

**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**Duration:** This amendment is effective until superseded or removed.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**Superseded Document(s):** 2600-1 thru 2676.17c (entire title except ID's); Amendment 48, June 1984; Amendment 50, January 1986; Amendment 51, March 1986; Amendment 52,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	7/ 1983 OBJECT	7/ 1988 HABITAT	8/ 1988 POPULAT	8/ HABITAT	POPULAT
Equisetum arvense FIELD HORSETAIL	S	NO	08	LEAD							
Equisetum sylvaticum WOODLAND HORSETAIL	S	NO	08	LEAD							
Eriastrum brandegeae BRANDEGEE'S ERIASTRUM	C2	NO	05	LEAD							
Eriastrum densifolium sanctorum SANTA ANA WOOLLY STAR	E	NO	05	LEAD							
Eriastrum tracyi TRACY'S ERIASTRUM	C2	NO	05	LEAD							
Erigeron aequifolius HALL'S DAISY	C2	NO	05	LEAD							
Erigeron chrysopsidis	C2	NO	06	LEAD							
Erigeron chrysopsidis brevifolius	C2	NO	06	LEAD							
Erigeron cronquistii CRONQUIST DAISY	C2	NO	04	LEAD							
Erigeron flexuosus TRINITY ALPS DAISY	C2	NO	05	LEAD							
Erigeron hessii FLEABANE, HESS'S	C2	NO	03	LEAD	NUMBER OF COLONIES	0		0	0		
Erigeron howellii	C2	NO	06	LEAD							

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

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Erigeron kachiensis CAVE DAISY	C2	NO	04	LEAD							
Erigeron kuschei FLEABANE, KUSCH'S	C1	NO	03	LEAD	NUMBER OF COLONIES	0		0	0		
Erigeron latus BROAD FLEABANE	C2	NO	04	LEAD	Erigeron lemmonii						
FLEABANE, LEMMON'S	C2	NO	03	LEAD	NUMBER OF COLONIES	0		0	0		
Erigeron mancus LASAL DAISY	C2	NO	04	LEAD							
Erigeron multiceps KERN RIVER DAISY	C2	NO	05	LEAD							
Erigeron parishii PARISH'S DAISY	C2	NO	05	LEAD							
Erigeron pringlei FLEABANE, PRINGLE'S	C2	NO	03	LEAD	NUMBER OF POPULATIONS	0		0	0		
Erigeron proselyticus CLIFF DAISY	C3C	NO	04	LEAD							
Erigeron radicans	S	NO	04	LEAD							
Erigeron rhizomatus FLEABANE, RHIZOME	T	NO	03	LEAD	NUMBER OF COLONIES	0		0	0		
Erigeron untermannii UNTERMANN DAISY	C2	NO	04	LEAD							
Eriocaulon kornickianum SMALL-HEADED PIPEWORT	C2	NO	08	LEAD							
Eriocaulon texense TEXAS PIPEWORT	S	NO	08	LEAD							

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  
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Eriogonum alpinum TRINITY BUCKWHEAT	C3C	NO	05	LEAD							
Eriogonum ammophilum SAND-LOVING BUCKWHEAT	C1	NO	04	LEAD							
Eriogonum ampullaceum MONO BUCKWHEAT	C2	NO	05	LEAD							
Eriogonum aretioides WIDTSOE BUCKWHEAT	C2	NO	04	LEAD							
Eriogonum birtellum KLAMATH MTNS. BUCKWHEAT	C3C	NO	05	LEAD							
Eriogonum breedlovei breedlovei BREEDLOVE'S BUCKWHEAT	C2	NO	05	LEAD							
Eriogonum breedlovei shevockii SHEVOCK'S BUCKWHEAT	C2	NO	05	LEAD							
Eriogonum butterworthianum BUTTERWORTH'S BUCKWHEAT	C2	NO	05	LEAD							
Eriogonum capillare	C2	NO	03	LEAD	NUMBER OF COLONIES	0	0	0			
Eriogonum eremicum LIMESTONE BUCKWHEAT	C3C	NO	04	LEAD							
Eriogonum holmgrenii HOLMGREN BUCKWHEAT	C2	NO	04	LEAD							
Eriogonum kelloggii KELLOGG'S BUCKWHEAT	C1	NO	05	LEAD							
Eriogonum kennedyi austromontanum SOUTHERN MTS. BUCKWHEAT	C2	NO	05	LEAD							
Eriogonum loganum LOGAN BUCKWHEAT	C3C	NO	04	LEAD							

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

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Eriogonum longifolium BUCKWHEAT, LONG-LEAVED WILD	C2	NO	08	LEAD						
Eriogonum meledonum	S	NO	04	LEAD						
Eriogonum microthecum johnstonii JOHNSTON'S BUCKWHEAT	C2	NO	05	LEAD						
Eriogonum multiflorum MANY-FLOWERED WILD BUCKWHEAT	S	NO	08	LEAD						
Eriogonum nervulosum SNOW MTN. BUCKWHEAT	C2	NO	05	LEAD						
Eriogonum ostlundii OSTLUND BUCKWHEAT	C3C	NO	04	LEAD						
Eriogonum ovalifolium vineum CUSHENBURY BUCKWHEAT	C1	NO	05	LEAD						
Eriogonum prociduum PROSTRATE BUCKWHEAT	C2	NO	05	LEAD						
Eriogonum prociduum PROSTRATE BUCKWHEAT	C2	NO	06							
Eriogonum ripleyi BUCKWHEAT, RIPLEY'S WILD	C2	NO	03	LEAD	NUMBER OF COLONIES	0	0	0		
Eriogonum scopulorum	C2	NO	06	LEAD						
Eriogonum twisselmannii TWISSELMANN'S BUCKWHEAT	C1	NO	05	LEAD						
Eriogonum umbellatum torreyanum DONNER PASS BUCKWHEAT	C3C	NO	05	LEAD						
Eriogonum wrightii olanchense OLANCHA PEAK BUCKWHEAT	C2	NO	05	LEAD						

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Chapter 2670 - Threatened, Endangered and Sensitive Plants and Animals  
Amendment: 2600-1990-1  
Effective date: June 01, 1990  
2672.24a - Exhibit 1--Continued

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Eriophyllum congdonii CONGDON ERIOPHYLLUM	C3C	NO	05	LEAD						
Eriophyllum lanatum hallii FT. TETON WOOLLY SUNFLOWER	C2	NO	05	LEAD						
Eriophyllum nubigenum YOSEMITE ERIOPHYLLUM	C2	NO	05	LEAD						
Eryngium mathiasiae MATHIAS COYOTE-THISTLE	C2	NO	05	LEAD						
Erysimum capitatum WALLFLOWER, WESTERN	E	NO	08	LEAD						
Erythronium elegans	C2	NO	06	LEAD						
Erythronium grandiflorum pusaterii KAWEAH FAWN-LILY	C3C	NO	05	LEAD						
Erythronium tuolumnense TUOLUMNE FAWN-LILY	C2	NO	05	LEAD						
Eschscholzia procera KERNVILLE CALIF. POPPY	C2	NO	05	LEAD						
Eugenia eggersii GUASAVARA	S	NO	08	LEAD						
Eugenia haematocarpa	C1	NO	08	LEAD						
Euonymons atropurpureus WAHOO, EASTERN STRAWBERRY BUSH	S	NO	08	LEAD						
Eupatorium luciae-brauniae LUCY BRAUN'S WHITE SNAKEROOT	C1	NO	08	LEAD						
Euphorbia purpurea SPURGE, DARLINGTON'S	C2	NO	08	LEAD						
Euphorbia purpurea SPURGE, DARLINGTON'S	C2	NO	09							

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
Ferocactus acanthodes var. acanthodes FEROCACTUS	C2	NO	04	LEAD						
Ferocatus acanthodes var. acanthodes FEROCACTUS	C2	NO	03							
Festuca dasyclada	C2	NO	02							
Festuca dasyclada SEDGE FESCUE	C2	NO	04	LEAD						
Festuca hallii	C2	NO	02	LEAD						
Flaveria macdougalii	C1	NO	03	LEAD	NUMBER OF COLONIES	0	0	0		
Fothergilla major WITCH-ALDER	S	NO	08	LEAD						
Frasera coloradensis	C2	NO	02	LEAD						
Frasera pahutensis PAHUTE FRASERA	C2	NO	04	LEAD						
Frasera umpquaensis UMPQUA GREEN GENTIAN	C2	NO	05	LEAD						
Frasera umpquaensis UMPQUA GREEN GENTIAN	C2	NO	06							
Fritillaria eastwoodiae BUTTE COUNTY FRITILLARY	C2	NO	05	LEAD						
Fritillaria falcata TALUS FRITILLARY	C2	NO	05	LEAD						
Fritillaria gentneri	C2	NO	06	LEAD						
Fritillaria ojaiensis OJAI FRITILLARY	C2	NO	05	LEAD						



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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  
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Fritillaria pluriflora	C2	NO	05	LEAD						
Fritillaria striata STRIPED ADOBE-LILY	C2	NO	05	LEAD						
Galium arksansanum var. publiflorum BEDSTRAW	S	NO	08	LEAD						
Galium californicum luciense CONE PEAK BEDSTRAW	C2	NO	05	LEAD						
Galium californicum primum CALIFORNIA BEDSTRAW	C2	NO	05	LEAD						
Galium glabrescens modocense MODOC BEDSTRAW	C2	NO	05	LEAD						
Galium grande SAN GABRIEL BEDSTRAW	C2	NO	05	LEAD						
Galium hardhamiae HARDHAM'S BEDSTRAW	C2	NO	05	LEAD						
Galium serpenticum scotticum SCOTT MTS. BEDSTRAW	C3C	NO	05	LEAD						
Galium serpenticum warnerense WERNER MTS. BEDSTRAW	C2	NO	05	LEAD						
Gaura neomexicana ssp. coloradensis	C1	NO	02	LEAD						
Gentiana austromontana APPALACHIAN GENTIAN	C3C	NO	08	LEAD						
Gentiana bisetaea	C2	NO	06	LEAD						
Gentiana crinita FRINGED GENTIAN	S	NO	08	LEAD						
Gentiana propinqua	S	NO	04	LEAD						
Gentiana quinquefolia, occidentalis				STIFF GENTIAN		S	NO	08	LEAD	

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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  
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Gentiana saponara GENTIAN, SOAPWORT GENTIAN	S	NO	08	LEAD						
Gentianella tenella	S	NO	04	LEAD						
Geocarpon minimum GEOCARPON, LITTLE GEOCARPON	E	NO	08	LEAD						
Geum geniculatum AVENS, BENT	C2	NO	08	LEAD						
Geum radiatum AVENS, SPREADING	C2	NO	08	LEAD						
Gilia caespitosa RABBIT VALLEY GILIA	C1	NO	04	LEAD						
Gilia spicata	S	NO	04	LEAD						
Glyceria nubigena SMOKEY MOUNTAIN MANNA GRASS	C1	NO	08	LEAD						
Gordonia lasianthus LOBLOLLY BAY, RED BAY	S	NO	08	LEAD						
Grammitis nimbata DWARF POLYPODY	C2	NO	08	LEAD						
Graptopetalum bartramii	C2	NO	03	LEAD	NUMBER OF COLONIES	0	0	0		
Gratiola brevifolia STICKY HEDGE-HYSSOP	S	NO	08	LEAD						
Gratiola heterosoepala	C2	NO	06	LEAD						
Gratiola pilosa HEDGE HYSSOP	S	NO	08	LEAD						
Grindelia hallii HALL'S GUMPLANT	C3C	NO	05	LEAD						

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Chapter 2670 - Threatened, Endangered and Sensitive Plants and Animals  
Amendment: 2600-1990-1  
Effective date: June 01, 1990  
2672.24a - Exhibit 1--Continued

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Hackelia brevicula BRISTLECONE STICKWEED	C2	NO	05	LEAD							
Hackelia davisii DAVIS STICKSEED	C3C	NO	04	LEAD							
Hackelia sharsmithii SHARSMITH'S STICKWEED	C3C	NO	05	LEAD							
Hackelia venusta	C2	NO	06	LEAD							
Halimolobos perplexa var. lemhiensis PUZZLING HALIMOLOBOS	C3C	NO	04	LEAD							
Haplopappus aberrans	C3C	NO	04	LEAD							
Haplopappus alpinus ALPINE GOLDENROD	C2	NO	04	LEAD							
Haplopappus crispus PINE VALLEY GOLDENBUSH	S	NO	04	LEAD							
Haplopappus insecticuris	C2	NO	04	LEAD							
Haplopappus liatriformis	C2	NO	06	LEAD							
Haplopappus radiatus RADIATE GOLDENROD	C2	NO	04								
Haplopappus radiatus	C2	NO	06	LEAD							
Haplopappus uniflorus gossypinus BEAR VALLEY HAPLOPAPPUS	C2	NO	05	LEAD							
Harperocallis flava	E	NO	08	LEAD							
Hastingsia bracteosa	C1	NO	06	LEAD							

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Chapter 2670 - Threatened, Endangered and Sensitive Plants and Animals  
Amendment: 2600-1990-1  
Effective date: June 01, 1990  
2672.24a - Exhibit 1--Continued

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Hedeoma apiculatum PENNYROYAL, MCKITTRICK	E	YES	03	LEAD	NUMBER OF COLONIES	0	0	0		
Hedeoma graveolens PENNYROYAL, MOCK	C1	NO	08	LEAD						
Hedyotis ouachitana HEDYOTIS	S	NO	08	LEAD						
Hedyotis purpurea var. calycosa PURPLE BLUET	S	NO	08	LEAD						
Hedysarum occidentale var. canone CANYON SWEETVETCH	C2	NO	04	LEAD						
Helenium virginicum VIRGINIA SNEEZEWEED	C2	NO	08	LEAD						
Helianthus atrorubens SUNFLOWER	S	NO	08	LEAD						
Helianthus glaucophyllus SUNFLOWER, WHITE LEAVED	C2	NO	08	LEAD						
Heliotropium tennellum SLENDER HELIOTROPE	S	NO	08	LEAD						
Helonias bullata SWAMP PINK	C2	NO	08	LEAD						
Hesperolinon drymarioides DRYMARIA-LIKE DWARF-FLAX	C3C	NO	05	LEAD						
Heterotheca jonesii JONES GOLDEN ASTER	C2	NO	04	LEAD						
Heuchera alba WHITE ALUMROOT	S	NO	08	LEAD						
Heuchera brevistaminea MT. LAGUNA ALUMROOT	C2	NO	05	LEAD						

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

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Heuchera missouriensis ALUM ROOT, MISSOURI	C2	NO	09	LEAD						
Heuchera villosa var. arkansana ALUMROOT, ARKANSAS	C2	NO	08	LEAD						
Hexalectris spicata CRESTED CORAL ROOT	S	NO	08	LEAD						
Hibiscus dasycalyx NECHES RIBER ROSE-MALLOW	C2	NO	08	LEAD						
Horkelia hendersonii MT. ASHLAND HORKELIA	C2	NO	05	LEAD						
Horkelia hendersonii HORKELIA HENDERSONII	C2	NO	06	LEAD						
Horkelia truncata RAMONA HORKELIA	C3C	NO	05	LEAD						
Horkelia tularensis BALD MTN. HORKELIA	C2	NO	05	LEAD						
Horkelia wilderae BARON FLATS HORKELIA	C2	NO	05	LEAD						
Howellia aquatilis HOWELLIA	C2	NO	05	LEAD						
Howellia aquatilis HOWELLIA	C2	NO	06							
Hudsonia montana HEATHER, MOUNTAIN GOLDEN	T	YES	08	LEAD		0	0	0		
Hydrastis canadensis GOLDEN SEAL	C3C	NO	08	LEAD						
Hydrophyllum occidentale var. watsonii WESTERN WATERLEAF	S	NO	04	LEAD						

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Chapter 2670 - Threatened, Endangered and Sensitive Plants and Animals  
Amendment: 2600-1990-1  
Effective date: June 01, 1990  
2672.24a - Exhibit 1--Continued

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Hydrophyllum virginianum JOHN'S CABBAGE	S	NO	08	LEAD						
Hymenoxys depressa LOW HYMENOXYS	C2	NO	04	LEAD						
Hymenoxys helenioides HELENium HYMENOXYS	C2	NO	04		No. of Populations	0	1	2	0	4
Hymenoxys helenoides	C2	NO	03	LEAD	PLANT DENSITY	0	0	0		
Hypericum graveolens MOUNTAIN ST. JOHN'S WORT	S	NO	08	LEAD						
Hypericum mitchellianum BLUE RIDGE ST. JOHN'S WORT	S	NO	08	LEAD						
Ilex amelanchier HOLLY	C2	NO	08	LEAD						
Ilex collina HOLLY, LONG-STALKED	C2	NO	08							
Ilex collina HOLLY, LONG-STALKED	C2	NO	09	LEAD						
Ilex sintenisii	S	NO	08	LEAD						
Illicium parviflorum STAR-ANIS, YELLOW ANIS TREE	C2	NO	08	LEAD						
Ipomoea lemmonii LEMMON'S MORNING-GLORY	C2	NO	03	LEAD	NUMBER OF COLONIES	0	0	0		
Iris lacustris IRIS	C1	NO	09	LEAD						
Isoetes macrospora LARGE-SPORED QUILLWORT	S	NO	08	LEAD						

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2672.24a - Exhibit 1--Continued

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Isotria medeolides POGONIA, SMALL WHORLED	E	YES	08	LEAD	POPULATION DENSITY	0	0	0			
Isotria verticillata LARGE WHORLED POGONIA	S	NO	08	LEAD							
Ivesia aperta IVESIA APERTA	S	NO	04	LEAD							
Ivesia aperta SIERRA VALLEY IVESIA	S	NO	05	LEAD							
Ivesia callida TAHQUITZ IVESIA	C2	NO	05	LEAD							
Ivesia cryptocaulis CHARLESTON IVESIA	C2	NO	04	LEAD							
Ivesia paniculata ASH CREEK IVESIA	C2	NO	05	LEAD							
Ivesia pickeringii PICKERING'S IVESIA	C3C	NO	05	LEAD							
Ivesia sericoleuca IVESIA SERICOLEUCA	S	NO	04	LEAD							
Ivesia sericoleuca PLUMAS IVESIA	S	NO	05	LEAD							
Ivesia unguiculata YOSEMITE IVESIA	C3C	NO	05	LEAD							
Ivesia webberi WEBBER IVESIA	S	NO	05	LEAD							
Juglans cinerea BUTTERNUT	S	NO	08	LEAD							
Juncus gymnocarpus COVILLE'S RUSH	C3C	NO	08	LEAD							
Juncus taifidus sp. carolinianus ONE FLOWERED RUSH	C2	NO	08	LEAD							

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
Justicia crassifolia THICK-LEAVED WATER WILLOW	C2	NO	08	LEAD						
Lachnocaulon digynum BOG BUTTON	C2	NO	08	LEAD						
Lasthenia macrantha	C2	NO	06	LEAD						
Lathyrus biflorus TWO-FLOWERED LATHYRUS	C2	NO	05	LEAD						
Lathyrus holochlorus	C2	NO	06	LEAD						
Lathyrus palustris MARCH PEA	S	NO	08	LEAD						
Layia ziegleri ZIEGLER'S TIDKY-TIPS	C1	NO	05	LEAD						
Leavenworthia aurea GODEN-GLADE CRESS	C3C	NO	08	LEAD						
Lepanthes dodiana	C3C	NO	08	LEAD						
Lepanthes eltoensis	C1	NO	08	LEAD						
Lepechinia cardiophylla HEART-LEAVED PITCHER SAGE	C2	NO	05	LEAD						
Lepidium montanum var. neeseae NEESE PEPPERGRASS	C2	NO	04	LEAD						
Leptodactylon jaegeri SAN JACINTO PRICKLY-PHLOX	C2	NO	05	LEAD						
Lesquerella filiformes MISSOURI BLADDERPOD	E	NO	09	LEAD						
Lesquerella garrettii GARRETT BLADDERPOD	C3C	NO	04	LEAD						



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Lesquerella kaibabensis BLADDERPOD, KAIBAB	C2	NO	03	LEAD	NUMBER OF COLONIES	0	0	0			
Lesquerella kingii bernardina SAN BERNARDINO BLADDERPOD	C1	NO	05	LEAD							
Lesquerella prunisoa	C2	NO	02	LEAD							
Lewisia cantelowii CANTELOW'S LEWISIA	C3C	NO	05	LEAD							
Lewisia congdonii CONGDON'S LEWISIA	C3C	NO	05	LEAD							
Lewisia cotyledon	C2	NO	06	LEAD							
Lewisia cotyledon heckneri HECKNER'S LEWISIA	C2	NO	05	LEAD							
Lewisia cotyledon howellii HOWELL'S LEWISIA	C2	NO	05	LEAD							
Lewisia maguirei MAGUIRE LEWISIA	C2	NO	04	LEAD							
Lewisia oppositifolia OPPOSITE-LEAVED LEWISIA	C3C	NO	05	LEAD							
Lewisia pygmaea longipetala LONG-PETALLED LEWISIA	C2	NO	05	LEAD							
Lewisia serrata SAW-TOOTHED LEWISIA	C2	NO	05	LEAD							
Lewisia stebbinsii STEBBINS' LEWISIA	C2	NO	05	LEAD							
Liatris helleri HELLER'S GAYFEATHER	C2	NO	08	LEAD							

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Liatris squarrosa var. compacta LIATRIS, SCALY GAY FEATHER	S	NO	08	LEAD						
Liatris tenius SLENDER GAYFEATHER	C3C	NO	08	LEAD						
Lilaeopsis recurva	C2	NO	03	LEAD	NUMBER OF COLONIES	0	0	0		
Lilium canadense CANADA LILLY	S	NO	08	LEAD						
Lilium fairchildii FAIRCHILD LILY	C2	NO	05	LEAD						
Lilium grayi LILY, GRAY'S	C2	NO	08	LEAD						
Lilium michiganense MICHIGAN LILY	S	NO	08	LEAD						
Lilium occidentale	C2	NO	06	LEAD						
Lilium parryi LILY, PARRY'S	C2	NO	03	LEAD	NUMBER OF POPULATIONS	0	0	0		