APPENDIX C

Federal Noxious Weed List (as of January 6, 2006)

Aquatic/Wetland

Azolla pinnata R. Brown (mosquito fern, water velvet)
Caulerpa taxifolia (Vahl) C. Agardh, Mediterranean strain (killer algae)
Eichornia azurea (Swartz) Kunth (anchored waterhyacinth, rooted waterhyacinth)
Hydrilla verticillata (Linnaeus f.) Royle (hydrilla)
Hygrophila polysperma T. Anderson (Miramar weed)
Ipomoea aquatica Forsskal (water-spinach, swamp morning-glory)
Lagarosiphon major (Ridley) Moss
Limnophila sessiliflora (Vahl) Blume (ambulia)
Melaleuca quinquenervia (Cav.) Blake (broadleaf paper bark tree).
Monochoria hastata (Linnaeus) Solms-Laubach
Monochoria vaginalis (Burman f.) C. Presl
Ottelia alismoides (L.) Pers.
Sagittaria sagittifolia Linnaeus (arrowhead)
Salvinia auriculata Aublet (giant salvinia)
Salvinia biloba Raddi (giant salvinia)
Salvinia herzogii de la Sota (giant salvinia)
Salvinia molesta D.S. Mitchell (giant salvinia)
Solanum tampicense Dunal (wetland nightshade)
Sparganium erectum Linnaeus (exotic bur-reed)

Parasitic

Aeginetia spp.
Alectra spp.
Cuscuta spp. (dodders), other than following species:
Cuscuta americana Linnaeus
Cuscuta applanata Engelmann
Cuscuta approximata Babington
Cuscuta attenuata Waterfall
Cuscuta boldinghii Urban
Cuscuta brachycalyx (Yuncker) Yuncker
Cuscuta californica Hooker & Arnott
Cuscuta campestris Yuncker
Cuscuta cassytoides Nees ex Engelmann
Cuscuta ceanothii Behr
Cuscuta cephalanthii Engelmann
Cuscuta compacta Jussieu
Cuscuta corylii Engelmann
Cuscuta cuspidata Engelmann
Cuscuta decipiens Yuncker
Cuscuta dentatasquamata Yuncker
Cuscuta denticulata Engelmann

Cuscuta epilinum Weihe
Cuscuta epithymum (Linnaeus) Linnaeus
Cuscuta erosa Yuncker
Cuscuta europaea Linnaeus
Cuscuta exalta Engelmann
Cuscuta fasciculata Yuncker
Cuscuta glabrior (Engelmann) Yuncker
Cuscuta globulosa Bentham
Cuscuta glomerata Choisy
Cuscuta gronovii Willdenow
Cuscuta harperi Small
Cuscuta howelliana Rubtzoff
Cuscuta indecora Choisy
Cuscuta jepsonii Yuncker
Cuscuta leptantha Engelmann
Cuscuta mitriformis Engelmann
Cuscuta nevadensis I. M. Johnston
Cuscuta obtusiflora Humboldt, Bonpland, & Kunth
Cuscuta occidentalis Millspaugh ex Mill & Nuttall
Cuscuta odontolepis Engelmann
Cuscuta pentagona Engelmann
Cuscuta planiflora Tenore
Cuscuta plattensis A. Nelson
Cuscuta polygonorum Engelmann
Cuscuta rostrata Shuttleworth ex Engelmann
Cuscuta runyonii Yuncker
Cuscuta salina Engelmann
Cuscuta sandwichiana Choisy
Cuscuta squamata Engelmann
Cuscuta suaveolens Seringe
Cuscuta suksdorfii Yuncker
Cuscuta tuberculata Brandegee
Cuscuta umbellata Humboldt, Bonpland, & Kunth
Cuscuta umbrosa Beyrich ex Hooker
Cuscuta vetchii Brandegee
Cuscuta warneri Yuncker
Orobanche spp. (broomrapes), other than the following species:
  Orobanche bulbosa (Gray) G. Beck
  Orobanche californica Schlechtendal & Chamisso
  Orobanche cooperi (Gray) Heller
  Orobanche corymbosa (Rydberg) Ferris
  Orobanche dugesii (S. Watson) Munz
  Orobanche fasciculata Nuttall
  Orobanche ludoviciana Nuttall
  Orobanche multicaulis Brandegee
  Orobanche parishii (Jepson) Heckard

Orobanche pinorum Geyer ex Hooker
Orobanche uniflora Linnaeus
Orobanche valida Jepson
Orobanche vallicola (Jepson) Heckard
Striga spp. (witchweeds)

Terrestrial

Ageratina adenophora (Sprengel) King & Robinson (crofton weed)
Alternanthera sessilis (Linnaeus) R. Brown ex de Candolle (sessile joyweed)
Asphodelus fistulosus Linnaeus (onionweed)
Avena sterilis Linnaeus (including Avena ludoviciana Durieu) (animated oat, wild oat)
Carthamus oxyacantha M. Bieberstein (wild safflower)
Chrysopogon aciculatus (Retzius) Trinius (pilipiliula)
Commelina benghalensis Linnaeus (Benghal dayflower)
Crupina vulgaris Cassini (common crupina)
Digitaria scalarum (Schweinfurth) Chiovenda (African couchgrass, fingergrass)
Digitaria velutina (Forsskal) Palisot de Beauvois (velvet fingergrass, annual conchgrass)
Drymaria arenarioides Humboldt & Bonpland ex Roemer & Schultes (lightning weed)
Emex australis Steinheil (three-cornered jack)
Emex spinosa (Linnaeus) Campdera (devil's thorn)
Galega officinalis Linnaeus (goatsrue)
Heracleum mantegazzianum Sommier & Levier (giant hogweed)
Homeria spp.
Imperata brasiliensis Trinius (Brazilian satintail)
Imperata cylindrica (Linnaeus) Raeuschel (cogongrass)
Ischaemum rugosum Salisbury (murainograss)
Leptochloa chinensis (Linnaeus) Nees (Asian sprangletop)
Lycium ferocissimum Miers (African boxthorn)
Melastoma malabathricum Linnaeus
Mikania cordata (Burman f.) B. L. Robinson (mile-a-minute)
Mikania micrantha Humboldt, Bonpland, & Kunth
Mimosa invisa Martius (giant sensitive plant)
Mimosa pigra Linneaus var. pigra (catclaw mimosa)
Nassella trichotoma (Nees) Hackel ex Arechavaleta (serrated tussock)
Opuntia aurantiaca Lindley (jointed prickly pear)
Oryza longistaminata A. Chevalier & Roehrich (red rice)
Oryza punctata Kotschy ex Steudel (red rice)
Oryza rufipogon Griffith (red rice)
Paspalum scrobiculatum Linnaeus (Kodo-millet)
Pennisetum clandestinum Hochstetter ex Chiovenda (kikuyugrass)
Pennisetum macrourum Trinius (African feathergrass)
Pennisetum pedicellatum Trinius (kyasumagrass)
Pennisetum polystachion (Linnaeus) Schultes (missiongrass, thin napiergrass)
Prosopis alpataco R. A. Philippi
Prosopis argentina Burkart

Prosopis articulata S. Watson
Prosopis burkartii Munoz
Prosopis caldenia Burkart
Prosopis calingastana Burkart
Prosopis campestris Griseback
Prosopis castellanosii Burkart
Prosopis denudans Bentham
Prosopis elata (Burkart) Burkart
Prosopis farcta (Solander ex Russell) Macbride
Prosopis ferox Grisebach
Prosopis fiebrigii Harms
Prosopis hassleri Harms
Prosopis humilis Gillies ex Hooker & Arnott
Prosopis kuntzei Harms
Prosopis pallida (Humboldt & Bonpland ex Willdenow) Humboldt, Bonpland, & Kunth
Prosopis palmeri S. Watson
Prosopis reptans Bentham var. reptans
Prosopis rojasiana Burkart
Prosopis ruizlealii Burkart
Prosopis ruscifolia Grisebach
Prosopis sericantha Gillies ex Hooker & Arnott
Prosopis strombulifera (Lamarck) Bentham
Prosopis torquata (Cavanilles ex Lagasca y Segura) de Candolle
Rottboellia cochinchinensis (Lour.) W. Clayton
Rubus fruticosus Linnaeus (complex) (wild blackberry)
Rubus moluccanus Linnaeus (wild raspberry)
Saccharum spontaneum Linnaeus (wild sugarcane)
Salsola vermiculata Linnaeus (wormleaf salsola)
Setaria pallide-fusca (Schumacher) Stapf & Hubbard (cattail grass)
Solanum torvum Swartz (turkeyberry)
Solanum viarum Dunal (tropical soda apple)
Spermacoce alata (Aublet) de Candolle
Tridax procumbens Linnaeus (coat buttons)
Urochloa panicoides Beauvois (liverseed grass)

CALIFORNIA Invasive Plant INVENTORY

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Cal-IPC

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The California Invasive Plant Council (Cal-IPC) formed as a non-profit organization in 1992 to address the growing ecological and economic impacts caused by invasive plants in California's wildlands. We promote research, restoration, and education in pursuit of this goal. Formerly known as the California Exotic Pest Plant Council, Cal-IPC is a member-driven organization with land managers, researchers, policy makers, and concerned citizens working together to protect the state's natural areas from invasive plants. For more information, visit our website at www.cal-ipc.org.

PROVIDING INPUT FOR FUTURE REVISIONS

If you have additional information to add to a plant assessment, please submit it to info@cal-ipc.org. The Inventory Review Committee will meet periodically to consider additions and modifications to the Inventory.

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We gratefully acknowledge the effort of all those who volunteered their time to write plant assessment forms, provide comments on assessments, or add observations to fill gaps in information. Too many people contributed information for us to list them individually, but each assessment contains the name of its author and those who provided information on that species. In particular, we thank those who helped develop the criteria, including John Hall of The Nature Conservancy in Arizona, Ann Howald of Garcia and Associates, and Maria Ryan of University of Nevada Cooperative Extension. We also wish to thank Kristin Dzurella of UC Davis and John Knapp of the Catalina Island Conservancy for their contributions of time and data.

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UC IPM

CENTER FOR INVASIVE PLANT MANAGEMENT

Designed by Melanie Haage

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Introduction

Invasive plants damage ecosystems around the world. They displace native species, change plant community structure, and reduce the value of habitat for wildlife.[1] Invasive plants may disrupt physical ecosystem processes, such as fire regimes, sedimentation and erosion, light availability, and nutrient cycling. In aquatic ecosystems, invasive plants clog lakes, streams, and waterways, reducing oxygen levels for fish and degrading habitat for waterbirds. The impact is especially severe in California, with its rich diversity of natural resources.

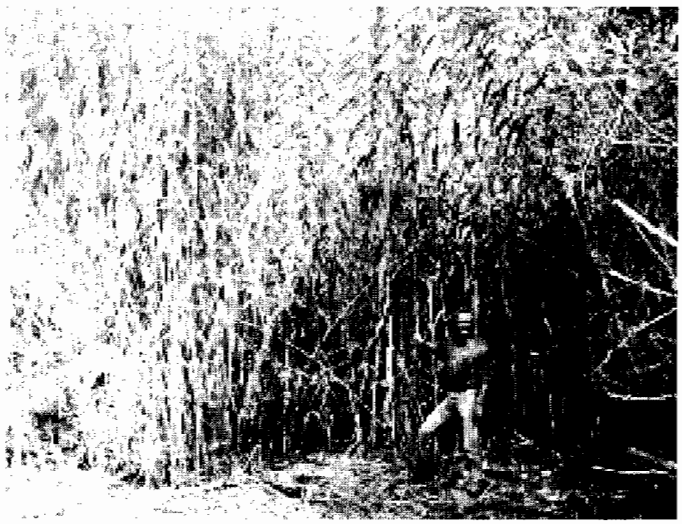
The California Invasive Plant Inventory categorizes non-native invasive plants that threaten the state's wildlands. Categorization is based on an assessment of the ecological impacts of each plant. The Inventory represents the best available knowledge of invasive plant experts in the state. However, it has no regulatory authority, and should be used with full understanding of the limitations described later in this Introduction.

California is home to 4,200 native plant species, and is recognized internationally as a "biodiversity hotspot." Approximately 1,800 non-native plants also grow in the wild in the state. A small number of these, approximately 200, are the ones that this Inventory considers invasive. Improved understanding of their impacts will help those working to project California's treasured biodiversity.

The Inventory

The Inventory categorizes plants as High, Moderate, or Limited, reflecting the level of each species' negative ecological impact in California. Other factors, such as economic impact or difficulty of management, are not included in this assessment.

It is important to note that every species listed in Table 1 is invasive, regardless of its overall rating, and should be of concern to land managers. Although the impact of each plant varies regionally, its rating represents cumulative impacts statewide. Therefore, a plant whose statewide impacts are categorized as Limited may have more severe impacts in a particular region. Conversely, a plant categorized as having a High cumulative impact across California may have very little impact in some regions.



In the past 15 years, approximately $15 million has been spent statewide to control Arundo donax *(giant reed) in California. (Photo by David Chang, Santa Barbara County Agricultural Commissioner's office)*

Members of the Inventory Review Committee, Cal-IPC staff, and volunteers drafted assessments for each plant based on the formal criteria system described below. The committee solicited information from land managers across the state to complement the available literature. Assessments were released for public review before the committee finalized them. All plant assessments that form the basis for this summary document are available at www.cal-ipc.org. The final list includes 39 High species, 65 Moderate species, and 89 Limited species. Additional information, including updated observations, will be added to the Cal-IPC website periodically, with revisions tracked and dated.

Definitions

The Inventory categorizes "invasive non-native plants that threaten wildlands" according to the definitions below. Plants were evaluated only if they invade

Figure 1. The Criteria System

Section 1. Ecological Impact

1.1 Impact on abiotic ecosystem processes (e.g. hydrology, fire, nutrient cycling)
1.2 Impact on native plant community composition, structure, and interactions
1.3 Impact on higher trophic levels, including vertebrates and invertebrates
1.4 Impact on genetic integrity of native species (i.e. potential for hybridization)

Section 2. Invasive Potential

2.1 Ability to establish without anthropogenic or natural disturbance
2.2 Local rate of spread with no management
2.3 Recent trend in total area infested within state
2.4 Innate reproductive potential (based on multiple characteristics)
2.5 Potential for human-caused dispersal
2.6 Potential for natural long-distance (>1 km) dispersal
2.7 Other regions invaded worldwide that are similar to California

Section 3. Distribution

3.1 Ecological amplitude (ecological types invaded in California)
3.2 Ecological intensity (highest extent of infestation in any one ecological type)

Documentation Levels

Assessed as highest level of documentation for each criterion.

4 = Reviewed scientific publications
3 = Other published material (reports or other non-peer-reviewed documents)
2 = Observational (unpublished information confirmed by a professional in the field)
1 = Anecdotal (unconfirmed information)
0 = No information

Complete description of criteria system and detailed plant assessments available at www.cal-ipc.org.

Dense mats formed by aquatic plants such as water hyacinth (Eichhornia crassipes) *reduce habitat for waterfowl and fish. (Photo by Bob Case, California Native Plant Society)*

California wildlands with native habitat values. The Inventory does not include plants found solely in areas of human-caused disturbance such as roadsides and cultivated agricultural fields.

- **Wildlands** are public and private lands that support native ecosystems, including some working landscapes such as grazed rangeland and active timberland.
- **Non-native** plants are species introduced to California after European contact and as a direct or indirect result of human activity.
- **Invasive non-native plants that threaten wildlands** are plants that 1) are not native to, yet can spread into, wildland ecosystems, and that also 2) displace native species, hybridize with native species, alter biological communities, or alter ecosystem processes.

Criteria for Listing

The California Invasive Plant Inventory updates the 1999 "Exotic Pest Plants of Greatest Ecological Concern in California."[2] Cal-IPC's Inventory Review Committee met regularly between 2002 and 2005 to review 238 non-native species with known or suspected impacts in California wildlands. These assessments are based on the "Criteria for Categorizing Invasive Non-Native Plants that Threaten Wildlands"[3] which were developed in collaboration with the Southwestern Vegetation Management Association in Arizona (www.swvma.org) and the University of Nevada Cooperative Extension (www.unce.unr.

edu) so that ratings could be applied across political boundaries and adjusted for regional variation. The goals of the criteria system and the Inventory are to:

- Provide a uniform methodology for categorizing non-native invasive plants that threaten wildlands;
- Provide a clear explanation of the process used to evaluate and categorize plants;
- Provide flexibility so the criteria can be adapted to the particular needs of different regions and states;
- Encourage contributions of data and documentation on evaluated species;
- Educate policy makers, land managers, and the public about the biology, ecological impacts, and distribution of invasive non-native plants.

The criteria system generates a plant's overall rating based on an evaluation of 13 criteria, which are divided into three sections assessing Ecological Impacts, Invasive Potential, and Ecological Distribution (Fig. 1). Evaluators assign a score of A (severe) to D (no impact) for each criterion, with U indicating unknown. The scoring scheme is arranged in a tiered format, with individual criteria contributing to section scores that in turn generate an overall rating for the plant.

Detailed plant assessment forms list the rationale and applicable references used to arrive at each criterion's score. The level of documentation for each question is also rated, and translated into a numerical score for averaging (Fig. 1). The documentation score presented in the tables is a numeric average of the documentation levels for all 13 criteria.

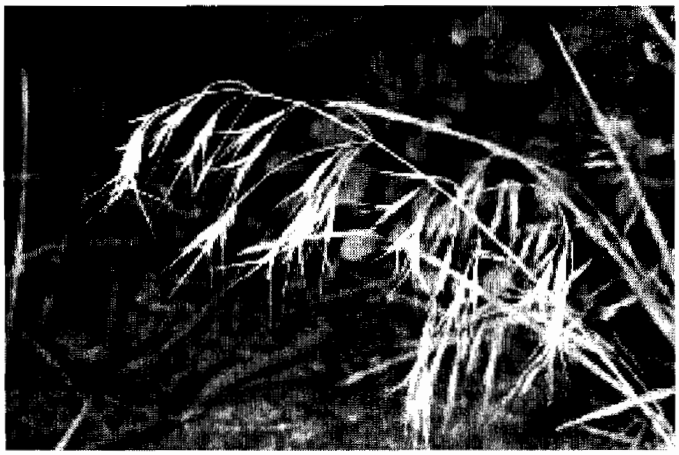
Inventory Categories

Each plant in Table 1 has received an overall rating of High, Moderate or Limited based on evaluation using the criteria system. The meaning of these overall ratings is described below. In addition to the overall ratings, specific combinations of section scores that indicate significant potential for invading new ecosystems triggers an Alert designation so that land managers may watch for range expansions. Table 3 lists plants categorized as Evaluated But Not Listed because either we lack sufficient information to assign a rating or the available information indicates that the species does not have significant impacts at the present time.

- **High** – These species have severe ecological impacts on physical processes, plant and animal communities, and vegetation structure. Their reproductive biology and other attributes are conducive to moderate to high rates of dispersal and establishment. Most are widely distributed ecologically.
- **Moderate** – These species have substantial and apparent—but generally not severe—ecological impacts on physical processes, plant and animal communities, and vegetation structure. Their reproductive biology and other attributes are conducive to moderate to high rates of dispersal, though establishment is generally dependent upon ecological disturbance. Ecological amplitude and distribution may range from limited to widespread.
- **Limited** – These species are invasive but their ecological impacts are minor on a statewide level or there was not enough information to justify a higher score. Their reproductive biology and other attributes result in low to moderate rates of invasiveness. Ecological amplitude and distribution are generally limited, but these species may be locally persistent and problematic.

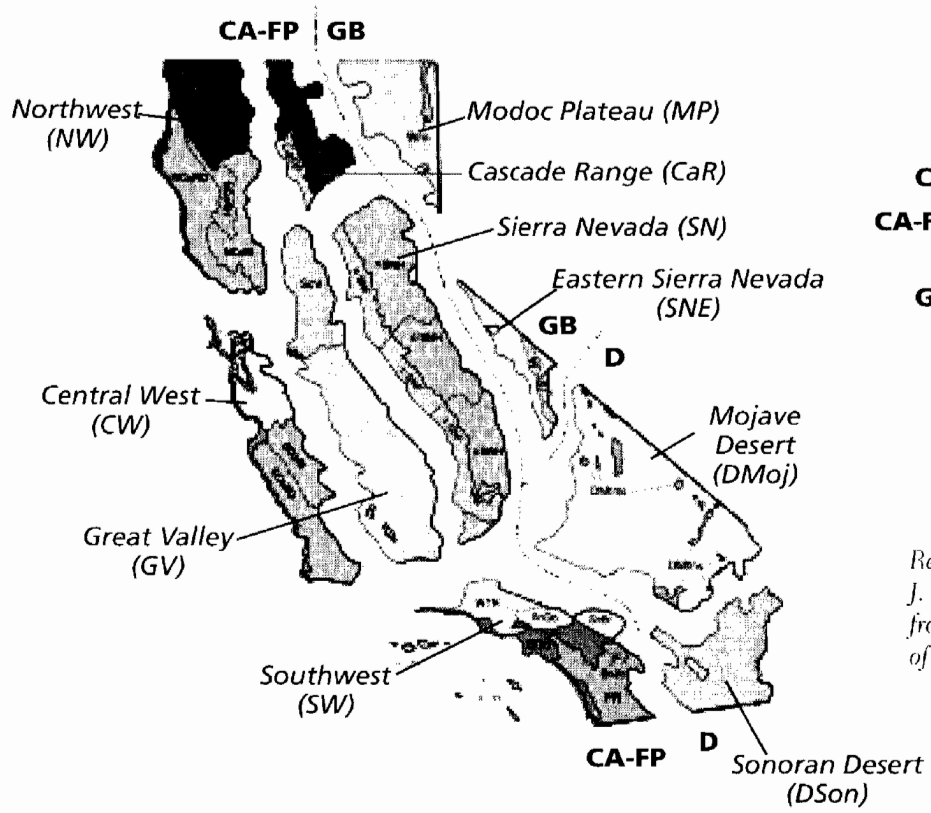
Reading the Tables

The core of the Inventory is Table 1, which lists those plants we have categorized as invasive plants that threaten California wildlands.. The types of information contained in Table 1 is described below.



When Bromus tectorum *(downy brome or cheatgrass) replaces native perennial grasses, the frequency of wildfires shortens from 60-100 years to 3-5 years. (Photo by Joe DiTomaso, UC Davis)*

Figure 2. Jepson Geographic Regions



CA = *all of California*

CA-FP = *California Floristic Province (NW, CaR, SN, GV, CW, SW)*

GB = *Great Basin Province (MP, SNE)*

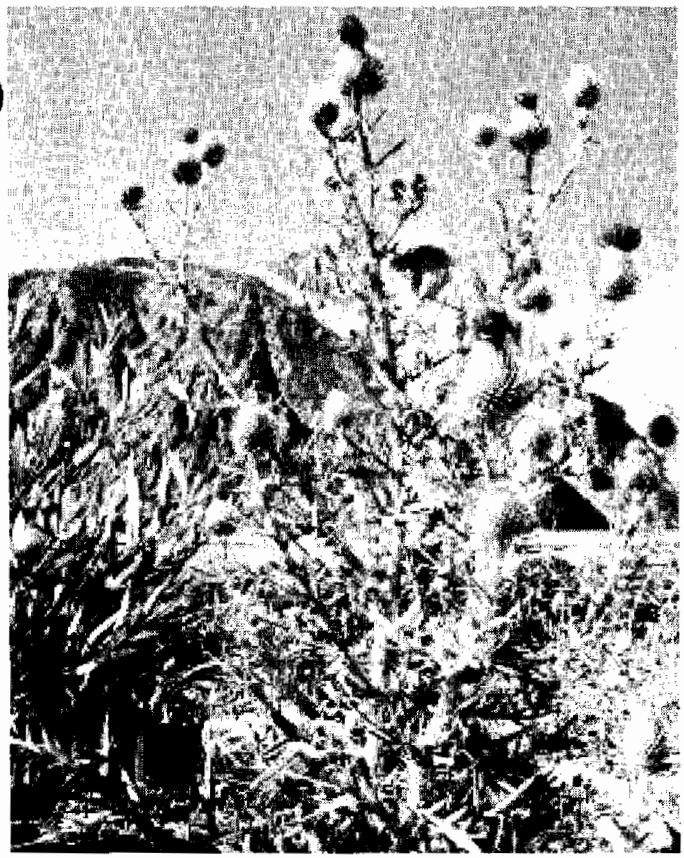
D = *Desert Province (DMoj, DSon)*

Reprinted from The Jepson Manual, *J. Hickman, Ed., 1993, with permission from the Jepson Herbarium. © Regents of the University of California.*

Table 2 contains four plants that are native to specific regions of California but have become invasive in other regions of the state to which humans have moved them. Table 3 lists those plant species that were evaluated but did not meet the threshold for listing. Finally, Table 4 contains plants that were nominated for review but dismissed without a formal assessment because either they do not invade wildlands (except for isolated instances) or the Inventory Review Committee lacked adequate information to answer the criteria questions.

Table 1 summarizes rating information for all plant species categorized as invasive by this Inventory. The columns contain the following information:

- A diamond (◆) in the first column designates an Alert status for that species.
- Scientific nomenclature for most species follows *The Jepson Manual*.[4]
- For each species, the first common name is based on the Weed Science Society of America,[5] followed by other names commonly used in California. (Appendix 4 provides an index of common names.)
- The overall rating for the plant (High, Moderate, or Limited) is listed next. (Because Table 1 is organized alphabetically, we have included a listing organized by rating level in Appendix 1.)
- Section scores are shown for Ecological Impact, Invasive Potential, and Distribution. These can typically be interpreted as A=high, B=moderate, C=limited, D=none, U=unknown.
- Documentation Level presents the average level of the references used to evaluate that species, from 0 (no information) to 4 (all information based on peer-reviewed scientific publications).
- Ecological Types Invaded and Other Comments provides additional information of interest. The classification of ecological types is adapted from a system developed by the California Department of Fish and Game.[6] (Appendix 3 provides detailed examples of ecological types.)
- Regions Invaded are based on floristic regions described in *The Jepson Manual*[4] (Fig. 2) and indicate heavily impacted areas. This information is incomplete for many species, so regions listed in this column should be considered the minimum area invaded.



Cirsium vulgare *(bull thistle) is spreading at high elevations, such as in Yosemite National Park. (Photo by Bob Case, California Native Plant Society)*

Uses and Limitations

The California Invasive Plant Inventory serves as a scientific and educational report. It is designed to prioritize plants for control, to provide information to those working on habitat restoration, to show areas where research is needed, to aid those who prepare or comment on environmental planning documents, and to educate public policy makers. Plants that lack published information may be good starting points for student research projects.

The Inventory cannot address, and is not intended to address, the range of geographic variation in California, nor the inherently regional nature of invasive species impacts. While we have noted where each plant is invasive, only the cumulative statewide impacts of the species have been considered in the evaluation. The impact of these plants in specific geographic regions or habitats within California may be greater or lesser than their statewide rating indicates. Management actions for a species should be considered on a local and site-specific basis, as the inventory does not attempt to suggest management needs for specific sites or regions. The criteria system was designed to be adapted at multiple scales, and local groups are encouraged to use the criteria for rating plants in their particular area.

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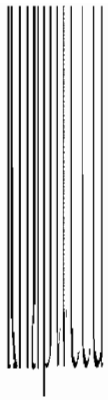
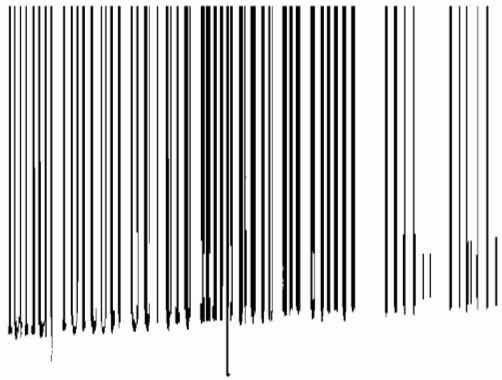
Lepidium latifolium *(perennial pepperweed or tall whitetop) concentrates salt in marsh soils, threatening several rare plant species. (Photo by Bob Case)*





Spreading in many areas of CA.

	Aegilops triuncialis	barb goatgrass	High	A	A	B	3.6	Grassland, oak woodland. Spreading in NW and Central Valley.	CaR, CW, SN, GV
	Ageratina adenophora	croftonweed, eupatorium	Moderate	B	B	B	2.8	Coastal canyons, scrub, slopes. Very invasive in Australia, limited information and distribution in CA.	CW, SW
	Agrostis avenacea	Pacific bentgrass	Limited	C	C	C	2.4	Vernal pools, coastal prairie, meadows, grasslands. Impacts are low in most areas.	NW, SN, GV, CW, SW
	Agrostis stolonifera	creeping bentgrass	Limited	C	B	C	1.9	Wetlands, riparian; grown for domestic forage. Limited distribution and impacts unknown.	NW, SN, GV, CW, SW
	Ailanthus altissima	tree-of-heaven	Moderate	B	B	B	3.0	Riparian areas, grasslands, oak woodland. Impacts highest in riparian areas.	CA-FP
	Alhagi maurorum (=A. pseudalhagi)	camelthorn	Moderate	B	B	B	3.2	Grassland, meadows, riparian and desert scrub, Sonoran thorn woodland. Very invasive in southwestern states. Limited distribution in CA.	GV, D, SNE
◆	*Alternanthera philoxeroides*	alligatorweed	High	A	B	C	2.9	Freshwater aquatic systems, including marshes	GV, SW
	Ammophila arenaria	European beachgrass	High	A	B	B	3.2	Coastal dunes	NW, CW, SW
	Anthoxanthum odoratum	sweet vernalgrass	Moderate	B	B	B	2.7	Coastal prairie, coniferous forest. Little information available on impacts and limited ecological range.	NW, SN, CW
◆	*Arctotheca calendula* (fertile strains)	fertile capeweed	Moderate	B	B	C	3.6	Coastal prairie. Can produce seed. Important agricultural weed in Australia, but limited distribution in CA.	NW, CW
	Arctotheca calendula (sterile strains)	sterile capeweed	Moderate	B	B	B	2.8	Coastal prairie. Only propagates vegetatively. More competitive than fertile form, but limited distribution.	NW, CW
	Arundo donax	giant reed	High	A	B	A	2.8	Riparian areas. Commercially grown for musical instrument reeds, structural material, etc.	CW, SN, GV, SW

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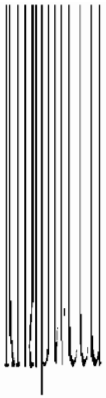

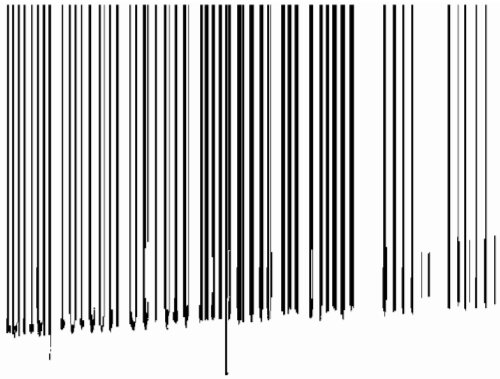

Spreading in many areas of CA.

	Aegilops triuncialis	barb goatgrass	High	A	A	B	3.6	Grassland, oak woodland. Spreading in NW and Central Valley.	CaR, CW, SN, GV
	Ageratina adenophora	croftonweed, eupatorium	Moderate	B	B	B	2.8	Coastal canyons, scrub, slopes. Very invasive in Australia, limited information and distribution in CA.	CW, SW
	Agrostis avenacea	Pacific bentgrass	Limited	C	C	C	2.4	Vernal pools, coastal prairie, meadows, grasslands. Impacts are low in most areas.	NW, SN, GV, CW, SW
	Agrostis stolonifera	creeping bentgrass	Limited	C	B	C	1.9	Wetlands, riparian; grown for domestic forage. Limited distribution and impacts unknown.	NW, SN, GV, CW, SW
	Ailanthus altissima	tree-of-heaven	Moderate	B	B	B	3.0	Riparian areas, grasslands, oak woodland. Impacts highest in riparian areas.	CA-FP
	Alhagi maurorum (=*A. pseudalhagi*)	camelthorn	Moderate	B	B	B	3.2	Grassland, meadows, riparian and desert scrub, Sonoran thorn woodland. Very invasive in southwestern states. Limited distribution in CA.	GV, D, SNE
◆	*Alternanthera philoxeroides*	alligatorweed	High	A	B	C	2.9	Freshwater aquatic systems, including marshes	GV, SW
	Ammophila arenaria	European beachgrass	High	A	B	B	3.2	Coastal dunes	NW, CW, SW
	Anthoxanthum odoratum	sweet vernalgrass	Moderate	B	B	B	2.7	Coastal prairie, coniferous forest. Little information available on impacts and limited ecological range.	NW, SN, CW
◆	*Arctotheca calendula* (fertile strains)	fertile capeweed	Moderate	B	B	C	3.6	Coastal prairie. Can produce seed. Important agricultural weed in Australia, but limited distribution in CA.	NW, CW
	Arctotheca calendula (sterile strains)	sterile capeweed	Moderate	B	B	B	2.8	Coastal prairie. Only propagates vegetatively. More competitive than fertile form, but limited distribution.	NW, CW
	Arundo donax	giant reed	High	A	B	A	2.8	Riparian areas. Commercially grown for musical instrument reeds, structural material, etc.	CW, SN, GV, SW

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TABLE 1: Invasive Non-Native Plants that Threaten Wildlands in California

Alert ◆	Scientific Name	Common Name	Rating	Impacts	Invasiveness	Distribution	Doc. Level	Ecological Types Invaded and Other Comments	Regions Invaded
	Acacia melanoxylon	black acacia, blackwood acacia	Limited	C	C	B	2.7	Coniferous forest, chaparral, woodland, riparian. Impacts low in most areas.	NW, CW, SW
	Acroptilon repens	Russian knapweed	Moderate	B	B	B	3.2	Scrub, grasslands, riparian, pinyon-juniper woodland, forest. Severe impacts in other western states. Spreading in many areas of CA.	CA-FP, GB
	Aegilops triuncialis	barb goatgrass	High	A	A	B	3.6	Grassland, oak woodland. Spreading in NW and Central Valley.	CaR, CW, SN, GV
	Ageratina adenophora	croftonweed, eupatorium	Moderate	B	B	B	2.8	Coastal canyons, scrub, slopes. Very invasive in Australia, limited information and distribution in CA.	CW, SW
	Agrostis avenacea	Pacific bentgrass	Limited	C	C	C	2.4	Vernal pools, coastal prairie, meadows, grasslands. Impacts are low in most areas.	NW, SN, GV, CW, SW
	Agrostis stolonifera	creeping bentgrass	Limited	C	B	C	1.9	Wetlands, riparian; grown for domestic forage. Limited distribution and impacts unknown.	NW, SN, GV, CW, SW
	Ailanthus altissima	tree-of-heaven	Moderate	B	B	B	3.0	Riparian areas, grasslands, oak woodland. Impacts highest in riparian areas.	CA-FP
	Alhagi maurorum (=*A. pseudalhagi*)	camelthorn	Moderate	B	B	B	3.2	Grassland, meadows, riparian and desert scrub, Sonoran thorn woodland. Very invasive in southwestern states. Limited distribution in CA.	GV, D, SNE
◆	*Alternanthera philoxeroides*	alligatorweed	High	A	B	C	2.9	Freshwater aquatic systems, including marshes	GV, SW
	Ammophila arenaria	European beachgrass	High	A	B	B	3.2	Coastal dunes	NW, CW, SW
	Anthoxanthum odoratum	sweet vernalgrass	Moderate	B	B	B	2.7	Coastal prairie, coniferous forest. Little information available on impacts and limited ecological range.	NW, SN, CW
◆	*Arctotheca calendula* (fertile strains)	fertile capeweed	Moderate	B	B	C	3.6	Coastal prairie. Can produce seed. Important agricultural weed in Australia, but limited distribution in CA.	NW, CW
	Arctotheca calendula (sterile strains)	sterile capeweed	Moderate	B	B	B	2.8	Coastal prairie. Only propagates vegetatively. More competitive than fertile form, but limited distribution.	NW, CW
	Arundo donax	giant reed	High	A	B	A	2.8	Riparian areas. Commercially grown for musical instrument reeds, structural material, etc.	CW, SN, GV, SW

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TABLE 1: Invasive Non-Native Plants that Threaten Wildlands in California (continued)

Alert ◆	Scientific Name	Common Name	Rating	Impacts	Invasiveness	Distribution	Doc. Level	Ecological Types Invaded and Other Comments	Regions Invaded
◆	*Asparagus asparagoides*	bridal creeper	Moderate	B	B	D	2.6	Riparian woodland	CW, SW
◆	*Asphodelus fistulosus*	onionweed	Moderate	B	A	C	2.9	Coastal dunes, prairie, grasslands. Invasive in Australia. High invasiveness but limited distribution in CA.	GV, SW
	Atriplex semibaccata	Australian saltbush	Moderate	B	B	B	2.9	Coastal grasslands, scrub, upper salt marsh. Limited distribution, but can be very invasive regionally.	CA except CaR and SN
	Avena barbata	slender wild oat	Moderate	B	B	A	3.5	Coastal scrub, grasslands, oak woodland, forest. Very widespread, but impacts more severe in desert regions.	CA-FP, MP, DMoj
	Avena fatua	wild oat	Moderate	B	B	A	3.2	Coastal scrub, chaparral, grasslands, woodland, forest. Very widespread, but impacts more severe in desert regions.	CA-FP, MP, DMoj
	Bassia hyssopifolia	fivehook bassia	Limited	C	C	B	2.7	Alkaline habitats. Weed of agriculture or disturbed sites. Impacts minor in wildlands.	CA except NW
	Bellardia trixago	bellardia	Limited	C	C	C	1.9	Grasslands, including serpentine. Impacts and invasiveness appear to be minor.	NW, CW
◆	*Brachypodium sylvaticum*	perennial false-brome	Moderate	B	A	D	2.5	Redwoods and mixed evergreen forest in Santa Cruz Mtns. Expanding range rapidly in OR, potentially very invasive.	CW
	Brassica nigra	black mustard	Moderate	B	B	A	2.0	Widespread. Primarily a weed of disturbed sites, but can be locally a more significant problem in wildlands.	CA-FP
	Brassica rapa	birdsrape mustard, field mustard	Limited	C	B	B	1.8	Coastal scrub, grasslands meadows, riparian. Primarily in disturbed areas. Impacts appear to be minor or unknown in wildlands.	CA-FP
	Brassica tournefortii	Saharan mustard, African mustard	High	A	A	B	2.3	Desert dunes, desert and coastal scrub	SW, D
	Briza maxima	big quakinggrass, rattlesnakegrass	Limited	B	C	B	2.3	Grasslands. Widespread in coast range. Impacts generally minor, but locally can be higher.	NW, SN, CW, SW
	Bromus diandrus	ripgut brome	Moderate	B	B	A	3.3	Dunes, scrub, grassland, woodland, forest. Very widespread, but monotypic stands uncommon.	CA

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TABLE 1: Invasive Non-Native Plants that Threaten Wildlands in California (continued)

Alert ◆	Scientific Name	Common Name	Rating	Impacts	Invasiveness	Distribution	Doc. Level	Ecological Types Invaded and Other Comments	Regions Invaded
	Bromus hordeaceus	soft brome	Limited	B	C	A	2.8	Grasslands, sagebrush, serpentine soils, many other habitats. Very widespread, but primarily in converted annual grasslands.	CA
	Bromus madritensis ssp. *rubens* (=*B. rubens*)	red brome	High	A	B	A	3.0	Scrub, grassland, desert washes, woodlands. Impacts most significant in desert areas.	CA
	Bromus tectorum	downy brome, cheatgrass	High	A	B	A	3.1	Interior scrub, woodlands, grasslands. Most widely distributed invasive plant in the US.	SN, GB, D
	Cakile maritima	European sea-rocket	Limited	C	B	B	3.6	Coastal dunes. Widespread, but impacts appear to be minor.	NW, CW, SW
◆	*Cardaria chalepensis* (=*C. draba* ssp. *chalepensis*)	lens-podded whitetop	Moderate	B	B	C	3.2	Central Valley wetlands. Limited distribution in CA. May not be as invasive as *C. draba*.	CA-FP, GB
	Cardaria draba	hoary cress	Moderate	B	B	B	2.6	Riparian areas, marshes of central coast. More severe invasive in northern CA.	CW, SW
	Cardaria pubescens	hairy whitetop	Limited	C	B	C	2.5	Grasslands and meadows. Impacts unknown but may be significant in meadows of Cascade Range.	GV, SW
	Carduus acanthoides	plumeless thistle	Limited	B	C	C	3.0	Valley and foothill grasslands. Limited distribution in CA, impacts higher locally.	NW, SN, CW
	Carduus nutans	musk thistle	Moderate	B	B	B	3.1	Grasslands. More invasive in other western states. Limited distribution in CA.	NW, CaR, SN
	Carduus pycnocephalus	Italian thistle	Moderate	B	B	A	2.9	Forest, scrub, grasslands, woodland. Very widespread. Impacts may be variable regionally.	NW, SN, CW, SW
	Carduus tenuiflorus	slenderflower thistle	Limited	C	C	B	2.8	Valley and foothill grasslands. Limited distribution. Impacts appear to be minor.	NW, SN, CW, SW
	Carpobrotus chilensis (and *C. edulis* x *chilensis* hybrids)	sea-fig, iceplant	Moderate	B	B	A	1.8	Coastal dunes, scrub, prairie. Little information on species, most inferred from *C. edulis*.	NW, CW, SW
	Carpobrotus edulis	Hottentot-fig, iceplant	High	A	B	A	3.3	Coastal habitats, especially dunes	NW, CW, SW
◆	*Carthamus lanatus*	woolly distaff thistle	Moderate	A	B	C	2.8	Grasslands. Expanding in coast ranges, may become more severe. Current distribution limited.	NW, SN, CW

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TABLE 1: Invasive Non-Native Plants that Threaten Wildlands in California (continued)

Alert ◆	Scientific Name	Common Name	Rating	Impacts	Invasiveness	Distribution	Doc. Level	Ecological Types Invaded and Other Comments	Regions Invaded
	Centaurea calcitrapa	purple starthistle	Moderate	B	B	B	2.7	Grasslands. Impacts regionally variable. Relatively limited distribution.	NW, SN, GV, CW, SW
◆	*Centaurea debeauxii* (=*C. jacea* x *C. nigra*, *C.* x *pratensis*)	meadow knapweed	Moderate	B	B	C	2.7	Grasslands. Spreading rapidly in NW CA, but limited distribution elsewhere. Little known of impacts.	NW, CW
	Centaurea diffusa	diffuse knapweed	Moderate	B	B	B	3.3	Great Basin scrub, coastal prairie. Severe impacts in other western states. Limited distribution in CA with impacts higher in some locations.	Ca-R, CW, NW, SN
	Centaurea maculosa (=*C. biebersteinii*)	spotted knapweed	High	A	B	B	3.4	Riparian, grasslands, wet meadows, forests. More widely distributed in other western states.	CA-FP, GB
	Centaurea melitensis	Malta starthistle, tocalote	Moderate	B	B	B	2.6	Grasslands, oak woodland. Sometimes misidentified as *C. solstitialis*. Impacts vary regionally.	CW, SW, D
	Centaurea solstitialis	yellow starthistle	High	A	B	A	3.0	Grasslands, woodlands, occasionally riparian	CA-FP
	Centaurea virgata var. *squarrosa* (=*C. squarrosa*)	squarrose knapweed	Moderate	B	B	B	2.8	Scrub, grassland, pinyon-juniper woodland. Highly invasive in Utah and other western states. Limited distribution in CA.	NW, CaR, MP
	Chondrilla juncea	rush skeletonweed	Moderate	B	B	B	3.1	Grasslands. Very invasive in other western states, but currently limited distribution in CA.	NW, CaR, SN, GV, CW,
	Chrysanthemum coronarium	crown daisy	Moderate	B	B	B	2.0	Coastal prairie, dunes, and scrub. Impacts generally low to moderate, but can vary regionally.	CW, SW
	Cirsium arvense	Canada thistle	Moderate	B	B	B	2.8	Grasslands, riparian areas, forests. Severe impacts in other western states. Limited distribution in CA.	CA-FP, DMoj
	Cirsium vulgare	bull thistle	Moderate	B	B	B	3.3	Riparian areas, marshes, meadows. Widespread, can be very problematic regionally.	CA-FP, GB
	Conicosia pugioniformis	narrowleaf iceplant	Limited	C	B	C	2.1	Coastal dunes, scrub, grassland. Limited distribution. Impacts generally minor but can be higher locally.	CW
	Conium maculatum	poison-hemlock	Moderate	B	B	B	2.8	Riparian woodland, grassland. Widespread in disturbed areas. Abiotic impacts unknown. Impacts can vary locally.	CA-FP

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TABLE 1: Invasive Non-Native Plants that Threaten Wildlands in California (continued)

Alert ◆	Scientific Name	Common Name	Rating	Impacts	Invasiveness	Distribution	Doc. Level	Ecological Types Invaded and Other Comments	Regions Invaded
	Cordyline australis	giant dracaena, New Zealand-cabbage tree	Limited	C	C	C	2.0	Coniferous forest. Two reports of horticultural escape into wildlands. Appears best suited to moist, cool climates.	NW, CW
	Cortaderia jubata	jubatagrass	High	A	A	A	3.1	Many coastal and interior habitats	NW, CW, SW
	Cortaderia selloana	pampasgrass	High	A	A	B	3.2	Coastal dunes, coastal scrub, Monterey pine, riparian, grasslands, wetlands, serpentine soils. Still spreading both coastal and inland.	CW, SW
	Cotoneaster franchetii	orange cotoneaster	Moderate	B	A	B	2.6	Coniferous forest. Limited distribution. Abiotic impacts largely unknown.	NW, CW
	Cotoneaster lacteus	Parney's cotoneaster	Moderate	B	B	B	2.1	Many coastal habitats, mainly a problem from SF Bay Area north along coast. Limited distribution. Abiotic impacts largely unknown.	NW, CW
	Cotoneaster pannosus	silverleaf cotoneaster	Moderate	B	A	B	2.5	Many coastal habitats, mainly a problem from SF Bay Area north along coast. Limited distribution. Abiotic impacts largely unknown.	NW, CW
	Cotula coronopifolia	brassbuttons	Limited	C	C	B	2.2	Salt and freshwater marshes. Impacts largely unknown, but appear to be minor.	NW, CW, SW
	Crataegus monogyna	English hawthorn	Limited	C	B	C	3.4	Riparian habitats, woodland. Limited distribution. Impacts appear to be minor.	NW, CW, SW
	Crocosmia x *crocosmiiflora*	montbretia	Limited	C	B	B	2.6	Coastal scrub and prairie, north coast forests. Abiotic impacts unknown. Higher invasiveness in some areas.	NW, CW
	Crupina vulgaris	common crupina, bearded creeper	Limited	B	C	B	3.2	Forest, woodland, grassland. Limited distribution. More invasive in other western states.	NW, MP
	Cynara cardunculus	artichoke thistle	Moderate	B	B	B	4.0	Coastal grasslands. Impacts more severe in southern CA where monotypic stands are more common.	CW, SW
	Cynodon dactylon	bermudagrass	Moderate	B	B	B	3.3	Riparian scrub in southern CA. Common landscape weed, but can be very invasive in desert washes.	SW, DSon
	Cynoglossum officinale	houndstongue	Moderate	B	B	B	2.5	Woodland, forest, interior dunes. Abiotic impacts unknown. Limited distribution. Can have impacts in other western states.	CaR, SN

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TABLE 1: Invasive Non-Native Plants that Threaten Wildlands in California (continued)

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	Cynosurus echinatus	hedgehog dogtailgrass	Moderate	B	B	A	2.5	Oak woodland, grassland. Widespread, impacts vary regionally, but typically not in monotypic stands.	NW, SN, GV, CW, SW
	Cytisus scoparius	Scotch broom	High	A	B	A	3.2	Coastal scrub, oak woodland, horticultural varieties may also be invasive.	CA-FP
	Cytisus striatus	Portuguese broom	Moderate	B	B	B	2.7	Coastal scrub, grasslands. Often confused with *C. scoparius*. Limited distribution.	NW, CW, SW
	Dactylis glomerata	orchardgrass	Limited	C	B	B	2.9	Grasslands, broadleaved forest, woodlands. Common forage species. Impacts appear to be minor.	CA-FP
	Delairea odorata (=*Senecio mikanioides*)	Cape-ivy, German-ivy	High	A	A	B	3.1	Coastal, occasionally other riparian areas.	CW, SW
	Descurainia sophia	flixweed, tansy mustard	Limited	C	B	B	1.9	Scrub, grassland, woodland. Impacts appear to be minor, but locally more invasive in NE CA.	CA
	Digitalis purpurea	foxglove	Limited	C	B	B	2.4	Forest, woodland. Widely escaped ornamental. Impacts largely unknown or appear to be minor.	NW, SN, CW
	Dipsacus fullonum	common teasel	Moderate	B	B	B	3.8	Grasslands, seep, riparian scrub. Impacts regionally variable, forms dense stands on occasion.	NW, CW, SN
	Dipsacus sativus	fuller's teasel	Moderate	B	B	B	3.8	Grasslands, seep, bogs. Impacts regionally variable, forms dense stands on occasion.	NW, CW, SW
◆	*Dittrichia graveolens*	stinkwort	Moderate	B	A	C	3.0	Grasslands, riparian scrub. Spreading rapidly, impacts may become more important in future.	NW, SN, CW, GV, SW
	Echium candicans	pride-of-Madeira	Limited	C	B	B	1.5	Two escaped populations near Big Sur and San Elijo Lagoon. Little information on impacts.	CW, NW, SW
	Egeria densa	Brazilian egeria	High	A	A	B	3.1	Streams, ponds, sloughs, lakes, Sacramento-San Joaquin Delta	SN, GV, SW
	Ehrharta calycina	purple veldtgrass	High	A	A	B	3.4	Sandy soils, especially dunes. Rapidly spreading on central coast.	CW, SW
	Ehrharta erecta	erect veldtgrass	Moderate	B	B	B	2.2	Scrub, grasslands, woodland, forest. Spreading rapidly. Impacts may become more important in future.	CW, SW

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TABLE 1: Invasive Non-Native Plants that Threaten Wildlands in California (continued)

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◆	*Ehrharta longiflora*	long-flowered veldtgrass	Moderate	B	B	C	2.8	Coastal scrub. Limited distribution, but spreading rapidly in southern CA. Impacts largely unknown.	SW
◆	*Eichhornia crassipes*	water hyacinth	High	A	A	C	3.2	Aquatic systems in Sacramento-San Joaquin Delta	GV, CW, SW
	Elaeagnus angustifolia	Russian-olive	Moderate	B	A	B	3.3	Interior riparian. Impacts more severe in other western states. Current distribution limited in CA.	GV, CW, DMoj
◆	*Emex spinosa*	spiny emex, devil's-thorn	Moderate	B	B	D	1.6	Edges of beaches, other coastal habitats. Invasive in other states and countries. Spreading rapidly in southern CA. Impacts not well known.	SW
	Erechtites glomerata, E. minima	Australian fireweed, Australian burnweed	Moderate	C	B	A	3.2	Coastal woodland, scrub, forests. Widespread on coast, but impacts low overall. May vary locally.	NW, CW
	Erodium cicutarium	redstem filaree	Limited	C	C	A	3.1	Many habitats. Widespread. Impacts minor in wildlands. High-density populations are transient.	CA
	Eucalyptus camaldulensis	red gum	Limited	C	C	C	2.2	Mainly southern CA urban areas. Impacts, invasiveness and distribution all minor.	NW, GV, CW, SW
	Eucalyptus globulus	Tasmanian blue gum	Moderate	B	B	B	2.8	Riparian areas, coastal grasslands, scrub. Impacts can be much higher in coastal areas.	NW, GV, CW, SW
◆	*Euphorbia esula*	leafy spurge	High	A	A	C	3.5	Forests, woodlands, juniper forest. More widespread invasive in northern states.	NW, CaR, MP
	Euphorbia oblongata	oblong spurge	Limited	C	C	B	2.0	Meadows, woodlands. Limited distribution. Impacts unknown. Locally in dense stands.	GV, CW
◆	*Euphorbia terracina*	carnation spurge	Moderate	B	B	C	1.7	Coastal scrub. Limited distribution. Spreading in southern CA. Impacts unknown.	SW
	Festuca arundinacea	tall fescue	Moderate	B	B	A	2.9	Coastal scrub, grasslands; common forage grass. Widespread, abiotic impacts unknown.	CA-FP
	Ficus carica	edible fig	Moderate	B	A	B	2.6	Riparian woodland. Can spread rapidly. Abiotic impacts unknown. Can be locally very problematic.	CW, SW, GV
	Foeniculum vulgare	fennel	High	A	B	A	3.0	Grasslands, scrub.	CA-FP

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TABLE 1: Invasive Non-Native Plants that Threaten Wildlands in California (continued)

Alert ◆	Scientific Name	Common Name	Rating	Impacts	Invasiveness	Distribution	Doc. Level	Ecological Types Invaded and Other Comments	Regions Invaded
	Genista monspessulana	French broom	High	A	A	B	3.2	Coastal scrub, oak woodland, grasslands. Horticultural selections may also be invasive.	NW, CW, SW
	Geranium dissectum	cutleaf geranium	Limited	C	B	A	1.7	Numerous habitats but impacts appear minor.	CA-FP
	Glyceria declinata	waxy mannagrass	Moderate	B	B	B	1.9	Vernal pools, moist grasslands. Often confused with native *Glyceria*. Impacts largely unknown, but may be significant in vernal pools.	GV
	Halogeton glomeratus	halogeton	Moderate	B	A	B	3.0	Scrub, grasslands, pinyon-juniper woodland. Larger problem in NV. Monotypic stands are rare.	CaR, DMoj, GB
	Hedera helix, H. canariensis	English ivy, Algerian ivy	High	A	A	A	2.7	Coastal forests, riparian areas. Species combined due to genetics questions.	CA-FP
	Helichrysum petiolare	licoriceplant	Limited	C	B	C	2.0	North coastal scrub. Limited distribution. Impacts unknown, but can form dense stands.	NW, CW
	Hirschfeldia incana	shortpod mustard, summer mustard	Moderate	B	B	A	1.9	Scrub, grasslands, riparian areas. Impacts not well understood, but appear to be greater in southern CA.	CW, GV, NW, SN, SW
	Holcus lanatus	common velvet-grass	Moderate	B	B	A	2.9	Coastal grasslands, wetlands. Impacts can be more severe locally, especially in wetland areas.	CA-FP, DMoj, GB
	Hordeum marinum, H. murinum	Mediterranean barley, hare barley, wall barley	Moderate	B	B	A	2.8	Grasslands. *H. marinum* invades drier habitats, while *H. murinum* invades wetlands. Widespread, but generally do not form dominant stands.	CA
◆	*Hydrilla verticillata*	hydrilla	High	A	B	C	3.2	Freshwater aquatic systems. The most important submerged aquatic invasive in southern states.	NW, SN, GV, SW, D
◆	*Hypericum canariense*	Canary Island hypericum	Moderate	B	B	C	1.2	Coastal scrub, prairie. Impacts unknown. Limited distribution. Spreading rapidly on central coast.	SW, CW
	Hypericum perforatum	common St. Johnswort, klamathweed	Moderate	B	B	B	3.7	Many northern CA habitats. Abiotic impacts low. Biological control agents have reduced overall impact.	SN, CW, GV, NW, SW
	Hypochaeris glabra	smooth catsear	Limited	C	B	B	3.1	Scrub and woodlands. Widespread. Impacts appear to be minor. Some local variability.	CA-FP
	Hypochaeris radicata	rough catsear, hairy dandelion	Moderate	C	B	A	2.2	Coastal dunes, scrub, and prairie, woodland, forest. Widespread. Impacts unknown or appear to be minor.	CA-FP

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TABLE 1: Invasive Non-Native Plants that Threaten Wildlands in California (continued)

Alert ◆	Scientific Name	Common Name	Rating	Impacts	Invasiveness	Distribution	Doc. Level	Ecological Types Invaded and Other Comments	Regions Invaded
◆	*Ilex aquifolium*	English holly	Moderate	B	B	C	2.7	North coast forests. Expanding range south from Oregon.	CW, NW
	Iris pseudacorus	yellowflag iris	Limited	C	B	C	2.3	Riparian, wetland areas, especially southern CA. Limited distribution. Abiotic impacts unknown.	SN, GV, CW, SW
	Isatis tinctoria	dyer's woad	Moderate	B	B	A	3.0	Great Basin scrub and grasslands, coniferous forest. More severe impacts in other western states, but can be locally very invasive in northern CA.	CaR, NW, SN, MP
	Kochia scoparia	kochia	Limited	B	C	B	3.2	Scrub, chaparral, grasslands. Primarily a weed of disturbed sites.	CW, GV, D, GB
	Lepidium latifolium	perennial pepperweed, tall whitetop	High	A	A	A	3.1	Coastal and inland marshes, riparian areas, wetlands, grasslands. Has potential to invade montane wetlands.	CA-FP, GB
	Leucanthemum vulgare	oxeye daisy	Moderate	B	B	B	2.5	Montane meadows, coastal grasslands, coastal scrub. Expanding range, invasiveness varies locally.	CW, NW, SN, SW
	Linaria genistifolia ssp. *dalmatica* (=*L. dalmatica*)	Dalmation toadflax	Moderate	B	B	B	2.8	Grasslands, forest clearings. Limited distribution. More severe impacts in other western states.	CA-FP
	Lobularia maritima	sweet alyssum	Limited	C	B	B	2.4	Coastal dune, coastal scrub, coastal prairie, riparian.	NW, CW, SW
	Lolium multiflorum	Italian ryegrass	Moderate	B	B	A	2.6	Grasslands, oak woodland, pinyon-juniper woodland; widely used for post-fire erosion control. Widespread. Impacts can vary with region.	CA-FP
	Ludwigia peploides ssp. *montevidensis*	creeping water-primrose	High	A	B	B	2.5	Freshwater aquatic systems. Clarification needed on taxonomic identification.	NW, SN, GV, CW, SW, DMoj
◆	*Ludwigia hexapetala* (= *L. uruguayensis*)	Uruguay water-primrose	High	A	B	C	2.6	Freshwater aquatic systems. Clarification needed on taxonomic identification.	NW, CW, SW
	Lythrum hyssopifolium	hyssop loosestrife	Limited	C	B	B	3.0	Grasslands, wetlands, vernal pools. Widespread. Impacts unknown, but appear to be minor.	CA-FP
	Lythrum salicaria	purple loosestrife	High	A	A	B	3.8	Wetlands, marshes, riparian areas	NW, GV, MP
	Marrubium vulgare	white horehound	Limited	C	C	B	2.8	Grasslands scrub, riparian areas. Widespread. Rarely in dense stands. Impacts relatively minor.	CA-FP, DMoj

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TABLE 1: Invasive Non-Native Plants that Threaten Wildlands in California (continued)

Alert ◆	Scientific Name	Common Name	Rating	Impacts	Invasiveness	Distribution	Doc. Level	Ecological Types Invaded and Other Comments	Regions Invaded
	Medicago polymorpha	California burclover	Limited	C	C	A	2.8	Grasslands. Widespread weed of agriculture and disturbed areas. Impacts in wildlands minor.	CA-FP
	Mentha pulegium	pennyroyal	Moderate	C	A	A	2.7	Vernal pools, wetlands. Poisonous to livestock. Spreading rapidly. Impacts largely unknown.	CW, GV, NW, SW
◆	*Mesembryanthemum crystallinum*	crystalline iceplant	Moderate	B	B	C	3.7	Coastal bluffs, dunes, scrubs, grasslands. Limited distribution. Locally problematic, especially in southern CA.	CW, NW, SW
	Myoporum laetum	myoporum	Moderate	B	B	B	2.6	Coastal habitats, riparian areas. Mostly along the southern coast. Abiotic impacts unknown.	CW, SW
	Myosotis latifolia	common forget-me-not	Limited	C	B	B	2.2	Coniferous forest, riparian. Little information on impacts.	CA-FP
◆	*Myriophyllum aquaticum*	parrotfeather	High	A	B	C	2.8	Freshwater aquatic systems	NW, CaR, CW, SW
	Myriophyllum spicatum	Eurasian watermilfoil	High	A	A	B	2.8	Freshwater aquatic systems	SN, GV, CW
	Nicotiana glauca	tree tobacco	Moderate	B	B	B	2.5	Coastal scrub, grasslands, riparian woodland. Abiotic impacts unknown. Impacts vary locally. Rarely in dense stands.	NW, SN, GV, SW, D
	Olea europaea	olive	Limited	C	B	B	2.5	A problem in Australia. Rarely escapes in CA but is a concern due to the possibility of spread from planted groves.	CW, GV, NW, SW
	Ononis alopecuroides	foxtail restharrow	Limited	C	B	C	2.2	Grasslands, oak woodland. Highly invasive but impacts unknown. Nearly eradicated.	CW
	Onopordum acanthium	Scotch thistle	High	A	B	B	2.9	Wet meadows, sage brush, riparian areas	CA-FP, MP
	Oxalis pes-caprae	buttercup oxalis, Bermuda buttercup, yellow oxalis	Moderate	B	B	B	2.9	Coastal dunes, scrub, oak woodland. Impacts in coastal areas may prove more severe in time.	CW, NW, SW
	Parentucellia viscosa	yellow glandweed, sticky parentucellia	Limited	C	B	B	2.5	Coastal prairie, grassland, and dunes. Impacts unknown, but can be locally significant.	NW, CaR, SN, CW, SW
	Pennisetum clandestinum	kikuyugrass	Limited	C	C	B	2.3	Present at low levels in numerous wildland habitats. Impacts unknown. Common turf weed.	NW, CW, SW

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TABLE 1: Invasive Non-Native Plants that Threaten Wildlands in California (continued)

Alert ◆	Scientific Name	Common Name	Rating	Impacts	Invasiveness	Distribution	Doc. Level	Ecological Types Invaded and Other Comments	Regions Invaded
	Pennisetum setaceum	crimson fountaingrass	Moderate	B	B	B	2.9	Coastal dunes and scrub, chaparral, grasslands. Some horticultural cultivars sterile. Very invasive in Hawaii.	CW, NW, SN, SW
	Phalaris aquatica	hardinggrass	Moderate	B	B	B	2.6	Coastal sites, especially moist soils. Limited distribution. Can be highly invasive locally.	CW, NW, SN, SW
	Phoenix canariensis	Canary Island date palm	Limited	C	B	D	2.3	Desert washes; agricultural crop plant. Limited distribution in southern CA. Impacts can be higher locally.	CW, SW
	Picris echioides	bristly oxtongue	Limited	C	B	B	2.4	Coastal prairie, scrub, riparian woodland. Widespread locally. Abiotic impacts unknown.	CA-FP
	Piptatherum miliaceum	smilograss	Limited	C	B	B	2.4	Coastal dunes, scrub, riparian, grassland. Expanding range. Impacts largely unknown.	GV, CW, SW
	Plantago lanceolata	buckhorn plantain, English plantain	Limited	C	C	B	2.1	Many habitats. Turf weed primarily. Low density and impact in wildlands.	CA-FP
	Poa pratensis	Kentucky bluegrass	Limited	C	B	B	2.7	Grasslands scrub, riparian areas. Widespread turf plant. Abiotic impacts unknown.	CA
◆	*Polygonum cuspidatum (=Fallopia japonica)*	Japanese knotweed	Moderate	B	B	D	2.7	Riparian areas, wetlands, forest edges. More severe impacts in NW wetlands. Distribution limited in CA.	NW, CaR, SN, GV, CW
◆	*Polygonum sachalinense*	Sakhalin knotweed	Moderate	B	A	D	2.5	Riparian areas. More severe impacts in NW wetlands. Distribution limited in CA.	NW, CaR, SN, GV, CW
	Polypogon monspeliensis and subspp.	rabbitfoot polypogon, rabbitgoot grass	Limited	C	C	B	2.3	Margins of ponds and streams, seasonally wet places, edge of coastal dunes. Widespread. Impacts appear to be minor.	CA
	Potamogeton crispus	curlyleaf pondweed	Moderate	B	B	B	3.2	Freshwater aquatic systems. Can be very invasive locally.	NW, GV, CW, SW, DMoj
	Prunus cerasifera	cherry plum, wild plum	Limited	C	B	B	1.8	Riparian habitats, chaparral, woodland. Limited distribution. Abiotic impacts unknown.	NW, CW
	Pyracantha angustifolia, P. crenulata, P. coccinea	pyracantha, firethorn	Limited	C	B	B	2.8	Coastal scrub and prairie, riparian areas. Horticultural escape. Impacts unknown or minor.	NW, CW, SW
	Ranunculus repens	creeping buttercup	Limited	C	C	B	2.9	Riparian areas, coniferous forest. Impacts appear to be minor to negligible in most areas.	NW, CaR, SN, CW, SW
	Raphanus sativus	radish	Limited	C	C	B	2.5	Present at low levels in numerous habitats. Widespread in disturbed sites.	CA-FP

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TABLE 1: Invasive Non-Native Plants that Threaten Wildlands in California (continued)

Alert ◆	Scientific Name	Common Name	Rating	Impacts	Invasiveness	Distribution	Doc. Level	Ecological Types Invaded and Other Comments	Regions Invaded
◆	*Retama monosperma*	bridal broom	Moderate	B	B	C	1.8	Coastal scrub. Can spread rapidly but largely if uncontrolled. Limited distribution in CA.	SW
	Ricinus communis	castorbean	Limited	C	B	B	2.5	Coastal scrub and prairie, riparian areas. Widespread in southern CA. Impacts locally variable.	GV, CW, SW
	Robinia pseudoacacia	black locust	Limited	C	B	B	2.8	Riparian areas, canyons. Severe impacts in southern states. Impacts minor in CA.	CA-FP, GB
	Rubus armeniacus (= *R. discolor*)	Himalaya blackberry	High	A	A	A	3.0	Riparian areas, marshes, oak woodlands	CA-FP
	Rumex acetosella	red sorrel, sheep sorrel	Moderate	B	B	A	2.3	Many habitats, riparian areas, forest, wetlands. Widespread. Abiotic impacts unknown. Impacts can vary locally.	CA-FP
	Rumex crispus	curly dock	Limited	C	C	A	2.7	Grasslands, vernal pool, meadows, riparian. Widespread. Impacts appear to be minor.	CA
	Salsola paulsenii	barbwire Russian-thistle	Limited	C	C	C	2.9	Desert and Great Basin scrub. Limited distribution. Impacts in desert appear to be minor.	SW, SNE, DMoj
	Salsola tragus (=*S. kali*)	Russian-thistle	Limited	C	B	B	2.8	Desert dunes and scrub, alkali playa. Widespread. Impacts minor in wildlands.	CA
	Salvia aethiopis	Mediterranean sage	Limited	C	B	B	2.5	Sagebrush, juniper, bunchgrass. Limited distribution. Impacts minor but can be locally higher.	MP
◆	*Salvinia molesta*	giant salvinia	High	A	A	C	2.9	Freshwater aquatic systems	CW, DSon
◆	*Sapium sebiferum* (=*Triadica sebifera*)	Chinese tallowtree	Moderate	B	B	C	3.2	Riparian areas. Impacts severe in southeast US. Limited distribution, but spreading rapidly regionally.	GV
	Saponaria officinalis	bouncingbet	Limited	C	B	C	2.5	Riparian scrub and woodland. Impacts unknown or minor, but appear to be locally variable.	NW, GV, CW, SW, GB
	Schinus molle	Peruvian peppertree	Limited	C	B	B	2.5	Riparian. Limited distribution. Impacts largely unknown in CA.	GV, SN, CW, SW
	Schinus terebinthifolius	Brazilian peppertree	Limited	C	B	C	2.6	Riparian. Very invasive in tropics. Abiotic impacts unknown, but appear significant locally.	SW

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TABLE 1: Invasive Non-Native Plants that Threaten Wildlands in California (continued)

Alert ◆	Scientific Name	Common Name	Rating	Impacts	Invasiveness	Distribution	Doc. Level	Ecological Types Invaded and Other Comments	Regions Invaded
	Schismus arabicus, S. barbatus	mediterranean-grass	Limited	B	C	A	2.3	Scrub, thorn woodland. Widespread in deserts. Impacts can be more important locally.	GV, CW, SW, D
	Senecio jacobaea	tansy ragwort	Limited	C	B	B	2.8	Grasslands, riparian. Impacts generally minor. Can be locally important in NW CA.	CA-FP
◆	*Sesbania punicea*	red sesbania, scarlet wisteria	High	A	B	C	3.2	Riparian areas	GV
	Silybum marianum	blessed milkthistle	Limited	C	C	A	3.5	Grasslands, riparian. Widespread, primarily in disturbed areas. Impacts can be higher locally	NW, GV, CW, SW
	Sinapis arvensis	wild mustard, charlock	Limited	C	C	C	2.9	Grasslands. Primarily in disturbed sites. Impacts minor or unknown in wildlands.	CA-FP
	Sisymbrium irio	London rocket	Moderate	B	B	A	1.9	Scrub, grasslands. Widespread. Primarily in disturbed sites. Impacts vary locally.	GV, SW
◆	*Spartina alterniflora* (and *S. alterniflora* x *foliosa* hybrids)	smooth cordgrass & hybrids, Atlantic cordgrass	High	A	A	C	3.5	San Francisco Bay salt marshes and mudflats. Hybridizes with native *S. foliosa*.	CW
◆	*Spartina anglica*	common cordgrass	Moderate	B	B	D	3.4	San Francisco Bay salt marshes. Very severe impact in other countries. Limited distribution in CA.	CW
◆	*Spartina densiflora*	dense-flowered cordgrass	High	A	B	C	3.3	San Francisco and Humboldt Bay salt marshes	NW, CW
	Spartina patens	saltmeadow cordgrass	Limited	C	C	D	2.9	San Francisco Bay salt marshes. Very limited distribution. Impacts currently minor in CA, but high in other countries.	CW
	Spartium junceum	Spanish broom	High	A	B	B	3.2	Coastal scrub, grasslands, wetlands, oak woodland, forests	NW, CW, SW
◆	*Stipa capensis*	Mediterranean steppegrass, twisted-awned speargrass	Moderate	B	B	D	1.9	Desert scrub. First recorded in CA 1995. Limited distribution, but spreading rapidly in CA deserts.	DSon
	Taeniatherum caput-medusae	medusahead	High	A	A	A	3.4	Grasslands, scrub, woodland	CaR, NW, SN, GV, SW

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TABLE 1: Invasive Non-Native Plants that Threaten Wildlands in California (continued)

Alert ◆	Scientific Name	Common Name	Rating	Impacts	Invasiveness	Distribution	Doc. Level	Ecological Types Invaded and Other Comments	Regions Invaded
	Tamarix aphylla	athel tamarisk	Limited	C	B	B	3.5	Desert washes, riparian areas. Limited distribution. Impacts minor, but can be locally higher.	GV, SW, D
	Tamarix parviflora	smallflower tamarisk	High	A	A	B	3.1	Riparian areas, desert washes, coastal scrub	NW, GV, CW, Dmoj
	Tamarix ramosissima	saltcedar, tamarisk	High	A	A	A	3.3	Desert washes, riparian areas, seeps and springs	SN, GV, CW, SW, D, SNE
	Tanacetum vulgare	common tansy	Moderate	B	B	B	2.3	Riparian areas, forest. Limited distribution. Severe problem in other western states.	NW, CaR,
	Torilis arvensis	hedgeparsley	Moderate	C	B	A	2.3	Expanding range. Appears to have only moderate ecological impacts.	CA-FP, especially CW, NW
	Trifolium hirtum	rose clover	Moderate	C	B	B	2.8	Grasslands, oak woodland. Widely planted in CA. Impacts relatively minor in most areas.	CA-FP
	Ulex europaeus	gorse	High	A	B	B	2.9	Scrub, woodland, forest, coastal grassland	NW, CaR, SN, CW
	Undaria pinnatifida	wakame	Limited	C	B	C	3.3	Algae of estuaries. First recorded in CA in 2000. Impacts unknown, but do not appear to be significant	CW, SW
	Verbascum thapsus	common mullein, woolly mullein	Limited	C	B	B	3.8	Meadows, riparian, sagebrush, pinyon-juniper woodlands. Widespread. Impacts minor.	NW, CaR, SN
	Vinca major	big periwinkle	Moderate	B	B	B	2.8	Riparian, oak woodlands, coastal scrub. Distribution currently limited but spreading in riparian areas. Impacts can be higher locally.	CaR, SW, SN, GV
	Vulpia myuros	rattail fescue	Moderate	B	B	A	3.0	Coastal sage scrub, chaparral. Widespread. Rarely forms monotypic stands, but locally problematic.	CA-FP, D
◆	*Washingtonia robusta*	Mexican fan palm	Moderate	B	B	C	2.7	Desert washes. Limited distribution but spreading in southern CA. Impacts can be higher locally.	SW
	Watsonia meriana	bulbil watsonia	Limited	C	B	C	2.3	Coastal prairie, coniferous forest. Abiotic impacts unknown, but may be locally dense.	NW
	Zantesdeschia aethiopica	calla lily	Limited	C	B	C	2.1	Coastal prairie, wetlands. Impacts high in other countries and local impacts may be high in CA.	NW, CW, SW

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TABLE 2: Species Native to Part of California, but Invasive in Other Parts of the State

A few native species have become invasive in regions outside their natural range. This table lists those species that cause negative impacts in their introduced range. No overall rating is provided, since impacts are not statewide, but the section scores for each of the three plants assessed would result in Moderate ratings for the areas in which they are invasive.

Scientific Name	Common Name	Impacts	Invasiveness	Distribution	Doc. Level	Ecological Types Invaded and Other Comments	Native Range	Invasive Range
Cupressus macrocarpa	Monterey cypress	B	B	B	2.3	Native to Monterey area. Invades coastal prairie, desert scrub, riparian areas.	CW	NW
Lupinus arboreus	yellow bush lupine	B	B	B	3.5	Native south of Point Reyes. Invasive in north coast dunes.	SW, CW Bay Area	NW
Phragmites australis	common reed	Unable to score.				Genetic issues make it unclear which strains are native to CA.	Uncertain	
Pinus radiata cultivars	Monterey pine	B	B	B	2.6	Five populations native to CA. Invades coastal scrub, prairie, and chaparral.	CW	NW

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TABLE 3: Species Evaluated But Not Listed

In general, this designation is for species for which information is currently inadequate to respond with certainty to the minimum number of criteria questions (i.e., too many "U" responses), or for which the sum effects of Ecological Impacts, Invasive Potential, and Ecological Amplitude and Distribution fall below the threshold for ranking (i.e. the overall score falls below Limited). Many such species are widespread but are not known to have substantial ecological impacts (though such evidence may appear in the future). All species receiving a D score for Ecological Impacts, regardless of other section scores, are by default placed into this category.

Scientific Name	Common Name	Impacts	Invasiveness	Distribution	Doc. Level	Comments
Acacia paradoxa	kangaroothorn	D	C	C	2.5	Does not spread in wildlands.
Aeschynomene rudis	rough jointvetch	D	C	D	3.2	Serious agricultural weed, but not known to have impacts in wildlands.
Aira caryophyllea	silver hairgrass	D	C	A	2.6	Widespread in grasslands, but impacts appear negligible.
Aira praecox	European hairgrass	D	C	C	2.8	Appears to be spreading locally, but impacts unknown.
Albizia lophantha	plume acacia	U	B	C	1.5	Present in Golden Gate National Recreation Area. Need more information
Allium triquetrum	three-cornered leak	U	C	C	1.6	Impacts unknown.
Anthemis cotula	mayweed chamomile, dog fennel	D	B	B	2.4	Abiotic and wildife impacts unknown
Bellis perennis	English daisy	D	C	C	2.8	Present along trails, not known to spread into undisturbed areas.
Berberis darwinii	Darwin barberry	U	B	D	2.1	Impacts unknown.
Buddleja davidii	butterflybush	D	B	D	2.5	Not known to be invasive in CA, although it is a problem in Oregon.
Cestrum parqui	willow jessamine	U	B	C	2.0	Impacts unknown.
Chorispora tenella	blue mustard	U	C	C	1.5	Impacts unknown.
Cistus ladanifer	gum rockrose	D	C	C	3.3	Negligible known impacts in wildlands.
Convolvulus arvensis	field bindweed	D	B	B	3.5	Only known as agricultural weed.
Daucus carota	wild carrot, Queen Anne's lace	D	C	B	2.7	Very widespread, but primarily in disturbed sites, particularly roadsides.
Dimorphotheca sinuata	African daisy	D	C	B	1.8	Impacts to abiotic processes and plant communities unknown.
Erigeron karvinskianus	Mexican daisy	U	B	C	1.9	Impacts unknown, but appears to be expanding. May become more problematic in future.
Erodium botrys	broadleaf filaree	D	C	A	2.8	Present in wildlands but known impacts are negligible. Often transient.
Erodium brachycarpum	short-fruited filaree	D	C	A	2.6	Present in wildlands but known impacts are negligible. Often transient.
Erodium moschatum	whitestem filaree	D	C	A	2.7	Primarily an agricultural weed, little impact in wildlands.
Euphorbia lathyris	caper spurge	D	C	B	2.2	Abiotic impacts unknown.
Fumaria officinalis	fumitory	D	C	D	2.3	Abiotic impacts unknown.
Geranium molle	dovefoot geranium	D	B	A	1.7	Present in wildlands, but known impacts are negligible.

TABLE 3: Species Evaluated But Not Listed (continued)

Scientific Name	Common Name	Impacts	Invasiveness	Distribution	Doc. Level	Comments
Geranium retrorsum	New Zealand geranium	D	B	B	1.9	Present in wildlands, but known impacts are negligible.
Geranium robertianum	herb-robert, Robert geranium	D	B	C	2.8	Present in wildlands, but known impacts are negligible.
Gleditsia triacanthos	honey locust	D	B	C	3.3	Very limited distribution.
Lactuca serriola	prickly lettuce	D	C	B	3.1	Primarily an agricultural and roadside weed.
Leptospermum laevigatum	Australian tea tree	D	C	D	2.2	Very limited distribution.
Ligustrum lucidum	glossy privet	D	B	C	3.1	May prove problematic in riparian areas.
Lotus corniculatus	birdsfoot trefoil	D	B	B	2.8	Primarily a turf or agricultural weed in CA.
Malephora crocea	coppery mesembryanthemum	D	C	C	2.0	A problem on southern CA islands, but statewide impacts are limited.
Maytenus boaria	mayten	D	C	D	2.4	Infestation on Angel Island, San Francisco Bay.
Melilotus officinalis	yellow sweetclover	D	C	C	3.3	Present in human-disturbed habitats only.
Nerium oleander	oleander	D	B	D	2.6	Not known to be invasive, although reported from riparian areas in Central Valley and San Bernardino Mtns.
Nothoscordum gracile	false garlic	D	B	D	2.1	Mainly an urban garden weed.
Nymphaea odorata	fragrant waterlily	D	B	C	2.3	Present only at one site.
Oxalis corniculata	creeping woodsorrel	D	C	C	2.2	Primarily a turf weed in CA.
Parkinsonia aculeata	Mexican palo-verde	D	B	D	2.2	Has not escaped into wildlands enough to cause impacts.
Pistachia chinensis	Chinese pistache	U	C	D	0.9	Impacts unknown.
Pittosporum undulatum	Victorian box	D	C	D	2.7	Infestations in CA are small. More problematic on north coast.
Plantago coronopus	cutleaf plaintain	U	C	B	1.7	Impacts unknown. Common on north coast.
Solanum elaeagnifolium	silverleaf nightshade	D	B	B	2.8	Primarily an agricultural weed, but escaping to wildlands in other countries. May prove to be more important in future.
Sonchus asper	spiny sowthistle	D	B	B	3.1	Primarily an agricultural weed.
Taraxacum officinale	common dandelion	D	B	B	2.8	Primarily a turf weed in CA.
Tragopogon dubius	yellow salsify	D	C	B	3.2	Generally a minor component of disturbed areas.
Tropaeolum majus	garden nasturtium	D	C	C	1.4	Impacts on abiotic processes and native plants unknown.
Ulmus pumila	Siberian elm	D	B	B	2.5	Impacts unknown.
Verbena bonariensis, V. litoralis	tall vervain, seashore vervain	D	B	C	2.1	Often in disturbed areas of irrigation canals.
Vicia villosa	hairy vetch	D	C	B	2.8	Primarily an agricultural weed. Widespread but impacts minor in wildlands.
Vulpia bromoides	squirreltail fescue	D	C	B	2.9	Less common than *V. myuros*.

TABLE 4: Species Nominated but Not Reviewed

The following species were nominated for review, but not evaluated because either they are not known to escape into wildlands or we lacked sufficient information to complete an assessment.

Scientific Name	Common Name	Comments
Aptenia cordifolia	baby sun rose, heartleaf iceplant	Occasional ornamental escape.
Araujia sericifera	bladderflower	Need more information.
Brassica oleracea	cabbage	Disturbed areas along north and central coast.
Catalpa bignonioides	southern catalpa	Reported from Sacramento/San Joaquin Valley riparian corridors. Need more information.
Chrysanthemum segetum	corn daisy	Disturbed areas only.
Coprosma repens	creeping mirrorplant	1999 Cal-EPPC list indicated no evidence of wildland threat.
Crepis capillaris	smooth hawksbeard	Primarily in pastures and roadsides in coastal areas of northwest CA.
Erica lusitanica	Spanish heath	Reported from Humboldt and Del Norte Cos. Need more information.
Eriogonum fasciculatum	California buckwheat	Invades along roadsides and other areas of human disturbance. Not known to threaten wildlands.
Gazania linearis	gazania	Reported to invade in San Francisco Bay Area. Need more information.
Grindelia squarrosa	curlycup gumweed, gumplant	Mainly along roadsides. More a problem in Nevada.
Kniphofia uvaria	redhot poker	Primarily along roadsides.
Lathyrus latifolius	perennial sweetpea	Reported from the north coast. Need more information.
Lathyrus tingitanus	Tangier pea	Along roadsides. Need more information.
Limonium ramosissimum ssp. *provinciale*	sea-lavender	Present in salt marshes. Need more information.
Melilotus indicus	Indian sweetclover	Reported from disturbed sites. Need more information.
Mesembryanthemum nodiflorum	slenderleaf iceplant	Common in San Diego area along coast. Need more information on impacts.
Osteospermum fruticosum	shrubby daisybush	Occasional ornamental escape in southern CA. Does not appear to be invasive.
Passiflora caerulea	blue passionflower	Not known to invade wildlands.
Phalaris arundinacea	reed canarygrass	*Jepson Manual* lists it as native in CA. Acts like a native in most areas of the state. A problem in NW states.
Phoenix dactylifera	date palm	Reported from southern CA deserts. Need more information.
Phytolacca americana	pokeweed	Reported invading riparian areas in northern Sacramento Valley. Need more information.
Salsola soda	glasswort	Reported from San Francisco Bay shorelines and creek mouths. Need more information.
Ulmus parvifolia	Chinese elm	Present in disturbed areas or old homesites only.
Watsonia borbonica	watsonia	May be confused with *W. meriana*, which is invasive in Mendocino Co.
Zoysia spp.	zoysiagrass	Does not appear to have escaped from turf.

APPENDIX 1. Species Listed by Category

◆ = Alert

High

Aegilops triuncialis (barb goatgrass)

◆ *Alternanthera philoxeroides* (alligatorweed)

Ammophila arenaria (European beachgrass)

Arundo donax (giant reed)

Brassica tournefortii (Saharan mustard, African mustard)

Bromus madritensis ssp. *rubens* (=*B. rubens*) (red brome)

Bromus tectorum (downy brome, cheatgrass)

Carpobrotus edulis (Hottentot-fig, iceplant)

Centaurea maculosa (=*C. biebersteinii*) (spotted knapweed)

Centaurea solstitialis (yellow starthistle)

Cortaderia jubata (jubatagrass)

Cortaderia selloana (pampasgrass)

Cytisus scoparius (Scotch broom)

Delairea odorata (=*Senecio mikanioides*) (Cape-ivy, German-ivy)

Egeria densa (Brazilian egeria)

Ehrharta calycina (purple veldtgrass)

◆ *Eichhornia crassipes* (water hyacinth)

◆ *Euphorbia esula* (leafy spurge)

Foeniculum vulgare (fennel)

Genista monspessulana (French broom)

Hedera helix, H. canariensis (English ivy, Algerian ivy)

◆ *Hydrilla verticillata* (hydrilla)

Lepidium latifolium (perennial pepperweed, tall whitetop)

◆ *Ludwigia hexapetala* (=*L. uruguayensis*) (Uruguay water-primrose)

Ludwigia peploides ssp. *montevidensis* (creeping water-primrose)

Lythrum salicaria (purple loosestrife)

◆ *Myriophyllum aquaticum* (parrotfeather)

Myriophyllum spicatum (Eurasian watermilfoil)

Onopordum acanthium (Scotch thistle)

Rubus armeniacus (=*R. discolor*) (Himalaya blackberry, Armenian blackberry)

◆ *Salvinia molesta* (giant salvinia)

◆ *Sesbania punicea* (red sesbania, scarlet wisteria)

◆ *Spartina alterniflora* hybrids (smooth cordgrass, Atlantic cordgrass)

◆ *Spartina densiflora* (dense-flowered cordgrass)

Spartium junceum (Spanish broom)

Taeniatherum caput-medusae (medusahead)

Tamarix parviflora (smallflower tamarisk)

Tamarix ramosissima (saltcedar, tamarisk)

Ulex europaeus (gorse)

Moderate

Ageratina adenophora (croftonweed, eupatorium)

Ailanthus altissima (tree-of-heaven)

Alhagi maurorum (=*A. pseudalhagi*) (camelthorn)

Anthoxanthum odoratum (sweet vernalgrass)

◆ *Arctotheca calendula* (fertile) (fertile capeweed)

Arctotheca calendula (sterile) (sterile capeweed)

◆ *Asparagus asparagoides* (bridal creeper, smilax asparagus)

◆ *Asphodelus fistulosus* (onionweed)

Atriplex semibaccata (Australian saltbush)

Avena barbata (slender wild oat)

Avena fatua (wild oat)

◆ *Brachypodium sylvaticum* (perennial false-brome)

Brassica nigra (black mustard)

Bromus diandrus (ripgut brome)

◆ *Cardaria chalepensis* (=*C. draba* ssp. *chalepensis*) (lens-podded whitetop)

Cardaria draba (hoary cress)

Carduus nutans (musk thistle)

Carduus pycnocephalus (Italian thistle)

Carpobrotus chilensis (sea-fig, iceplant)

◆ *Carthamus lanatus* (woolly distaff thistle)

Moderate *(continued)*

Centaurea calcitrapa (purple starthistle)

◆ *Centaurea debeauxii* (=*C.* x *pratensis*) (meadow knapweed)

Centaurea melitensis (Malta starthistle, tocalote)

Centaurea virgata ssp. *squarrosa* (=*C. squarrosa*) (squarrose knapweed)

Chondrilla juncea (rush skeletonweed)

Chrysanthemum coronarium (crown daisy)

Cirsium arvense (Canada thistle)

Cirsium vulgare (bull thistle)

Conium maculatum (poison-hemlock)

Cotoneaster franchetii (orange cotoneaster)

Cotoneaster lacteus (Parney's cotoneaster)

Cotoneaster pannosus (silverleaf cotoneaster)

Cynara cardunculus (artichoke thistle)

Cynodon dactylon (bermudagrass)

Cynoglossum officinale (houndstongue)

Cynosurus echinatus (hedgehog dogtailgrass)

Cytisus striatus (Portuguese broom, striated broom)

Dipsacus fullonum (wild teasel)

Dipsacus sativus (fuller's teasel)

◆ *Dittrichia graveolens* (stinkwort)

Ehrharta erecta (erect veldtgrass)

◆ *Ehrharta longiflora* (long-flowered veldtgrass)

Elaeagnus angustifolia (Russian-olive)

◆ *Emex spinosa* (spiny emex, devil's thorn)

Erechtites glomerata, E. minima (Australian fireweed, Australian burnweed)

Eucalyptus globulus (Tasmanian blue gum)

◆ *Euphorbia terracina* (carnation spurge)

Festuca arundinacea (tall fescue)

Ficus carica (edible fig)

Geranium dissectum (cutleaf geranium)

Glyceria declinata (waxy mannagrass)

Halogeton glomeratus (halogeton)

Hirschfeldia incana (shortpod mustard, summer mustard)

Holcus lanatus (common velvetgrass)

Hordeum marinum, H. murinum (Mediterranean barley, hare barley, wall barley)

◆ *Hypericum canariense* (Canary Island hypericum)

Hypericum perforatum (common St. Johnswort, klamathweed)

Hypochaeris radicata (rough catsear, hairy dandelion)

◆ *Ilex aquifolium* (English holly)

Isatis tinctoria (dyer's woad)

Kochia scoparia (kochia)

Leucanthemum vulgare (oxeye daisy)

Linaria genistifolia ssp. *dalmatica* (=*L. dalmatica*) (Dalmation toadflax)

Lolium multiflorum (Italian ryegrass)

Lythrum hyssopifolium (hyssop loosestrife)

Mentha pulegium (pennyroyal)

◆ *Mesembryanthemum crystallinum* (crystalline iceplant)

Myoporum laetum (myoporum)

Nicotiana glauca (tree tobacco)

Oxalis pes-caprae (buttercup oxalis, yellow oxalis, Bermuda buttercup)

Pennisetum setaceum (crimson fountaingrass)

Phalaris aquatica (hardinggrass)

◆ *Polygonum cuspidatum* (=*Fallopia japonica*) (Japanese knotweed)

◆ *Polygonum sachalinense* (Sakhalin knotweed, giant knotweed)

Potamogeton crispus (curlyleaf pondweed)

◆ *Retama monosperma* (bridal broom)

Rumex acetosella (red sorrel, sheep sorrel)

◆ *Sapium sebiferum* (Chinese tallowtree)

Sisymbrium irio (London rocket)

◆ *Spartina anglica* (common cordgrass)

◆ *Stipa capensis* (Mediterranean steppegrass, twisted-awned speargrass)

Tanacetum vulgare (common tansy)

Torilis arvensis (hedgeparsley)

Trifolium hirtum (rose clover)

Vinca major (big periwinkle)

Vulpia myuros (rattail fescue)

◆ *Washingtonia robusta* (Mexican fan palm, Washington palm)

APPENDIX 1: Species Listed by Category (continued)

Limited

Acacia melanoxylon (black acacia, blackwood acacia)

Agrostis avenacea (Pacific bentgrass)

Agrostis stolonifera (creeping bentgrass)

Bassia hyssopifolia (fivehook bassia)

Bellardia trixago (bellardia)

Brassica rapa (birdsrape mustard, field mustard)

Briza maxima (big quackinggrass, rattlesnakegrass)

Bromus hordeaceus (soft brome)

Cakile maritima (European sea-rocket)

Cardaria pubescens (hairy whitetop)

Carduus acanthoides (plumeless thistle)

Carduus tenuifolius (slenderflower thistle)

Conicosia pugioniformis (narrowleaf iceplant)

Cordyline australis (giant dracaena, New Zealand-cabbage tree)

Cotula coronopifolia (brassbuttons)

Crataegus monogyna (English hawthorn)

Crocosmia x *crocosmiiflora* (montbretia)

Crupina vulgaris (common crupina, bearded creeper)

Dactylis glomerata (orchardgrass)

Descurainia sophia (flixweed, tansy mustard)

Digitalis purpurea (foxglove)

Echium candicans (pride-of-Madeira)

Erodium cicutarium (redstem filaree)

Eucalyptus camaldulensis (red gum)

Euphorbia oblongata (oblong spurge)

Helichrysum petiolare (licoriceplant)

Hypochaeris glabra (smooth catsear)

Iris pseudacorus (yellowflag iris)

Lobularia maritima (sweet alyssum)

Marrubium vulgare (white horehound)

Medicago polymorpha (California burclover)

Myosotis latifolia (common forget-me-not)

Olea europaea (olive)

Ononis alopecuroides (foxtail restharrow)

Parentucellia viscosa (yellow glandweed, sticky parentucellia)

Pennisetum clandestinum (kikuyugrass)

Phoenix canariensis (Canary Island date palm)

Picris echioides (bristly oxtongue)

Piptatherum miliaceum (smilograss)

Plantago lanceolata (buckhorn plantain, English plantain)

Poa pratensis (Kentucky bluegrass)

Polypogon monspeliensis and subspp. (rabbitfoot polypogon, annual beardgrass, rabbitfoot grass)

Prunus cerasifera (cherry plum, wild plum)

Pyracantha angustifolia, P. crenulata, P. coccinea, etc. (pyracantha, firethorn)

Ranunculus repens (creeping buttercup)

Raphanus sativus (radish)

Ricinus communis (castorbean)

Robinia pseudoacacia (black locust)

Rumex crispus (curly dock)

Salsola paulsenii (barbwire Russian-thistle)

Salsola tragus (Russian-thistle)

Salvia aethiopis (Mediterranean sage)

Saponaria officinalis (bouncingbet)

Schinus molle (Peruvian peppertree)

Schinus terebinthifolius (Brazilian peppertree)

Schismus arabicus, S. barbatus (mediterraneangrass)

Senecio jacobaea (tansy ragwort)

Silybum marianum (blessed milkthistle)

Sinapis arvensis (wild mustard, charlock)

Spartina patens (saltmeadow cordgrass)

Tamarix aphylla (athel tamarisk)

Undaria pinnatifida (wakame)

Verbascum thapsus (common mullein, woolly mullein)

Watsonia meriana (bulbil watsonia)

Zantesdeschia aethiopica (calla lily)

APPENDIX 2. Cal-IPC Species Listed by Other Ratings Systems

This table is provided so that those familiar with other commonly-used ratings systems may compare those lists to the 2006 Cal-IPC ratings. See the cited websites for explanations of rating systems. Species not included in this appendix do not appear on any of these lists.

CAL-EPPC 1999 – Cal-EPPC. 1999. The Cal-EPPC List: Exotic Pest Plants of Greatest Ecological Concern in California. California Exotic Pest Plant Council: San Juan Capistrano, CA. Available: www.cal-ipc.org.

CDFA – CDFA. 2005. EncycloWeedia: Notes on Identification, Biology, and Management of Plants Defined as Noxious Weeds by California Law. California Department of Food and Agriculture: Sacramento, CA. Available: www.cdfa.ca.gov/weedhome.

USDA – Plant Protection and Quarantine. 2002. Federal Noxious Weed List. USDA Animal and Plant Health Inspection Service. US Department of Agriculture: Washington, D.C. Available: plants.usda.gov.

AZ – Arizona Invasive Plant Working Group. 2005. Invasive Non-native Plants that Threaten Wildlands in Arizona. Southwest Vegetation Management Association. Available: www.swvma.org.

NATURESERVE – NatureServe. 2005. Invasive Species Impact Ranks for the United States: Summary of Results as of January 10, 2005. NatureServe: Arlington, VA. Available: www.natureserve.org.

Scientific Name	Cal-EPPC 1999	CDFA	USDA	Arizona	NatureServe
Acacia melanoxylon	Need More Info				Medium/Insignificant
Acacia paradoxa		B			
Acroptilon repens		B		High	High/Medium
Aegilops triuncialis	Annual Grasses	B			
Aeschynomene rudis	Need More Info	A			
Ageratina adenophora	B		✔		
Agrostis avenacea	Need More Info				
Ailanthus altissima	A-2	*			Medium/Low
Aira caryophyllea					Medium/Insignificant
Albizia lophantha	Considered, not listed				
Alhagi maurorum (=*A. pseudalhagi*)	Red Alert	A		Medium	Medium/Low
Alternanthera philoxeroides		A			Medium
Ammophila arenaria	A-1				High/Medium
Anthemis cotula					Medium/Insignificant
Anthoxanthum odoratum	Considered, not listed				
Aptenia cordifolia	Need More Info				
Araujia sericifera		B			
Arctotheca calendula (fertile strains)	Red Alert	A			

APPENDIX 2: Cal-IPC Species Listed by Other Rating Systems (continued)

Scientific Name	Cal-EPPC 1999	CDFA	USDA	Arizona	NatureServe
Arundo donax	A-1	*		High	High
Asparagus asparagoides					Low/Insignificant
Asphodelus fistulosus	Need More Info		✔	Low	
Atriplex semibaccata	A-2				High/Low
Avena barbata	Annual Grasses				
Avena fatua	Annual Grasses			Medium	High/Low
Bassia hyssopifolia	B				Low/Insignificant
Bellardia trixago	B				Medium/Insignificant
Brachypodium sylvaticum					High/Low
Brassica nigra	B				
Brassica tournefortii	A-2			Medium	High/Low
Bromus diandrus	Annual Grasses			Medium-Alert	
Bromus madritensis ssp. *rubens* (=*B. rubens*)	A-2			High	
Bromus tectorum	A-1			High	High
Buddleja davidii					High/Low
Cardaria chalepensis (=*C. draba* ssp. *chalepensis*)	B	B		Medium-Alert	
Cardaria draba	A-2	B		Medium-Alert	
Cardaria pubescens		B		Medium-Alert	
Carduus acanthoides	Need More Info	A			Medium/Low
Carduus nutans		A		Medium	High/Low
Carduus pycnocephalus	B	C			Medium
Carduus tenuifolius		C			Unknown
Carpobrotus chilensis	Considered, not listed				Medium
Carpobrotus edulis	A-1				High
Carthamus lanatus		B			
Centaurea debeauxii (=*C.* x *pratensis*)		A			
Centaurea diffusa		A		Medium	
Centaurea maculosa (=*C. biebersteinii*)	Red Alert	A		Medium	
Centaurea melitensis	B	C		Medium	Medium/Low
Centaurea solstitialis	A-1	C		High	High/Medium
Centaurea virgata ssp. *squarrosa* (=*C. squarrosa*)		A			
Chondrilla juncea		A		Medium-Alert	Medium/Insignificant
Chorispora tenella		B			Insignificant
Cirsium arvense	B	B		Medium	
Cirsium vulgare	B	*		Low	
Cistus ladanifer	Need More Info				
Conicosia pugioniformis	A-2				

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APPENDIX 2: Cal-IPC Species Listed by Other Rating Systems (continued)

Scientific Name	Cal-EPPC 1999	CDFA	USDA	Arizona	NatureServe
Conium maculatum	B			Medium-Alert	Medium/Low
Convolvulus arvensis	Considered, not listed	C		Medium	Medium/Low
Coprosma repens	Considered, not listed				
Cordyline australis	Need More Info				
Cortaderia jubata	A-1	*			Medium
Cortaderia selloana	A-1			Medium	Medium/Low
Cotoneaster franchetii	Need More Info				
Cotoneaster lacteus	A-2				
Cotoneaster pannosus	A-2				Medium
Crataegus monogyna	B				
Crocosmia x crocosmiiflora	Considered, not listed				
Crupina vulgaris	Red Alert	A	✔		Medium/Low
Cupressus macrocarpa	Need More Info				
Cynara cardunculus	A-1	B			Medium
Cynodon dactylon		C		Medium	Medium/Low
Cynoglossum officinale				Low	Medium/Low
Cytisus scoparius	A-1	C			High/Medium
Cytisus striatus	A-2				
Dactylis glomerata					Medium/Insig
Daucus carota					Low
Delairea odorata	A-1	*			Medium
Descurainia sophia	Need More Info				Medium/Low
Digitalis purpurea	Considered, not listed				Medium/Insignificant
Dimorphotheca sinuata	Need More Info				
Dipsacus fullonum	Considered, not listed				High/Low
Dipsacus sativus	Considered, not listed				
Echium candicans	Need More Info				
Egeria densa	A-2	C			High/Medium
Ehrharta calycina	A-2				Medium/Low
Ehrharta erecta	B				Medium/Insignificant
Ehrharta longiflora	Need More Info				
Eichhornia crassipes	A-2			High-Alert	High
Elaeagnus angustifolia	A-2			High	High
Emex spinosa			✔		Insignificant
Erechtites glomerata, E. minima	B				Medium/Insignificant
Erica lusitanica	Need More Info				
Erodium brachycarpum					Insignificant

APPENDIX 2: Cal-IPC Species Listed by Other Rating Systems (continued)

Scientific Name	Cal-EPPC 1999	CDFA	USDA	Arizona	NatureServe
Erodium cicutarium				Medium	Medium/Low
Eucalyptus globulus	A-1				Medium
Euphorbia esula	A-2	A		High-Alert	High/Medium
Euphorbia lathyris	Need More Info				
Euphorbia oblongata		B			
Festuca arundinacea	B				
Ficus carica	A-2				Medium
Foeniculum vulgare	A-1				Medium/Low
Fumaria officinalis	Considered, not listed				
Gazania linearis	Need More Info				
Genista monspessulana	A-1	C			Medium
Glyceria declinata	Need More Info				
Halogeton glomeratus	Red Alert	A			High/Medium
Hedera helix	B				High/Medium
Hedera canariensis	Need More Info				
Helichrysum petiolare	Red Alert				
Hirschfeldia incana	Need More Info				High/Low
Holcus lanatus	B				
Hordeum marinum, H. murinum				Medium	High/Low
Hydrilla verticillata	Red Alert	A	✔	Not listed	High/Medium
Hypericum canariense	Need More Info				Low
Hypericum perforatum	B	C			High/Medium
Hypochaeris radicata	Need More Info				High/Low
Ilex aquifolium	B				High/Low
Iris pseudacorus	B				
Isatis tinctoria	Need More Info	B			High/Low
Lactuca serriola					Low/Insignificant
Lepidium latifolium	A-1	B		High-Alert	High
Leucanthemum vulgare	B			Low	Medium/Low
Ligustrum lucidum	Need More Info				
Limonium ramosissimum ssp. *provincale*	Need More Info				
Linaria genistifolia ssp. *dalmatica* (=*L. dalmatica*)		A		Medium-Alert	
Lolium multiflorum	Annual Grasses				
Lotus corniculatus					Medium/Low
Ludwigia hexapetala (=*L. uruguayensis*)	Need More Info				
Lupinus arboreus	A-2				
Lythrum salicaria	Red Alert	B			

APPENDIX 2: Cal-IPC Species Listed by Other Rating Systems (continued)

Scientific Name	Cal-EPPC 1999	CDFA	USDA	Arizona	NatureServe
Malephora crocea	Need More Info				
Marrubium vulgare					Medium/Low
Maytenus boaria	Need More Info				
Medicago polymorpha	Considered, not listed				
Melilotus officinalis	Considered, not listed			Medium	Medium/Low
Mentha pulegium	A-2				
Mesembryanthemum crystallinum	B			Low	
Mesembryanthemum nodiflorum	Need More Info			Medium-Alert	
Myoporum laetum	A-2				
Myriophyllum aquaticum	B			High-Alert	High/Medium
Myriophyllum spicatum	A-1			High-Alert	High
Nerium oleander	Considered, not listed				Low/Insignificant
Nicotiana glauca	Need More Info				High/Low
Olea europaea	B				
Ononis alopecuroides	Red Alert	Q			
Onopordum acanthium		A		Low	
Oxalis pes-caprae	Need More Info				
Parentucellia viscosa	Need More Info				
Passiflora caerulea	Need More Info				
Pennisetum clandestinum	Need More Info	C	✔		
Pennisetum setaceum	A-1			High	High/Medium
Phalaris aquatica	B				
Picris echioides	Considered, not listed				
Pinus radiata cultivars	Need More Info				
Piptatherum miliaceum	Need More Info				
Pistachia chinensis	Need More Info				
Pittosporum undulatum					High/Low
Plantago lanceolata					High/Low
Polygonum cuspidatum (=*Fallopia japonica*)		B			
Polygonum sachalinense					High/Medium
Polypogon monspeliensis and subspp.					High/Low
Potamogeton crispus	B				Medium
Prunus cerasifera	Need More Info				Medium/Insignificant
Pyracantha angustifolia, crenulata, coccinea, etc.	Need More Info				Hi/Low, Low/Insig
Ranunculus repens					High/Medium
Retama monosperma	Red Alert				
Ricinus communis	B				

APPENDIX 2: Cal-IPC Species Listed by Other Rating Systems (continued)

Scientific Name	Cal-EPPC 1999	CDFA	USDA	Arizona	NatureServe
Robinia pseudoacacia	B				
Rubus armeniacus (=*R. discolor*)	A-1			Medium-Alert	Medium/Insignificant
Salsola paulsenii		C		Medium	Low
Salsola soda	Need More Info				
Salsola tragus (=*S. kali*)	Need More Info	C		Medium	
Salvia aethiopis	Need More Info	B			Low
Salvinia molesta	Red Alert		✔	High-Alert	Medium
Sapium sebiferum	Red Alert				
Saponaria officinalis	A-2				Low/Insignificant
Schinus molle	B				Medium/Low
Schinus terebinthifolius	B				
Schismus arabicus, S. barbatus	Annual Grasses			Medium	Medium, Hi/Medium
Senecio jacobaea	B	B			Low
Sesbania punicea	Red Alert				
Silybum marianum	Considered, not listed				Medium/Low
Sisymbrium irio					Medium/Insignificant
Solanum elaeagnifolium		B			
Sonchus asper				Medium	
Spartina alterniflora hybrids	A-2				
Spartina anglica	Red Alert				
Spartina densiflora	Red Alert				High/Medium
Spartina patens	Red Alert				
Spartium junceum	B	*			
Stipa capensis	Need More Info				
Taeniatherum caput-medusae	A-1	C			High
Tamarix aphylla	Need More Info			Low	
Tamarix parviflora	A-1	*			
Tamarix ramosissima	A-1	*		High	High
Tanacetum vulgare	Need More Info				Low
Ulex europaeus	A-1	B			
Ulmus pumila				Medium	Medium/Low
Verbascum thapsus	B			Not listed	Medium
Verbena bonariensis, V. litoralis	Need More Info				
Vinca major	B			Medium-Alert	
Zantesdeschia aethiopica	Considered, not listed				Medium/Low
Zoysia spp.	Considered, not listed				

*Under consideration. Not yet rated.

APPENDIX 3. Examples of Ecological Types

These ecological types were used to score the Distribution section of plant assessment forms. Adapted from "Preliminary Descriptions of the Terrestrial Natural Communities of California" drafted by R. F. Holland for the California Department of Fish and Game (1986). Communities within minor ecotypes include all those listed in Holland (1986). Additional information from Sawyer, J. O., and T. Keeler-Wolf. 1995. A Manual of California Vegetation. California Native Plant Society: Sacramento, CA.

Major Ecological Types	Minor Ecological Types	Communities within Minor Ecotypes
Marine Systems	marine systems	kelp and other macroalgae
Freshwater and Estuarine Aquatic Systems	lakes, ponds, reservoirs	submergent and emergent vegetation in standing water
	rivers, streams, canals	submergent and emergent vegetation in moving ephemeral, intermittent or perennial water
	estuaries	submergent vegetation in estuaries (seagrass beds)
Dunes	coastal	foredunes, dune scrub
	desert	desert dunes and sand fields
	interior	interior and relictual dunes, primarily in the Great Valley
Scrub and Chaparral	coastal bluff scrub	northern and southern coastal bluff scrub
	coastal scrub	coyote bush, salal, silk-tassel, coastal sage, maritime succulent, Diegan coastal, Diablan, and Riversidian sage scrubs
	Sonoran desert scrub	Sonoran creosote bush, Sonoran mixed woody and succulent scrubs
	Mojavean desert scrub	Mojave creosote bush, blackbush, Mojave mixed woody, Mojave mixed steppe, and Mojave wash scrubs; Joshua tree woodland
	Great Basin scrub	big sagebrush and rabbitbrush scrubs; sagebrush steppe
	chenopod scrub	desert saltbush, desert sink, desert greasewood, shadscale, valley sink, and valley saltbush scrubs
	montane dwarf scrub	low sagebrush series
	Upper Sonoran subshrub scrub	bladderpod-California ephedra-narrowleaf goldenbush series
	chaparral	mixed, redshank, semi-desert, and montane (mixed, ceanothus, manzanita) chaparrals; chamise
Grasslands, Vernal Pools, Meadows, and other Herb Communities	coastal prairie	coastal terrace and bald hills prairies
	valley and foothill grassland	valley needlegrass, valley sacaton, serpentine bunchgrass, valley wildrye and, pine bluegrass grasslands
	Great Basin grassland	open, steppe-like vegetation of perennial bunchgrasses
	vernal pool	hardpan, claypan, basalt flow, and San Diego mesa vernal pools
	meadow and seep	wet or dry montane meadows; wet or dry subalpine or alpine meadows; alkali meadows and seeps; freshwater seep
	alkali playa	low, grayish, microphyllous, and succulent shrubs primarily in transmontane deserts
	pebble plain	dense clay soils with quartzite pebbles

APPENDIX 3: Examples of Ecological Types (continued)

Major Ecological Types	Minor Ecological Types	Communities within Minor Ecotypes
Bog and Marsh	bog and fen	sphagnum bog, Darlingtonia bog, fen
	marsh and swamp	salt, brackish, freshwater, transmontane alkali, and vernal marshes; freshwater swamp
Riparian and Bottomland	riparian forest	cottonwood, cottonwood-sycamore, red alder, white alder, aspen, willow, live oak, valley oak, Mojave, and mixed riparian forests; mesquite bosque
	riparian woodland	sycamore, sycamore-alder, desert dry wash, and fan palm oasis woodlands
	riparian scrub	riparian, mulefat, willow, mesquite, and buttonbush, desert wash, tamarisk and arrowweed scrubs; elderberry savanna; desert washes
Woodland	cismontane	blue oak, coast live oak, interior live oak, valley oak, island oak, California walnut, and foothill pine woodlands
	piñon and juniper	juniper woodland and scrub, pinon woodland
	Sonoran thorn	crucifixion thorn and Arizona woodlands
Forest	broadleaved upland	mixed evergreen, California bay, coast live oak, black oak, tan oak, red alder, and aspen forests
	North Coast coniferous	redwood , Sitka spruce-grand fir, western hemlock, Douglas-fir, and Port Orford Cedar forests
	closed cone coniferous	beach pine, bishop pine, Monterey pine, Torrey pine, Monterey cypress, pygmy cypress, interior cypress, knobcone pine forests
	lower montane coniferous	Coast Range coniferous, Klamath coniferous, ponderosa pine, Coulter pine, white pine, white fir, and big tree forests
	upper montane coniferous	Jeffrey pine, upper montane mixed coniferous, upper montane fir, and Klamath enriched coniferous forests
	subalpine coniferous	lodgepole pine, whitebark pine, foxtail pine, bristlecone pine, and limber pine forests
Alpine Habitats	alpine boulder and rock field	fell-field, talus and scree slope, snow margin
	alpine dwarf scrub	shrub dominated communities above the treeline

APPENDIX 4. Species by Common Name

Includes Species from Tables 1, 2, 3 and 4.

acacia, blackwood	*Acacia melanoxylon*
acacia, plume	*Albizia lophantha*
alligatorweed	*Alternanthera philoxeroides*
alyssum, sweet	*Lobularia maritima*
asparagus, smilax	*Asparagus asparagoides*
barberry, Darwin	*Berberis darwinii*
barbwire Russian-thistle	*Salsola paulsenii*
barley, Mediterranean	*Hordeum marinum*,
barley, wall	*Hordeum murinum*
beachgrass, European	*Ammophila arenaria*
beardgrass, annual	*Polypogon monspeliensis* and subspp.
bellardia	*Bellardia trixago*
bentgrass, creeping	*Agrostis stolonifera*
bentgrass, Pacific	*Agrostis avenacea*
bermudagrass	*Cynodon dactylon*
bindweed, field	*Convolvulus arvensis*
birdsfoot trefoil	*Lotus corniculatus*
blackberry, Armenian	*Rubus armeniacus* (=*R. discolor*)
blackberry, Himalaya	*Rubus armeniacus* (=*R. discolor*)
bladderflower	*Araujia sericifera*
bluegrass, Kentucky	*Poa pratensis*
blue gum, Tasmanian	*Eucalyptus globulus*
bouncingbet	*Saponaria officinalis*
brassbuttons	*Cotula coronopifolia*
brome, downy	*Bromus tectorum*
brome, red	*Bromus madritensis* ssp. *rubens* (=*B. rubens*)
brome, ripgut	*Bromus diandrus*
brome, soft	*Bromus hordeaceus*
broom, bridal	*Retama monosperma*
broom, French	*Genista monspessulana*
broom, Portuguese	*Cytisus striatus*
broom, Scotch	*Cytisus scoparius*
broom, Spanish	*Spartium junceum*
broom, striated	*Cytisus striatus*
buckwheat, California	*Eriogonum fasciculatum*
burclover, California	*Medicago polymorpha*
burnweed, Australian	*Erechtites glomerata, E. minima*
buttercup, Bermuda	*Oxalis pes-caprae*
buttercup, creeping	*Ranunculus repens*
butterflybush	*Buddleja davidii*
cabbage	*Brassica oleracea*
cabbage tree, New Zealand	*Cordyline australis*
calla lily	*Zantesdeschia aethiopica*
camelthorn	*Alhagi maurorum* (=*A. pseudalhagi*)
canarygrass, reed	*Phalaris arundinacea*
Cape-ivy	*Delairea odorata* (=*Senecio mikanioides*)
capeweed, fertile	*Arctotheca calendula* (fertile)
capeweed, sterile	*Arctotheca calendula* (sterile)
carrot, wild	*Daucus carota*
castorbean	*Ricinus communis*
catalpa, southern	*Catalpa bignonioides*
catsear, rough	*Hypochaeris radicata*
catsear, smooth	*Hypochaeris glabra*
chamomile, mayweed	*Anthemis cotula*
charlock	*Sinapis arvensis*
cheatgrass	*Bromus tectorum*
cherry plum	*Prunus cerasifera*
Chinese tallowtree	*Sapium sebiferum*
clover, California bur	*Medicago polymorpha*
clover, rose	*Trifolium hirtum*
cordgrass, Atlantic	*Spartina alterniflora*
cordgrass, common	*Spartina anglica*
cordgrass, dense-flowered	*Spartina densiflora*
cordgrass, saltmeadow	*Spartina patens*
cordgrass, smooth	*Spartina alterniflora* hybrids
cotoneaster, orange	*Cotoneaster franchetii*
cotoneaster, Parney's	*Cotoneaster lacteus*
cotoneaster, silverleaf	*Cotoneaster pannosus*
creeper, Australian bluebell	*Sollya heterophylla*
creeper, bearded	*Crupina vulgaris*
creeper, bridal	*Asparagus asparagoides*
cress, hoary	*Cardaria draba*
croftonweed	*Ageratina adenophora*
crupina, common	*Crupina vulgaris*
cypress, Monterey	*Cupressus macrocarpa*
daisy, African	*Dimorphotheca sinuata*
daisy, corn	*Chrysanthemum segetum*
daisy, crown	*Chrysanthemum coronarium*
daisy, English	*Bellis perennis*
daisy, Mexican	*Erigeron karvinskianus*
daisy, oxeye	*Leucanthemum vulgare*
daisybush, shrubby	*Osteospermum fruticosum*
dandelion, common	*Taraxacum officinale*
dandelion, hairy	*Hypochaeris radicata*
devil's thorn	*Emex spinosa*
dock, curly	*Rumex crispus*
dogtailgrass, hedgehog	*Cynosurus echinatus*
dracaena, giant	*Cordyline australis*
dyer's woad	*Isatis tinctoria*
egeria, Brazilian	*Egeria densa*

APPENDIX 4: Species by Common Name (continued)

elm, Chinese	*Ulmus parvifolia*
elm, Siberian	*Ulmus pumila*
emex, spiny	*Emex spinosa*
eupatorium	*Ageratina adenophora*
false-brome, perennial	*Brachypodium sylvaticum*
fennel	*Foeniculum vulgare*
fennel, dog	*Anthemis cotula*
fescue, rattail	*Vulpia myuros*
fescue, squirreltail	*Vulpia bromoides*
fescue, tall	*Festuca arundinacea*
fig, edible	*Ficus carica*
filaree, broadleaf	*Erodium botrys*
filaree, redstem	*Erodium cicutarium*
filaree, shortfruited	*Erodium brachycarpum*
filaree, whitestem	*Erodium moschatum*
firethorn	*Pyracantha* spp.
fireweed, Australian	*Erechtites glomerata, E. minima*
fivehook bassia	*Bassia hyssopifolia*
flixweed	*Descurainia sophia*
forget-me-not, common	*Myosotis latifolia*
fountaingrass, crimson	*Pennisetum setaceum*
foxglove	*Digitalis purpurea*
foxtail restharrow	*Ononis alopecuroides*
fumitory	*Fumaria officinalis*
garlic, false	*Nothoscordum gracile*
gazania	*Gazania linearis*
geranium, cutleaf	*Geranium dissectum*
geranium, dovefoot	*Geranium molle*
geranium, New Zealand	*Geranium retrorsum*
geranium, Robert	*Geranium robertianum*
German-ivy	*Delairea odorata*
glandweed, yellow	*Parentucellia viscosa*
glasswort	*Salsola soda*
goatgrass, barb	*Aegilops triuncialis*
gorse	*Ulex europaeus*
grass, rabbitfoot	*Polypogon monspeliensis*
gumweed, curlycup	*Grindelia squarrosa*
hairgrass, European	*Aira praecox*
hairgrass, silver	*Aira caryophyllea*
halogeton	*Halogeton glomeratus*
hardinggrass	*Phalaris aquatica*
hawksbeard, smooth	*Crepis capillaris*
hawthorn, English	*Crataegus monogyna*
heath, Spanish	*Erica lusitanica*
hedgeparsley	*Torilis arvensis*
herb-robert	*Geranium robertianum*
holly, English	*Ilex aquifolium*
horehound, white	*Marrubium vulgare*
Hottentot-fig	*Carpobrotus edulis*
houndstongue	*Cynoglossum officinale*
hydrilla	*Hydrilla verticillata*
hypericum, Canary Island	*Hypericum canariense*
iceplant	*Carpobrotus chilensis*
iceplant	*Carpobrotus edulis*
iceplant, crystalline	*Mesembryanthemum crystallinum*
iceplant, heartleaf	*Aptenia cordifolia*
iceplant, narrowleaf	*Conicosia pugioniformis*
iceplant, slenderleaf	*Mesembryanthemum nodiflorum*
iris, yellowflag	*Iris pseudacorus*
ivy, Algerian	*Hedera canariensis*
ivy, English	*Hedera helix*
jessamine, willow	*Cestrum parqui*
jointvetch, rough	*Aeschynomene rudis*
jubatagrass	*Cortaderia jubata*
kangaroothorn	*Acacia paradoxa*
kikuyugrass	*Pennisetum clandestinum*
klamathweed	*Hypericum perforatum*
knapweed, diffuse	*Centaurea diffusa*
knapweed, meadow	*Centaurea debeauxii* (=*C.* x *pratensis*)
knapweed, Russian	*Acroptilon repens*
knapweed, spotted	*Centaurea maculosa* (=*C. biebersteinii*)
knapweed, squarrose	*Centaurea virgata* ssp. *squarrosa* (=*C. squarrosa*)
knotweed, Japanese	*Polygonum cuspidatum* (=*Fallopia japonica*)
knotweed, Sakhalin	*Polygonum sachalinense*
kochia	*Kochia scoparia*
leek, three-cornered	*Allium triquetrum*
lettuce, prickly	*Lactuca serriola*
licoriceplant	*Helichrysum petiolare*
locust, black	*Robinia pseudoacacia*
locust, honey	*Gleditsia triacanthos*
London rocket	*Sisymbrium irio*
loosestrife, hyssop	*Lythrum hyssopifolium*
loosestrife, purple	*Lythrum salicaria*
lupine, yellow bush	*Lupinus arboreus*
mannagrass, waxy	*Glyceria declinata*
mayten	*Maytenus boaria*
Mediterraneangrass	*Schismus arabicus, S. barbatus*
Mediterranean sage	*Salvia aethiopis*
medusahead	*Taeniatherum caput- medusae*
mesembryanthemum, coppery	*Malephora crocea*
milkthistle, blessed	*Silybum marianum*
mirrorplant, creeping	*Coprosma repens*

APPENDIX 4: Species by Common Name (continued)

montbretia	*Crocosmia x crocosmiiflora*
mullein, common	*Verbascum thapsus*
mullein, woolly	*Verbascum thapsus*
mustard, birdsrape	*Brassica rapa*
mustard, black	*Brassica nigra*
mustard, blue	*Chorispora tenella*
mustard, field	*Brassica rapa*
mustard, Saharan	*Brassica tournefortii*
mustard, shortpod	*Hirschfeldia incana*
mustard, summer	*Hirschfeldia incana*
mustard, tansy	*Descurainia sophia*
mustard, wild	*Sinapis arvensis*
myoporum	*Myoporum laetum*
nasturtium, garden	*Tropaeolum majus*
nightshade, silverleaf	*Solanum elaeagnifolium*
oat, slender wild	*Avena barbata*
oat, wild	*Avena fatua*
oleander	*Nerium oleander*
olive, Russian-	*Elaeagnus angustifolia*
olive	*Olea europaea*
onionweed	*Asphodelus fistulosus*
orchardgrass	*Dactylis glomerata*
oxalis, buttercup	*Oxalis pes-caprae*
oxalis, yellow	*Oxalis pes-caprae*
oxtongue, bristly	*Picris echioides*
palm, Canary Island date	*Phoenix canariensis*
palm, date	*Phoenix dactylifera*
palm, Mexican fan	*Washingtonia robusta*
palm, Washington	*Washingtonia robusta*
paloverde, Mexican	*Parkinsonia aculeata*
pampasgrass	*Cortaderia selloana*
parentucellia, sticky	*Parentucellia viscosa*
parrotfeather	*Myriophyllum aquaticum*
passionflower, blue	*Passiflora caerulea*
pea, perennial sweet	*Lathyrus latifolius*
pea, Tangier	*Lathyrus tingitanus*
pennyroyal	*Mentha pulegium*
peppertree, Brazilian	*Schinus terebinthifolius*
peppertree, Peruvian	*Schinus molle*
pepperweed, perennial	*Lepidium latifolium*
periwinkle, big	*Vinca major*
pine, Monterey	*Pinus radiata* cultivars
pistache, Chinese	*Pistachia chinensis*
plantain, buckhorn	*Plantago lanceolata*
plantain, cutleaf	*Plantago coronopus*
plantain, English	*Plantago lanceolata*
plum, wild	*Prunus cerasifera*
poison-hemlock	*Conium maculatum*
pokeweed	*Phytolacca americana*
polypogon, rabbitfoot	*Polypogon monspeliensis* and subspp.
pondweed, curlyleaf	*Potamogeton crispus*
pride-of-Madeira	*Echium candicans*
privet, glossy	*Ligustrum lucidum*
pyracantha	*Pyracantha* spp.
quackinggrass, big	*Briza maxima*
Queen Anne's lace	*Daucus carota*
radish	*Raphanus sativus*
ragwort, tansy	*Senecio jacobaea*
rattlesnakegrass	*Briza maxima*
red gum	*Eucalyptus camaldulensis*
redhot poker	*Kniphofia uvaria*
reed, common	*Phragmites australis*
reed, giant	*Arundo donax*
rockrose, gum	*Cistus ladanifer*
rose, baby sun	*Aptenia cordifolia*
Russian-thistle	*Salsola tragus*
ryegrass, Italian	*Lolium multiflorum*
salsify, yellow	*Tragopogon dubius*
saltbush, Australian	*Atriplex semibaccata*
saltcedar	*Tamarix ramosissima*
salvinia, giant	*Salvinia molesta*
sea-fig	*Carpobrotus chilensis*
sea-lavender	*Limonium ramoissimum* ssp. *provincale*
sea-rocket, European	*Cakile maritima*
sesbania, red	*Sesbania punicea*
skeletonweed, rush	*Chondrilla juncea*
smilograss	*Piptatherum miliaceum*
sorrel, red	*Rumex acetosella*
sorrel, sheep	*Rumex acetosella*
sowthistle, spiny	*Sonchus asper*
speargrass, twisted-awned	*Stipa capensis*
spiny emex	*Emex spinosa*
spurge, caper	*Euphorbia lathyris*
spurge, carnation	*Euphorbia terracina*
spurge, leafy	*Euphorbia esula*
spurge, oblong	*Euphorbia oblongata*
St. Johnswort, common	*Hypericum perforatum*
starthistle, Malta	*Centaurea melitensis*
starthistle, purple	*Centaurea calcitrapa*
starthistle, yellow	*Centaurea solstitialis*
steppegrass, Mediterranean	*Stipa capensis*
stinkwort	*Dittrichia graveolens*
sweetclover, Indian	*Melilotus indicus*
sweetclover, yellow	*Melilotus officinalis*
sweetpea, perennial	*Lathyrus latifolius*
tallowtree, Chinese	*Sapium sebiferum*

APPENDIX 4: Species by Common Name (continued)

tamarisk	*Tamarix ramosissima*
tamarisk, athel	*Tamarix aphylla*
tamarisk, smallflower	*Tamarix parviflora*
tansy, common	*Tanacetum vulgare*
tea tree, Australian	*Leptospermum laevigatum*
teasel, fuller's	*Dipsacus sativus*
teasel, wild	*Dipsacus fullonum*
thistle, artichoke	*Cynara cardunculus*
thistle, bull	*Cirsium vulgare*
thistle, Canada	*Cirsium arvense*
thistle, Italian	*Carduus pycnocephalus*
thistle, musk	*Carduus nutans*
thistle, plumeless	*Carduus acanthoides*
thistle, Scotch	*Onopordum acanthium*
thistle, slenderflower	*Carduus tenuiflorus*
thistle, woolly distaff	*Carthamus lanatus*
toadflax, Dalmatian	*Linaria genistifolia* ssp. *dalmatica* (=*L. dalmatica*)
tobacco, tree	*Nicotiana glauca*
tocalote	*Centaurea melitensis*
tree-of-heaven	*Ailanthus altissima*
veldtgrass, erect	*Ehrharta erecta*
veldtgrass, long-flowered	*Ehrharta longiflora*
veldtgrass, purple	*Ehrharta calycina*
velvetgrass, common	*Holcus lanatus*
vernalgrass, sweet	*Anthoxanthum odoratum*
vervain, seashore	*Verbena litoralis*
vervain, tall	*Verbena bonariensis*
vetch, hairy	*Vicia villosa*
Victorian box	*Pittosporum undulatum*
wakame	*Undaria pinnatifida*
water hyacinth	*Eichhornia crassipes*
waterlily, fragrant	*Nymphaea odorata*
watermilfoil, Eurasian	*Myriophyllum spicatum*
water-primrose, creeping	*Ludwigia peploides* ssp. *montevidensis*
water-primrose, Uruguay	*Ludwigia hexapetala* (=*L. uruguayensis*)
watsonia	*Watsonia borbonica*
watsonia, bulbil	*Watsonia meriana*
whitetop, hairy	*Cardaria pubescens*
whitetop, lens-podded	*Cardaria chalepensis* (=*C. draba* ssp. *chalepensis*)
whitetop, tall	*Lepidium latifolium*
wisteria, scarlet	*Sesbania punicea*
woodsorrel, creeping	*Oxalis corniculata*
zoysiagrass	*Zoysia* spp.

The Nation Park Service's Exotic Plant Management Team removes satellite infestations of Centaurea solstitialis *(yellow starthistle) to prevent the plant's spread. (Photo by Bobbi Simpson, Point Reyes National Seashore)*

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Circular clones of Spartina alterniflora *x* foliosa *(smooth cordgrass hybrid) spread in San Francisco Bay. (Photo by Stephen Joseph, Invasive Spartina Project)*

California State-listed Noxious Weeds

243 records returned

Noxious weeds that are synonyms are indented beneath the current PLANTS accepted name.

California Department of Food and Agriculture. 2003. Pest Ratings of Noxious Weed Species and Noxious Weed Seed. California Department of Food and Agriculture.

California Department of Food and Agriculture. 2003. Plant Quarantine Manual, California Plant Quarantine Policy - Weeds. California Department of Food and Agriculture.

Food and Agriculture Code. 2003. Camelthorn, Section 7301-7305. State of California.

Food and Agriculture Code. 2003. Hydrilla, Section 6048-6049. State of California.

Symbol	Scientific Name	Noxious Common Name	State Weed Status†	U.S. Nativity*
ACBR5	*Achnatherum brachychaetum* (Godr.) Barkworth	punagrass	AW	I
ACNO7	*Acaena novae-zelandiae* Kirk			I
ACNO4	*Acaena novae-zelandica* Kirk [orthographic error]	biddy biddy	AW	
ACPA14	*Acaena pallida* (Kirk) Allen	pale biddy-biddy	AW	I
ALPH	*Alternanthera philoxeroides* (Mart.) Griseb.	alligatorweed	AW	I
ARCA45	*Arctotheca calendula* (L.) Levyns	capeweed	AW	I
CAAC	*Carduus acanthoides* L.	plumeless thistle	AW	I
CALE52	*Carthamus leucocaulos* Sm.	whitestem distaff thistle	AW	I
CANU4	*Carduus nutans* L.	musk thistle	AW	I
CEDI3	*Centaurea diffusa* Lam.	diffuse knapweed	AW	I
CEIB	*Centaurea iberica* Trev. ex Spreng.	Iberian starthistle	AW	I
CESTM	*Centaurea stoebe* L. ssp. *micranthos* (Gugler) Hayek			I
CEMA4	*Centaurea maculosa* auct. non Lam. [misapplied]	knapweed	AW	
CEVIS2	*Centaurea virgata* Lam. ssp. *squarrosa* (Willd.) Gugler			I
CESQ	*Centaurea squarrosa* Willd.	squarrose knapweed	AW	
CHJU	*Chondrilla juncea* L.	skeletonweed	AW	I
CIOC2	*Cirsium ochrocentrum* Gray	yellowspine thistle	AW	N
CIUN	*Cirsium undulatum* (Nutt.) Spreng.	wavyleaf thistle	AW	N
CUME	*Cucumis melo* L.			I
CUMED	*Cucumis melo* L. var. *dudaim* (L.) Naud.	dudaim melon	AW	
CURE	*Cuscuta reflexa* Roxb.	giant dodder	AW	I
EUES	*Euphorbia esula* L.	leafy spurge	AW	I
EUSE12	*Euphorbia serrata* L.	serrate spurge	AW	I
HAGL	*Halogeton glomeratus* (Bieb.) C.A. Mey.	halogeton	AW	I
HAHA8	*Halimodendron halodendron* (Pallas) Voss	Russian salt tree	AW	I
HECI	*Helianthus ciliaris* DC.	blueweed	AW	N
HECO10	*Heteropogon contortus* (L.) Beauv. ex Roemer & J.A. Schultes	tanglehead	AW	N

HYMO6	*Hydrocharis morsus-ranae* L.	frogbit	AW	I
LIDAD	*Linaria dalmatica* (L.) P. Mill. ssp. *dalmatica*			I
LIGED	*Linaria genistifolia* (L.) P. Mill. ssp. *dalmatica* (L.) Maire & Petitm.	Dalmatian toadflax	AW	
ONAC	*Onopordum acanthium* L.	Scotch thistle	AW	I
ONIL	*Onopordum illyricum* L.	Illyrian thistle	AW	I
ONTA	*Onopordum tauricum* Willd.	Taurian thistle	AW	I
ORCO4	*Orobanche cooperi* (Gray) Heller	Cooper's broomrape	AW	N
ORRA	*Orobanche ramosa* L.	branched broomrape	AW	I
PEHA	*Peganum harmala* L.	harmel	AW	I
PHLO4	*Physalis longifolia* Nutt.	long-leaf groundcherry	AW	N
SASU11	*Salvia ×superba* Stapf [×*sylvestris* × *villicaulis*]			I
SAVI16	*Salvia virgata* auct. non Jacq. [misapplied]	southern meadow sage	AW	
SCHI	*Scolymus hispanicus* L.	golden thistle	AW	I
SOAR2	*Sonchus arvensis* L.	perennial sowthistle	AW	I
SOCA19	*Solanum cardiophyllum* Lindl.	heartleaf nightshade	AW	I
SODI	*Solanum dimidiatum* Raf.	Torrey's nightshade	AW	N
SPSA3	*Sphaerophysa salsula* (Pallas) DC.	Austrian peaweed	AW	I
STAS2	*Striga asiatica* (L.) Kuntze	witchweed	AW	I
TAMI3	*Tagetes minuta* L.	wild marigold	AW	I
ZYFA	*Zygophyllum fabago* L.	Syrian beancaper	AW	I
HYVE3	*Hydrilla verticillata* (L. f.) Royle	hydrilla	AW, NAW, Q	I
ALMA12	*Alhagi maurorum* Medik.	camelthorn	AW, PN	I
CRVU2	*Crupina vulgaris* Cass.	bearded creeper, common crupina	AW, Q	I
PRST3	*Prosopis strombulifera* (Lam.) Benth.	Argentine screwbean, creeping mesquite	AW, Q	I
SAVE6	*Salsola vermiculata* L.	wormleaf salsola, wormleaf saltwort	AW, Q	I
ACPA8	*Acacia paradoxa* DC.	kangaroothorn	BW	I
ACRE3	*Acroptilon repens* (L.) DC.	Russian knapweed	BW	I
AECY	*Aegilops cylindrica* Host	jointed goatgrass	BW	I
AEGE	*Aegilops geniculata* Roth			I
AEOV2	*Aegilops ovata* L. p.p.	ovate goatgrass	BW	
AERU	*Aeschynomene rudis* Benth.	rough jointvetch	BW	N
AETR	*Aegilops triuncialis* L.	barb goatgrass	BW	I
ALNE3	*Allium neapolitanum* Cirillo			I
NOIN3	*Nothoscordum inodorum* (Ait.) Nichols.	false garlic	BW	
ALPA20	*Allium paniculatum* L.	panicled onion	BW	I
ALVI	*Allium vineale* L.	wild garlic	BW	I
AMTR	*Ambrosia trifida* L.	giant ragweed	BW	N
ARSE8	*Araujia sericifera* Brot.	bladderflower	BW	I
CACH42	*Cardaria chalepensis* (L.) Hand.-Maz.			I
CACH10	*Cardaria chalapensis* (L.) Hand.-Maz. [orthographic variant]	lens podded hoarycress	BW	
CADR	*Cardaria draba* (L.) Desv.	lens podded hoarycress	BW	I
CALA20	*Carthamus lanatus* L.	woolly distaff thistle	BW	I
CALAC3	*Carthamus lanatus* L. ssp. *creticus* (L.) Holmboe			I
CABA5	*Carthamus baeticus* (Boiss. & Reut.) Nyman	smooth distaff thistle	BW	
CAPU6	*Cardaria pubescens* (C.A. Mey.) Jarmolenko	lens podded hoarycress	BW	I
CECA2	*Centaurea calcitrapa* L.	purple starthistle	BW	I
CESU	*Centaurea sulphurea* Willd.	Sicilian starthistle	BW	I

CHTE2	*Chorispora tenella* (Pallas) DC.	purple mustard	BW	I
CIAR4	*Cirsium arvense* (L.) Scop.	Canada thistle	BW	I
COSQ	*Coronopus squamatus* (Forssk.) Aschers.	swinecress	BW	I
CUMY	*Cucumis myriocarpus* E. Mey. ex Naud.	paddy melon	BW	I
CYCA	*Cynara cardunculus* L.	artichoke thistle	BW	I
CYES	*Cyperus esculentus* L.	yellow nutsedge	BW	NI
CYRO	*Cyperus rotundus* L.	purple nutsedge	BW	I
ELRE4	*Elymus repens* (L.) Gould			I
ELRE3	*Elytrigia repens* (L.) Desv. ex Nevski	quackgrass	BW	
EUOB4	*Euphorbia oblongata* Griseb.	oblong spurge	BW	I
GACO5	*Gaura coccinea* Nutt. ex Pursh	scarlet gaura	BW	N
GADR	*Gaura drummondii* (Spach) Torr. & Gray	Drummond's gaura	BW	N
GASI	*Gaura sinuata* Nutt. ex Ser.	wavy-leaved gaura	BW	N
GYPA	*Gypsophila paniculata* L.	baby's breath	BW	I
IMBR2	*Imperata brevifolia* Vasey	satintail	BW	N
ISTI	*Isatis tinctoria* L.	dyer's woad	BW	I
LELA2	*Lepidium latifolium* L.	perennial peppercress	BW	I
LYSA2	*Lythrum salicaria* L.	purple loosestrife	BW	I
MUSC	*Muhlenbergia schreberi* J.F. Gmel.	nimblewill	BW	N
NYME	*Nymphaea mexicana* Zucc.	banana waterlily	BW	N
PAAN4	*Panicum antidotale* Retz.	blue panicgrass	BW	I
PHVI17	*Physalis viscosa* L.	grape groundcherry	BW	N
PIST2	*Pistia stratiotes* L.	water lettuce	BW	N
POCU6	*Polygonum cuspidatum* Sieb. & Zucc.	Japanese knotweed	BW	I
POPO5	*Polygonum polystachyum* Wallich ex Meisn.	Himalayan knotweed	BW	I
POSA4	*Polygonum sachalinense* F. Schmidt ex Maxim.	giant knotweed	BW	I
ROAU	*Rorippa austriaca* (Crantz) Bess.	Austrian field cress	BW	I
SAAE	*Salvia aethiopis* L.	Mediterranean sage	BW	I
SEFA	*Setaria faberi* Herrm.	giant foxtail	BW	I
SEJA	*Senecio jacobaea* L.	tansy ragwort	BW	I
SESQ	*Senecio squalidus* L.	Oxford ragwort	BW	I
SOCA3	*Solanum carolinense* L.	Carolina horsenettle	BW	N
SOEL	*Solanum elaeagnifolium* Cav.	white horsenettle	BW	N
SOLA	*Solanum lanceolatum* Cav.	lanceleaf nightshade	BW	I
SOMA	*Solanum marginatum* L. f.	white-margined nightshade	BW	I
SYAS	*Symphytum asperum* Lepechin	rough comfrey	BW	I
ULEU	*Ulex europaeus* L.	gorse	BW	I
VIAL2	*Viscum album* L.	European mistletoe	BW	I
ORRU	*Oryza rufipogon* Griffiths	perennial wild red rice, red rice	BW, Q	I
CAPY2	*Carduus pycnocephalus* L.	Italian thistle	CW	I
CATE2	*Carduus tenuiflorus* W. Curtis	slenderflowered thistle	CW	I
CEEC	*Cenchrus echinatus* L.	southern sandbur	CW	N
CELO3	*Cenchrus longispinus* (Hack.) Fern.	mat sandbur	CW	N
CESO3	*Centaurea solstitialis* L.	yellow starthistle	CW	I
CESP4	*Cenchrus spinifex* Cav.			N
CEIN4	*Cenchrus incertus* M.A. Curtis	coast sandbur	CW	
COAR4	*Convolvulus arvensis* L.	field bindweed	CW	I
CYNOD	*Cynodon* L.C. Rich.	bermudagrass	CW	
CYSC4	*Cytisus scoparius* (L.) Link	Scotch broom	CW	I
EICR	*Eichhornia crassipes* (Mart.) Solms	waterhyacinth	CW	I

GEMO2	*Genista monspessulana* (L.) L. Johnson	French broom	CW	I
HYNI	*Hyoscyamus niger* L.	black henbane	CW	I
HYPE	*Hypericum perforatum* L.	klamathweed	CW	I
IRDO	*Iris douglasiana* Herbert	Douglas iris	CW	N
IRMI	*Iris missouriensis* Nutt.	western blue flag	CW	N
IVAX	*Iva axillaris* Pursh	povertyweed	CW	N
MALE3	*Malvella leprosa* (Ortega) Krapov.	alkali mallow	CW	N
POAME	*Polygonum amphibium* L. var. *emersum* Michx.	kelp	CW	N
SAPA8	*Salsola paulsenii* Litv.	barbwire Russianthistle	CW	I
SATR12	*Salsola tragus* L.	common Russianthistle	CW	I
SOHA	*Sorghum halepense* (L.) Pers.	johnsongrass	CW	I
TACA8	*Taeniatherum caput-medusae* (L.) Nevski	medusahead	CW	I
TRTE	*Tribulus terrestris* L.	puncturevine	CW	I
CUSCU	*Cuscuta* L.[1]	dodder	CW, Q	
PECL2	*Pennisetum clandestinum* Hochst. ex Chiov.	kikuyugrass	CW, Q	I
AEGIN	*Aeginetia* L.		Q	
AGAD2	*Ageratina adenophora* (Spreng.) King & H.E. Robins.	crofton weed	Q	I
ALECT2	*Alectra* Thunb.		Q	
ALSE4	*Alternanthera sessilis* (L.) R. Br. ex DC.	sessile joyweed	Q	I
ASFI2	*Asphodelus fistulosus* L.	onionweed	Q	I
AVST	*Avena sterilis* L.	animated oat	Q	I
AZPI	*Azolla pinnata* R. Br.	mosquito fern	Q	I
CAOX6	*Carthamus oxyacanthus* Bieb.			I
CAOX2	*Carthamus oxyacantha* Bieb. [orthographic variant]	wild safflower	Q	
CHAC	*Chrysopogon aciculatus* (Retz.) Trin.	pilipiliula	Q	I
COBE2	*Commelina benghalensis* L.	Benghal dayflower	Q	I
DIAB	*Digitaria abyssinica* (Hochst. ex A. Rich.) Stapf			I
DISC5	*Digitaria scalarum* (Schweinf.) Chiov.	African couch grass	Q	
DIVE2	*Digitaria velutina* (Forssk.) Beauv.	velvet fingergrass	Q	I
DRAR7	*Drymaria arenarioides* Humb. & Bonpl. ex J.A. Schultes [excluded]	alfombrilla	Q	XU
EIAZ2	*Eichhornia azurea* (Sw.) Kunth	anchored waterhyacinth	Q	I
EMAU	*Emex australis* Steinh.	three-cornered jack	Q	I
EMSP	*Emex spinosa* (L.) Campd.	devil's thorn	Q	I
GAOF	*Galega officinalis* L.	goatsrue	Q	I
HEMA17	*Heracleum mantegazzianum* Sommier & Levier	giant hogweed	Q	I
HOMER	*Homeria* Vent.	Cape tulip	Q	
HYPO3	*Hygrophila polysperma* (Roxb.) T. Anders.	Miramar weed	Q	I
IMBR	*Imperata brasiliensis* Trin.	Brazilian satintail	Q	I
IMCY	*Imperata cylindrica* (L.) Beauv.	cogongrass	Q	I
IPAQ	*Ipomoea aquatica* Forssk.	Chinese waterspinach	Q	I
ISRU	*Ischaemum rugosum* Salisb.	murain-grass	Q	I
LAMA15	*Lagarosiphon major* (Ridley) Moss	oxygen weed	Q	XU
LECH2	*Leptochloa chinensis* (L.) Nees [excluded]	Asian sprangletop	Q	XU
LISE3	*Limnophila sessiliflora* (Vahl) Blume	ambulia	Q	I
LYFE4	*Lycium ferocissimum* Miers			I
LYFE3	*Lycium ferrocissimum* Miers [orthographic variant]	African boxthorn	Q	
MEMA	*Melastoma malabathricum* L.		Q	I
MEQU	*Melaleuca quinquenervia* (Cav.) Blake	melaleuca	Q	I

MICO16	*Mikania cordata* (Burm. f.) B.L. Robins. [excluded]	mile-a-minute	Q	XU
MIDI8	*Mimosa diplotricha* C. Wright			I
MIIN80	*Mimosa invisa* Mart., non Mart. ex Colla	giant sensitive plant	Q	
MIMI5	*Mikania micrantha* Kunth	mile-a-minute	Q	N
MIPE2	*Mimosa pellita* Kunth ex Willd.			N
MIPI	*Mimosa pigra* auct. non L. [misapplied]	catclaw mimosa	Q	
MOHA2	*Monochoria hastata* (L.) Solms [excluded]	monochoria	Q	XU
MOVA	*Monochoria vaginalis* (Burm. f.) K. Presl ex Kunth	pickerel weed	Q	I
NATR3	*Nassella trichotoma* (Nees) Hack.	serrated tussock	Q	I
OPAU10	*Opuntia aurantiaca* Lindl.	jointed prickly pear	Q	XU
ORLO3	*Oryza longistaminata* A. Chev. & Roehr.	red rice	Q	XU
OROBA	*Orobanche* L.[1]	broomrape	Q	
ORPU13	*Oryza punctata* Kotzchy ex Steud.	red rice	Q	XU
OTAL	*Ottelia alismoides* (L.) Pers.	duck-lettuce	Q	I
PASC6	*Paspalum scrobiculatum* L.	Kodo-millet	Q	I
PEMA80	*Pennisetum macrourum* Trin.	African feathergrass	Q	I
PEPE24	*Pennisetum pedicellatum* Trin.	kyasuma-grass	Q	I
PEPO14	*Pennisetum polystachion* (L.) J.A. Schultes			I
PEPO4	*Pennisetum polystachyon* (L.) J.A. Schultes [orthographic variant]	missiongrass	Q	
PRAL11	*Prosopis alpataco* Phil.	mesquite	Q	XU
PRAR6	*Prosopis argentina* Burkart	mesquite	Q	XU
PRBU2	*Prosopis burkartii* Muñoz	mesquite	Q	XU
PRCA10	*Prosopis calingastana* Burkart	mesquite	Q	XU
PRCA11	*Prosopis campestris* Griseb.	mesquite	Q	XU
PRCA12	*Prosopis castellanosii* Burkart	mesquite	Q	XU
PRCA9	*Prosopis caldenia* Burkart	mesquite	Q	XU
PRDE4	*Prosopis denudans* Benth.	mesquite	Q	XU
PREL5	*Prosopis elata* (Burkart) Burkart	mesquite	Q	XU
PRFA2	*Prosopis farcta* (Banks & Soland.) J.F. Macbr.	Syrian mesquite	Q	I
PRFE2	*Prosopis ferox* Griseb.	mesquite	Q	XU
PRFI4	*Prosopis fiebrigii* Harms	mesquite	Q	XU
PRHA4	*Prosopis hassleri* Harms ex Hassler	mesquite	Q	XU
PRHU3	*Prosopis humilis* Gill. ex Hook.	mesquite	Q	XU
PRKU2	*Prosopis kuntzei* Harms ex Hassler	mesquite	Q	XU
PRPA10	*Prosopis palmeri* S. Wats.	mesquite	Q	XU
PRPA4	*Prosopis pallida* (Humb. & Bonpl. ex Willd.) Kunth	kiawe	Q	I
PRRE2	*Prosopis reptans* Benth.	tornillo	Q	N
PRRO4	*Prosopis rojasiana* Burkart	mesquite	Q	XU
PRRU4	*Prosopis ruizlealii* Burkart	mesquite	Q	XU
PRRU5	*Prosopis ruscifolia* Griseb.	mesquite	Q	XU
PRSE5	*Prosopis sericantha* Gill. ex Hook.	mesquite	Q	XU
PRTO3	*Prosopis torquata* DC.	mesquite	Q	XU
PRVE	*Prosopis velutina* Woot.			N
PRAR4	*Prosopis articulata* S. Wats.	velvet mesquite	Q	
ROCO6	*Rottboellia cochinchinensis* (Lour.) W.D. Clayton	itchgrass	Q	I
RUFR80	*Rubus fruticosus* L. [excluded]	wild blackberry complex	Q	XU
RUMO4	*Rubus moluccanus* L. [excluded]	wild blackberry	Q	XU
SABI9	*Salvinia biloba* Raddi	giant salvinia	Q	XU
SAHE7	*Salvinia herzogii* de la Sota	giant salvinia	Q	XU
SAMO5	*Salvinia molesta* Mitchell	giant salvinia	Q	I

SASA7	*Sagittaria sagittifolia* L. [excluded]	arrowhead	Q	XU
SASP	*Saccharum spontaneum* L.	wild sugarcane	Q	I
SEPUP3	*Setaria pumila* (Poir.) Roemer & J.A. Schultes ssp. *pallidefusca* (Schumacher) B.K. Simon			I
SEPA82	*Setaria pallidifusca* (Schumacher) Stapf & C.E. Hubbard [orthographic variant]	cattail grass	Q	
SOTA3	*Solanum tampicense* Dunal	wetland nightshade	Q	I
SOTO4	*Solanum torvum* Sw.	turkeyberry	Q	I
SOVI2	*Solanum viarum* Dunal	tropical soda apple	Q	I
SPAL3	*Spermacoce alata* Aubl. [excluded]	borreria	Q	XU
SPER	*Sparganium erectum* L.	exotic bur-reed	Q	N
STRIG	*Striga* Lour.	witchweed	Q	
TRPR5	*Tridax procumbens* L.	coat buttons	Q	I
URPA	*Urochloa panicoides* Beauv.	liverseed grass	Q	I
SAAU	*Salvinia auriculata* Aubl.	giant salvinia, salvinia	Q, QW	I
CACA	*Cabomba caroliniana* Gray	Carolina fanwort	QW	N
CIJA2	*Cirsium japonicum* Fisch. ex DC.	Japanese thistle	QW	XU
EUTE10	*Euphorbia terracina* L.	Geraldton carnation spurge	QW	I
LIIN5	*Limnophila indica* (L.) Druce	ambulia	QW	I
LISP2	*Limnobium spongia* (Bosc) L.C. Rich. ex Steud.	spongeplant	QW	N
ONAL5	*Ononis alopecuroides* L.	foxtail restharrow	QW	I
ROSY	*Rorippa sylvestris* (L.) Bess.	creeping yellow field cress	QW	I
SACO8	*Salsola collina* Pallas	spineless Russianthistle	QW	I

†Code	Weed Status
AW	A list (noxious weeds)
BW	B list (noxious weeds)
CW	C list (noxious weeds)
NAW	Noxious aquatic weed
PN	Public nuisance
Q	Quarantine
QW	Q list (temporary "A" list noxious weed, pending final determination)

*Code	U.S. Nativity
I	Introduced
N	Native
NI	Native and Introduced
XU	Cultivated, or not in the U.S.

[1] other than native or widely distributed species

Additional information about noxious plants in this state can be found at:

- CA-CalPhotos (CalFlora images)
- CA-California Invasive Plant Council
- CA-Calweeds Database
- CA-Encycloweedia (CDFA)
- CA-Practical Guidebook for Invasive Aquatic Identication & Control
- CA-UC Davis Weed Research and Information Center
- CA-UC IPM Online Weed Photo Gallery
- CalWeed Database: California Noxious Weed Control Projects Inventory: County Lists
- California Department of Food and Agriculture
- California Exotic Pest Plant Council
- California Weed Management Areas
- California Weed Science Society
- Exotic Pest Links
- TNC: Wildland Invasive Species Program
- UC Davis Integrated Pest Management