canopy cover, and structural states of the ecological response units where alligator juniper is present.
The oak component of the conifer types and the encinal oak type will be maintained. Oak may be cut to improve spacing and sprouting. Thickets can be cut to thin but retain at least 40% of the stand. When thinning stands, retain large trees contributing the bulk of the mast crop.	17	Replaced	Ecological Response Units - Ponderosa Pine-Evergreen Oak Perennial Grass Subclass	ERU-PPE-PG-DC-01, ERU-PPE-PG-DC-04	This direction is overly prescriptive and does not allow for adaptive management. Was replaced by plan direction outlining the desired seral states, canopy cover, and structural states of the ecological response unit, including all structural stages of oak.
Plan direction for multiple vegetation types to emphasize the production of game species (e.g., mule deer, cottontails, elk, javalina, and Gambel's quail).	14	Removed	Ecological Response Units	N/A	Removed from the plan under the assumption that movement towards ecological resource desired conditions, including vegetative conditions, will improve wildlife habitat, but treatment is not specific to wildlife production.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
All analyses should be at multiple scales - one scale above and one scale below the ecosystem management areas. The amount of old growth that can be provided and maintained will be evaluated at the ecosystem management area level and be based on forest type, site capability, and disturbance regimes.	11	Removed	Ecological Response Units	N/A	While this specific language was removed from the plan, the structure of the Ecological Response Unit section of the revised forest plan considers landscape scale, midscale, and fine-scale desired conditions for vegetation types. This would ensure projects include analysis at multiple scales.
Consider the effects of spatial arrangement on old growth function, from groups to landscapes, including de facto allocations to old growth such as goshawk nest sites, Mexican spotted owl protected activity centers, sites protected for species behavior associated with old growth, wilderness, research natural areas, and other forest structures managed for old growth function.	11	Replaced	Ecological Response Units - Ponderosa Pine-Evergreen Oak	ERU-PPE-G-01	While this direction is overly prescriptive, language was incorporated into the forest plan to promote old growth attributes.
Distribution of habitat structures (tree size and age classes, tree groups of different densities, snags, dead and down woody material, etc.) should be evaluated at the ecosystem management area level, at the mid-scale such as drainage, and at the small-scale site.	11	Removed	Ecological Response Units	N/A	While this specific language was removed from the plan, the structure of the Ecological Response Unit section of the revised forest plan considers landscape scale, midscale, and fine-scale desired conditions for vegetation types.
Forested sites should meet or exceed the structural attributes to be considered old growth in the five primary forest cover types in the southwest	11	Replaced	Ecological Response Units	ERU-DC-01, ERU-DC-02	Desired conditions for vegetation types incorporate desired seral states, canopy cover, and structural states, which are the characteristics we are trying to achieve through resource management.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
In allocating old growth and making decisions about old growth management, use appropriate information about the relative risks to sustaining old growth function at the appropriate scales, due to natural and human-caused events.	14	Replaced	Ecological Response Units - Ponderosa Pine-Evergreen Oak	ERU-PPE-G-01	While this direction is overly prescriptive, language was incorporated into the forest plan to promote old growth attributes in pine types.
In the long term, manage old growth in patterns that provide for a flow of functions and interactions at multiple scales across the landscape through time.	11	Removed	Ecological Response Units	N/A	While this specific language was removed from the plan, the structure of the Ecological Response Unit section of the revised forest plan considers landscape scale, midscale, and fine-scale desired conditions for vegetation types.
Maintain a minimum of 30% effective ground cover for watershed protection and forage production, especially in primary wildlife forage producing areas. Where less than 30% exists, it will be the management goal to obtain a minimum of 30% effective ground cover.	11	Retained but modified	Ecological Response Units	ERU-DC-09	This direction is overly prescriptive and does not allow for adaptive management. The vegetative ground cover is considered at the project level to achieve the values characteristic for each ecological response unit.
Manage vegetation to achieve satisfactory or better watershed conditions.	14	Retained but modified	Ecological Response Units	ERU-G-04	Guidelines for ecological response units that utilize mechanical treatments to manage vegetation to move watersheds towards desired conditions.
Strive to create or sustain as much old growth compositional, structural, and functional flow as possible over time at multiple area scales. Seek to develop or retain old growth function on at least 20 percent of the naturally forested area by forest type in any landscape.	17	Replaced	Ecological Response Units	ERU-DC-01, ERU-DC-02	This direction is overly prescriptive and does not allow for adaptive management. Desired conditions for vegetation types incorporate desired seral states, canopy cover, and structural states, which are the characteristics we are trying to achieve through resource management.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Use information about pre-European settlement conditions at the appropriate scales when considering the importance of various factors.	10	Replaced	Ecological Response Units; Tribal Relations and Areas of Tribal Importance	All ERU DCs, TRB-MA-01, TRB-MA-05	The intent of this plan direction is incorporated into the desired conditions for the ecological response units. Additionally, management approaches for incorporating tribal concerns in restoration activities have been included.
Until the forest plan is revised, allocate no less than 20 percent of each forested ecosystem management area to old growth	16	Removed	Ecological Response Units	N/A	This language was not incorporated in the revised forest plan to allow for more adaptive management that considers vegetative conditions and best available scientific information.
Use quantitative models at the appropriate scales when considering the importance of various factors. These models may include, but are not limited to: Forest Vegetation Simulator, BEHAVE, and FARSITE	6	Replaced	Plan Monitoring	N/A	The intent of this plan direction is supported by plan-level monitoring. Quantitative models are an indicator for progress towards desired conditions.
Mixed Conifer: Canopy cover for mid-aged forest (VSS 4) should average 1/3 60+% and 2/3 40+%, mature forest (VSS 5) should average 50+%, and old forest (VSS 6) should average 60+%. Maximum opening size is up to 4 acres with a maximum width of up to 200 feet. Retain one group of reserve trees per acre of 3-5 trees per group for openings greater than 1 acre in size. Leave at least 3 snags, 5 downed logs, and 10-15 tons of woody debris per acre.	17	Retained but modified	Ecological Response Units - Mixed Conifer-Frequent Fire; Wet Mixed Conifer-Mixed Conifer with Aspen	ERU-MCD-DC-02, ERU-MCW-DC-01	Plan direction outlining the desired seral states, canopy cover, and structural states is included in desired conditions for the ecological response units but may be modified based on best available scientific information.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Ponderosa Pine: Canopy cover for mid-aged forest (VSS 4) should average 40+%, mature forest (VSS 5) should average 40+%, and old forest (VSS 6) should average 40+%. Opening size is up to 4 acres with a maximum width of up to 200 feet. One group of reserve trees, 3-5 trees per group, will be left if the opening is greater than an acre in size. Leave at least 2 snags per acre, 3 downed logs per acre, and 5-7 tons of woody debris per acre.	17	Retained but modified	Ponderosa Pine-Evergreen Oak, Ponderosa Pine Forest	ERU-PPE-PG-DC-01, ERU-PPF-DC-04	Plan direction outlining the desired seral states, canopy cover, and structural states is included in desired conditions for the ecological response units but may be modified based on best available scientific information.
Snags are 18" or larger dbh and 30 feet or larger in height, downed logs are 12 inches in diameter and at least 8 feet long, woody debris is 3 inches or larger on the forest floor, canopy cover is measured with vertical crown projection on average across the landscape.	17	Removed	Ecological Response Unit	N/A	This direction is overly prescriptive and does not allow for adaptive management in the event that these numbers are updated based on best available scientific information. Desired conditions outline seral states, canopy cover, and structural states, but does not put restrictive numbers to define specific characteristics.
Spruce-Fir: Canopy cover for mid-aged forest (VSS 4) should average 1/3 60% and 2/3 40%, mature forest (VSS 5) should average 60+%, and old forest (VSS 6) should average 60+%. Maximum opening size is 1 acre with a maximum width of 125 feet. Provide two groups of reserve trees per acre with 6 trees per group when opening size exceeds 0.5. Leave at least 3 snags, 5 downed logs, and 10-15 tons of woody debris per acre.	None	Removed	Ecological Response Unit	N/A	This ecological response unit is not present on the Tonto National Forest.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
The order of preferred treatment for woody debris is: (1) prescribed burning, (2) logging and scattering, (3) hand piling or machine grapple piling, and 4) dozer piling.	4	Removed	Ecological Response Units	N/A	This direction is overly prescriptive and does not allow for adaptive management. The approach to accomplish treatment of woody debris will be decided on the project level based on site conditions.

Fire and Fuels

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Wildland Fire occurring within the Sonoran Desert and riparian communities will receive an appropriate management response. Suppression strategy is to minimize damage within this ecosystem.	19	Replaced	Fire and Fuels, Ecological Response Units – Desert Ecosystems	ERU-DES-DC-03, FF-G-02	This direction is overly prescriptive and does not allow for adaptive management. The revised plan incorporates plan components that fire response is appropriate to the ecological response unit.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
All reported wildland fires will receive a strategic fire size-up. Wildland fires meeting locally developed operating guidelines listed below may be managed for resource benefit. (1) Fire cause is from a natural ignition. (2) Fire does not threaten life, property, public and firefighter safety. (3) Fire does not threaten fire sensitive cultural resources. (4) ADEQ, Air Quality Division procedures and guidelines for consultation and management of smoke will be implemented. (5) Wildland Fire managed for resource benefit(s) must meet Tonto, Regional, and National fire situation parameters. (6) No site-specific resource objective is threatened.	1, 4, 18	Replaced	Fire and Fuels	FF-S-02, FF-S-03	This direction is overly prescriptive and does not allow for adaptive management. It was modified to be more adaptive to changes in technology and best available scientific information.
Designated Wildland Fires managed for resource benefit will be monitored according to established guidelines.	None	Removed	Fire and Fuels	N/A	This was removed because it duplicates law, regulation and/or policy, therefore is not necessary to be incorporated into the forest plan.
For each wildland fire located in an FMU approved for wildland fire use and naturally ignited, a decision checklist will be prepared to determine whether or not it should be declared a Wildland Fire use candidate. If approved, a Wildland Fire Implementation Plan (WFIP) will be prepared that identified specific resource concerns.	None	Removed	Fire and Fuels	N/A	This was removed because it duplicates law, regulation and/or policy, therefore is not necessary to be incorporated into the forest plan.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Suppression of fires, or portions thereof, will be undertaken where they adversely affect forest resources, endanger public safety and/or have a potential to damage private lands.	1, 4, 18	Retained but modified	Fire and Fuels	FF-G-02	This plan direction was modified to be more adaptive to changes in technology and best available scientific information, where response strategies are determined based on threat to lives, public and firefighter safety, and potential resource impacts.
Integrate habitat needs through prescribed fire with fire suppression objectives.	11, 14	Retained but modified	Wildlife, Fish, and Plants; Fire and Fuels	FF-DC-04, FF-S-04, WFP-DC-03	The intent of this plan direction was maintained but modified to be more adaptive. Prescribed fire activities would be aimed at achieving ecological desired conditions, including that for habitat need of wildlife.
Use prescribed fire to treat vegetation for water yield, forage, and wildlife habitat improvement.	11, 14	Retained but modified	Ecological Response Units; Fire and Fuels	FF-DC-04, FF-S-04	The intent of this plan direction is incorporated as a desired condition that prescribed fire improves ecosystem function and is designed to move areas towards their natural fire regime, reducing the risk of catastrophic wildfires that could result in detrimental effects to water yield, forage, and wildlife habitat.
Prevent wildfire from destroying developed recreation improvements, including a five-chain wide buffer surrounding them.	44	Replaced	Fire and Fuels, Developed Recreation, Facilities	FF-DC-02, REC-DEV-DC-05, FC-G-06	Replaced by plan direction that is less prescriptive and allows for adaptive management responses for user safety and vegetation types.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Use prescribed fire to treat heavy accumulations of natural fuels in dense mesquite stands to reduce Wildland Fire hazards to the resource and the public.	18	Retained but modified	Fire and Fuels	FF-DC-05, FF-S-04, FF-G-01	This plan direction is incorporated in the forest plan but modified to be less specific, applying to multiple ecological response units rather than simply dense mesquite stands. This is especially the case where wildland fires could pose a threat to communities.
Wildland Fire will be managed consistent with resource objectives. Wildland Fire not meeting management objectives, will receive an appropriate suppression response. Wildland Fires will be suppressed when they adversely affect forest resources, endanger public safety, or have the potential to damage significant capital investments.	1, 4	Retained but modified	Fire and Fuels	FF-S-01, FF-G-02	This plan direction was modified to be more adaptive to changes in technology and best available scientific information, where response strategies are determined based on threat to lives, public and firefighter safety, and potential resource impacts.
If a wildfire has escaped initial attack falls within the parameters listed below, least cost suppression methods will be initiated (i.e., maximum use of existing natural or man-made features as control lines; minimum use of direct attack methods). (1) Burning index <80 with two-day fluctuation. (2) Fire does not threaten life or property. (3) Fire will be consistent with resource objectives. (4) Fire will not interfere with overall Tonto, regional, or national fire situation. Only the Forest Supervisor or his designated representative can authorize this action.	1, 4	Replaced	Fire and Fuels	FF-S-01, FF-G-02, FF-G-03	This direction is overly prescriptive and does not allow for adaptive management. It was replaced by plan direction that allows decision makers the flexibility to be more adaptive to changes in technology and best available scientific information.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Treat activity fuels to reduce fire hazard. Slash treatment will include removal for use as firewood, piling and burning, prescribed burning, etc.	18	Replaced	Fire and Fuels	FF-S-04	The intent of this plan direction is retained but was replaced by more adaptive direction for the use of prescribed fire to achieve resource benefits. The specific approach to accomplishing this work would be decided on the project level.
Actively participate with all interested and potentially affected parties to develop strategic Interface management measures to reduce Wildland Fire threats to life, property and resources, address issues of Forest health, and provide for community partnerships including treatments of vegetation and fuels, and access needs.	8	Retained but modified	Fire and Fuels	FF-MA-06	Tactics to achieving desired conditions, such as collaboration and partnerships, are captured as management approaches in the revised plan.
All suppression efforts will emphasize minimum impact strategies. Use of mechanized equipment for firelines construction is discouraged. Where use is necessary, rehabilitation will be implemented.	1, 4	Replaced	Fire and Fuels	FF-G-02	This direction is overly prescriptive and does not allow for adaptive management. It has been replaced in the forest plan with direction that allows decision makers to be adaptive and utilize the appropriate suppression tactics for the conditions and threats.
In areas where it is not possible to allow fire to fully resume its natural role within an ecosystem, Prescribed Fire will be applied to meet management objectives.	18	Retained but modified	Ecological Response Units; Fire and Fuels	FF-DC-04, FF-S-04, ERU-O-01, ERU-O-02	The intent of this plan direction is incorporated as a desired condition that prescribed fire improves ecosystem function and is designed to move areas towards their natural fire regime and meet management objectives.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Wildland Fire will be managed regardless of Wilderness area and agency boundaries as determined by resource and/or Wilderness objectives identified in a Wildland Fire Implementation Plan.	18	Replaced	Fire and Fuels; Designated Wilderness; Recommended Wilderness	FF-DC-07, FF-G-08	This direction is supported in the revised plan in that wildland fire (both planned and unplanned) is allowed to play its natural ecological role in wilderness resources, where fire management tactics may be implemented in designated wilderness where necessary for suppression.
Wildland Fires threatening the Wildland/Urban Interface will have high suppression priority.	N/A	Retained but modified	Fire and Fuels; Ecological Response Units	ERU-DC-16, FF-DC-01, FF-DC-02 FF-DC-03, FF-G-01	The forest plan includes specific direction for vegetation within the wildland urban interface to reduce wildland fire risk to communities and managed to allow safe and efficient suppression. Firefighter and public safety are the top priorities in all fire management activities.
Prescribed Fire may only be used to achieve the objectives of allowing and fires to play their natural ecological roles and to reduce unnatural fuel hazards.	18	Retained but modified	Fire and Fuels	FF-DC-04, FF-S-04	This intent of this plan direction was retained in the forest plan, but updated to allow for more adaptive management of prescribed fire where the goal is to improve resource objectives through restoring a more natural fire regime.

Watersheds and Water Resources

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Warn public when water quality fails to meet existing standards. When possible, identify pollution sources. Correct pollution problems if they have resulted from activities under Forest Service jurisdiction and management.	23	Retained but modified	Watersheds and Water Resources	WAT-DC-02, WAT-G-05, WAT-MA-07	The first sentence of this plan direction is duplicative of law, regulation, and policy. The remainder of the direction has been retained to protect and enhance water quality across the forest. Additionally, cooperation with state agencies to manage groundwater has been incorporated into management approaches.
Watersheds will be managed so as to improve them to a satisfactory or better condition.	25	Retained	Watersheds and Water Resources	WAT-DC-01, WAT-DC-02, WAT-DC-03, WAT-DC-04, WAT-DC-06	This plan direction has been retained across multiple desired conditions for our watersheds and water resources. Objectives, standards and guidelines are focused on how we can achieve these desired conditions, and in turn manage watersheds to satisfactory of better conditions.
As needed, prepare water resource improvement plans for high priority watersheds and problem areas.	25	Replaced	Watersheds and Water Resources	WAT-MA-01	Specific projects or ideas for moving a resource towards desired conditions are incorporated into the plan as management approaches.
Inventory watershed condition. This will include an assessment of the Forest once per decade, and smaller areas on an as needed basis.	6	Replaced	Watersheds and Water Resources	Watershed Monitoring Question M-01	The intent of this direction is supported by the monitoring plan. Watershed condition is included as an indicator of progress towards desired conditions.
Periodically monitor water quality to determine if State water quality standards for primary contact recreation are being violated.	6	Replaced	Watersheds and Water Resources	Watershed Monitoring Question M-02	The intent of this direction is supported by the monitoring plan. Water quality conditions are included as an indicator of progress towards desired conditions.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Achieve water distribution by augmenting natural with constructed up to a minimum of 1 water per section. The optimum for small game is 4 waters per section.	24	Replaced	Watersheds and Water Resources	WAT-DC-08	This direction is overly prescriptive and does not allow for adaptive management. Direction has been replaced by plan components that water available contributes to habitat connectivity.
Comply with State of Arizona's Ground Water Management Act.	N/A	Removed	Watersheds and Water Resources	N/A	This item is duplicative of law, regulation, and/or policy, therefore it does not need to be restated in the forest plan.
Obtain the water rights needed to construct future water developments and maintain instream flows. This includes coordination with the Department of Water Resources, Salt River Project and others.	24	Retained but modified	Watersheds and Water Resources	WAT-DC-09, WAT-O-05, WAT-S-03, WAT-G-11, WAT-MA-02	While the wording has changed, the intent of this has been captured within multiple components of the revised plan. Additionally, cooperation and coordination are captured as management approaches in the forest plan.
Resolve water right disputes by participating in State administrative hearings, negotiation, litigation, etc.	24	Retained but modified	Watersheds and Water Resources	WAT-MA-04	Cooperation and coordination are captured as management approaches in the forest plan.

Riparian Areas, Seeps, Springs, Wetlands, and Riparian Management Zones (RMZs)

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Improve and manage the included riparian areas (as defined by FSM 2526) to benefit riparian dependent resources.	21	Replaced	Riparian Areas	RMZ-DC-01	New plan direction focuses on the management and improvement of riparian areas across the forest, not only selected riparian areas.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Wildland Fire occurring within the riparian communities will receive appropriate management response. Suppression strategy is to minimize damage within this ecosystem.	22	Replaced	Riparian Ecological Response Units; Riparian Areas; Fire and Fuels	RMZ-DC-05, FF-G-06, FF-G-07, RERU-DC-11, RERU-DC-12	The revised plan incorporates plan components that fire response is appropriate to the ecological response unit, which includes riparian ecological response units.
Any surface or vegetation disturbing projects in riparian areas will be coordinated and will specify protection or rehabilitation of riparian-dependent resources.	22	Retained but modified	Riparian Areas	RMZ-S-01, RMZ-G-03	As part of the 2012 planning rule, all projects must identify and delineate a riparian management zone. Activities that occur within this zone are subject to the standards and guidelines related to the protection of riparian resources.
Avoid channel changes or disturbance of stream channels and minimize impacts to riparian vegetation.	22	Retained but modified	Riparian Areas	RMZ-DC-06, RMZ-G-05	The intent of this plan direction is captured within the plan as a guideline that projects impacting channel morphology should not be authorized, helping achieve desired conditions for streams.
Coordinate with range to achieve at least 80% of the potential riparian overstory crown coverage.	21	Replaced	Riparian Areas; Riparian Ecological Response Units; Rangelands, Forage and Grazing	GRZ-DC-03, RERU-DC-02, RERU-DC-04	This direction is overly prescriptive and does not allow for adaptive management. Allotment management plans, and the associated range NEPA would consider desired conditions of riparian ecological response units and riparian areas in project design.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Coordinate with range to achieve utilization in the riparian areas that will not exceed 20% of the current annual growth by volume of woody species.	21	Replaced	Riparian Areas; Riparian Ecological Response Units; Rangelands, Forage and Grazing	RERU-G-02, RMZ-DC-04, RMZ-DC-05, GRZ-DC-03, GRZ-S-01	This direction is overly prescriptive and does not allow for adaptive management. Rather, direction has been incorporated in the forest plan in that allotment management plans, and the associated range NEPA, would analyze impacts on riparian areas and incorporate appropriate design elements for resource protection.
Management strategies should restore degraded riparian areas to good condition as soon as possible. Damage to riparian vegetation, stream banks, and channels should be prevented.	21	Retained but modified	Riparian Areas	RMZ-O-01	The intent of this plan component is captured in the revised plan. Additionally, the plan incorporates specific objectives for the improvement of riparian areas.
Re-establish riparian vegetation in severely degraded but potentially productive riparian areas. Natural regeneration is anticipated to achieve this goal, but artificial regeneration may be necessary in some areas.	21	Replaced	Riparian Areas	RERU-DC-02, RERU-DC-04, RMZ-MA-05, RMZ-MA-07	While the intent of this plan direction is captured in the revised plan, the specific location or targeted areas for active management of riparian areas would be determined at the project level, with management approaches providing potential tactics to use.
Rehabilitate and maintain through improved management practices, mixed broadleaf riparian to achieve 80% of the potential overstory crown coverage. Natural regeneration is anticipated to achieve most of this goal. Artificial regeneration may be necessary in some areas.	21	Replaced	Riparian Ecological Response Units	RERU-DC-02, RERU-DC-04, RMZ-MA-07	This direction is overly prescriptive and does not allow for adaptive management. Projects conducted within riparian areas would focus on the movement towards desired conditions for the site potential and a diversity of seral states. Specific tactics to accomplishing this work are incorporated as management approaches.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Rehabilitate at least 80% of the potential shrub cover in riparian areas through the use of appropriate grazing systems and methods.	21	Replaced	Riparian Ecological Response Units	RERU-DC-02, RERU-DC-04	This direction is overly prescriptive and does not allow for adaptive management. Allotment management plans, and the associated range NEPA would consider desired conditions of riparian ecological response units and riparian areas in project design.

Wildlife, Fish, and Plants

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Integrate habitat needs through prescribed fire with fire suppression objectives.	11, 14	Retained but modified	Wildlife, Fish, and Plants; Fire and Fuels	FF-DC-04, FF-S-04, WFP-DC-03	The intent of this plan direction was maintained but modified to be more adaptive. Prescribed fire activities would be aimed at achieving ecological desired conditions, including that for habitat need of wildlife.
Habitat requirements for endangered species will have precedence over threatened species.	N/A	Removed	Wildlife, Fish, and Plants	N/A	This item is duplicative of law, regulation, and/or policy, therefore is not required to be restated in the forest plan.
Prevent wildlife from destroying developed recreation improvements including a five-chain wild buffer surrounding them.	1, 4	Replaced	Wildlife, Fish, and Plants; Developed Recreation	WFP-DC-07, REC-G-03	This direction is overly prescriptive and does not allow for adaptive management. Replaced by desired conditions that human-wildlife conflicts are infrequent and putting an emphasis on minimizing impacts to wildlife resources when recreation developments are planned.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Continue close coordination with State and other federal agencies for the benefit of plant and animal species.	7	Retained but modified	Wildlife, Fish, and Plants	WFP-MA-01, WFP-MA-05, WFP-MA-08	Coordination and collaboration are captured in the revised forest plan as management approaches to accomplishing desired conditions.
Continue to clear all projects for threatened, endangered, proposed, and candidate plant and animal species. Clearances will be done by a Wildlife Biologist and reviewed by the Forest Biologist.	None	Removed	Wildlife, Fish, and Plants	N/A	This item is duplicative of law, regulation, and/or policy, therefore is not required to be restated in the forest plan.
Cooperate and consult with the Arizona Game and Fish Department, U.S. Fish and Wildlife Service, State universities, professional societies, and various conservation organizations regarding proposals and programs concerned with management of wildlife habitat.	7, 30	Retained but modified	Wildlife, Fish, and Plants	WFP-MA-01, WFP-MA-03, WFP-MA-04, WFP-MA-07	Coordination and collaboration are captured in the revised forest plan as management approaches to accomplishing desired conditions.
Identify and delineate the home range of all bald eagle breeding areas. Document and correct any resource conflicts and disturbances to bald eagles and their habitat. During portions of any year that a bald eagle's nest site is active, an appropriate area of land surrounding the nest will be closed to public entry if such closure is necessary.	1, 4	Replaced	Wildlife, Fish, and Plants	WFP-DC-01, WFP-G-03, WFP-G-04	This direction is overly prescriptive and does not allow for adaptive management. Replaced by plan direction that conservation measures, such as closing an area to public entry, are used to contribute to species recovery and provide the ecological conditions necessary for species persistence.
Identify, survey, map, and analyze habitat for all Federally-listed species. Identify management conflicts and enhancement opportunities. Correct any management conflicts or problems.	8	Retained but modified	Wildlife, Fish, and Plants	WFP-DC-06, WFP-DC-07, WFP-MA-04, WFP-MA-05	Specific tactics are captured in the revised forest plan as management approaches to accomplishing desired conditions.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Limit human activity in nesting areas during the breeding season.	1, 4	Retained but modified	Wildlife, Fish, and Plants	WFP-DC-01, WFP-G-03, WFP-G-04	Intent is captured in plan direction that conservation measures, such as closing an area to public entry, should be used to contribute to species recovery and provide the ecological conditions necessary for species persistence.
In streams inhabited by fish, structures need to provide for fish passage. In addition, structures containing natural stream bottoms are preferred over culverts.	13, 22	Retained but modified	Wildlife, Fish, and Plants; Roads; Facilities	FC-G-03, RD-G-07, RMZ-G-02, WFP-G-08	Guidelines have been incorporated in the revised plan that meet the intent of this plan direction.
Manage the warm water non-game type streams to support Gila sucker and longfin dace.	21	Replaced	Wildlife, Fish, and Plants; Watersheds and Water Resources; Riparian Areas	WFP-DC-04, WFP-DC-03, WFP-MA-07	The intent of this direction is retained in the plan, in that movement towards desired conditions for ecological resources should provide the ecological conditions necessary for species persistence.
Rehabilitate Bald Eagle nesting habitat by improving riparian habitat on alluvial benches.	21	Replaced	Riparian Areas; Wildlife, Fish, and Plants	WFP-DC-01, WFP-DC-03, WFP-DC-04	The intent of this direction is retained in the plan, in that movement towards desired conditions for ecological resources should provide the ecological conditions necessary for species persistence.

Goshawk Guidelines

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Limit human activities in or near nest sites and post-fledgling family areas during the breeding season so that goshawk reproductive success is not affected by human activities.	1, 4	Replaced	Wildlife, Fish, and Plants	WFP-DC-01, WFP-G-03, WFP-G-04	In our assessment of at-risk species, we did not identify a substantial risk to the long-term persistence of northern goshawk on the Tonto NF. The guidelines cause unnecessary restrictions on restoration activities, especially between March 1 and September 30 which overlaps with critical Rx burn windows. Intent is captured in plan direction that conservation measures, such as closing an area to public entry, should be used to contribute to species recovery and provide the ecological conditions necessary for species persistence, if there is a threat.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Low intensity ground fires are allowed at any time in all forested cover types, but high intensity crown fires are not acceptable in the post-fledgling family area or nest areas. Avoid burning the entire home range of a goshawk pair in a single year. For fires planned in the occupied nest area, a fire management plan should be prepared. The fire management plan should minimize the risk of goshawk abandonment while low intensity ground fire burns in the nesting area. Prescribed fire within nesting areas should be planned to move with prevailing winds away from the nest tree to minimize smoke and risk of crown fire developing and driving the adults off or consuming the nest tree.	1	Removed	Ecological Response Units; Fire and Fuels; Wildlife, Fish, and Plants	N/A	In our assessment of at-risk species, we did not identify a substantial risk to the long-term persistence of northern goshawk on the Tonto NF. While the loss of habitat from high-severity fire is one of the primary risks to goshawks, on the Tonto NF, the actual percent of forested ERUs at risk of stand-replacing fires is relatively low (mixed conifer = 24%, ponderosa pine = 16%, ponderosa pine - evergreen oak =16%). Under current conditions, we would not expect a catastrophic loss of habitat on the Tonto NF, and through moving our ecological response units towards desired conditions through mechanical and fire treatments, this risk would decrease even more. Therefore, direction was removed from the plan under the assumption that movement towards ecological resource desired conditions, including vegetative conditions, will improve habitat for goshawks.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Provide unique nesting habitat conditions for goshawks. Important features include trees of mature to old age with high canopy cover.	1	Removed	Ecological Response Units; Wildlife, Fish, and Plants	N/A	In our assessment of at-risk species, we did not identify a substantial risk to the long-term persistence of northern goshawk on the Tonto NF. There is growing evidence that goshawks are a forest generalist and populations are more resilient to changes in forest condition than previously thought. Direction was removed from the plan under the assumption that movement towards ecological resource desired conditions, including vegetative conditions, will improve habitat for goshawks.
The structure of the vegetation within nest areas is associated with the forest type, and tree age, size, and density, and the developmental history of the stand. Table 5 of RM-217 presents attributes required for goshawks on locations with "low" and "high" site productivity.	1	Removed	Ecological Response Units; Wildlife, Fish, and Plants	N/A	In our assessment of at-risk species, we did not identify a substantial risk to the long-term persistence of northern goshawk on the Tonto NF. There is growing evidence that goshawks are a forest generalist and populations are more resilient to changes in forest condition than previously thought. Direction was removed from the plan under the assumption that movement towards ecological resource desired conditions, including vegetative conditions, will improve habitat for goshawks.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Provide for a healthy sustainable forest environment for the post- fledgling family needs of goshawks. The principal difference between "within the post- fledgling family area" and "outside the post-fledgling family area" is the higher canopy cover within the post-fledgling family area and smaller opening size within the post-fledgling family area. Vegetative structural stage distribution and structural conditions are the same within and outside the post-fledgling family area.	1	Removed	Ecological Response Units; Wildlife, Fish, and Plants	N/A	In our assessment of at-risk species, we did not identify a substantial risk to the long-term persistence of northern goshawk on the Tonto NF. There is growing evidence that goshawks are a forest generalist and populations are more resilient to changes in forest condition than previously thought. Direction was removed from the plan under the assumption that movement towards ecological resource desired conditions, including vegetative conditions, will improve habitat for goshawks.
Complete at least 1 year of survey, but 2 years of survey should be done to verify questionable sightings, unconfirmed nest sites, etc. If nesting goshawks are found during the first year of inventory, a second year of inventory is not needed in that territory.	1	Removed	Ecological Response Units; Wildlife, Fish, and Plants	N/A	In our assessment of at-risk species, we did not identify a substantial risk to the long-term persistence of northern goshawk on the Tonto NF. There is growing evidence that goshawks are a forest generalist and populations are more resilient to changes in forest condition than previously thought. Direction was removed from the plan under the assumption that movement towards ecological resource desired conditions, including vegetative conditions, will improve habitat for goshawks. The monitoring plan includes questions that tracks movement towards desired conditions in our forested ecosystems and utilizes the Mexican Spotted Owl as a focal species for the health of the ecosystem.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Consider the effects of spatial arrangement on old growth function, from groups to landscapes, including de facto allocations to old growth such as goshawk nest sites, Mexican spotted owl protected activity centers, sites protected for species behavior associated with old growth, wilderness, research natural areas, and other forest structures managed for old growth function.	1	Replaced	Ecological Response Units; Wildlife, Fish, and Plants	Forested Ecosystem Monitoring Question M-13	The intent of this guideline is captured within the monitoring plan, which includes questions that movement towards desired conditions in our forested ecosystems and utilizes the Mexican Spotted Owl as a focal species for the health of the ecosystem.
Establish, and delineate on a map, a post-fledgling family area that includes 6 nesting areas per pair of nesting goshawks for known nest sites, old nest sites, areas where historical data indicates goshawks have nested there in the past, and where goshawks have been repeatedly sighted over a 2 year or greater time period but no nest sites have been located. Manage for uneven-age stand conditions for live trees and retain live reserve trees, snags, downed logs, and woody debris levels throughout woodland, ponderosa pine, mixed conifer and spruce-fir forest cover types. Manage for old age trees such that as much old forest structure as possible is sustained over time across the landscape. Sustain a mosaic of vegetation densities (overstory and understory), age classes and species composition across the landscape. Provide foods and cover for goshawk prey.	1	Removed	Ecological Response Units; Wildlife, Fish, and Plants	N/A	This direction is overly prescriptive and does not allow for adaptive management. In our assessment of at-risk species, we did not identify a substantial risk to the long-term persistence of northern goshawk on the Tonto NF. There is growing evidence that goshawks are a forest generalist and populations are more resilient to changes in forest condition than previously thought. Direction was removed from the plan under the assumption that movement towards ecological resource desired conditions, including vegetative conditions, will improve habitat for goshawks.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
For areas where complete inventories cannot be done, use aerial photographs to locate vegetative structural stages (VSS) 4-6 within the project area and inventory just those sites for goshawk nest areas using R3 inventory protocol. All un-inventoried areas (VSS 1-3) will be managed to post-fledgling family area (PFA) specifications while in that stage. If while using this inventory option evidence suggests goshawks are present (such as finding plucking perches or molted goshawk feathers), conduct a complete inventory as outlined above.	1	Removed	Ecological Response Units; Wildlife, Fish, and Plants	N/A	This direction is overly prescriptive and does not allow for adaptive management. In our assessment of at-risk species, we did not identify a substantial risk to the long-term persistence of northern goshawk on the Tonto NF. There is growing evidence that goshawks are a forest generalist and populations are more resilient to changes in forest condition than previously thought. Direction was removed from the plan under the assumption that movement towards ecological resource desired conditions, including vegetative conditions, will improve habitat for goshawks.
If forests have goshawks commonly nesting in stands classified as VSS 1-3, use the complete inventory methods for those areas. There may be situations where an area is classified as a VSS 3, based on the predominant VSS class, but in actuality a combination of VSS 4 and 5 predominate the area. For those situations, use the complete inventory methods.	1	Removed	Wildlife, Fish, and Plants	N/A	In our assessment of at-risk species, we did not identify a substantial risk to the long-term persistence of northern goshawk on the Tonto NF. This direction is overly prescriptive and does not allow for adaptive management.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Refer to USDA Forest Service General Technical Report RM-217 entitled "Management Recommendations for the Northern Goshawk in the Southwestern United States" for scientific information on goshawk ecology and management which provide the basis for the management guidelines. Supplemental information on goshawk ecology and management may be found in "The Northern Goshawk: Ecology and Management" published by the Cooper Ornithological Society as Studies in Avian Biology No. 16. In woodland forest cover types, use empirical data to determine desired habitat conditions.	1	Removed	Wildlife, Fish, and Plants	N/A	Best available scientific information will be utilized in project level NEPA for management activities across the forest. Not necessary to specifically call this out in the forest plan.
Within the ranges of the Kaibab pincushion cactus, <i>Pediocactus paradinei</i> , the Arizona leatherflower, <i>Clematis hirsutissima arizonica</i> , management activities needed for the conservation of these two species that may conflict with northern goshawk standards and guidelines will be exempt from the conflicting northern goshawk standards and guidelines until conservation strategies or recovery plans (if listed) are developed for the two species.	1	Removed	Wildlife, Fish, and Plants	N/A	With the removal of other guidelines related to Goshawks, this language was not necessary include in the forest plan. Additionally, it is consistent with law, regulation, and policy to utilize recovery plans for federally listed species.

Mexican Spotted Owl Standards

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Allow natural canopy gap processes to occur, thus producing horizontal variation in stand structure.	1, 11	Replaced	Ecological Response Units; Wildlife, Fish, and Plants	WFP-DC-01, WFP-G-01, WFP-G-03, Associated ERU sections: RMZ; JUG; PJC; PPE; PPF; MCD	Through the revision process, the team sought to develop mechanisms to incorporate existing plan management direction for the Mexican spotted owl (MSO) and old-growth forests. It was incorporated into the revised plan through the development of desired conditions for the relevant set of forest and woodland ecosystems. Additionally, all current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.
Allow no timber harvest except for fire risk abatement in mixed conifer and pine-oak forests on slopes greater than 40% where timber harvest has not occurred in the last 20 years.	1	Replaced	Wildlife, Fish, and Plants; Forest Products	WFP-DC-01, WFP-G-01, WFP-G-03	All current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.
Allow no timber harvest except for fuelwood and fire risk abatement in established protected activity centers.	1	Replaced	Wildlife, Fish, and Plants; Forest Products	WFP-DC-01, WFP-G-01, WFP-G-03	All current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
For protected activity centers destroyed by fire, windstorm, or other natural disaster, salvage timber harvest or declassification may be allowed after evaluation on a case-by-case basis in consultation with the US Fish and Wildlife Service.	1	Replaced	Wildlife, Fish, and Plants; Forest Products	WFP-DC-01, WFP-G-01, WFP-G-03	All current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.
Apply ecosystem approaches to manage for landscape diversity mimicking natural disturbance patterns, incorporating natural variation in stand conditions and retaining special features such as snags and large trees, utilizing appropriate fires, and retention of existing old growth in accordance with forest plan old growth standards and guidelines.	1, 11	Replaced	Ecological Response Units; Wildlife, Fish, and Plants	WFP-DC-01, WFP-G-01, WFP-G-03, Associated ERU sections: RMZ; JUG; PJC; PPE; PPF; MCD	<p>Through the revision process, the team sought to develop mechanisms to incorporate existing plan management direction for the Mexican spotted owl (MSO) and old-growth forests. It was incorporated into the revised plan through the development of desired conditions for the relevant set of forest and woodland ecosystems.</p> <p>Additionally, all current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.</p>

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
(MSO) Attempt to mimic natural disturbance patterns by incorporating natural variation, such as irregular tree spacing and various patch sizes, into management prescriptions.	1, 11	Replaced	Ecological Response Units; Wildlife, Fish, and Plants	WFP-DC-01, WFP-G-01, WFP-G-03, Associated ERU sections: RMZ; JUG; PJC; PPE; PPF; MCD	<p>Through the revision process, the team sought to develop mechanisms to incorporate existing plan management direction for the Mexican spotted owl (MSO) and old-growth forests. It was incorporated into the revised plan through the development of desired conditions for the relevant set of forest and woodland ecosystems.</p> <p>Additionally, all current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.</p>

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
(MSO) Continued from previous page. Treat fuel accumulations to abate fire risk: (3) Use combinations of thinning trees less than 9 inches in diameter, mechanical fuel treatment and prescribed fire to abate fire risk in the remainder of the selected protected activity center outside the 100-acre "no treatment" area. (4) Retain woody debris larger than 12 inches in diameter, snags, clumps of broad-leaved woody vegetation, and hardwood trees larger than 10 inches in diameter at the root collar. (5) Select and treat additional protected activity centers in 10% increments if monitoring of the initial sample shows there were no negative impacts or there were negative impacts which can be mitigated by modifying treatment methods. (6) Use light prescribed burns in non-selected protected activity centers on a case-by-case basis. Burning should avoid a 100-acre "no treatment" area around the activity center. Large woody debris, snags, clumps of broad-leaved woody vegetation should be retained and hardwood trees larger than 10 inches diameter at the root collar. (7) Pre- and post-treatment monitoring should be conducted in all protected activity centers treated for fire risk abatement (See monitoring guidelines).	1, 11	Replaced	Ecological Response Units; Wildlife, Fish, and Plants	WFP-DC-01, WFP-G-01, WFP-G-03, Associated ERU sections: RMZ; JUG; PJC; PPE; PPF; MCD	<p>Through the revision process, the team sought to develop mechanisms to incorporate existing plan management direction for the Mexican spotted owl (MSO) and old-growth forests. It was incorporated into the revised plan through the development of desired conditions for the relevant set of forest and woodland ecosystems.</p> <p>Additionally, all current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.</p>

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
(MSO) Domestic Livestock Grazing: Implement Forest plan forage utilization standards and guidelines to maintain owl prey availability, maintain potential for beneficial fire while inhibiting potential destructive fire, maintain and restore riparian ecosystems, and promote development of owl habitat. Strive to attain good to excellent range conditions.	1	Replaced	Wildlife, Fish, and Plants; Forest Products	WFP-DC-01, WFP-G-01, WFP-G-03	All current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.
(MSO) Emphasize uneven-aged management systems. However, both even-aged and uneven-aged systems may be used where appropriate to provide variation in existing stand structure and species diversity. Existing stand conditions will determine which system is appropriate.	1	Replaced	Wildlife, Fish, and Plants; Forest Products	WFP-DC-01, WFP-G-01, WFP-G-03	All current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.
(MSO) Encourage prescribed and prescribed natural fire to reduce hazardous fuel accumulation. Thinning from below may be desirable or necessary before burning to reduce ladder fuels and the risk of crown fire.	1	Replaced	Wildlife, Fish, and Plants; Forest Products	WFP-DC-01, WFP-G-01, WFP-G-03	All current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.
(MSO) Establish a protected activity center at all Mexican spotted owl sites located during surveys and all management territories established since 1989.	1	Replaced	Wildlife, Fish, and Plants; Forest Products	WFP-DC-01, WFP-G-01, WFP-G-03	All current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.
(MSO) Extend rotation ages for even-aged stands to greater than 200 years. Silvicultural prescriptions should explicitly state when vegetative manipulation will cease until rotation age is reached.	1	Replaced	Wildlife, Fish, and Plants; Forest Products	WFP-DC-01, WFP-G-01, WFP-G-03	All current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
(MSO) Generally allow continuation of the level of recreation use that was occurring prior to listing.	1	Replaced	Wildlife, Fish, and Plants; Forest Products	WFP-DC-01, WFP-G-01, WFP-G-03	All current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.
(MSO) Habitat monitoring of gross habitat changes should be a collaborative effort of all appropriate resource agencies.	1, 11	Replaced	Wildlife, Fish, and Plants; Forest Products	WFP-DC-01, WFP-G-01, WFP-G-03	All current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy. Additionally, tactics for accomplishing desired conditions, including collaboration, have been incorporated
(MSO) Habitat monitoring of treatment effects (pre- and post-treatment) should be done by the agency conducting the treatment.	1	Replaced	Wildlife, Fish, and Plants; Forest Products	WFP-DC-01, WFP-G-01, WFP-G-03	All current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.
(MSO) Harvest fuelwood when it can be done in such a way that effects on the owl are minimized. Manage within the following limitations to minimize effects on the owl: (1) retain key forest species such as oak, (2) retain key habitat components such as snags and large downed logs, and (3) harvest conifers less than 9 inches in diameter only within those protected activity centers treated to abate fire risk as described below.	1	Replaced	Wildlife, Fish, and Plants; Forest Products	WFP-DC-01, WFP-G-01, WFP-G-03	All current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
(MSO) In pine-oak forests, retain existing large oaks and promote growth of additional large oaks.	1, 11	Replaced	Ecological Response Units; Wildlife, Fish, and Plants	WFP-DC-01, WFP-G-01, WFP-G-03, Associated ERU sections: RMZ; JUG; PJC; PPE; PPF; MCD	<p>Through the revision process, the team sought to develop mechanisms to incorporate existing plan management direction for the Mexican spotted owl (MSO) and old-growth forests. It was incorporated into the revised plan through the development of desired conditions for the relevant set of forest and woodland ecosystems.</p> <p>Additionally, all current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.</p>
(MSO) In protected and restricted areas where silvicultural or fire abatement treatments are planned, monitor treated stands pre- and post-treatment to determine changes and trajectories in fuel levels; snag basal areas; live tree basal areas; volume of down logs over 12 inches in diameter; and basal area of hardwood trees over 10 inches in diameter at the root crown.	1, 11	Replaced	Ecological Response Units; Wildlife, Fish, and Plants	WFP-DC-01, WFP-G-01, WFP-G-03, Associated ERU sections: RMZ; JUG; PJC; PPE; PPF; MCD	<p>Through the revision process, the team sought to develop mechanisms to incorporate existing plan management direction for the Mexican spotted owl (MSO) and old-growth forests. It was incorporated into the revised plan through the development of desired conditions for the relevant set of forest and woodland ecosystems.</p> <p>Additionally, all current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.</p>

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
(MSO) In protected and restricted areas, when activities conducted in conformance with these standards and guidelines may adversely affect other threatened, endangered, or sensitive species or may conflict with other established recovery plans or conservation agreements; consult with the US Fish and Wildlife Service to resolve the conflict.	1	Removed	Wildlife, Fish, and Plants	N/A	The Forest Service is required to consult on federally listed species per law, regulation and policy.
(MSO) Limit human activity in protected activity centers during the breeding season.	1	Replaced	Wildlife, Fish, and Plants; Forest Products	WFP-DC-01, WFP-G-01, WFP-G-03	All current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.
(MSO) Maintain all species of native trees in the landscape including early seral species.	1, 11	Replaced	Ecological Response Units; Wildlife, Fish, and Plants	WFP-DC-01, WFP-G-01, WFP-G-03, Associated ERU sections: RMZ; JUG; PJC; PPE; PPF; MCD	Through the revision process, the team sought to develop mechanisms to incorporate existing plan management direction for the Mexican spotted owl (MSO) and old-growth forests. It was incorporated into the revised plan through the development of desired conditions for the relevant set of forest and woodland ecosystems. Additionally, all current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
(MSO) Mixed Conifer and Pine-oak Forests (See glossary definition): Manage to ensure a sustained level of owl nest/roost habitat well distributed across the landscape. Create replacement owl nest/roost habitat where appropriate while providing a diversity of stand conditions across the landscape to ensure habitat for a diversity of prey species.	1, 11	Replaced	Ecological Response Units; Wildlife, Fish, and Plants	WFP-DC-01, WFP-G-01, WFP-G-03, Associated ERU sections: RMZ; JUG; PJC; PPE; PPF; MCD	Through the revision process, the team sought to develop mechanisms to incorporate existing plan management direction for the Mexican spotted owl (MSO) and old-growth forests. It was incorporated into the revised plan through the development of desired conditions for the relevant set of forest and woodland ecosystems. Additionally, all current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.
(MSO) Monitor changes in owl populations and habitat needed for delisting.	1	Replaced	Wildlife, Fish, and Plants; Forest Products	WFP-DC-01, WFP-G-01, WFP-G-03	All current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
(MSO) Old Growth: Except where otherwise noted, implement forest plan old growth standards and guidelines to maintain and promote development of owl habitat.	1, 11	Replaced	Ecological Response Units; Wildlife, Fish, and Plants	WFP-DC-01, WFP-G-01, WFP-G-03, Associated ERU sections: RMZ; JUG; PJC; PPE; PPF; MCD	Through the revision process, the team sought to develop mechanisms to incorporate existing plan management direction for the Mexican spotted owl (MSO) and old-growth forests. It was incorporated into the revised plan through the development of desired conditions for the relevant set of forest and woodland ecosystems. Additionally, all current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.
(MSO) Protected areas include delineated protected activity centers; mixed conifer and pine-oak forests with slopes greater than 40% where timber harvest has not occurred in the last 20 years; and reserved lands which include wilderness, research natural areas, wild and scenic rivers, and congressionally recognized wilderness study areas.	1	Replaced	Wildlife, Fish, and Plants; Forest Products	WFP-DC-01, WFP-G-01, WFP-G-03	All current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.
(MSO) Provide three levels of habitat management: protected, restricted, and other forest and woodland types to achieve a diversity of habitat conditions across the landscape.	1	Replaced	Wildlife, Fish, and Plants; Forest Products	WFP-DC-01, WFP-G-01, WFP-G-03	All current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
(MSO) Range-wide: Track gross changes in acres of owl habitat resulting from natural and human caused disturbances. Acreage changes in vegetation composition, structure, and density should be tracked, evaluated, and reported. Remote sensing techniques should provide an adequate level of accuracy.	1	Replaced	Wildlife, Fish, and Plants; Forest Products	WFP-DC-01, WFP-G-01, WFP-G-03	All current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.
(MSO) Require bird guides to apply for and obtain a special use permit. A condition of the permit shall be that they obtain a subpermit under the U.S. Fish and Wildlife Service Master endangered species permit. The permit should stipulate the sites, dates, number of visits and maximum group size permissible.	1	Replaced	Wildlife, Fish, and Plants; Forest Products	WFP-DC-01, WFP-G-01, WFP-G-03	All current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.
(MSO) Retain substantive amounts of key habitat components: (1) Snags 18 inches in diameter and larger. (2) Down logs over 12 inches midpoint diameter. (3) Hardwoods for retention, recruitment, and replacement of large hardwoods.	1, 11	Replaced	Ecological Response Units; Wildlife, Fish, and Plants	WFP-DC-01, WFP-G-01, WFP-G-03, Associated ERU sections: RMZ; JUG; PJC; PPE; PPF; MCD	Through the revision process, the team sought to develop mechanisms to incorporate existing plan management direction for the Mexican spotted owl (MSO) and old-growth forests. It was incorporated into the revised plan through the development of desired conditions for the relevant set of forest and woodland ecosystems. Additionally, all current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
(MSO) Road or trail building in protected activity centers should be avoided but may be permitted on a case-by-case basis for pressing management reasons.	1	Replaced	Wildlife, Fish, and Plants; Forest Products	WFP-DC-01, WFP-G-01, WFP-G-03	All current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.
(MSO) Save all trees greater than 24 inches dbh.	1, 11	Replaced	Ecological Response Units; Wildlife, Fish, and Plants	WFP-DC-01, WFP-G-01, WFP-G-03, Associated ERU sections: RMZ; JUG; PJC; PPE; PPF; MCD	Through the revision process, the team sought to develop mechanisms to incorporate existing plan management direction for the Mexican spotted owl (MSO) and old-growth forests. It was incorporated into the revised plan through the development of desired conditions for the relevant set of forest and woodland ecosystems. Additionally, all current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.
(MSO) Survey all potential spotted owl areas including protected, restricted, and other forest and woodland types within an analysis area plus the area ½ mile beyond the perimeter of the proposed treatment area.	1	Replaced	Wildlife, Fish, and Plants; Forest Products	WFP-DC-01, WFP-G-01, WFP-G-03	All current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
(MSO) The following table displays the minimum percentage of restricted area which should be managed to have nest/roost characteristics. The minimum mixed conifer restricted area includes 10% at 170 basal area and an additional amount of area at 150 basal area. The additional area of 150 basal area is +10% in BR-E and +15% in all other recovery units. The variables are for stand averages and are minimum threshold values and must be met simultaneously. In project design, no stands simultaneously meeting or exceeding the minimum threshold values should be reduced below the threshold values unless a district-wide or larger landscape analysis of restricted areas shows that there is a surplus of restricted area acres simultaneously meeting the threshold values. Management should be designed to create minimum threshold conditions on project areas where there is a deficit of stands simultaneously meeting minimum threshold conditions unless the district-wide or larger landscape analysis shows there is a surplus.	1, 11	Replaced	Ecological Response Units; Wildlife, Fish, and Plants	WFP-DC-01, WFP-G-01, WFP-G-03, Associated ERU sections: RMZ; JUG; PJC; PPE; PPF; MCD	<p>Through the revision process, the team sought to develop mechanisms to incorporate existing plan management direction for the Mexican spotted owl (MSO) and old-growth forests. It was incorporated into the revised plan through the development of desired conditions for the relevant set of forest and woodland ecosystems.</p> <p>Additionally, all current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.</p>

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
(MSO) Treat fuel accumulations to abate fire risk: (1) Select for treatment 10% of the protected activity centers where nest sites are known in each recovery unit having high fire risk conditions. Also select another 10% of the protected activity centers where nest sites are known as a paired sample to serve as control areas. (2) Designate a 100-acre "no treatment" area around the known nest site of each selected protected activity center. Habitat in the no treatment area should be as similar as possible in structure and composition as that found in the activity center.	1, 11	Replaced	Ecological Response Units; Wildlife, Fish, and Plants	WFP-DC-01, WFP-G-01, WFP-G-03, Associated ERU sections: RMZ; JUG; PJC; PPE; PPF; MCD	<p>Through the revision process, the team sought to develop mechanisms to incorporate existing plan management direction for the Mexican spotted owl (MSO) and old-growth forests. It was incorporated into the revised plan through the development of desired conditions for the relevant set of forest and woodland ecosystems.</p> <p>Additionally, all current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.</p>
(MSO) Treat fuel accumulations to abate fire risk: (1) Use combinations of thinning trees less than 9 inches in diameter, mechanical fuel removal, and prescribed fire. (2) Retain woody debris larger than 12 inches in diameter, snags, clumps of broad-leaved woody vegetation, and hardwood trees larger than 10 inches in diameter at the root collar. (3) Pre- and post-treatment monitoring should occur within all steep slopes treated for fire risk abatement (See monitoring guidelines).	1, 11	Replaced	Ecological Response Units; Wildlife, Fish, and Plants	WFP-DC-01, WFP-G-01, WFP-G-03, Associated ERU sections: RMZ; JUG; PJC; PPE; PPF; MCD	<p>Through the revision process, the team sought to develop mechanisms to incorporate existing plan management direction for the Mexican spotted owl (MSO) and old-growth forests. It was incorporated into the revised plan through the development of desired conditions for the relevant set of forest and woodland ecosystems.</p> <p>Additionally, all current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.</p>

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
(MSO) Upper Gila Mountain, Basin and Range East, and Basin and Range West Recovery Units: Assist the recovery team and recovery unit working groups to establish sampling units consisting of 19 to 39 square mile quadrants randomly allocated to habitat strata. Quadrats should be defined based on ecological boundaries such as ridgelines and watersheds. Quadrat boundaries should not traverse owl territories. Twenty percent of the quadrats will be replaced each year at random.	1	Replaced	Wildlife, Fish, and Plants; Forest Products	WFP-DC-01, WFP-G-01, WFP-G-03	All current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.
(MSO) Using the sample quadrats, monitor the number of territorial individuals and pairs per quadrat; reproduction; apparent survival; recruitment; and age structure. Track population density both per quadrat and habitat stratum.	1	Replaced	Wildlife, Fish, and Plants; Forest Products	WFP-DC-01, WFP-G-01, WFP-G-03	All current and future recovery plans are incorporated by reference. The Forest Service is required to implement recovery plans by law, regulation and policy.

Invasive Species

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Sanitation and salvage wood sales will be administered as required to control disease and insects and to protect public health and safety.	33	Replaced	Forestry and Forest Products, Invasive Species	FP-MA-01, INS-DC-02	Specific approaches to accomplishing desired conditions have been modified and incorporated in the plan as management approaches.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Insect activity and the conditions favoring insect buildup will be continuously monitored. When conditions warrant, prevention and/or suppression measures will be implemented to prevent their buildup and additional losses to the timber resource.	1, 4	Retained but modified	Invasive Species	INS-MA-04	Specific approaches to accomplishing desired conditions have been modified and incorporated in the plan as management approaches.
Important Forest insects and diseases will be monitored on an annual basis. Where conditions indicate an impending build-up or outbreak is imminent, an evaluation will be conducted in order to formulate management alternatives to reduce loss to an acceptable level.	6, 12	Replaced	Invasive Species	Vegetation, Fire, and Forest Products Monitoring Question M-12	The intent of this direction is supported by the monitoring plan. Presence of invasive species is included as an indicator of progress towards desired conditions.
When pesticides are used, project plans will contain appropriate and necessary monitoring procedures and mitigation measures.	1, 4, 12	Replaced	Invasive Species	INS-G-05	While this language is duplicative of law, regulation, and/or policy the revised plan includes language that design elements to reduce effects from pesticide use is incorporated in project design.
Pesticide proposals will be handled through additional environmental analysis and documentation to ensure project objectivity and public safety.	None	Removed	Invasive Species	N/A	This item is duplicative of law, regulation, and/or policy, therefore it does not need to be repeated in the forest plan.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Use of approved herbicides on a selective basis where brush encroachment is clearly inhibiting forage production for wildlife and domestic livestock. Possible treatment areas will be identified in Allotment Management Plans and will involve areas of limited size and extent where other management practices (i.e., prescribed burning) cannot be effectively or economically utilized to achieve management objectives. Projects of this nature will be subject to environmental assessment and public involvement to insure project objectivity and public safety.	None	Removed	Invasive Species	N/A	This direction is overly prescriptive and does not allow for adaptive management. Allotment management plans, and the associated range NEPA would consider desired conditions of invasive species and ecological response units in project design.

Soils

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Implement and maintain soil resource improvement projects as needed.	20	Retained but modified	Soils; Watersheds and Water Resources; Ecological Response Units; Riparian Areas	ERU-DC-13, WAT-DC-04, RMZ-DC-02, SL-DC-01, WAT-O-03, SL-G-03	The intent is captured within resource desired conditions and objectives for ecological resources. These components incorporate language, and the need for improvement projects, for soils.
Lands which require erosion control measures will be identified, mapped, and cataloged.	20	Replaced	Soils; Watersheds and Water Resources	SL-MA-03, WAT-MA-01	Tactics for identification of areas to prioritize project work are captured within management approaches, which are ideas to implement that could move resources towards desired conditions.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Manage the ground surface layer to maintain satisfactory soil conditions i.e., to minimize soil compaction; and to maintain hydrologic and nutrient cycles.	20	Retained but modified	Soils	SL-G-01, SL-G-02, SL-G-04	While it is not restated word for word, the guidelines in the soils section incorporate the intent of this plan direction to maintain satisfactory soil conditions during project work.
Minimize impacts on soil and water resources from all ground disturbing activities.	20	Retained but modified	Soils; Watersheds and Water Resources	SL-G-01, SL-G-02, SL-G-04, WAT-S-01, WAT-G-06	Standards and guidelines in the soils and watershed sections incorporate language to put sideboards on projects in order to minimize damage to water and soil resources.

Caves and Karsts

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
All surface-disturbing activities planned near or within a known cave area will be examined for potential impacts to the cave(s) and the area around each cave entrance(s), (plus feeder drainages and surface areas immediately over cave passages). The cave area will also be evaluated to determine protection measures needed.	14	Retained but modified	Caves and Karsts	CVK-G-01, CVK-G-03	The intent of this component is captured in the guidelines for the revised plan but incorporates adaptive management language.
Potential impacts to cave resources will be considered in reviewing all proposed Notices of Intent/Plans of Operation. Appropriate land will be withdrawn from mineral entry when necessary to provide cave protection.	None	Removed	Caves and Karsts	N/A	This item is consistent with law, regulation, and policy; therefore, it does not need to be repeated in the forest plan. In the case that projects occur in / around caves, forest resource specialists would consider caves in the associated NEPA analysis.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Protection measures for caves will be incorporated into project planning and may include (but not be limited to) education, seasonal closures, and installation of entrance gates.	14	Retained but modified	Caves and Karsts	CVK-G-01, CVK-G-02, CVK-G-03	The intent of this component is captured in the guidelines for the revised plan but incorporates adaptive management language.
When compatible with identified resource values, research activity within caves will be permitted.	8	Replaced	Caves and Karsts	CVK-MA-04, CVK-MA-05	Tactics for achieving desired conditions, including collaboration and partnerships to conduct research, are included as management approaches in the revised plan.

Air Quality

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Monitor established air quality monitoring site to evaluate current visibility conditions within the Wilderness.	28	Replaced	Air Quality	AQ-MA-03, AQ-MA-04	This direction was replaced to be less specific to wilderness, rather incorporating management approaches that encourage the use of best management practices and monitoring when air quality is impacted.
Management activities will be planned so that air quality will equal to or better than that required by applicable federal, State, and local standards or regulations.	28	Retained but modified	Air Quality	AQ-S-01, AQ-S-02, AQ-G-01, AQ-G-02, AQ-G-03, AQ-G-04	Standards and guidelines for air quality put the sideboards on management activities in order to meet the intent of the 1985 plan direction

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Perform in-depth review of Prevention of Significant Deterioration (PSD) permit applications, to determine the potential effect that increased emissions from the involved major stationary source(s) would have on Air Quality Related Values (AQRV's) on the Superstition, Mazatzal, and/or Sierra Ancha Class 1 areas.	1	Replaced	Air Quality	AQ-MA-03	Tactics to achieving desired conditions are captured as management approaches in the revised forest plan. This specific language was overly specific, but language to utilize best management practiced for Class I areas has been incorporated.
Ecosystem and cultural resources will remain unmodified by air pollutants.	None	Retained	Air Quality	AQ-DC-03	While the language is not exact, this plan direction has been retained in the revised forest plan.

Designated Wilderness Areas

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
A group size limitation of not more than 15 people will be enforced.	None	Retained but modified	Designated Wilderness	DWMA-S-02	The 15-person limit in designated wilderness was retained in the revised plan, but additional adaptive management principles were incorporated to allow flexibility for specific actions.
Completely sign, post, and barricade invasion points along the wilderness boundary and patrol interior wilderness with wilderness ranger.	39	Retained but modified	Designated Wilderness	DWMA-DC-09, DWMA-G-02, DWMA-MA-04	The plan incorporated desired conditions for a well-marked boundary and specific tactics to accomplish desired condition are incorporated as management approaches in the revised plan.
Determine if there is a need for trails within this Management Area to meet wilderness management objectives. Do not add trails to the system unless there is a demonstrated need.	37	Retained but modified	Designated Wilderness	DWMA-G-08	Plan direction in the revised plan focuses on the use of new trails / trail realignment to achieve desired conditions for designated wilderness areas.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Manage wilderness using volunteers and district personnel at the level established in the Wilderness Implementation Plan.	8	Retained but modified	Designated Wilderness	DWMA-MA-05	Collaboration and partnership-based tactics are incorporated in the revised forest plan as management approaches.
Plan direction within multiple management areas to refer to appropriate Wilderness Implementation Plan.	2	Replaced	Designated Wilderness	DWMA-G-01	In the new structure of the forest plan, management for designated wilderness areas are included together, with the respective wilderness implementation plans incorporated by reference.
Do not allow road building. Installation and servicing of equipment will be by helicopter.	1	Replaced	Designated Wilderness	DWMA-S-05	While portions of this component are duplicative of law, regulation, and policy, the intent remains in the forest plan, but has been modified to be more adaptive to approaches for accomplishing project work, requiring a minimum requirements analysis.
Remove unneeded nonconforming facilities on a preplanned scheduled.	37	Retained	Designated Wilderness	DWMA-S-04	While it is not word-for-word in the revised plan, this direction has been retained.
Emphasize a wilderness management program which is interdisciplinary in approach, and which is directed towards achieving the intent of the Wilderness Act of 1964 and FSM 2320.	1	Replaced	Designated Wilderness	DWMA-S-01, SWMA-S-5	While portions of this component are duplicative of law, regulation, and policy, the intent remains in the forest plan, with a requirement to complete a minimum requirements analysis, which in an interdisciplinary review of new activities within designated wilderness.

Designated Wild and Scenic Rivers

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Wildland Fire will be managed consistent with Wild River Area resource objectives. In Wild River Areas, natural Wildland Fire may be allowed to resume its ecological role in reducing unnatural fuel hazards as identified in the Forest Service Manual and Wild River management policies.	4	Replaced	Designated Wild and Scenic Rivers	DWSRMA-S-01	Plan direction was updated to be more adaptive to approaches for maintaining the free-flowing condition, classification, and outstandingly remarkable values of designed wild and scenic rivers during management activities.
The Verde Wild and Scenic River Comprehensive River Management Plan (CRMP) provides detailed direction for the entire Verde Wild and Scenic River. Standards from the CRMP applicable to the Scenic portion of the Verde River are hereby incorporated into this Forest Plan.	None	Replaced	Designated Wild and Scenic Rivers	DWSRMA-MA-01	The CRMPs for the Verde Wild and Scenic River and Fossil Creek Wild and Scenic River are both incorporated by reference in the revised forest plan.
Manage the East Verde River and Tonto Creek to assure that their river recreation attributes are maintained.	53	Replaced	Eligible Wild and Scenic Rivers	EWSRMA-S-01	East Verde River and Tonto Creek are both identified as eligible wild and scenic rivers and management activities within these areas shall maintain or enhance the characteristics for eligibility.
Initiate and complete evaluation of upper Tonto Creek and East Verde for Wild and Scenic River designation as directed by Congress.	53	Removed	Eligible Wild and Scenic Rivers	N/A	East Verde River and Tonto Creek are both identified as eligible wild and scenic rivers as part of the 2012 planning rule and will be managed as eligible until a designated or determined not suitable.
Work cooperatively with the Coconino and Prescott National Forests to protect and enhance the specific outstandingly remarkable values within the designated Wild and Scenic segments of the Verde River. Protect its free-flowing condition and water quality.	9	Retained but modified	Designated Wild and Scenic Rivers	DWSRMA-MA-02	Specific tactics for cooperating with neighboring forests have been incorporated as management approaches in the revised forest plan.

Other Designated Areas

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Continue existing management of wild burro area. Utilize biannual administrative check of burros to determine herd size, herd health, and extend of home range. Herd size objective will be 15 animals over their entire established range. Capture activities will not be initiated until inventories indicate a herd size of 25 animals. Excess animals will be removed in accordance with 36 CFR 222.29. Manage historic range identified in this plan to assure habitat and forage requirements for identified size herd are met in all resource activity objectives. Home range expansion will be monitored to prevent intrusion and conflicts in bighorn sheep habitat.	54	Replaced	Saguaro Wild Burro Management Area	SWBMA-S-01	Burros have not been known to be present in the territory since the early 1990s. The territory is not currently occupied and plan direction for this area is to manage it for zero burros, as is the current condition.
All Wildland Fires are to be excluded from the research natural area. All Wildland Fires which threaten the research natural area will receive an appropriate suppression response.	1, 18	Replaced	Designated and Recommended Research Natural Areas and Botanical Areas	RNBAMA-G-01, RNBAMA-G-03	This plan direction has been replaced, recognizing that wildland fire may improve ecosystem function, and is designed to move areas towards their natural fire regime and meet management objectives. In any case, fire would be managed within these areas to protect the resources for which they are designated or recommended.

1985 Plan Direction	Need for Change or Statement Number(s)	Action Taken	2021 Plan Topic(s)	2021 Plan Direction or Other Plan Content	Rationale
Wildfires outside the natural area, which endanger the area, will be extinguished as quickly as possible, as will person-caused fires within the area. Unplanned ignitions within the area will receive appropriate suppression action.	1, 18	Replaced	Designated and Recommended Research Natural Areas and Botanical Areas	RNBAMA-G-01, RNBAMA-G-03	This plan direction has been replaced, recognizing that wildland fire may improve ecosystem function, and is designed to move areas towards their natural fire regime and meet management objectives. In any case, fire would be managed within these areas to protect the resources for which they are designated or recommended.