

**Forest Service Manual
National Headquarters - Washington Office
Washington, DC**

**Forest Service Manual 2600 – Wildlife, Fish, And Sensitive Plant Habitat Management
Chapter 2670 - Threatened, Endangered and Sensitive Plants and Animals**

Amendment: 2600-1990-1

Effective date: June 01, 1990

Duration: This amendment is effective until superseded or removed.

Approved by: F Dale Robertson, Chief

Date approved:

Responsible Staff:

Last Change: Amendment 59, February 14, 1990

Superseded Document(s): 2600-1 thru 2676.17c (entire title except ID's); Amendment 48, June 1984; Amendment 50, January 1986; Amendment 51, March 1986; Amendment 52, October 1986; Amendment 54, March 1987; Amendment 55, June 1987; Amendment 56, April 1988; Amendment 57, July 1989; Amendment 58, October 1989; Amendment 59, February 14, 1990

Digest: Following is an explanation of the changes throughout the directive by section

NEW POSTING NOTICE: This amendment is the first in a new numbering series corresponding to the year in which material was amended. Since this amendment replaces all text except Interim Directives (ID), do not check for the last transmittal received for this title. Replace the entire title text except ID's. Place this transmittal sheet at the front of the title and retain until the first transmittal of the next calendar year is received.

2600: Please read the new posting notice carefully. These directions apply to this transmittal only.

Entire text, except ID's, is replaced. New text corresponds with text located in the National Information Center.

The electronic document names are shown above for ease in accessing them from the National Information Center.

Forest Service Manual 2600 – Wildlife, Fish, And Sensitive Plant Habitat Management

Chapter 2670 - Threatened, Endangered and Sensitive Plants and Animals

Amendment: 2600-1990-1

Effective date: June 01, 1990

Direction has not been changed. Some minor typographical and technical errors were corrected.

Amendment numbers and dates noted above are listed for historical purposes only.

All subsequent amendments will be issued by document.

Forest Service Manual 2600 – Wildlife, Fish, And Sensitive Plant Habitat Management
Chapter 2670 - Threatened, Endangered and Sensitive Plants and Animals
Amendment: 2600-1990-1
Effective date: June 01, 1990
2672.24a - Exhibit 1--Continued

PROPOSED, ENDANGERED, THREATENED AND CATEGORY PLANT SPECIES OCCURRING ON LAND ADMINISTERED BY NFS											
SPECIES SCIENTIFIC NAME/ COMMON NAME	1/ STATUS	2/ RECV PLAN	3/ LEAD REGION	4/ REGION	5/ RECVRY UNIT OF MEASURE	6/ 1983 OBJECT	7/ 1988 HABITAT	7/ 1988 POPULAT	8/ HABITAT	8/ POPULAT	
Sambucus racemosa RED-BERRIED ELDERBERRY	S	NO	08	LEAD							
Sanicula tracyi TRACY'S SANICULA	C2	NO	05	LEAD							
Sanquisorba canadensis CANADA BURNET	S	NO	08	LEAD							
Sarracenia prittacina PARROT PITCHER PLANT	C3C	NO	08	LEAD							
Sarracenia purpurea PURPLE PITCHER PLANT	S	NO	08	LEAD							
Sarracenia rubra ssp. wherryi WHERRY'S PITCHER PLANT	C2	NO	08	LEAD							
Satureja chandleri SAN MIGUEL SAVORY	C2	NO	05	LEAD							
Saussurea webberii	C3C	NO	04	LEAD							
Saxifraga adscendens var. oregonensis	S	NO	04	LEAD							
Saxifraga bryophora var. tobiasiae	S	NO	04	LEAD							
Saxifraga careyana saxifrage GOLDEN-EYE SAXIFRAGE, DWARF	C2	NO	08	LEAD							
Saxifraga caroliniana CAROLINA SAXIFRAGE	C2	NO	08	LEAD							
Saxifraga cernua	S	NO	04	LEAD							
Saxifraga hitchcockiana	C2	NO	06	LEAD							
Saxifraga tolmiei var. ledifolia	S	NO	04	LEAD							

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PROPOSED, ENDANGERED, THREATENED AND CATEGORY PLANT SPECIES
OCCURRING ON LAND ADMINISTERED BY NFS

SPECIES SCIENTIFIC NAME/ COMMON NAME	1/ STATUS	2/ RECV PLAN	3/ LEAD REGION	4/ REGION	5/ RECVRY UNIT OF MEASURE	6/ 1983 OBJECT	7/ 1988 HABITAT	7/ 1988 POPULAT	8/ HABITAT	8/ POPULAT
Schisandra glabra MAGNOLIA VINE	C3C	NO	08	LEAD						
Schwalbea americana CHAFFSEED	C2	NO	08	LEAD						
Scirpus ancistrochaetus NORTHEASTERN BULRUSH, BULRUSH	C2	NO	08	LEAD						
Scirpus cespitosus DEER-HAIR BULLRUSH	S	NO	08	LEAD						
Sclerocactus polyancistrus MOJAVE FISH-HOOK CACTUS	C3C	NO	05	LEAD						
Sclerocactus pubispinus GREAT BASIN FISHHOOK CACTUS	C3C	NO	04	LEAD						
Sclerocactus wrightiae WRIGHT FISHOOK CACTUS	E	NO	04	LEAD		0	0	0		
Scrophularia macranthra MIMBRES FIGWORT	C1	NO	03	LEAD	NUMBER OF COLONIES	0	0	0		
Scutellari saxatilis ROCK SKULLCAP	S	NO	08	LEAD						
Sedum albomarginatum FEATHER RIVER STONECROP	C2	NO	05	LEAD						
Sedum laxum flavidum PALE YELLOW STONECROP	C2	NO	05	LEAD						
Sedum moranii	C2	NO	06	LEAD						
Sedum nevii NEVIUS' STONECROP	C2	NO	08	LEAD						
Sedum obtusatum paradisum CANYON CREEK STONECROP	C2	NO	05	LEAD						
Sedum rosea ROSEROOT, ROAN MTN. ROSEROOT	C2	NO	08	LEAD						

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Selaginela riddellii SPIKEMOSS	S	NO	08	LEAD						
Senecio bernardinus SAN BERNARDINO BUTTERWEED	C2	NO	05	LEAD						
Senecio dimorphophyllus var. intermedius INTERMEDIATE GROUNDSEL	C2	NO	04	LEAD						
Senecio eurycephalus lewisrosei FEATHER RIVER CYN BUTTERWEED	S	NO	05	LEAD						
Senecio fransiscanus INTERMEDIATE GROUNDSEL	C2	NO	02							
Senecio fransiscanus SAN FRANCISCO PEAKS GROUNDSEL	T	NO	03	LEAD	ACRES OF OCCUPIED HABITAT	0	0	0		
Senecio ganderi GANDER'S BUTTERWEED	C2	NO	05	LEAD						
Senecio hesperius	C2	NO	06	LEAD						
Senecio huachucanus GROUNDSEL, HUACHUCA	C1	NO	03	LEAD	NUMBER OF COLONIES	0	0	0		
Senecio layneae LAYNE'S BUTTERWEED	C2	NO	05	LEAD						
Senecio millefolium DIVIDED LEAF GROUNDSEL	C3C	NO	08	LEAD						
Senecio millifolium DIVIDED-LEAF GROUNDSEL	S	NO	08	LEAD						
Senecio quaerens GROUNDSEL, GILA	C2	NO	03	LEAD	NUMBER OF POPULATIONS	0	0	0		
Senecio schweinitzianus ROBBINS SQUAW-WEED	S	NO	08	LEAD						
Shortia galacifolia MILKY LEAF, OCONEE BELLS	C2	NO	08	LEAD						

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Sibara grisea GRAY SIBARA	C2	NO	03	LEAD	NUMBER OF POPULATIONS	0	0	0		
Sidalcea hickmanii anomala CUESTA PASS CHECKER MALLOW	C2	NO	05	LEAD						
Sidalcea hickmanii hickmanii HICKMAN'S CHECKER MALLOW	C2	NO	05	LEAD						
Sidalcea hickmanii parishii PARISH'S CHECKER MALLOW	C2	NO	05	LEAD						
Sidalcea oregana	C2	NO	06	LEAD						
Sidalcea pedata MALLOW, PEDATA SIDALCEA	E	NO	05	LEAD	ACRES OF OCCUPIED HABITAT	0	0	0		
Silene clokeyi CLOKEY SILENE	C2	NO	04	LEAD						
Silene douglasii oraria	C2	NO	06	LEAD						
Silene invisa SHORT-PETALLED SILENE	C3C	NO	04	LEAD						
Silene marmorensis MARBLE MTNS. CATCHFLY	C2	NO	05	LEAD						
Silene nachlingerae NACHLINGER SILENE	S	NO	04	LEAD						
Silene ovata CATCH-FLY	S	NO	08	LEAD						
Silene ovata OVATE-LEAVED CATCH FLY	S	NO	08	LEAD						
Silene petersonii PLATEAU CATCHFLY	C2	NO	04	LEAD						
Silene rectiramea	C2	NO	03	LEAD	NUMBER OF POPULATIONS	0	0	0		

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Silene regia ROYAL CATCHFLY	C2	NO	09	LEAD						
Silene scaposa var. scaposa	C2	NO	06	LEAD						
Silene seelyi	C2	NO	06	LEAD						
Silene spaldingii SPALDING SILENE	C2	NO	04	LEAD						
Silene spaldingii	C2	NO	06	LEAD						
Sisyrinchium sarmentosum	C2	NO	06	LEAD						
Sium suave HEMLOCK WATER PARSNIP	S	NO	08	LEAD						
Smilacina racemosa FALSE SOLOMON SEAL	S	NO	08	LEAD						
Solanum tenuilobatum NARROW-LEAVED NIGHTSHADE	C2	NO	05	LEAD						
Solanum woodburyi	C2	NO	08	LEAD						
Solidago albopilosa GOLDENROD, WHITEHAIED	P	NO	08	LEAD						
Solidago auriculata EARED GOLDENROD	S	NO	08	LEAD						
Solidago houghtonii GOLDENROD, HOUGHTON'S	P	NO	09	LEAD						
Solidago roanensis ROAN MOUNTAIN GOLDENROD	S	NO	08	LEAD						
Solidago spathulata GOLDENROD, STICKY GOLDENROD	S	NO	08	LEAD						

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Solidago spithamaea GOLDENROD, BLUE RIDGE	T	NO	08	LEAD		0	0	0		
Solidago verna GOLDENROD, SPRING FLOWERING	C2	NO	08	LEAD						
Sophora gypsophila guadalupensis GUADALUPE MT MESCAL BEAN	C2	NO	03	LEAD	POPULATION DENSITY	0	0	0		
Sophora leachiana	C2	NO	06	LEAD						
Sphaeralcea caespitosa JONES GLOBE MALLOW	C2	NO	04	LEAD						
Sphaeromeria capitata	S	NO	04	LEAD						
Sphaeromeria compacta LOW SAGEBRUSH	C1	NO	04	LEAD						
Spiraea virginiana SPIREA, VIRGINIA	C2	NO	09	LEAD						
Spiranthes longilabris GIANT SPIRAL ORCHID	S	NO	08	LEAD						
Spiranthes lucida WIDE-LEAVED LADIES TRESSES	S	NO	08	LEAD						
Sporobolus heterlepis PRAIRIE DROPSEE, NORTHERN	S	NO	08	LEAD						
Sporobolus ozarkanus BALD GRASS	C2	NO	09	LEAD						
Stachys clingmanii HEDGE-NETTLE	S	NO	08	LEAD						
Stachys eplingii STACHYS HEDGE-NETTLE	S	NO	08	LEAD						
Stenanthium gramineum EASTERN FEATHERBELLS	S	NO	08	LEAD						

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Stewartia malacodendron SILKY CAMELLIA	S	NO	08	LEAD						
Stewartia ovata MOUNTAIN CAMELLIA	S	NO	08	LEAD						
Stipa pinetorum PINE NEEDLEGRASS	S	NO	04	LEAD						
Stipa viridula GREEN NEEDLEGRASS	S	NO	04	LEAD						
Stoeptopus amplexifolius WHITE MANDARIN	S	NO	08	LEAD						
Streptanthus bernardinus LAGUNA MTS. JEWELFLOWER	C3C	NO	05	LEAD						
Streptanthus cordatus plutensis PIUTE MTS. JEWELFLOWER	C2	NO	05	LEAD						
Streptanthus fenestratus TEHIPITE VALLEY JEWELFLOWER	C3C	NO	05	LEAD						
Streptanthus howellii HOWELL'S JEWELFLOWER	C2	NO	05	LEAD						
Streptanthus howellii HOWELL'S JEWELFLOWER	C2	NO	06							
Streptanthus lemmonii LEMMON'S JEWELFLOWER	C2	NO	03	LEAD	POPULATION DENSITY	0	0	0		
Streptanthus obtusifolius TWIST FLOWER	S	NO	08	LEAD						
Streptanthus oliganthus FEW-FLOWERED STREPTANTHUS	C3C	NO	01							
Streptanthus oliganthus FEW-FLOWERED STREPTANTHUS	C3C	NO	04	LEAD						
Streptanthus oliganthus FEW-FLOWERED STREPTANTHUS	C3C	NO	05							

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Streptanthus sparsiflorus SPARSELY-FLOWERED JEWELFLOWER	C2	NO	03	LEAD	NUMBER OF COLONIES	0	0	0		
Streptanthus squamiformis PRAIRIE TWISTFLOWER	C2	NO	08	LEAD						
Streptopus roseus TWISTED-STALK	S	NO	08	LEAD						
Styrax portoricensis PALO DE JAZMIN	C1	NO	08	LEAD						
Sullivantia oregana	C2	NO	06	LEAD						
Sullivantia renifolia KIDNEY-LEAVED SULLIVANTIA	C2	NO	09	LEAD						
Sweetia carolinensis AMERICAN COLUMBO	S	NO	08	LEAD						
Synandra hispidula GYANDOTTE BEAUTY	C2	NO	08	LEAD						
Synandra hispidula HAIRY SYNANDRA	C2	NO	09	LEAD						
Synthyris missurica hirsuta	C2	NO	06	LEAD						
Synthyris ranuncululina CHARLESTON KITTENTAILS	C1	NO	04	LEAD						
Taenidia montana VIRGINIA MOUNTAIN PIMPERNEL	C2	NO	09	LEAD						
Talinum humile	C2	NO	03	LEAD						
Talinum marginatum	C2	NO	03	LEAD	NUMBER OF COLONIES	0	0	0		
Talinum validulum	C2	NO	03	LEAD	NUMBER OF COLONIES	0	0	0		

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Taraxacum californicum CALIFORNIA DANDELION	C1	NO	05	LEAD						
Tauschia howellii HOWELL'S TAUSCHIA	C2	NO	05	LEAD						
Tauschia howellii HOWELL'S TAUSCHIA	C2	NO	06							
Taxus canadensis CANADA YEW	S	NO	08	LEAD						
Tephrosia mohrii PINELAND HOARY PEA	C2	NO	08	LEAD						
Ternstroemia heptasepala	S	NO	08	LEAD						
Ternstroemia luquillensis PALO COLORADO	C1	NO	08	LEAD						
Ternstroemia subsessilis	C1	NO	08	LEAD						
Thalictrum heliophilum	C2	NO	02	LEAD						
Thelypodium eucosmum	C2	NO	06	LEAD						
Thelypodium repandum REPAND THELYPODY	C1	NO	04	LEAD	No. of Populations	0	2	2	2	2
Thelypodium stenopetalum MUSTARD, SLENDER-PETALED	E	NO	05	LEAD	POPULATION DENSITY	0	0	0		
Thelypteris noveboracensis NEW YORK FERN	S	NO	08	LEAD						
Thelypteris pilosa alabamensis ALABAMA STREAK - SORUS FERN	C2	NO	08	LEAD						
Thermopsis fraxinifolia BUSHPOEA	S	NO	08	LEAD						

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Thermopsis macrophylla agnina SANTA BARBARA FALSE LUPINE	C2	NO	05	LEAD						
Thlaspi aileeniae AILEEN PENNYCRESS	C2	NO	04	LEAD						
Thlaspi arcticum	C2	NO	10	LEAD		0	0	0		
Thlaspi montanum californicum CALIFORNIA PENNY CRESS	C2	NO	05	LEAD						
Thlaspi montanum siskiyouense	C2	NO	06	LEAD						
Tofieldia glutinosa	C3C	NO	04	LEAD						
Towsendia jonesii var. tumulosa CHARLESTON GROUND DAISY	C2	NO	04	LEAD						
Towsendii aprica LAST CHANCE TOWSENDII	E	NO	04	LEAD	No. of Populations	0	.5	1	.5	1
Tracyina rostrata BEAKED TRACYINA	C2	NO	05	LEAD						
Tradescantia ozarkana SPIDERWORT	C2	NO	09	LEAD						
Trichomanes bocchianum BRISTLE FERN	S	NO	08	LEAD						
Trichomanes petersii DWARF FILMY FERN	S	NO	08	LEAD						
Trientalis borealis TRIENTALIS,PIEDMONT STRAWBERRY	S	NO	08	LEAD						
Trifolium bolanderi BOLANDER'S CLOVER	C2	NO	05	LEAD						
Trifolium dedeckerae DEDECKER'S CLOVER	C3C	NO	05	LEAD						

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Trifolium stoloniferum CLOVER, RUNNING BUFFALO	E	NO	09	LEAD						
Trifolium thompsonii	C2	NO	06	LEAD						
Trifolium virginicum CLOVER, KATE'S MOUNTAIN	C2	NO	08							
Trifolium virginicum CLOVER, KATE'S MOUNTAIN	C2	NO	09	LEAD						
Trillium decumbens DECUMBENT TRILLIUM	S	NO	08	LEAD						
Trillium flexipes WHTE TRILLIUM,WHILE WADE ROBIN	S	NO	08	LEAD						
Trillium foetidissimum TRILLIUM, FOETID TRILLIUM	S	NO	08	LEAD						
Trillium ovatum oettingeri SALMON MTS. WAKE ROBIN	C3C	NO	05	LEAD						
Trillium persistence TRILLIUM, PERSISTENT	E	YES	08	LEAD		0	0	0		
Trillium pusillum DWARF TRILLIUM, LEAST TRILLIUM	C2	NO	08	LEAD						
Trillium pusillum monticulum TRILLIUM, WEST VIRGINIA	C2	NO	09	LEAD						
Trillium pusillum ozarkanum TRILLIUM, LEAST	C2	NO	08	LEAD						
Trillium pusillum ozarkanum TRILLIUM, LEAST	C2	NO	09							
Triphora trianthophora THREE-BIRD'S ORCHID	S	NO	08	LEAD						
Tumamoca macdougalii GLOBEBERRY, TUMAMOCA	E	NO	03	LEAD	NUMBER OF COLONIES	0	0	0		

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Urera chlorocarpa	S	NO	08	LEAD							
Utricularia olivacea DWARF BLADDERWORT	S	NO	08	LEAD							
Utricularia purpurea PURPLE BLADDERWORT	S	NO	08	LEAD							
Uvularia perfoliata PERFOLIATE BELLWORT	S	NO	08	LEAD							
Vaccinium macrocarpon LARGE CRANBERRY	S	NO	08	LEAD							
Vauquelinia pauciflora FEW-FLOWERED ROSEWOOD	C1	NO	03	LEAD	POPULATION DENSITY		0	0	0		
Veratrum woodii FALSE HELLEBORE	C3C	NO	08	LEAD							
Verbesina chapmanii CROWNBEARD, CHAPMAN'S	C2	NO	08	LEAD							
Verbesina heterophylla CROWNBEARD	C1	NO	08	LEAD							
Vicia ocalensis OCALA VETCH	C1	NO	08	LEAD							
Viola lanceolata occidentalis WESTERN BOG VIOLET	C3C	NO	05	LEAD							
Viola novae-angliae VIOLET, NEW ENGLAND	C2	NO	09	LEAD							
Viola purpurpea var. charlestonensis CHARLESTON MTN. VIOLA	C3C	NO	04	LEAD							
Waldsteinia fragaroides BARREN STRAWBERRY	S	NO	08	LEAD							
Waldsteinia lobata WALDSTEINIA, PIEDMONT STRAWBER	C2	NO	08	LEAD							

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PROPOSED, ENDANGERED, THREATENED AND CATEGORY PLANT SPECIES
OCCURRING ON LAND ADMINISTERED BY NFS

SPECIES SCIENTIFIC NAME/ COMMON NAME	1/ STATUS	2/ RECV PLAN	3/ LEAD REGION	4/ REGION	5/ RECVRY UNIT OF MEASURE	6/ 1983 OBJECT	7/ 1988 HABITAT	7/ 1988 POPULAT	8/ HABITAT	8/ POPULAT
Woodsia oregana cathcartiana OREGON WOODSIA	C2	NO	09	LEAD						
Woodsia scopulina, var. Appalachiana ALLEGHENY CLIFF-FERN	S	NO	08	LEAD						
Xerophyllum asphodeloides TURKEY-BEARD,MOUNTAIN ASPHODEL	S	NO	08	LEAD						
Xylosma schwaneckeanum ORTIGA	S	NO	08	LEAD						
Xyris drummondii DRUMMOND'S YELLOW-EYED GRASS	C2	NO	08	LEAD						
Xyris longisepala KRAL'S YELLOW-EYED GRASS	C3C	NO	08	LEAD						
Xyris scabrifolia HARPER'S YELLOW-EYED GRASS	C2	NO	08	LEAD						
Zigadenus glaucus WHITE CAMUS, WHITE DEATH-DAMUS	S	NO	08	LEAD						
eriogonum pendulum WALDO BUCKWHEAT	C3C	NO	05	LEAD						

1/ **FED STAT=Federal Status:** E=Endangered; T=Threatened; P=Proposed; T/E=Threatened or endangered depending on location (bald eagle occurs but is not listed in R-10, it is threatened in OR, WA, WI, MI and MN; endangered in other states); C1=Category 1; C2=Category 2; C3=Category 3; S=Sensitive (FSM 2670.5).

2/ Recovery Plan (FSM 2672.2).

3/ Forest Service Regions

4/ Forest Service (FS) Region functions as the key coordinator of recovery management between the Washington Office Wildlife and Fisheries Staff, involved FS Units, FWS, or NMFS and other involved agencies and persons (FSM 2676.2).

5/ The estimated FS share of identifiable "Recovery Increments" (units) of a given Recovery Objective or management strategy.

Population Density: Population size (number) in relation to the described habitat occupied by the species or managed for the species on lands administered by the National Forest System (NFS).

Number of Mortalities: Number of preventable mortalities, with a management objective of zero; does not include legalized hunting or incidents outside of NFS management control.

Forest Service Manual 2600 – Wildlife, Fish, And Sensitive Plant Habitat Management
Chapter 2670 - Threatened, Endangered and Sensitive Plants and Animals
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2672.24a - Exhibit 1--Continued

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Number of Acres: Acres managed under grizzly management situations as defined in the Interagency Grizzly Bear Guidelines.

Habitat Capability: Habitat capability, expressed in numbers of grizzly bears by ecosystem, and by National Forests within ecosystems; pending completion of the habitat component mapping and model development linking bear populations with habitat capability.

Number of Populations: The number of individuals of the same species occupying a given habitat within NFS lands.

Number of Colonies: The number of distinguishable, localized individual groups (colonies) of the same species within given habitat(s) on NFS lands.

Number of Breeding Pairs: The number of apparent breeding (mating) pairs within given habitat(s) on NFS lands.

Number of Streams: Refers to the number of streams on NFS lands which are managed as habitat for a given species.

Acres of Occupied Habitat: Refers to the acres of habitat occupied by a given species or colony.

- 6/ Estimate of FS share of recovery objectives or management responsibilities in "Units of Measure (5/)." Objectives are established in cooperation with States, FWS, and NMFS. They are subject to revision as better information becomes available and recovery plans are developed or amended.
- 7/ **1983 Habitat/Population:** The 1983 Unit of Measure (estimated FS share of recovery increments for a given recovery objective) of habitat or population. Intended as a tool to compare habitat population trends between 1983 and succeeding years.
- 8/ **Current habitat and/or population** status of recovery in "Units of Measure."