



Friday
September 19, 1997

Part V

**Department of the
Interior**

Fish and Wildlife Service

**50 CFR Part 17
Endangered and Threatened Species;
Review of Plant and Animal Taxa;
Proposed Rule**

DEPARTMENT OF THE INTERIOR

Fish and Wildlife Service

50 CFR Part 17

Endangered and Threatened Wildlife and Plants; Review of Plant and Animal Taxa That Are Candidates or Proposed for Listing as Endangered or Threatened, Annual Notice of Findings on Recycled Petitions, and Annual Description of Progress on Listing Actions

AGENCY: Fish and Wildlife Service, Interior.

ACTION: Notice of review.

SUMMARY: In this document, the Fish and Wildlife Service (Service) presents an updated list of plant and animal taxa native to the United States that are regarded as candidates or proposed for possible addition to the Lists of Endangered and Threatened Wildlife and Plants under the Endangered Species Act of 1973, as amended (Act). Identification of candidate taxa can assist environmental planning efforts by providing advance notice of potential listings, allowing resource managers to alleviate threats and thereby possibly remove the need to list taxa as endangered or threatened. Even if a candidate taxon is subsequently listed, the early notice provided here could result in fewer restrictions on activities by prompting candidate conservation measures to alleviate threats to the taxon.

The Service requests additional status information that may be available for the identified candidate taxa and information indicating that taxa not presently regarded as candidates should be included in future updates of this list. This information will be considered in preparing listing documents and future revisions to the notice of review. It will also help the Service monitor changes in the status of candidate taxa and in candidate conservation activities.

The Service announces the availability of listing priority assignment forms for candidate taxa and listing priority determinations for proposed taxa. These documents describe the status and threats which were evaluated in order to assign a listing priority number to each taxon.

The Service also announces its findings on recycled petitions and describes its progress in revising the Lists of Endangered and Threatened Wildlife and Plants during the period February 28, 1996, to September 3, 1997.

DATES: Comments on the candidate notice of review will be accepted at any

time. The information on candidate taxa will be revised and updated continually by the Regional Offices identified as having lead responsibility for the particular taxa. The Service anticipates publishing annually an update of the candidate notice of review, annual notice of findings on recycled petitions, and annual description of progress on listing actions.

ADDRESSES: Interested persons or organizations should submit comments regarding a particular taxon to the Regional Director of the Region identified as having the lead responsibility for that taxon. Comments of a more general nature may be submitted to the Chief, Division of Endangered Species, U.S. Fish and Wildlife Service, 1849 C Street, NW., Mail Stop 452 ARLSQ, Washington, DC 20240. Information regarding the range, status, and habitat needs of and listing priority assignment for a particular taxon is available for review at the appropriate Regional Office listed below or at the Division of Endangered Species, 4401 N. Fairfax Drive, Room 452, Arlington, Virginia 22203 (703/358-2171). Written comments and materials received in response to this document will be available for public inspection by appointment at the appropriate Regional Office listed below.

Region 1. California, Commonwealth of the Northern Mariana Islands, Hawaii, Idaho, Nevada, Oregon, Pacific Territories of the United States, and Washington.

Regional Director (TE), U.S. Fish and Wildlife Service, Eastside Federal Complex, 911 N.E. 11th Avenue, Portland, Oregon 97232-4181 (503/231-6131).

Region 2. Arizona, New Mexico, Oklahoma, and Texas.

Regional Director (TE), U.S. Fish and Wildlife Service, 500 Gold Avenue S.W., P.O. Box 1306, Albuquerque, New Mexico 87103-1306 (505/248-6671).

Region 3. Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Ohio, and Wisconsin.

Regional Director (TE), U.S. Fish and Wildlife Service, Federal Building, One Federal Drive, Fort Snelling, Minnesota 55111-4056 (612/725-3276).

Region 4. Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Puerto Rico, and the U.S. Virgin Islands.

Regional Director (TE), U.S. Fish and Wildlife Service, 75 Spring Street, SW, Suite 1276, Atlanta, Georgia 30345-3319 (404/679-7096).

Region 5. Connecticut, Delaware, District of Columbia, Maine, Maryland,

Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, and West Virginia.

Regional Director (TE), U.S. Fish and Wildlife Service, 300 Westgate Center Drive, Hadley, Massachusetts 01035-9589 (413/253-8615).

Region 6. Colorado, Kansas, Montana, Nebraska, North Dakota, South Dakota, Utah, and Wyoming.

Regional Director (TE), U.S. Fish and Wildlife Service, P.O. Box 25486, Denver Federal Center, Denver, Colorado 80225-0486 (303/236-7398).

Region 7. Alaska.

Regional Director (TE), U.S. Fish and Wildlife Service, 1011 East Tudor Road, Anchorage, Alaska 99503-6199 (907/786-3605).

FOR FURTHER INFORMATION CONTACT: The Endangered Species Coordinator(s) in the appropriate Regional Office(s) (see phone numbers in **ADDRESSES** section) or E. LaVerne Smith, Chief, Division of Endangered Species, (703) 358-2171.

SUPPLEMENTARY INFORMATION:**Background***Candidate Notice of Review*

The Endangered Species Act of 1973, as amended (Act) (16 U.S.C. 1531 *et seq.*), requires the Service to identify taxa of wildlife and plants that are endangered or threatened, based on the best available scientific and commercial information. As part of the program to accomplish this, the Service has maintained a list of taxa regarded as candidates for listing. The Service maintains this list for a variety of reasons, including: to provide advance knowledge of potential listings that could affect decisions of environmental planners and developers; to solicit input from interested parties to identify those candidate taxa that may not require protection under the Act or additional taxa that may require the Act's protections; and to solicit information needed to prioritize the order in which taxa will be proposed for listing. At present, there are 207 taxa included in Table 1 of this notice that are considered by the Service as candidates for possible addition to the Lists of Endangered and Threatened Wildlife and Plants, as well as 99 taxa for which proposed rules to list have been published. The Service encourages their consideration in environmental planning, such as in environmental impact analysis under the National Environmental Policy Act of 1969 (implemented at 40 CFR parts 1500-1508). Table 2 of this notice contains taxa identified as candidates in the 1996 Candidate Notice of Review which have

been removed from candidate status, taxa identified as proposed species in the 1996 notice which have been listed as threatened or endangered, and taxa identified as proposed species in the 1996 notice for which proposed rules have been withdrawn. The Service intends to publish an updated combined notice of review for animals and plants annually in the **Federal Register**.

Findings on Recycled Petitions

Section 4(b)(3) of the Act sets out required procedures for responding to petitions under the Act (i.e., petitions to revise the lists of Endangered and Threatened Wildlife and Plants or to designate or revise critical habitat for listed taxa). Section 4(b)(3)(B) requires the Service to make one of the following 12-month findings on each petition presenting substantial information: (i) The petitioned action is not warranted; (ii) the petitioned action is warranted and will be proposed promptly; or (iii) the petitioned action is warranted but precluded by other actions to revise the lists. A taxon for which a petition to list is found to be not warranted is not added to the list of candidates, or is removed from the list of candidates if it was a candidate at the time the petition was received. Petitioned actions found to be warranted are the subjects of proposed rules that are published promptly in the **Federal Register**. Taxa for which a petition to list is determined to be warranted but precluded by other actions to revise the lists are maintained as candidates. Petitions for which a finding of "warranted but precluded" was made require a new finding within a year after the most recent "warranted but precluded" finding; these petitions are then called recycled petitions. This notice reports administrative findings on recycled petitions that became due during the period February 28, 1996, to September 3, 1997. Although it has not published notices of its findings on recycled petitions annually in the past, the Service intends to publish these notices annually beginning with this notice.

Progress in Revising the Lists

As described in section 4(b)(3)(B)(iii) of the Act, in order for the Service to make a "warranted but precluded" finding on a petitioned action, the Service must be making expeditious progress to add qualified taxa to the Lists of Endangered and Threatened Wildlife and Plants and to remove from the lists taxa for which the protections of the Act are no longer necessary. This notice describes the Service's annual progress in revising the lists during the period February 28, 1996, to September

3, 1997. Although it has not published descriptions of its annual progress on listing actions in the past, the Service intends to publish these descriptions annually beginning with this notice.

Findings on Recycled Petitions

The Service reviewed the current status of and threats to the taxa which were the subjects of the 18 recycled petitions that became due during the period February 28, 1996, to September 3, 1997, to determine whether any changes to the listing priority assignments for these taxa were necessary. As a result of this review, the Service has made continued "warranted but precluded" findings on all of these petitions. These taxa are maintained as candidates and are identified in Table 1 by the code "C(w)" in the category column on the left side of the table.

Progress in Revising the Lists

The Service's progress in listing and delisting qualified taxa during the period February 28, 1996, to September 3, 1997, is represented by the publication in the **Federal Register** of final listing actions for 152 taxa, proposed listing actions for 23 taxa, a proposed delisting action for 1 taxon, and withdrawals of proposed rules for 13 taxa. One taxon proposed for listing as threatened due to similarity of appearance, the southern population of the bog turtle (*Clemmys muhlenbergii*), is not included in the counts above.

The relatively small number of proposed listing actions for the subject time period is a consequence of the Service's listing priority guidance, published on May 16, 1996 (61 FR 24722), September 17, 1996 (61 FR 48962), and December 5, 1996 (61 FR 64475), which was developed in response to two related events: (1) The lifting, on April 26, 1996, of the moratorium on final listings imposed on April 10, 1995 (Public Law 104-6), and (2) the restoration of significant funding for listing through passage of the omnibus budget reconciliation law on April 26, 1996, following severe funding constraints imposed by a number of continuing resolutions between November 1995 and April 1996. The guidance clarifies the order in which the Service will process rulemakings giving highest priority to handling emergency situations, second highest priority to resolving the listing status of the outstanding proposed listings, third highest priority to processing new proposals to add species to the lists and processing administrative findings on petitions to add species to the lists, and lowest priority to processing final or proposed critical habitat designations,

delistings, and reclassifications from endangered to threatened status. Because of the large backlog of outstanding proposed listings (second highest priority actions) caused by the listing moratorium, the Service was able to process only 23 new proposals to add species to the lists (third highest priority actions).

Notice of Review

Previous Notices of Review

The Act directed the Secretary of the Smithsonian Institution to prepare a report on endangered and threatened plant taxa, which was published as House Document No. 94-51. The Service published a notice in the **Federal Register** on July 1, 1975 (40 FR 27823), in which it announced that more than 3,000 native plant taxa named in the Smithsonian's report and other taxa added by the 1975 notice would be reviewed for possible inclusion in the List of Endangered and Threatened Plants. The 1975 notice was superseded on December 15, 1980 (45 FR 82479), by a new comprehensive notice of review for native plants that took into account the earlier Smithsonian report and other accumulated information. On November 28, 1983 (48 FR 53640), a supplemental plant notice of review noted changes in the status of various taxa. The Service published complete updates of the plant notice on September 27, 1985 (50 FR 39526), February 21, 1990 (55 FR 6184), September 30, 1993 (58 FR 51144), and, as part of a combined animal and plant notice, on February 28, 1996 (61 FR 7596).

Previous animal notices of review included many of the animal taxa in the accompanying Table 1. The Service published earlier comprehensive reviews for vertebrate animals in the **Federal Register** on December 30, 1982 (47 FR 58454), and on September 18, 1985 (50 FR 37958). An initial comprehensive review for invertebrate animals was published on May 22, 1984 (49 FR 21664). The Service published a combined animal notice of review on January 6, 1989 (54 FR 554), and with minor corrections on August 10, 1989 (54 FR 32833). The Service again published comprehensive animal notices on November 21, 1991 (56 FR 58804), November 15, 1994 (59 FR 58982), and, as part of a combined animal and plant notice, on February 28, 1996 (61 FR 7596). This revised notice supersedes all previous animal, plant, and combined notices of review.

Relation to Prior Notices of Review

Two classes of taxa, candidate taxa and proposed taxa, are included in Table 1 of this notice. Candidate taxa are those taxa for which the Service has on file sufficient information on biological vulnerability and threats to support issuance of a proposed rule to list, but issuance of the proposed rule is precluded. The Service emphasizes that these candidate taxa are not being proposed for listing by this notice, but development and publication of proposed rules for such candidate taxa are anticipated. The Service encourages other Federal agencies to give consideration to these taxa in environmental planning. The Service determines the relative listing priority of candidate taxa in accordance with general listing priority guidelines published in the **Federal Register** on September 12, 1983 (48 FR 43098), and with Fiscal Year 1997 listing priority guidelines published on December 5, 1996 (61 FR 64475).

Proposed taxa are those taxa for which a proposed rule to list as endangered or threatened has been published in the **Federal Register** (exclusive of taxa for which the proposed rule has been withdrawn or finalized).

Current Notice of Review

The Service gathers data on plants and animals native to the United States that appear to merit consideration for addition to the Lists of Endangered and Threatened Wildlife and Plants. This notice identifies those taxa (including, by definition, biological species, subspecies, and certain distinct population segments of vertebrate animals, and biological species, subspecies, and varieties of plants) that are presently regarded by the Service as candidates for addition to the Lists of Endangered and Threatened Wildlife and Plants. In issuing this compilation, the Service relies on information from status surveys conducted for candidate assessment and on information from State Natural Heritage Programs, other State and Federal agencies (such as the Forest Service and the Bureau of Land Management), knowledgeable scientists, public and private natural resource interests, and comments received in response to previous notices of review.

Tables 1 and 2 are arranged alphabetically by names of genera, species, and relevant subspecies and varieties under the major group headings for animals first, then plants. Animals are grouped by class or order. Plants are subdivided into three groups: flowering plants, conifers and cycads,

and ferns and their allies. Useful synonyms and subgeneric scientific names appear in parentheses (the synonyms preceded by an equal sign). Several taxa that have not yet been formally described in the scientific literature have been included; such taxa are identified by a generic or specific name (in italics) followed by "sp." or "ssp." Standardized common names are incorporated in these notices as they become available. The flux in common names, the inclusion of vernacular and composite subspecific names, and the fact that a majority of invertebrates still lack a standardized name combine to make common names relatively useless for organizing the tables.

Table 1 lists all taxa regarded by the Service as candidates for listing and all taxa proposed for listing under the Act. Table 2 lists those taxa that were classified either as candidates or proposed for listing in the 1996 notice of review, but are no longer classified as candidates or proposed taxa.

Taxa in Table 1 of this notice are assigned to several status categories, noted in the "Category" column at the left side of the table. Codes for the category status column of taxa in Table 1 are explained below:

PE—Taxa proposed to be listed as endangered.

PT—Taxa proposed to be listed as threatened.

Y—Synonyms of taxa that are listed elsewhere in Table 1.

C—Candidates: Taxa for which the Service has on file sufficient information on biological vulnerability and threats to support proposals to list them as endangered or threatened taxa. Proposed rules have not yet been issued because this action is precluded at present by other listing activity. This category includes taxa for which a "warranted but precluded" 12-month petition finding has been issued. This category also includes taxa for which a "warranted but precluded" 12-month petition finding has been recycled; these taxa are identified by the code "C(w)" in the category column. Development and publication of proposed rules for candidate taxa are anticipated. The Service encourages State and other Federal agencies as well as other affected parties to give consideration to these taxa in environmental planning.

The column labeled "Priority" indicates the listing priority number for candidate taxa. This number is assigned on the basis of immediacy and magnitude of threats as well as taxonomic status. A complete

description of the Service's listing priority system was published in a September 21, 1983, **Federal Register** notice (48 FR 43098); additional guidelines for assigning listing priorities during Fiscal Year 1997 were published on December 5, 1996 (61 FR 64475).

The third column identifies the Regional Office (numeric code) to which comments or questions should be directed (see **ADDRESSES** section). Comments received in response to the 1996 notice of review were provided for review to the Region having lead responsibility for each candidate taxon mentioned in the comment. The Service will likewise consider all information provided in response to this notice of review in deciding whether to propose taxa for listing and when to undertake necessary listing actions. Comments received will become part of the administrative record for the taxa mentioned.

Following the scientific name of each taxon (fourth column) is the family designation (fifth column) and any common name (sixth column). The seventh column provides the known historical range for each included taxon, indicated by postal code abbreviations for States and U.S. territories (many taxa no longer occur in all of the areas shown). In the section on birds, the abbreviation "N" indicates the nesting range of the taxon, and the abbreviation "V" indicates additional areas in which the taxon spends other parts of its life cycle.

Taxa in Table 2 of this notice were included either as proposed taxa or as candidates in the 1996 notice of review but have since been removed from such status for a variety of reasons. Many of the taxa listed in the last notice of review as proposed have now been added to the Lists of Endangered or Threatened Wildlife and Plants. The first column indicates the present status of the taxa, using the following codes:

E—Taxa that have been listed as endangered.

T—Taxa that have been listed as threatened.

R—Taxa for which currently available information does not support issuance of a proposed listing and taxa for which a proposed listing has been withdrawn.

Y—Synonyms of taxa listed elsewhere in Table 2.

The second column provides a coded explanation of why the taxon is no longer regarded as a candidate taxon. Descriptions of the codes are as follows:

A—Taxa that have proven to be more abundant or widespread than previously believed and taxa that

have proven not to be subject to a degree of threats sufficient to warrant issuance of a proposed listing or continuance of candidate status.

F—Taxa removed from candidate status because the range is no longer a U.S. Territory.

I—Taxa for which the Service has insufficient information on biological vulnerability and threats to support issuance of a proposed rule to list.

L—Taxa added to the Lists of Endangered or Threatened Wildlife and Plants.

M—Taxa mistakenly included as candidates in the last notice of review.

N—Taxa that on the basis of current taxonomic understanding do not meet the Act's definition of "species."

X—Taxa that are believed to be extinct.

The columns describing lead region, scientific name, family, common name, and historic range include information as previously described for Table 1.

One taxon included in Table 2 of this notice, *Sclerocactus brevispinus* (Pariette cactus), was mistakenly included in Table 1 in the 1996 candidate notice of review. Until it was described as a new species in 1994, *S. brevispinus* was included in *Sclerocactus glaucus* (Uinta Basin hookless cactus), a threatened species. Because *S. brevispinus* was a part of *S. glaucus* when the latter species was listed as threatened, those plants now referred to as *S. brevispinus* are still considered to be listed as threatened. Therefore, including *S. brevispinus* as a candidate in the 1996 notice of review

was inappropriate and unnecessary. To address the recent change in taxonomy, a proposed rule to add *S. brevispinus* to the List of Endangered and Threatened Plants will be published in the **Federal Register** at a later time.

Summary

Over the past year, the Service reviewed the available information on candidate taxa to ensure that issuance of a proposed listing is justified for each taxon and to reevaluate the relative listing priority assignment of each taxon. The Service undertook this effort to ensure that it was focusing conservation efforts on those taxa at greatest risk. As of September 3, 1997, there are 51 plants and 20 animals proposed for endangered status; 20 plants and 8 animals proposed for threatened status; and 107 plant and 100 animal candidates awaiting preparation of proposed rules (see Table 1). There are 181 taxa that were classified as either proposed for listing or candidates in the 1996 notice of review that are no longer classified in those categories (see Table 2).

Request for Information

The Service hereby requests that any further information on the taxa named in this notice be submitted as soon as possible or whenever it becomes available. Especially sought is information:

- (1) indicating that a taxon should be removed from this list;
- (2) indicating that a taxon not included in the notice should be added to the list of candidate taxa;

(3) recommending an area as critical habitat for a candidate taxon, or indicating that a proposal of critical habitat would not be prudent for a taxon;

(4) documenting threats to any of the included taxa;

(5) describing the immediacy or magnitude of threats facing candidate taxa;

(6) pointing out taxonomic or nomenclatural changes for any of the taxa;

(7) suggesting appropriate common names; or

(8) noting any mistakes, such as errors in the indicated historical ranges.

Authors

This notice was compiled from evaluations by staff biologists in the Service's Regional and Field offices. It was compiled and edited by Dr. Joan Canfield, Martin Miller, Dr. Joy Nicholopoulos, and Dr. George Drewry of the Service's Headquarters Office.

List of Subjects in 50 CFR Part 17

Endangered and threatened species, Exports, Imports, Reporting and recordkeeping requirements, Transportation.

Authority

This notice is published under the authority of the Endangered Species Act (16 U.S.C. 1531 *et seq.*).

Dated: September 3, 1997.

Jamie Rappaport Clark,
Director, U.S. Fish and Wildlife Service.

TABLE 1.—CANDIDATE AND PROPOSED ANIMALS AND PLANTS

Cate-gory	Pri-ory	Lead re-gion	Scientific name	Family	Common name	Historic range
C	3	R1	MAMMALS. <i>Dipodomys merriami parvus</i>	Heteromyidae	Kangaroo rat, San Bernardino Merriam's.	U.S.A. (CA)
C	3	R1	<i>Emballonura semicaudata</i>	Emballonuridae	Bat, sheath-tailed (Aguijan, American Samoa pops.).	U.S.A. (AS, GU, MP (Aguijan))
C(w)	3	R6	<i>Lynx canadensis</i>	Felidae	Lynx, Canada (contiguous U.S. pop.).	U.S.A. (CO, ID, ME, MA, MI, MN, MT, NH, NY, OR, PA, UT, VT, WA, WI, WY)
C	3	R1	<i>Neotoma fuscipes riparia</i>	Muridae	Woodrat, riparian (=San Joaquin Valley).	U.S.A. (CA)
PE	12	R1	<i>Ovis canadensis cremnobates</i>	Bovidae	Bighorn sheep (Peninsular Ranges pop.).	U.S.A. (CA), Mexico
C	3	R4	<i>Peromyscus polionotus peninsularis</i>	Muridae	Mouse, St. Andrew beach	U.S.A. (FL)
C(w)	3	R1	<i>Pteropus mariannus mariannus</i>	Pteropodidae	Bat, Mariana fruit (=Mariana flying fox) (Aguijan, Tinian, Saipan pops.).	U.S.A. (MP)
C	3	R1	<i>Sorex ornatus relictus</i>	Soricidae	Shrew, Buena Vista Lake ornate	U.S.A. (CA)
C	3	R1	<i>Spermophilus brunneus brunneus</i> ...	Sciuridae	Squirrel, Northern Idaho ground	U.S.A. (ID)
C	3	R1	<i>Sylvilagus bachmani riparius</i>	Leporidae	Rabbit, riparian brush	U.S.A. (CA)

TABLE 1.—CANDIDATE AND PROPOSED ANIMALS AND PLANTS—Continued

Status		Lead region	Scientific name	Family	Common name	Historic range
Category	Priority					
C(w)	12	R4 ..	<i>Ursus americanus floridanus</i>	Ursidae	Bear, Florida black	U.S.A. (AL, FL, GA)
C(w)	9 ...	R6 ..	<i>Vulpes velox</i>	Canidae	Fox, swift (U.S. pop.)	U.S.A. (CO, IA, KS, MN, MT, ND, NE, NM, OK, SD, TX, WY)
PE ..	3 ...	R6 ..	<i>Zapus hudsonius preblei</i>	Zaponidae	Mouse, Preble's meadow jumping ...	U.S.A. (CO, WY)
			BIRDS.			
C	2 ...	R6 ..	<i>Charadrius montanus</i>	Charadriidae	Plover, mountain	N=CO, KS, MT, ND, NE, NM, OK, SD, TX, UT, WY; V=AZ, CA, NV, Mexico
Y .....	.....	R1 ..	<i>Chasiempis sandwichensis gayi</i>	*** see ***	<i>Chasiempis sandwichensis ibidus</i> ...	U.S.A. (HI)
C	3 ...	R1 ..	<i>Chasiempis sandwichensis ibidus</i> ...	Musicapidae	Elepaio, Oahu	North Pacific Ocean—
C	3 ...	R7 ..	<i>Diomedea albatrus</i>	Diomedidae	Albatross, short-tailed (U.S. pop.) ...	U.S.A. (AK, CA, HI, OR, WA), Canada, Japan, Russia
C	6 ...	R1 ..	<i>Gallicolumba stairi</i>	Columbidae	Dove, friendly ground (American Samoa pop.).	U.S.A. (AS)
C	5 ...	R1 ..	<i>Oreomystis bairdi</i>	Fringillidae	Creeper, Kauai	U.S.A. (HI)
C	6 ...	R1 ..	<i>Porzana tubuensis</i>	Rallidae	Crake, spotless (American Samoa pop.).	U.S.A. (AS)
C	6 ...	R1 ..	<i>Ptilinopus perousii perousii</i>	Columbidae	Dove, many-colored fruit	U.S.A. (AS)
C	6 ...	R1 ..	<i>Zosterops conspicillata rotensis</i>	Zosteropidae	White-eye, Rota bridled	U.S.A. (MP)
			REPTILES.			
PE ..	3 ...	R1 ..	<i>Anniella pulchra nigra</i>	Anniellidae	Lizard, black legless	U.S.A. (CA)
PT ...	3 ...	R5 ..	<i>Clemmys muhlenbergii</i>	Emydidae	Turtle, bog (northern pop.)	U.S.A. (CT, DE, GA, MA, MD, NC, NJ, NY, PA, SC, TN, VA)
C(w)	5 ...	R2 ..	<i>Graptemys caglei</i>	Emydidae	Turtle, Cagle's map	U.S.A. (TX)
C	3 ...	R2 ..	<i>Kinosternon sonoriense longifemorale</i> .	Kinosternidae	Turtle, Sonoyta mud	U.S.A. (AZ), Mexico
PE ..	3 ...	R1 ..	<i>Masticophis lateralis euryxanthus</i> ...	Colubridae	Whipsnake (=striped racer), Alameda.	U.S.A. (CA)
PT ...	6 ...	R3 ..	<i>Nerodia sipedon insularum</i>	Colubridae	Snake, Lake Erie water	U.S.A. (OH), Canada
			AMPHIBIANS.			
C(w)	8 ...	R1 ..	<i>Ambystoma californiense</i> (=A. tigrinum c.).	Ambystomatidae ...	Salamander, California tiger	U.S.A. (CA)
C(w)	3 ...	R6 ..	<i>Bufo boreas boreas</i>	Buфонidae	Toad, boreal (southern Rocky Mountain pop.).	U.S.A. (CO, NM, WY)
C	2 ...	R2 ..	<i>Rana chiricahuensis</i>	Ranidae	Frog, Chiricahua leopard	U.S.A. (AZ, NM), Mexico
C(w)	3 ...	R6 ..	<i>Rana luteiventris</i> (formerly incl. in <i>R. pretiosa</i>).	Ranidae	Frog, Columbia spotted (formerly spotted) (Wasatch Front pop.).	U.S.A. (UT)
C(w)	6 ...	R6 ..	<i>Rana luteiventris</i> (formerly incl. in <i>R. pretiosa</i>).	Ranidae	Frog, Columbia spotted (formerly spotted) (West Desert pop.).	U.S.A. (UT)
C(w)	9 ...	R1 ..	<i>Rana luteiventris</i> (formerly incl. in <i>R. pretiosa</i>).	Ranidae	Frog, Columbia spotted (formerly spotted) (Great Basin pop.).	U.S.A. (ID, NV, OR)
C(w)	2 ...	R1 ..	<i>Rana pretiosa</i>	Ranidae	Frog, Oregon spotted (formerly spotted frog (W. Coast pop.)).	U.S.A. (CA, OR, WA), Canada
Y .....	.....	R6 ..	<i>Rana pretiosa</i> (3 pops., not West Coast).	*** see ***	<i>Rana luteiventris</i> (3 pops.).	
			FISHES.			
C	8 ...	R1 ..	<i>Catostomus santaanae</i>	Catostoidae	Sucker, Santa Ana	U.S.A. (CA)
C	2 ...	R2 ..	<i>Cyprinodon pecosensis</i>	Cyprinodontidae ...	Pupfish, Pecos	U.S.A. (NM, TX)
C	2 ...	R2 ..	<i>Dionda diaboli</i>	Cyprinidae	Minnow, Devils River	U.S.A. (TX), Mexico
C	5 ...	R6 ..	<i>Etheostoma cragini</i>	Percidae	Darter, Arkansas	U.S.A. (AR, CO, KS, MO, OK)
C	3 ...	R1 ..	<i>Gila bicolor vacceiceps</i>	Cyprinidae	Chub, Cowhead Lake tui	U.S.A. (CA)
C	2 ...	R2 ..	<i>Gila intermedia</i>	Cyprinidae	Chub, Gila	U.S.A. (AZ, NM), Mexico
PE ..	1 ...	R6 ..	<i>lotichthys phlegenthontis</i>	Cyprinidae	Chub, least	U.S.A. (UT)
C	2 ...	R6 ..	<i>Macrhybopsis (=Hybopsis) gelida</i> ...	Cyprinidae	Chub, sturgeon	U.S.A. (AR, IA, IL, KY, KS, LA, MO, MS, MT, NE, ND, SD, TN, WY)

TABLE 1.—CANDIDATE AND PROPOSED ANIMALS AND PLANTS—Continued

Status	Lead re- gion	Scientific name	Family	Common name	Historic range	
Cate- gory	Pri- ority					
C	2	R6	<i>Macrhybopsis (=Hybopsis) meeki</i>	Cyprinidae	Chub, sicklefin	U.S.A. (AR, IA, IL, KS, KY, LA, MO, MS, MT, NE, ND, SD, TN)
PE	2	R2	<i>Notropis girardi</i>	Cyprinidae	Shiner, Arkansas River (native pop. only).	U.S.A. (AR, KS, NM, OK, TX)
C	2	R6	<i>Notropis topeka (=tristis)</i>	Cyprinidae	Shiner, Topeka	U.S.A. (IA, KS, MN, MO, NE, SD)
C	3	R1	<i>Oncorhynchus (=Salmo) mykiss</i> ssp.	Salmonidae	Trout, McCloud River redband	U.S.A. (CA)
PT	2	R1	<i>Pogonichthys macrolepidotus</i>	Cyprinidae	Splittail, Sacramento	U.S.A. (CA)
PT	9	R5	<i>Salmo salar</i>	Salmonidae	Salmon, Atlantic (distinct pop. in 7 Maine rivers).	U.S.A. (CT, MA, ME, NH, RI), Canada, Greenland, western Europe
PT	9	R1	<i>Salvelinus confluentus</i>	Salmonidae	Trout, bull (Columbia R. pop.)	U.S.A. (CA, ID, MT, NV, OR, WA), Canada
PE	3	R1	<i>Salvelinus confluentus</i>	Salmonidae	Trout, bull (Klamath R. pop.)	U.S.A. (CA, ID, MT, NV, OR, WA), Canada
C	5	R4	<i>Scaphirhynchus suttkusi</i>	Acipenseridae	Sturgeon, Alabama	U.S.A. (AL, MS)
Y		R6	<i>Thymallus arcticus montanus</i>	*** see ***	<i>Thymallus arcticus</i>	
C(w)	9	R6	<i>Thymallus arcticus</i>	Salmonidae	Grayling, Arctic (Upper Missouri R. fluvial pop.).	U.S.A. (MT, WY)
CLAMS.						
PE	2	R4	<i>Amblema neislerii</i> (I. Lea, 1858)	Unionidae	Mussel, fat three-ridge	U.S.A. (FL, GA)
PT	8	R4	<i>Elliptio chipolaensis</i> (Walker, 1905)	Unionidae	Slabshell, Chipola	U.S.A. (AL, FL)
PT	7	R4	<i>Elliptioideus sloatianus</i> (I. Lea, 1840)	Unionidae	Bankclimber, purple	U.S.A. (AL, GA, FL)
PE	2	R4	<i>Lampsilis subangulata</i> (I. Lea, 1840)	Unionidae	Pocketbook, shinyrayed	U.S.A. (AL, FL, GA)
PE	2	R4	<i>Medionidus penicillatus</i> (I. Lea, 1857).	Unionidae	Moccasinshell, Gulf	U.S.A. (AL, FL, GA)
PE	2	R4	<i>Medionidus simpsonianus</i> (Walker, 1905).	Unionidae	Moccasinshell, Ochlockonee	U.S.A. (FL, GA)
PE	2	R4	<i>Pleurobema pyriforme</i> (I. Lea, 1857)	Unionidae	Pigtoe, oval	U.S.A. (AL, FL, GA)
SNAILS.						
C	7	R3	<i>Antrobia culveri</i> (Hubricht, 1971)	Hydrobiidae	Cavesnail, Tumbling Creek	U.S.A. (MO)
C(w)	11	R2	<i>Assiminea pecos</i> Taylor, 1987	Assimineidae	Snail, Pecos assiminea	U.S.A. (NM, TX), Mexico
C	5	R4	<i>Campeloma decampi</i>	Viviparidae	Campeloma, slender	U.S.A. (AL)
C	5	R4	<i>Elimia crenatella</i> (I. Lea, 1860)	Pleuroceridae	Elimia, lacy	U.S.A. (AL)
PT	7	R1	<i>Erinna newcombi</i>	Lymnaeidae	Snail, Newcomb's	U.S.A. (HI)
C	2	R1	<i>Eua zebrina</i>	Partulidae	Snail, Tutuila tree	U.S.A. (AS)
Y		R2	"Fontelicella" spp.	*** see ***	<i>Pyrgulopsis (=“Fontelicella”) spp.</i>	
C	5	R4	<i>Leptoxis ampla</i> (Anthony, 1855)	Pleuroceridae	Rocksnailed, round	U.S.A. (AL)
C	5	R4	<i>Leptoxis plicata</i> (Conrad, 1834)	Pleuroceridae	Rocksnailed, plicate	U.S.A. (AL)
C	5	R4	<i>Leptoxis taeniata</i> (Conrad, 1834)	Pleuroceridae	Rocksnailed, painted	U.S.A. (AL)
C	5	R4	<i>Lepyrium showalteri</i> (I. Lea, 1861)	Hydrobiidae	Pebblesnail, flat	U.S.A. (AL)
C	5	R4	<i>Lioplax cyclostomaformis</i> (I. Lea, 1841).	Viviparidae	Lioplax, cylindrical	U.S.A. (AL, GA, LA)
C	9	R6	<i>Oreohelix peripherica wasatchensis</i>	Oreohelicidae	Mountainsnail, Ogden Deseret (=Ogden Rocky).	U.S.A. (UT)
C	2	R1	<i>Ostodes strigatus</i>	Potaridae	Sisi	U.S.A. (AS)
C	2	R1	<i>Partula gibba</i>	Partulidae	Snail, humped tree	U.S.A. (GU, MP)
C	2	R1	<i>Partula langfordi</i>	Partulidae	Snail, Langford's tree	U.S.A. (MP)
C	2	R1	<i>Partula radiolata</i>	Partulidae	Snail, Guam tree	U.S.A. (GU)
C	2	R1	<i>Partulina semicarinata</i>	Achatinellidae	Snail, Lanai tree or pupu kani oe	U.S.A. (HI)
C	2	R1	<i>Partulina variabilis</i>	Achatinellidae	Snail, Lanai tree or pupu kani oe	U.S.A. (HI)
C(w)	8	R2	<i>Pyrgulopsis (=“Fontelicella”) chupadera</i> Taylor, 1987.	Hydrobiidae	Springsnail, Chupadera	U.S.A. (NM)
C(w)	11	R2	<i>Pyrgulopsis (=“Fontelicella”) gilae</i> Taylor, 1987.	Hydrobiidae	Springsnail, Gila	U.S.A. (NM)
C	2	R2	<i>Pyrgulopsis morrisoni</i> Hershler, 1988.	Hydrobiidae	Springsnail, Page	U.S.A. (AZ)
C	5	R4	<i>Pyrgulopsis pachyta</i>	Hydrobiidae	Snail, armored	U.S.A. (AL)
C(w)	11	R2	<i>Pyrgulopsis (=“Fontelicella”) roswellensis</i> Taylor, 1987.	Hydrobiidae	Springsnail, Roswell	U.S.A. (NM)
C(w)	11	R2	<i>Pyrgulopsis (=“Fontelicella”) thermalis</i> Taylor, 1987.	Hydrobiidae	Hotspringsnail, New Mexico	U.S.A. (NM)

TABLE 1.—CANDIDATE AND PROPOSED ANIMALS AND PLANTS—Continued

Status	Lead re-gion	Scientific name	Family	Common name	Historic range	
Category	Priority					
C	5	R2	<i>Pyrgulopsis thompsoni</i> Hershler, 1988.	Hydrobiidae	Springsnail, Huachuca	U.S.A. (AZ), Mexico
C	2	R1	<i>Samoana fragilis</i>	Partulidae	Snail, fragile tree	U.S.A. (GU, MP)
PE	2	R2	<i>Sonorella eremita</i> (Pilsbry & Ferris, 1915).	Helminthoglyptidae	Talussnail, San Xavier	U.S.A. (AZ)
C	5	R2	<i>Sonorella macrophallus</i> Fairbanks & Reeder, 1980.	Helminthoglyptidae	Talussnail, Wet Canyon	U.S.A. (AZ)
C	2	R6	<i>Stagnicola bonnevillensis</i> (Call, 1884).	Lymnaeidae	Pondsnail, Bonneville (=fat-whorled)	U.S.A. (UT)
C	5	R2	<i>Tryonia adamantina</i> Taylor, 1987	Hydrobiidae	Snail, Diamond Y Spring	U.S.A. (TX)
C(w)	11	R2	<i>Tryonia kosteri</i> Taylor, 1987	Hydrobiidae	Tryonia, Koster's	U.S.A. (NM)
C	5	R2	<i>Tryonia stocktonensis</i> Taylor, 1987	Hydrobiidae	Springsnail, Gonzales	U.S.A. (TX)
INSECTS.						
C	3	R6	<i>Cicindela limbata albissima</i>	Cicindelidae	Beetle, Coral Pink Sand Dunes tiger	U.S.A. (UT)
C	2	R1	<i>Drosophila aglaia</i>	Drosophilidae	Pomace fly, [no common name]	U.S.A. (HI)
C	2	R1	<i>Drosophila attigua</i>	Drosophilidae	Pomace fly, [no common name]	U.S.A. (HI)
C	2	R1	<i>Drosophila diffrans</i>	Drosophilidae	Pomace fly, [no common name]	U.S.A. (HI)
C	2	R1	<i>Drosophila digressa</i>	Drosophilidae	Pomace fly, [no common name]	U.S.A. (HI)
C	2	R1	<i>Drosophila hemipeza</i>	Drosophilidae	Pomace fly, [no common name]	U.S.A. (HI)
C	2	R1	<i>Drosophila heteroneura</i>	Drosophilidae	Pomace fly, [no common name]	U.S.A. (HI)
C	2	R1	<i>Drosophila montgomeryi</i>	Drosophilidae	Pomace fly, [no common name]	U.S.A. (HI)
C	2	R1	<i>Drosophila mulli</i>	Drosophilidae	Pomace fly, [no common name]	U.S.A. (HI)
C	2	R1	<i>Drosophila musaphila</i>	Drosophilidae	Pomace fly, [no common name]	U.S.A. (HI)
C	2	R1	<i>Drosophila neoclavisetae</i>	Drosophilidae	Pomace fly, [no common name]	U.S.A. (HI)
C	2	R1	<i>Drosophila obatai</i>	Drosophilidae	Pomace fly, [no common name]	U.S.A. (HI)
C	2	R1	<i>Drosophila ochrobasis</i>	Drosophilidae	Pomace fly, [no common name]	U.S.A. (HI)
C	2	R1	<i>Drosophila substenoptera</i>	Drosophilidae	Pomace fly, [no common name]	U.S.A. (HI)
C	2	R1	<i>Drosophila tarphytrichia</i>	Drosophilidae	Pomace fly, [no common name]	U.S.A. (HI)
PE	2	R2	<i>Heterelmis comalensis</i>	Elmidae	Beetle, Comal Springs riffle	U.S.A. (TX)
C	3	R1	<i>Hypolimnias octocula mariannensis</i>	Nymphalidae	Butterfly, Mariana eight-spot	U.S.A. (GU, MP)
C	3	R1	<i>Icaricia icarioides fenderi</i>	Lycaenidae	Butterfly, Fender's blue	U.S.A. (OR)
PE	2	R1	<i>Manduca blackburni</i>	Sphingidae	Moth, Blackburn's sphinx	U.S.A. (HI)
C	2	R1	<i>Megalagrion leptodemus</i>	Coenagrionidae	Damselfly, crimson Hawaiian (=leptodemus megalagrion).	U.S.A. (HI)
C	2	R1	<i>Megalagrion nesiotus</i>	Coenagrionidae	Damselfly, flying earwig Hawaiian (=nesiotus megalagrion).	U.S.A. (HI)
C	9	R1	<i>Megalagrion nigrohamatum nigrolineatum.</i>	Coenagrionidae	Damselfly, blackline Hawaiian (=blackline megalagrion).	U.S.A. (HI)
Y		R1	<i>Megalagrion nigrolineatum</i>	*** see ***	<i>Megalagrion nigrohamatum nigrolineatum.</i>	
C	2	R1	<i>Megalagrion oceanicum</i>	Coenagrionidae	Damselfly, oceanic Hawaiian (=oceanic megalagrion).	U.S.A. (HI)
C	2	R1	<i>Megalagrion pacificum</i>	Coenagrionidae	Damselfly, Pacific Hawaiian (=Pacific megalagrion).	U.S.A. (HI)
C	8	R1	<i>Megalagrion xanthomelas</i>	Coenagrionidae	Damselfly, orangeblack Hawaiian (=orangeblack megalagrion).	U.S.A. (HI)
C	5	R1	<i>Phaeogramma</i> sp.	Tephritidae	Gall fly, Po'olanui	U.S.A. (HI)
C	8	R5	<i>Pseudanophthalmus holsingeri</i>	Carabidae	Beetle, Holsinger's cave	U.S.A. (VA)
PE	3	R1	<i>Speyeria callippe callippe</i>	Nymphalidae	Butterfly, Callippe silverspot	U.S.A. (CA)
PE	3	R1	<i>Speyeria zerene behrensii</i>	Nymphalidae	Butterfly, Behren's silverspot	U.S.A. (CA)
PE	1	R2	<i>Stygoparnus comalensis</i>	Dryopidae	Beetle, Comal Springs dryopid	U.S.A. (TX)
C	2	R1	<i>Vagrans egestina</i>	Nymphalidae	Butterfly, Mariana wandering	U.S.A. (GU, MP)
C	11	R6	<i>Zaitzevia thermiae</i>	Elmidae	Beetle, warm springs zaitzevian riffle	U.S.A. (MT)
ARACHNIDS.						
C	1	R1	<i>Adelocosa anops</i>	Lycosidae	Spider, Kauai cave wolf or pe'e pe'e maka 'ole.	U.S.A. (HI)
C	2	R2	<i>Cicurina wartoni</i>	Dictynidae	Spider, Warton's cave	U.S.A. (TX)
CRUSTACEANS.						
PE	2	R3	<i>Gammarus acherondytes</i>	Gammaridae	Amphipod, Illinois cave	U.S.A. (IL)
C	1	R1	<i>Spelaeorchestia koloana</i>	Talitridae	Amphipod, Kauai cave	U.S.A. (HI)
PE	2	R2	<i>Stygobromus (=Stygonectes) pecki</i>	Crangonyctidae	Amphipod, Peck's cave	U.S.A. (TX)
FLOWERING PLANTS.						
C	11	R1	<i>Abronia alpina</i>	Nyctaginaceae	Ramshaw Meadows sand-verbena	U.S.A. (CA)
PE	2	R1	<i>Acanthomintha ilicifolia</i>	Lamiaceae	San Diego thornmint	U.S.A. (CA), Mexico
C	8	R2	<i>Allium gooddingii</i>	Liliaceae	Goodding's onion	U.S.A. (AZ, NM)
PE	2	R1	<i>Allium munzii</i>	Liliaceae	Munz's onion	U.S.A. (CA)
PT	8	R1	<i>Allium tuolumnense</i>	Liliaceae	Rawhide Hill onion	U.S.A. (CA)

TABLE 1.—CANDIDATE AND PROPOSED ANIMALS AND PLANTS—Continued

Status	Lead re-gion	Scientific name	Family	Common name	Historic range	
Category	Priority					
PE ..	3 ..	R1 ..	<i>Alopecurus aequalis</i> var. <i>sonomensis</i> .	Poaceae	Sonoma alopecurus	U.S.A. (CA)
PT ...	8 ..	R1 ..	<i>Arabis johnstonii</i>	Brassicaceae	Johnston's rock-cress	U.S.A. (CA)
C	5 ..	R6 ..	<i>Arabis pusilla</i>	Brassicaceae	Small rock-cress	U.S.A. (WY)
PT ...	8 ..	R1 ..	<i>Arctostaphylos myrtifolia</i>	Ericaceae	lone manzanita	U.S.A. (CA)
PT ...	2 ..	R1 ..	<i>Arctostaphylos pallida</i>	Ericaceae	Pallid manzanita	U.S.A. (CA)
PT ...	2 ..	R1 ..	<i>Arenaria ursina</i>	Caryophyllaceae ..	Bear Valley sandwort	U.S.A. (CA)
C	2 ..	R1 ..	<i>Astelia waialealae</i>	Liliaceae	Pa'iniu	U.S.A. (HI)
PE ..	5 ..	R1 ..	<i>Astragalus clarianus</i>	Fabaceae	Clara Hunt's milk-vetch	U.S.A. (CA)
C	2 ..	R6 ..	<i>Astragalus desereticus</i>	Fabaceae	Deseret milk-vetch	U.S.A. (UT)
C	8 ..	R6 ..	<i>Astragalus equisolensis</i>	Fabaceae	Horseshoe milk-vetch	U.S.A. (UT)
C	3 ..	R6 ..	<i>Astragalus eremiticus</i> var. <i>ampullarioides</i> .	Fabaceae	Shem milk-vetch	U.S.A. (UT)
C	2 ..	R6 ..	<i>Astragalus holmgreniorum</i>	Fabaceae	Holmgren milk-vetch	U.S.A. (AZ, UT)
PE ..	2 ..	R1 ..	<i>Astragalus jaegerianus</i>	Fabaceae	Lane Mountain (=Coolgardie) milk-vetch.	U.S.A. (CA)
PE ..	9 ..	R1 ..	<i>Astragalus lentiginosus</i> var. <i>coachellae</i> .	Fabaceae	Coachella Valley milk-vetch	U.S.A. (CA)
PT ...	9 ..	R1 ..	<i>Astragalus lentiginosus</i> var. <i>micans</i>	Fabaceae	Shining (=shiny) milk-vetch	U.S.A. (CA)
PE ..	9 ..	R1 ..	<i>Astragalus lentiginosus</i> var. <i>piscinensis</i> .	Fabaceae	Fish Slough milk-vetch	U.S.A. (CA)
PT ...	3 ..	R1 ..	<i>Astragalus lentiginosus</i> var. <i>sesquimetralis</i> .	Fabaceae	Sodaville milk-vetch	U.S.A. (CA, NV)
PE ..	9 ..	R1 ..	<i>Astragalus magdalenae</i> var. <i>peirsonii</i> .	Fabaceae	Peirson's milk-vetch	U.S.A. (CA)
C	12	R1 ..	<i>Astragalus oophorus</i> var. <i>clokeyanus</i> .	Fabaceae	Clokey's egg-vetch	U.S.A. (NV)
PE ..	3 ..	R1 ..	<i>Astragalus tener</i> var. <i>titi</i>	Fabaceae	Coastal dunes milk-vetch	U.S.A. (CA)
C	2 ..	R6 ..	<i>Astragalus tortipes</i>	Fabaceae	Sleeping Ute milk-vetch	U.S.A. (CO)
PE ..	8 ..	R1 ..	<i>Astragalus tricarinatus</i>	Fabaceae	Triple-ribbed milk-vetch	U.S.A. (CA)
PE ..	3 ..	R1 ..	<i>Atriplex coronata</i> var. <i>notatior</i>	Chenopodiaceae ..	San Jacinto Valley crownscale (=saltbush).	U.S.A. (CA)
PE ..	2 ..	R1 ..	<i>Berberis nevini</i>	Berberidaceae	Nevin's barberry	U.S.A. (CA)
C	3 ..	R1 ..	<i>Bidens campylotheca</i> ssp. <i>waihoiensis</i> .	Asteraceae	Ko'oko'olau	U.S.A. (HI)
C	6 ..	R1 ..	<i>Bidens micrantha</i> ssp. <i>ctenophylla</i> ...	Asteraceae	Ko'oko'olau	U.S.A. (HI)
PT ...	2 ..	R1 ..	<i>Brodiaea filifolia</i>	Liliaceae	Thread-leaved brodiaea	U.S.A. (CA)
PE ..	2 ..	R1 ..	<i>Brodiaea pallida</i>	Liliaceae	Chinese Camp brodiaea	U.S.A. (CA)
C	8 ..	R1 ..	<i>Calochortus umpquaensis</i>	Liliaceae	Umpqua mariposa lily	U.S.A. (OR)
PE ..	2 ..	R1 ..	<i>Calyptidium pulchellum</i>	Portulacaceae	Mariposa pussy-paws	U.S.A. (CA)
C	2 ..	R1 ..	<i>Canavalia pubescens</i>	Fabaceae	'Awikiwiki	U.S.A. (HI)
PE ..	2 ..	R1 ..	<i>Carex albida</i>	Cyperaceae	White sedge	U.S.A. (CA)
PT ...	7 ..	R1 ..	<i>Carpenteria californica</i>	Saxifragaceae	Carpenteria	U.S.A. (CA)
C	5 ..	R6 ..	<i>Castilleja aquariensis</i>	Scrophulariaceae ..	Aquarius paintbrush	U.S.A. (UT)
C	11	R1 ..	<i>Castilleja christii</i>	Scrophulariaceae ..	Christ's paintbrush	U.S.A. (ID)
PT ...	2 ..	R1 ..	<i>Castilleja cinerea</i>	Scrophulariaceae ..	Ash-gray paintbrush	U.S.A. (CA)
C	2 ..	R2 ..	<i>Castilleja elongata</i>	Scrophulariaceae ..	Tall paintbrush	U.S.A. (TX)
C	2 ..	R4 ..	<i>Catesbaea melanocarpa</i>	Rubiaceae	None	U.S.A. (PR, VI), Antigua, Barbuda, Guadeloupe
PT ...	2 ..	R1 ..	<i>Ceanothus ophiochilus</i>	Rhamnaceae	Vail Lake ceanothus	U.S.A. (CA)
C	9 ..	R1 ..	<i>Chlorogalum purpureum</i> var. <i>purpureum</i> .	Liliaceae	Purple amole	U.S.A. (CA)
C	3 ..	R1 ..	<i>Chlorogalum purpureum</i> var. <i>reductum</i> .	Liliaceae	Camatta Canyon amole	U.S.A. (CA)
C	5 ..	R2 ..	<i>Cimicifuga arizonica</i>	Ranunculaceae	Arizona bugbane	U.S.A. (AZ)
PE ..	6 ..	R1 ..	<i>Cirsium hydrophilum</i> var. <i>hydrophilum</i> .	Asteraceae	Suisun thistle	U.S.A. (CA)
C	2 ..	R1 ..	<i>Cirsium loncholepis</i>	Asteraceae	La Graciosa thistle	U.S.A. (CA)
PE ..	2 ..	R1 ..	<i>Clarkia imbricata</i>	Onagraceae	Vine Hill clarkia	U.S.A. (CA)
PT ...	8 ..	R1 ..	<i>Clarkia springvillensis</i>	Onagraceae	Springville clarkia	U.S.A. (CA)
C	3 ..	R2 ..	<i>Clematis hirsutissima</i> var. <i>arizonica</i>	Ranunculaceae	Arizona leatherflower	U.S.A. (AZ)
PE ..	5 ..	R1 ..	<i>Clermontia samuelii</i>	Campanulaceae	'Oha wai	U.S.A. (HI)
PE ..	3 ..	R1 ..	<i>Cordylanthus mollis</i> ssp. <i>mollis</i>	Scrophulariaceae ..	Soft bird's-beak	U.S.A. (CA)
C	2 ..	R1 ..	<i>Cyanea asplenifolia</i>	Campanulaceae	Haha	U.S.A. (HI)
PE ..	3 ..	R1 ..	<i>Cyanea copelandii</i> ssp. <i>haleakalaensis</i> .	Campanulaceae	Haha	U.S.A. (HI)
C	2 ..	R1 ..	<i>Cyanea eleleensis</i>	Campanulaceae	Haha	U.S.A. (HI)
PE ..	2 ..	R1 ..	<i>Cyanea glabra</i>	Campanulaceae	Haha	U.S.A. (HI)

TABLE 1.—CANDIDATE AND PROPOSED ANIMALS AND PLANTS—Continued

Status	Lead re-gion	Scientific name	Family	Common name	Historic range	
						Cate-gory	Pri-ori-ty
PE ..	3 ..	R1 ..	<i>Cyanea hamatiflora</i> ssp. <i>hamatiflora</i>	Campanulaceae	Haha	U.S.A. (HI)
C	2 ..	R1 ..	<i>Cyanea kuhihewa</i>	Campanulaceae	Haha	U.S.A. (HI)
C	2 ..	R1 ..	<i>Cyanea obtusa</i>	Campanulaceae	Haha	U.S.A. (HI)
C	2 ..	R1 ..	<i>Cyrtandra filipes</i>	Gesneriaceae	Ha'iwale	U.S.A. (HI)
C	2 ..	R1 ..	<i>Cyrtandra oxybapha</i>	Gesneriaceae	Ha'iwale	U.S.A. (HI)
C	2 ..	R1 ..	<i>Cyrtandra sessilis</i>	Gesneriaceae	Ha'iwale	U.S.A. (HI)
C	2 ..	R2 ..	<i>Dalea tentaculoides</i>	Fabaceae	Gentry's indigobush	U.S.A. (AZ)
PE ..	2 ..	R1 ..	<i>Delphinium bakeri</i>	Ranunculaceae	Baker's larkspur	U.S.A. (CA)
PE ..	2 ..	R1 ..	<i>Delphinium luteum</i>	Ranunculaceae	Yellow larkspur	U.S.A. (CA)
PE ..	6 ..	R1 ..	<i>Dubautia plantaginea</i> ssp. <i>humilis</i> ...	Asteraceae	Na'ena'e	U.S.A. (HI)
C	3 ..	R1 ..	<i>Dubautia plantaginea</i> ssp. <i>magnifolia</i> .	Asteraceae	Na'ena'e	U.S.A. (HI)
PE ..	2 ..	R1 ..	<i>Dudleya stolonifera</i>	Crassulaceae	Laguna Beach liveforever	U.S.A. (CA)
C	6 ..	R2 ..	<i>Echinomastus erectocentrus</i> var. <i>acunensis</i> .	Cactaceae	Acuna cactus	U.S.A. (AZ), Mexico
C	8 ..	R1 ..	<i>Erigeron basalticus</i>	Asteraceae	Basalt daisy	U.S.A. (WA)
C	3 ..	R1 ..	<i>Erigeron decumbens</i> var. <i>decumbens</i> .	Asteraceae	Willamette daisy	U.S.A. (OR)
C	11 ..	R2 ..	<i>Erigeron lemmonii</i>	Asteraceae	Lemmon fleabane	U.S.A. (AZ)
C	2 ..	R1 ..	<i>Eriodictyon capitatum</i>	Hydrophyllaceae ..	Lompoc yerba santa	U.S.A. (CA)
PE ..	3 ..	R1 ..	<i>Eriogonum apricum</i> (incl. vars. <i>apricum</i> & <i>prostratum</i>).	Polygonaceae	lone buckwheat (=Irish Hill buck-wheat).	U.S.A. (CA)
C	5 ..	R1 ..	<i>Eriogonum argophyllum</i>	Polygonaceae	Sulphur Springs buckwheat	U.S.A. (NV)
C	5 ..	R1 ..	<i>Eriogonum kelloggii</i>	Polygonaceae	Red Mountain buckwheat	U.S.A. (CA)
PT ...	3 ..	R1 ..	<i>Eriogonum kennedyi</i> var. <i>austromontanum</i> .	Polygonaceae	Southern mountain wild buckwheat	U.S.A. (CA)
C	8 ..	R2 ..	<i>Festuca ligulata</i>	Poaceae	Guadalupe fescue	U.S.A. (TX), Mexico
PE ..	11 ..	R1 ..	<i>Fremontodendron mexicanum</i>	Sterculiaceae	Mexican flannelbush	U.S.A. (CA), Mexico
C	2 ..	R1 ..	<i>Fritillaria gentneri</i>	Liliaceae	Gentner's fritillaria (=Mission-bells) ..	U.S.A. (OR)
PT ...	8 ..	R1 ..	<i>Fritillaria striata</i>	Liliaceae	Greenhorn adobe-lily	U.S.A. (CA)
C	3 ..	R6 ..	<i>Gaura neomexicana</i> ssp. <i>coloradensis</i> .	Onagraceae	Colorado butterfly plant	U.S.A. (CO, NE, WY)
C	2 ..	R1 ..	<i>Geranium kauaiense</i>	Geraniaceae	Nohoanu	U.S.A. (HI)
C	5 ..	R6 ..	<i>Gilia caespitosa</i>	Polemoniaceae	Wonderland alice-flower (=Rabbit Valley gilia).	U.S.A. (UT)
PE ..	3 ..	R1 ..	<i>Hedyotis schlechtendahliana</i> var. <i>remyi</i> .	Rubiaceae	None	U.S.A. (HI)
C	5 ..	R5 ..	<i>Helenium virginicum</i>	Asteraceae	Virginia sneezeweed	U.S.A. (VA)
C	8 ..	R2 ..	<i>Helianthus paradoxus</i>	Asteraceae	Puzzle sunflower	U.S.A. (NM, TX)
PE ..	2 ..	R1 ..	<i>Hemizonia conjugens</i>	Asteraceae	Otay tarplant	U.S.A. (CA)
C	3 ..	R1 ..	<i>Hemizonia increscens</i> ssp. <i>villosa</i> ...	Asteraceae	Gaviota tarplant	U.S.A. (CA)
C	5 ..	R2 ..	<i>Hibiscus dasycalyx</i>	Malvaceae	Neches River rose-mallow	U.S.A. (TX)
C	2 ..	R1 ..	<i>Holocarpa macradenia</i>	Asteraceae	Santa Cruz tarplant	U.S.A. (CA)
PE ..	1 ..	R1 ..	<i>Kanaloa kahoolawensis</i>	Fabaceae	Kohe malama malama o Kanaloa ...	U.S.A. (HI)
PE ..	6 ..	R1 ..	<i>Labordia tinifolia</i> var. <i>lanaiensis</i>	Loganiaceae	Kamakahala	U.S.A. (HI)
PE ..	2 ..	R1 ..	<i>Labordia triflora</i>	Loganiaceae	Kamakahala	U.S.A. (HI)
C	5 ..	R1 ..	<i>Lathyrus biflorus</i>	Fabaceae	Two-flowered lathyrus	U.S.A. (CA)
C	5 ..	R2 ..	<i>Leavenworthia texana</i>	Brassicaceae	Texas golden gladecress	U.S.A. (TX)
C	5 ..	R4 ..	<i>Lesquerella stonensis</i>	Brassicaceae	Stones River bladderpod	U.S.A. (TN)
C	2 ..	R2 ..	<i>Lesquerella thamnophila</i>	Brassicaceae	Zapata bladderpod	U.S.A. (TX)
PE ..	3 ..	R1 ..	<i>Lilium pardalinum</i> ssp. <i>pitkinense</i> ...	Liliaceae	Pitkin Marsh lily	U.S.A. (CA)
C	3 ..	R1 ..	<i>Limnanthes floccosa</i> ssp. <i>grandiflora</i>	Limnanthaceae	Large-flowered wooly meadowfoam	U.S.A. (OR)
C	2 ..	R1 ..	<i>Lomatium cookii</i>	Apiaceae	Cook's lomatium	U.S.A. (OR)
PE ..	3 ..	R1 ..	<i>Lupinus citrinus</i> var. <i>deflexus</i>	Fabaceae	Mariposa lupine	U.S.A. (CA)
C	2 ..	R1 ..	<i>Lupinus nipomensis</i>	Fabaceae	Nipomo Mesa lupine	U.S.A. (CA)
C	2 ..	R1 ..	<i>Lysimachia venosa</i>	Primulaceae	None	U.S.A. (HI)
C	2 ..	R1 ..	<i>Melicope degeneri</i>	Rutaceae	Alani	U.S.A. (HI)
C	2 ..	R1 ..	<i>Melicope hiiakae</i>	Rutaceae	Alani	U.S.A. (HI)
C	2 ..	R1 ..	<i>Melicope macropus</i>	Rutaceae	Alani	U.S.A. (HI)
C	2 ..	R1 ..	<i>Melicope makahae</i>	Rutaceae	Alani	U.S.A. (HI)
PE ..	2 ..	R1 ..	<i>Melicope munroi</i>	Rutaceae	Alani	U.S.A. (HI)
C	2 ..	R1 ..	<i>Melicope paniculata</i>	Rutaceae	Alani	U.S.A. (HI)
PE ..	8 ..	R1 ..	<i>Mimulus shevockii</i>	Scrophulariaceae ..	Kelso Creek monkey-flower	U.S.A. (CA)
PE ..	3 ..	R1 ..	<i>Monardella linoides</i> ssp. <i>viminea</i>	Lamiaceae	Willowly monardella	U.S.A. (CA)
C	2 ..	R1 ..	<i>Myrsine mezii</i>	Myrsinaceae	Kolea	U.S.A. (HI)
C	8 ..	R5 ..	<i>Narthecium americanum</i>	Liliaceae	Bog asphodel	U.S.A. (DE, NC, NJ, NY, SC)
PT ...	2 ..	R1 ..	<i>Navarretia fossalis</i>	Polemoniaceae	Spreading navarretia	U.S.A. (CA), Mexico
Y .....	.....	R1 ..	<i>Navarretia pleantha</i>	*** see ***	<i>Navarretia leucocephala</i> ssp. <i>pleantha</i> .	

TABLE 1.—CANDIDATE AND PROPOSED ANIMALS AND PLANTS—Continued

Status	Lead re-gion	Scientific name	Family	Common name	Historic range	
						Cate-gory	Pri-riority
PT ...	2 ...	R1 ..	<i>Navarretia setiloba</i>	Polemoniaceae	Piute Mountains navarretia	U.S.A. (CA)
C	1 ...	R1 ..	<i>Nesogenes rotensis</i>	Verbenaceae	None	U.S.A. (MP)
PT ...	2 ...	R1 ..	<i>Nolina interrata</i>	Liliaceae	Dehesa bear-grass	U.S.A. (CA), Mexico
C	2 ...	R1 ..	<i>Ochrosia haleakalae</i>	Apocynaceae	Holei	U.S.A. (HI)
C	12 ...	R1 ..	<i>Opuntia whipplei</i> var. <i>multigeniculata</i>	Cactaceae	Blue Diamond cholla	U.S.A. (NV)
C	2 ...	R1 ..	<i>Osmoxylon mariannense</i>	Araliaceae	None	U.S.A. (MP)
C	11 ...	R2 ..	<i>Paronychia congesta</i>	Caryophyllaceae ...	Bushy whitlow-wort	U.S.A. (TX)
C	2 ...	R2 ..	<i>Pediocactus paradinei</i>	Cactaceae	Kaibab plains cactus	U.S.A. (AZ)
C	6 ...	R2 ..	<i>Pediocactus peeblesianus</i> var. <i>fickeiseniae</i>	Cactaceae	Fickeisen plains cactus	U.S.A. (AZ)
PE ..	2 ...	R6 ..	<i>Pediocactus winkleri</i>	Cactaceae	Winkler cactus	U.S.A. (UT)
C	5 ...	R6 ..	<i>Penstemon debilis</i>	Scrophulariaceae ..	Parachute beardtongue	U.S.A. (CO)
C	5 ...	R6 ..	<i>Penstemon grahamii</i>	Scrophulariaceae ..	Graham beardtongue	U.S.A. (CO, UT)
C	5 ...	R6 ..	<i>Penstemon scariosus</i> var. <i>albifluvis</i>	Scrophulariaceae ..	White River beardtongue	U.S.A. (CO, UT)
C	2 ...	R1 ..	<i>Peperomia subpetiolata</i>	Piperaceae	'Ala 'ala wai nui	U.S.A. (HI)
C	11 ...	R6 ..	<i>Phacelia submutica</i>	Hydrophyllaceae ...	DeBeque phacelia	U.S.A. (CO)
C	5 ...	R1 ..	<i>Phlox hirsuta</i>	Polemoniaceae	Yreka phlox	U.S.A. (CA)
C	2 ...	R1 ..	<i>Phyllostegia bracteata</i>	Lamiaceae	None	U.S.A. (HI)
C	2 ...	R1 ..	<i>Phyllostegia helleri</i>	Lamiaceae	None	U.S.A. (HI)
C	2 ...	R1 ..	<i>Phyllostegia hispida</i>	Lamiaceae	None	U.S.A. (HI)
C	2 ...	R1 ..	<i>Phyllostegia imminuta</i>	Lamiaceae	None	U.S.A. (HI)
PE ..	8 ...	R1 ..	<i>Piperia yadonii</i>	Orchidaceae	Yadon's piperia	U.S.A. (CA)
C	2 ...	R1 ..	<i>Plagiobothrys hirtus</i>	Boraginaceae	Rough popcornflower	U.S.A. (OR)
PE ..	2 ...	R1 ..	<i>Plagiobothrys strictus</i>	Boraginaceae	Calistoga allocarya	U.S.A. (CA)
C	2 ...	R1 ..	<i>Platydesma remyi</i>	Rutaceae	None	U.S.A. (HI)
C	2 ...	R1 ..	<i>Pleomele forbesii</i>	Agavaceae	Hala pepe	U.S.A. (HI)
PE ..	2 ...	R1 ..	<i>Poa atropurpurea</i>	Poaceae	San Bernardino bluegrass	U.S.A. (CA)
PE ..	2 ...	R1 ..	<i>Poa napensis</i>	Poaceae	Napa bluegrass	U.S.A. (CA)
PE ..	2 ...	R1 ..	<i>Potentilla hickmanii</i>	Rosaceae	Hickman's potentilla	U.S.A. (CA)
C	2 ...	R1 ..	<i>Psychotria grandiflora</i>	Rubiaceae	Kopiko	U.S.A. (HI)
C	3 ...	R1 ..	<i>Psychotria hexandra</i> ssp. <i>oahuensis</i>	Rubiaceae	Kopiko	U.S.A. (HI)
C	2 ...	R1 ..	<i>Psychotria hobydi</i>	Rubiaceae	Kopiko	U.S.A. (HI)
PE ..	2 ...	R2 ..	<i>Puccinellia parishii</i>	Poaceae	Parish's alkali grass	U.S.A. (AZ, CA, NM)
C	2 ...	R1 ..	<i>Ranunculus mauianensis</i>	Ranunculaceae	Makou	U.S.A. (HI)
C	2 ...	R2 ..	<i>Rumex orthoneurus</i>	Polygonaceae	Blumer's dock	U.S.A. (AZ)
C	2 ...	R1 ..	<i>Schiedea attenuata</i>	Caryophyllaceae ...	None	U.S.A. (HI)
C	3 ...	R1 ..	<i>Schiedea pubescens</i> var. <i>pubescens</i>	Caryophyllaceae ...	None	U.S.A. (HI)
C	2 ...	R1 ..	<i>Schiedea salicaria</i>	Caryophyllaceae ...	None	U.S.A. (HI)
C	5 ...	R1 ..	<i>Sedum eastwoodiae</i>	Crassulaceae	Red Mountain stonecrop	U.S.A. (CA)
C	9 ...	R1 ..	<i>Sidalcea hickmanii</i> ssp. <i>parishii</i>	Malvaceae	Parish's checkerbloom	U.S.A. (CA)
PE ..	2 ...	R1 ..	<i>Sidalcea keckii</i>	Malvaceae	Keck's checkermallow	U.S.A. (CA)
PE ..	3 ...	R1 ..	<i>Sidalcea oregana</i> ssp. <i>valida</i>	Malvaceae	Kenwood Marsh checkermallow	U.S.A. (CA)
PE ..	3 ...	R1 ..	<i>Sidalcea oregana</i> var. <i>calva</i>	Malvaceae	Wenatchee Mountains (=Oregon) checkermallow	U.S.A. (WA)
C	6 ...	R1 ..	<i>Silene campanulata</i> ssp. <i>campanulata</i>	Caryophyllaceae ...	Red Mountain catchfly (=campion) ..	U.S.A. (CA)
C	2 ...	R1 ..	<i>Stenogyne cranwelliae</i>	Lamiaceae	None	U.S.A. (HI)
C	2 ...	R1 ..	<i>Stenogyne kealiae</i>	Lamiaceae	None	U.S.A. (HI)
C	2 ...	R1 ..	<i>Tabernaemontana rotensis</i>	Apocynaceae	None	U.S.A. (GU, MP)
PE ..	2 ...	R1 ..	<i>Taraxacum californicum</i>	Asteraceae	California dandelion	U.S.A. (CA)
C	3 ...	R1 ..	<i>Thelypodium howellii</i> var. <i>spectabilis</i>	Brassicaceae	Howell's spectacular thelypody	U.S.A. (OR)
C	2 ...	R1 ..	<i>Thlaspi californicum</i>	Brassicaceae	Kneeland Prairie penny-cress	U.S.A. (CA)
PT ...	9 ...	R1 ..	<i>Trichostema austromontanum</i> ssp. <i>compactum</i>	Lamiaceae	Hidden Lake bluecurls	U.S.A. (CA)
PE ..	2 ...	R1 ..	<i>Trifolium amoenum</i>	Fabaceae	Showy Indian clover	U.S.A. (CA)
PE ..	2 ...	R1 ..	<i>Trifolium trichocalyx</i>	Fabaceae	Monterey (=Del Monte) clover	U.S.A. (CA)
PT ...	8 ...	R1 ..	<i>Verbena californica</i>	Verbenaceae	Red Hills vervain	U.S.A. (CA)
C	1 ...	R6 ..	<i>Yermo xanthocephalus</i>	Asteraceae	Desert yellowhead	U.S.A. (WY)
C	2 ...	R1 ..	<i>Zanthoxylum oahuense</i>	Rutaceae	A'e	U.S.A. (HI)
C	11 ...	R2 ..	<i>Zanthoxylum parvum</i>	Rutaceae	Shinner's tickle-tongue	U.S.A. (TX)
CONIFERS AND CYCADS.						
PT ...	3 ...	R1 ..	<i>Cupressus goveniana</i> ssp. <i>goveniana</i>	Cupressaceae	Gowen cypress	U.S.A. (CA)
FERNS AND ALLIES.						
C	2 ...	R1 ..	<i>Doryopteris takeuchii</i>	Pteridaceae	None	U.S.A. (HI)
C	2 ...	R1 ..	<i>Dryopteris tenebrosa</i>	Dryopteridaceae ..	None	U.S.A. (HI)
C	2 ...	R1 ..	<i>Microlepia mauianensis</i>	Dennstaedtiaceae ..	None	U.S.A. (HI)
C	2 ...	R1 ..	<i>Phlegmariurus stemmermanniae</i>	Lycopodiaceae	Lei lani firmoss	U.S.A. (HI)

TABLE 2.—FORMER CANDIDATE AND FORMER PROPOSED ANIMALS AND PLANTS

Status		Lead Region	Scientific name	Family	Common name	Historic range
Code	Expl.					
MAMMALS.						
R	N	R2	<i>Conepatus leuconotus texensis</i>	Mustelidae	Skunk, Gulf Coast hog-nosed	U.S.A. (TX), Mexico
E	L	R2	<i>Panthera onca</i>	Felidae	Jaguar (U.S. pop.)	U.S.A. (AZ, CA, LA, NM, TX)
BIRDS.						
E	L	R2	<i>Glaucidium brasilianum cactorum</i>	Strigidae	Pygmy-owl, cactus ferruginous (AZ pop.)	U.S.A. (AZ), Mexico
R	A	R2	<i>Glaucidium brasilianum cactorum</i>	Strigidae	Pygmy-owl, cactus ferruginous (TX pop.)	U.S.A. (TX), Mexico
T	L	R7	<i>Polysticta stelleri</i>	Anatidae	Eider, Steller's (AK breeding pop.)	U.S.A. (AK), Russia
REPTILES.						
T	L	R3	<i>Nerodia erythrogaster neglecta</i>	Colubridae	Snake, copperbelly water (northern pop.)	U.S.A. (IN, MI, OH)
R	A	R3	<i>Nerodia erythrogaster neglecta</i>	Colubridae	Snake, copperbelly water (southern pop.)	U.S.A. (IL, IN, KY)
R	A	R1	<i>Phrynosoma mcallii</i>	Iguanidae	Lizard, flat-tailed horned	U.S.A. (AZ, CA), Mexico
AMPHIBIANS.						
E	L	R2	<i>Ambystoma tigrinum stebbinsi</i>	Ambystomatidae	Salamander, Sonoran tiger	U.S.A. (AZ), Mexico
T	L	R4	<i>Eleutherodactylus cooki</i>	Leptodactylidae	Guajón or rock frog	U.S.A. (PR)
E	L	R2	<i>Eurycea sosorum</i>	Plethodontidae	Salamander, Barton Springs	U.S.A. (TX)
T	L	R1	<i>Rana aurora draytonii</i>	Ranidae	Frog, California red-legged	U.S.A. (CA), Mexico
R	A	R2	<i>Rana subaquavocalis</i>	Ranidae	Frog, Ramsey Canyon leopard	U.S.A. (AZ)
FISHES.						
R	X	R1	<i>Gila bicolor</i> ssp.	Cyprinidae	Chub, High Rock Spring tui	U.S.A. (CA, NV)
R	A	R1	<i>Salvelinus confluentus</i>	Salmonidae	Trout, bull (coastal/Puget Sound pop.)	U.S.A. (CA, ID, MT, NV, OR, WA), Canada
R	A	R1	<i>Salvelinus confluentus</i>	Salmonidae	Trout, bull (Jarbidge R. pop.)	U.S.A. (CA, ID, MT, NV, OR, WA), Canada
R	A	R1	<i>Salvelinus confluentus</i>	Salmonidae	Trout, bull (Saskatchewan R. pop.)	U.S.A. (CA, ID, MT, NV, OR, WA), Canada
CLAMS.						
E	L	R4	<i>Alasmodonta atropurpurea</i> (Rafinesque, 1831).	Unionidae	Elktoe, Cumberland	U.S.A. (KY, TN)
E	L	R4	<i>Epioblasma brevidens</i> (I. Lea, 1831)	Unionidae	Combshell, Cumberlandian	U.S.A. (AL, KY, TN, VA)
E	L	R4	<i>Epioblasma capsaeformis</i> (I. Lea, 1834).	Unionidae	Mussel, oyster	U.S.A. (AL, KY, TN, VA)
E	L	R4	<i>Quadrula cylindrica strigillata</i> (B.H. Wright, 1898).	Unionidae	Rabbitsfoot, rough	U.S.A. (KY, TN, VA)
E	L	R4	<i>Villosa perpurpurea</i> (I. Lea, 1861)	Unionidae	Bean, purple	U.S.A. (TN, VA)
INSECTS.						
R	A	R1	<i>Pleocoma conjugens conjugens</i>	Scarabaeidae	Beetle, Santa Cruz rain	U.S.A. (CA)
R	X	R1	<i>Drosophila alsophila</i>	Drosophilidae	Pomace fly, [no common name]	U.S.A. (HI)
R	X	R1	<i>Drosophila psilotarsalis</i>	Drosophilidae	Pomace fly, [no common name]	U.S.A. (HI)
R	X	R1	<i>Drosophila toxochaeta</i>	Drosophilidae	Pomace fly, [no common name]	U.S.A. (HI)
E	L	R1	<i>Euphydryas editha quino</i> (=E. e. wrighti).	Nymphalidae	Butterfly, Quino checkerspot	U.S.A. (CA), Mexico
R	X	R1	<i>Euploea eleutho</i>	Danaidae	Butterfly, Marianas euploea	U.S.A. (GU, MP)
E	L	R1	<i>Polyphylla barbata</i>	Scarabaeidae	Beetle, Mount Hermon June	U.S.A. (CA)
E	L	R1	<i>Pyrgus ruralis lagunae</i>	Hesperiidae	Skipper, Laguna Mountains	U.S.A. (CA)
E	L	R1	<i>Trimerotropis infantilis</i>	Acrididae	Grasshopper, Zayante band-winged	U.S.A. (CA)
CRUSTACEANS.						
E	L	R1	<i>Branchinecta sandiegoensis</i>	Branchinectidae	Fairy shrimp, San Diego	U.S.A. (CA)
FLOWERING PLANTS.						
E	L	R1	<i>Achyranthes mutica</i>	Amaranthaceae	None	U.S.A. (HI)
E	L	R1	<i>Alsinidendron lychnoides</i>	Caryophyllaceae	Kuawawaenohu	U.S.A. (HI)
E	L	R1	<i>Alsinidendron viscosum</i>	Caryophyllaceae	None	U.S.A. (HI)
E	L	R1	<i>Amaranthus brownii</i>	Amaranthaceae	None	U.S.A. (HI)
E	L	R1	<i>Arabis hoffmannii</i>	Brassicaceae	Hoffmann's rock-cress	U.S.A. (CA)
E	L	R1	<i>Arctostaphylos confertiflora</i>	Ericaceae	Santa Rosa Island manzanita	U.S.A. (CA)
E	L	R1	<i>Arctostaphylos glandulosa</i> ssp. <i>crassifolia</i> .	Ericaceae	Del Mar manzanita	U.S.A. (CA), Mexico

TABLE 2.—FORMER CANDIDATE AND FORMER PROPOSED ANIMALS AND PLANTS—Continued

Status Code	Expl.	Lead Region	Scientific name	Family	Common name	Historic range
R	A	R1	<i>Arctostaphylos imbricata</i>	Ericaceae	San Bruno Mountain manzanita	U.S.A. (CA)
E	L	R1	<i>Astragalus brauntonii</i>	Fabaceae	Braunton's milk-vetch	U.S.A. (CA)
T	L	R1	<i>Baccharis vanessae</i>	Asteraceae	Encinitis baccharis (=coyote bush)	U.S.A. (CA)
E	L	R1	<i>Berberis pinnata</i> ssp. <i>insularis</i>	Berberidaceae	Island barberry	U.S.A. (CA)
E	L	R1	<i>Calystegia stebbinsii</i>	Convolvulaceae	Stebbins' morning-glory	U.S.A. (CA)
T	L	R1	<i>Castilleja campestris</i> ssp. <i>succulenta</i>	Scrophulariaceae	Fleshy owl's-clover	U.S.A. (CA)
T	L	R1	<i>Castilleja levisecta</i>	Scrophulariaceae	Golden paintbrush	U.S.A. (OR, WA), Canada
E	L	R1	<i>Castilleja mollis</i>	Scrophulariaceae	Soft-leaved paintbrush	U.S.A. (CA)
E	L	R1	<i>Ceanothus roderickii</i>	Rhamnaceae	Pine Hill ceanothus	U.S.A. (CA)
E	L	R1	<i>Cenchrus agrimonioides</i>	Poaceae	Kamanomano (=agrimony sandbur)	U.S.A. (HI)
E	L	R1	<i>Cercocarpus traskiae</i>	Rosaceae	Catalina Island mountain-mahogany	U.S.A. (CA)
E	L	R1	<i>Chamaesyce herbstii</i>	Euphorbiaceae	'Akoko	U.S.A. (HI)
T	L	R1	<i>Chamaesyce hooveri</i>	Euphorbiaceae	Hoover's spurge	U.S.A. (CA)
E	L	R1	<i>Chamaesyce rockii</i>	Euphorbiaceae	'Akoko	U.S.A. (HI)
R	A	R1	<i>Cirsium rathophilum</i>	Asteraceae	Surf thistle	U.S.A. (CA)
E	L	R1	<i>Chorizanthe orcuttiana</i>	Polygonaceae	Orcutt's spineflower	U.S.A. (CA)
R	A	R1	<i>Clarkia lingulata</i>	Onagraceae	Merced clarkia	U.S.A. (CA)
E	L	R1	<i>Clermontia drepanomorpha</i>	Campanulaceae	'Oha wai	U.S.A. (HI)
R	A	R4	<i>Coccoloba rugosa</i>	Polygonaceae	None	U.S.A. (PR)
E	L	R4	<i>Cordia bellonis</i>	Boraginaceae	None	U.S.A. (PR)
R	N	R1	<i>Corethrogyne flaginifolia</i> var. <i>linifolia</i>	Asteraceae	Del Mar sand aster	U.S.A. (CA)
E	L	R1	<i>Cyanea acuminata</i>	Campanulaceae	Haha	U.S.A. (HI)
E	L	R1	<i>Cyanea dunbarii</i>	Campanulaceae	Haha	U.S.A. (HI)
E	L	R1	<i>Cyanea grimesiana</i> ssp. <i>grimesiana</i>	Campanulaceae	Haha	U.S.A. (HI)
E	L	R1	<i>Cyanea (=Rollandia) humboldtiana</i>	Campanulaceae	Haha	U.S.A. (HI)
E	L	R1	<i>Cyanea koolauensis</i>	Campanulaceae	Haha	U.S.A. (HI)
E	L	R1	<i>Cyanea longiflora</i>	Campanulaceae	Haha	U.S.A. (HI)
E	L	R1	<i>Cyanea platyphylla</i>	Campanulaceae	Haha	U.S.A. (HI)
T	L	R1	<i>Cyanea recta</i>	Campanulaceae	Haha	U.S.A. (HI)
E	L	R1	<i>Cyanea remyi</i>	Campanulaceae	Haha	U.S.A. (HI)
E	L	R1	<i>Cyanea (=Rollandia) st-johnii</i>	Campanulaceae	Haha	U.S.A. (HI)
E	L	R1	<i>Cyperus trachysanthos</i>	Cyperaceae	Pu'uka'a	U.S.A. (HI)
E	L	R1	<i>Cyrtandra cyaneoides</i>	Gesneriaceae	Mapele	U.S.A. (HI)
E	L	R1	<i>Cyrtandra dentata</i>	Gesneriaceae	Ha'iwale	U.S.A. (HI)
E	L	R1	<i>Cyrtandra subumbellata</i>	Gesneriaceae	Ha'iwale	U.S.A. (HI)
E	L	R1	<i>Cyrtandra viridiflora</i>	Gesneriaceae	Ha'iwale	U.S.A. (HI)
E	L	R1	<i>Delissea rivularis</i>	Campanulaceae	'Oha	U.S.A. (HI)
E	L	R1	<i>Delissea subcordata</i>	Campanulaceae	'Oha	U.S.A. (HI)
E	L	R1	<i>Delissea undulata</i>	Campanulaceae	None	U.S.A. (HI)
R	A	R1	<i>Downingia concolor</i> var. <i>brevior</i>	Campanulaceae	Cuyamaca Lake downingia	U.S.A. (CA)
T	L	R1	<i>Dudleya abramsii</i> ssp. <i>parva</i>	Crassulaceae	Conejo dudleya	U.S.A. (CA)
R	A	R1	<i>Dudleya blochmaniae</i> ssp. <i>brevifolia</i>	Crassulaceae	Short-leaved dudleya	U.S.A. (CA)
R	A	R1	<i>Dudleya blochmaniae</i> ssp. <i>insularis</i>	Crassulaceae	Santa Rosa Island dudleya	U.S.A. (CA)
T	L	R1	<i>Dudleya cymosa</i> ssp. <i>marcescens</i>	Crassulaceae	Marcescent dudleya	U.S.A. (CA)
T	L	R1	<i>Dudleya cymosa</i> ssp. <i>ovatifolia</i>	Crassulaceae	Santa Monica Mountains dudleya	U.S.A. (CA)
R	A	R1	<i>Dudleya densiflora</i>	Crassulaceae	San Gabriel Mountains dudleya	U.S.A. (CA)
T	L	R1	<i>Dudleya nesiotica</i>	Crassulaceae	Santa Cruz Island dudleya	U.S.A. (CA)
R	A	R1	<i>Dudleya</i> sp. nov. /ined. "East Point"	Crassulaceae	Munchkin dudleya	U.S.A. (CA)
T	L	R1	<i>Dudleya verityi</i>	Crassulaceae	Verity's dudleya	U.S.A. (CA)
E	L	R1	<i>Eragrostis fosbergii</i>	Poaceae	Fosberg's love grass	U.S.A. (HI)
E	L	R1	<i>Euphorbia haeleleana</i>	Euphorbiaceae	'Akoko	U.S.A. (HI)
E	L	R1	<i>Fremontodendron californicum</i> ssp. <i>decumbens</i>	Sterculiaceae	Pine Hill flannelbush	U.S.A. (CA)
E	L	R1	<i>Galium buxifolium</i>	Rubiaceae	Island bedstraw	U.S.A. (CA)
E	L	R1	<i>Galium californicum</i> ssp. <i>sierrae</i>	Rubiaceae	El Dorado bedstraw	U.S.A. (CA)
E	L	R1	<i>Gardenia mannii</i>	Rubiaceae	Nanu	U.S.A. (HI)
E	L	R1	<i>Gilia tenuiflora</i> ssp. <i>hoffmannii</i>	Polemoniaceae	Hoffmann's gilia	U.S.A. (CA)
T	L	R1	<i>Helianthemum greenii</i>	Cistaceae	Island rush-rose	U.S.A. (CA)
T	L	R4	<i>Helianthus eggertii</i>	Asteraceae	Eggert's sunflower	U.S.A. (AL, KY, TN)
R	A	R1	<i>Heuchera maxima</i>	Saxifragaceae	Island alumroot	U.S.A. (CA)
E	L	R1	<i>Hibiscadelphus giffardianus</i>	Malvaceae	Hau kuahiwi	U.S.A. (HI)
E	L	R1	<i>Hibiscadelphus hualalaiensis</i>	Malvaceae	Hau kuahiwi	U.S.A. (HI)
E	L	R1	<i>Hibiscadelphus woodii</i>	Malvaceae	Hau kuahiwi	U.S.A. (HI)
E	L	R1	<i>Hibiscus waimeae</i> ssp. <i>hannerae</i>	Malvaceae	Koki'o ke'oke'o	U.S.A. (HI)
E	L	R1	<i>Isodendron laurifolium</i>	Violaceae	Aupaka	U.S.A. (HI)
T	L	R1	<i>Isodendron longifolium</i>	Violaceae	Aupaka	U.S.A. (HI)
E	L	R4	<i>Juglans jamaicensis</i>	Juglandaceae	Nogal or West Indian walnut	U.S.A. (PR), Cuba, Hispaniola
E	L	R1	<i>Kokia kauaiensis</i>	Malvaceae	Koki'o	U.S.A. (HI)

TABLE 2.—FORMER CANDIDATE AND FORMER PROPOSED ANIMALS AND PLANTS—Continued

Status Code	Expl.	Lead Region	Scientific name	Family	Common name	Historic range
E	L	R1	<i>Labordia cyrtandrae</i>	Loganiaceae	Kamakahala	U.S.A. (HI)
E	L	R1	<i>Labordia tinifolia</i> var. <i>wahiawaensis</i>	Loganiaceae	Kamakahala	U.S.A. (HI)
E	L	R1	<i>Lasthenia conjugens</i>	Asteraceae	Contra Costa goldfields	U.S.A. (CA)
E	L	R1	<i>Lepidium arbuscula</i>	Brassicaceae	'Anaunau	U.S.A. (HI)
E	L	R4	<i>Lesquerella perforata</i>	Brassicaceae	Spring Creek bladderpod	U.S.A. (TN)
E	L	R1	<i>Lessingia germanorum</i> (=var. <i>germanorum</i>).	Asteraceae	San Francisco lessingia	U.S.A. (CA)
E	L	R2	<i>Lilaeopsis schaffneriana</i> ssp. <i>recurva</i> .	Apiaceae	Huachuca water-umbel	U.S.A. (AZ), Mexico
R	A	R1	<i>Limnanthes gracilis</i> ssp. <i>parishii</i>	Limnanthaceae	Parish's meadowfoam	U.S.A. (CA)
E	L	R1	<i>Lithophragma maximum</i>	Saxifragaceae	San Clemente Island woodland-star	U.S.A. (CA)
E	L	R1	<i>Lobelia gaudichaudii</i> ssp. <i>koolauensis</i> .	Campanulaceae	None	U.S.A. (HI)
E	L	R1	<i>Lobelia monostachya</i>	Campanulaceae	None	U.S.A. (HI)
E	L	R1	<i>Lysimachia maxima</i> (= <i>ternifolia</i>)	Primulaceae	None	U.S.A. (HI)
E	L	R1	<i>Malacothamnus fasciculatus</i> var. <i>nesioticus</i> .	Malvaceae	Santa Cruz Island bush-mallow	U.S.A. (CA)
E	L	R1	<i>Malacothrix indecora</i>	Asteraceae	Santa Cruz Island malacothrix	U.S.A. (CA)
E	L	R1	<i>Malacothrix squalida</i>	Asteraceae	Island malacothrix	U.S.A. (CA)
E	L	R1	<i>Melicope saint-johnii</i>	Rutaceae	Alani	U.S.A. (HI)
E	L	R1	<i>Melicope zahlbruckneri</i>	Rutaceae	Alani	U.S.A. (HI)
E	L	R1	<i>Myrsine juddii</i>	Myrsinaceae	Kolea	U.S.A. (HI)
T	L	R1	<i>Myrsine linearifolia</i>	Myrsinaceae	None	U.S.A. (HI)
E	L	R1	<i>Navarretia leucocephala</i> ssp. <i>pauciflora</i> .	Polemoniaceae	Few-flowered navarretia	U.S.A. (CA)
E	L	R1	<i>Navarretia leucocephala</i> ssp. <i>pliantha</i> .	Polemoniaceae	Many-flowered navarretia	U.S.A. (CA)
T	L	R1	<i>Neostaphia colusana</i>	Poaceae	Colusa grass	U.S.A. (CA)
E	L	R1	<i>Neraudia ovata</i>	Urticaceae	None	U.S.A. (HI)
T	L	R1	<i>Orcuttia inaequalis</i>	Poaceae	San Joaquin orcutt grass	U.S.A. (CA)
E	L	R1	<i>Orcuttia pilosa</i>	Poaceae	Hairy (=pilose) orcutt grass	U.S.A. (CA)
T	L	R1	<i>Orcuttia tenuis</i>	Poaceae	Slender orcutt grass	U.S.A. (CA)
E	L	R1	<i>Orcuttia viscida</i>	Poaceae	Sacramento orcutt grass	U.S.A. (CA)
E	L	R1	<i>Panicum niuhauense</i>	Poaceae	Lau 'ehu	U.S.A. (HI)
E	L	R1	<i>Parvisedum leiocarpum</i>	Crassulaceae	Lake County stonecrop	U.S.A. (CA)
E	L	R1	<i>Pentachaeta lyonii</i>	Asteraceae	Lyon's pentachaeta	U.S.A. (CA)
E	L	R1	<i>Phacelia insularis</i> var. <i>insularis</i>	Hydrophyllaceae	Island phacelia	U.S.A. (CA)
E	L	R1	<i>Phyllostegia hirsuta</i>	Lamiaceae	None	U.S.A. (HI)
E	L	R1	<i>Phyllostegia kaalaensis</i>	Lamiaceae	None	U.S.A. (HI)
E	L	R1	<i>Phyllostegia knudsenii</i>	Lamiaceae	None	U.S.A. (HI)
E	L	R1	<i>Phyllostegia parviflora</i>	Lamiaceae	None	U.S.A. (HI)
E	L	R1	<i>Phyllostegia racemosa</i>	Lamiaceae	Kiponapona	U.S.A. (HI)
E	L	R1	<i>Phyllostegia velutina</i>	Lamiaceae	None	U.S.A. (HI)
E	L	R1	<i>Phyllostegia warshaueri</i>	Lamiaceae	None	U.S.A. (HI)
E	L	R1	<i>Phyllostegia wawrana</i>	Lamiaceae	None	U.S.A., (HI)
E	L	R1	<i>Platanthera holochila</i>	Orchidaceae	None	U.S.A. (HI)
E	L	R1	<i>Pleomele hawaiiensis</i>	Liliaceae	Hala pepe	U.S.A. (HI)
E	L	R1	<i>Pritchardia aylmer-robinsonii</i>	Arecaceae	Wahane (=hawane or lo'ulu)	U.S.A. (HI)
E	L	R1	<i>Pritchardia kaalae</i>	Arecaceae	Lo'ulu	U.S.A. (HI)
E	L	R1	<i>Pritchardia napaliensis</i>	Arecaceae	Lo'ulu	U.S.A. (HI)
E	L	R1	<i>Pritchardia remota</i>	Arecaceae	Lo'ulu	U.S.A. (HI)
E	L	R1	<i>Pritchardia schattaueri</i>	Arecaceae	Lo'ulu	U.S.A. (HI)
E	L	R1	<i>Pritchardia viscosa</i>	Arecaceae	Lo'ulu	U.S.A. (HI)
E	L	R1	<i>Pseudobahia bahiifolia</i>	Asteraceae	Hartweg's golden sunburst	U.S.A. (CA)
T	L	R1	<i>Pseudobahia peirsonii</i>	Asteraceae	San Joaquin adobe sunburst	U.S.A. (CA)
E	L	R1	<i>Sanicula purpurea</i>	Apiaceae	None	U.S.A. (HI)
E	L	R1	<i>Schiedea helleri</i>	Caryophyllaceae	None	U.S.A. (HI)
E	L	R1	<i>Schiedea hookeri</i>	Caryophyllaceae	None	U.S.A. (HI)
E	L	R1	<i>Schiedea kauaiensis</i>	Caryophyllaceae	None	U.S.A. (HI)
E	L	R1	<i>Schiedea kealiae</i>	Caryophyllaceae	Ma'oli'oli	U.S.A. (HI)
E	L	R1	<i>Schiedea membranacea</i>	Caryophyllaceae	None	U.S.A. (HI)
E	L	R1	<i>Schiedea nuttallii</i>	Caryophyllaceae	None	U.S.A. (HI)
E	L	R1	<i>Schiedea sarmentosa</i>	Caryophyllaceae	None	U.S.A. (HI)
E	L	R1	<i>Schiedea stellarioides</i>	Caryophyllaceae	Laulihilihi (=ma'oli'oli)	U.S.A. (HI)
E	L	R1	<i>Schiedea verticillata</i>	Caryophyllaceae	None	U.S.A. (HI)
T	M	R6	<i>Sclerocactus</i> (= <i>Echinocactus</i> , = <i>Pediocactus</i>) <i>brevispinus</i> (= <i>glaucus</i>).	Cactaceae	Pariette cactus	U.S.A. (UT)
T	L	R1	<i>Senecio layneae</i>	Asteraceae	Layne's butterweed	U.S.A. (CA)
E	L	R1	<i>Sibara filifolia</i>	Brassicaceae	Santa Cruz Island rockcross	U.S.A. (CA)

TABLE 2.—FORMER CANDIDATE AND FORMER PROPOSED ANIMALS AND PLANTS—Continued

Status		Lead Region	Scientific name	Family	Common name	Historic range			
Code	Expl.								
E	L	.....	R1	..	<i>Sicyos alba</i>	Cucurbitaceae	'Anunu	U.S.A. (HI)
E	L	.....	R2	..	<i>Spiranthes delitescens</i>	Orchidaceae	Canelo Hills ladies'-tresses	U.S.A. (AZ)
E	L	.....	R1	..	<i>Thysanocarpus conchuliferus</i>	Brassicaceae	Santa Cruz Island lacepod (=fringe pod).	U.S.A. (CA)
E	L	.....	R1	..	<i>Trematolobelia singularis</i>	Campanulaceae	None	U.S.A. (HI)
E	L	.....	R1	..	<i>Tuctoria greenei</i>	Poaceae	Greene's tuctoria (=orcutt grass)	U.S.A. (CA)
T	L	.....	R1	..	<i>Verbesina dissita</i>	Asteraceae	Big-leaved crownbeard	U.S.A. (CA), Mexico
E	L	.....	R1	..	<i>Viola kauaiensis</i> var. <i>wahiawaensis</i>	Violaceae	Nani wai'ale'ale	U.S.A. (HI)
E	L	R1	..	<i>Viola oahuensis</i>	Violaceae	None	U.S.A. (HI)
E	L	R1	..	<i>Zanthoxylum dipetalum</i> var. <i>tomentosum</i> .	Rutaceae	A'e	U.S.A. (HI)

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