

Appendix 3. Federally listed Threatened and Endangered species in the family Asteraceae that occur in the continental United States.¹

Scientific Name	Common Name	Current Range	Listing Status ²	Regions of Occurrence ³	Species tested
SUBFAMILY CICHORIOIDEAE					
Tribe Cardueae					
<i>Cirsium fontinale</i> var. <i>fontinale</i>	fountain thistle	CA	E	8	<i>Cirsium fontinale</i> var. <i>fontinale</i>
<i>Cirsium fontinale</i> var. <i>obispoense</i>	Chorro Creek bog thistle	CA	E	8	
<i>Cirsium hydrophilum</i> var. <i>hydrophilum</i>	Suisun thistle	CA	E	8	<i>Cirsium hydrophilum</i> var. <i>vaseyi</i>
<i>Cirsium loncholepis</i>	La Graciosa thistle	CA	E	8	<i>Cirsium loncholepis</i>
<i>Cirsium pitcheri</i>	Pitcher's thistle	IL, IN, MI, WI, Canada (Ont.)	T	3	<i>Cirsium brevistylum</i> , <i>C. ciliolatum</i> , <i>C. cymosum</i> , <i>C. occidentale</i> var. <i>venustum</i>
<i>Cirsium vinaceum</i>	Sacramento Mountains thistle	NM	T	2	<i>Cirsium vinaceum</i>
Tribe Lactuceae					
<i>Malacothrix indecora</i>	Santa Cruz Island malacothrix	CA	E	8	<i>Agoseris grandiflora</i>
<i>Malacothrix squalida</i>	island malacothrix	CA	E	8	
<i>Stephanomeria malheurensis</i>	Malheur wire-lettuce	OR	E	1	<i>Stephanomeria cichoriacea</i>
<i>Taraxacum californicum</i>	California taraxacum	CA	E	8	<i>Lactuca sativa</i>
Tribe Vernoniaeae					
<i>Vernonia proctorii</i>	(no common name)	PR	E	4	<i>Stokesia laevis</i>

Scientific Name	Common Name	Current Range	Status ²	Region ³	Species tested
SUBFAMILY ASTEROIDEAE					
Tribe Anthemideae					
<i>Artemisia campestris</i> ssp. <i>borealis</i> var. <i>wormskioldii</i>	northern wormwood	OR, WA	C	1	<i>Artemisia californica</i>
Tribe Astereae					
<i>Baccharis vanessae</i>	Encinitas baccharis	CA	T	8	<i>Symphyotrichum (=Aster)</i> <i>chilense</i>
<i>Boltonia decurrens</i>	decurrent false aster	IL, MO	T	3	
<i>Chrysopsis floridana</i>	Florida golden aster	FL	E	4	
<i>Erigeron basalticus</i>	basalt daisy	WA	C	1	
<i>Erigeron decumbens</i> var. <i>decumbens</i>	Willamette daisy	OR	E	1	
<i>Erigeron lemmonii</i>	Lemmon fleabane	AZ	C	2	
<i>Erigeron maguirei</i>	Maguire daisy	UT	T	6	
<i>Erigeron parishii</i>	Parish's daisy	CA	T	8	
<i>Erigeron rhizomatus</i>	Zuni fleabane	AZ, NM	T	2	
<i>Grindelia fraxino-pratensis</i>	Ash Meadows gumplant	CA, NV	T	8	
<i>Hazardia orcuttii</i>	Orcutt's hazardia	CA, Mexico (Baja California)	C	8	
<i>Lessingia germanorum</i>	San Francisco lessingia	CA	E	8	
<i>Pentachaeta bellidiflora</i>	white-rayed pentachaeta	CA	E	8	
<i>Pentachaeta lyonii</i>	Lyon's pentachaeta	CA	E	8	
<i>Pityopsis ruthii</i>	Ruth's golden aster	TN	E	4	
<i>Solidago albopilosa</i>	white-haired goldenrod	KY	T	4	
<i>Solidago houghtonii</i>	Houghton's goldenrod	MI, NY, Canada (Ont.)	T	3, 5	
<i>Solidago plumosa</i>	Yadkin River Goldenrod	NC	C	4	
<i>Solidago shortii</i>	Short's goldenrod	IN, KY	E	3, 4	

Scientific Name	Common Name	Current Range	Status ²	Region ³	Species tested
<i>Solidago spithamaea</i>	Blue Ridge goldenrod	NC, TN	T	4	
<i>Symphotrichum georgianum</i>	Georgia aster	AL, FL, GA, NC, SC	C	4	
<i>Townsendia aprica</i>	Last Chance townsendia	UT	T	6	
Tribe Eupatorieae					
<i>Brickellia mosieri</i>	Florida brickell-bush	FL	C	4	<i>Brickellia californica</i>
<i>Chromolaena frustrata</i>	Cape Sable Thoroughwort	FL	C	4	
<i>Liatris helleri</i>	Heller's blazingstar	NC	T	4	<i>Liatris punctata</i>
<i>Liatris ohlingerae</i>	scrub blazingstar	FL	E	4	
Tribe Helenieae					
<i>Deinandra (=Hemizonia) conjugens</i>	Otay tarplant	CA, Mexico	T	8	<i>Hemizonia minthornii</i>
<i>Eriophyllum latilobum</i>	San Mateo woolly sunflower	CA	E	8	<i>Eriophyllum stoechadifolium</i>
<i>Helenium virginicum</i>	Virginia sneezeweed	MO, VA	T	3, 5	
<i>Hemizonia increscens</i> ssp. <i>villosa</i>	Gaviota tarplant	CA	E	8	
<i>Holocarpha macradenia</i>	Santa Cruz tarplant	CA	T	8	
<i>Hymenoxys herbacea</i>	lakeside daisy	IL, MI, OH, Canada (Ont.)	T	3	
<i>Hymenoxys texana</i>	Texas prairie dawn-flower	TX	E	2	
<i>Lasthenia burkei</i>	Burke's goldfields	CA	E	8	
<i>Lasthenia conjugens</i>	Contra Costa goldfields	CA	E	8	
<i>Layia carnosa</i>	beach layia	CA	E	8	
<i>Monolopia (=Lembertia) congdonii</i>	San Joaquin wooly-threads	CA	E	8	
<i>Marshallia mohrii</i>	Mohr's Barbara button	AL, GA	T	4	
<i>Pseudobahia bahiifolia</i>	Hartweg's golden sunburst	CA	E	8	
<i>Pseudobahia peirsonii</i>	San Joaquin adobe sunburst	CA	T	8	

Scientific Name	Common Name	Current Range	Status ²	Region ³	Species tested
<i>Thymophylla tephroleuca</i>	ashy dogweed	TX	E	2	
Tribe Heliantheae					
<i>Ambrosia cheiranthifolia</i>	south Texas ambrosia	TX	E	2	
<i>Ambrosia pumila</i>	San Diego ambrosia	CA, Mexico	E	8	
<i>Enceliopsis nudicaulis</i> var. <i>corrugata</i>	Ash Meadows sunray	NV	T	8	
<i>Echinacea laevigata</i>	smooth coneflower	GA, NC, SC, VA	E	4, 5	<i>Echinacea purpurea</i>
<i>Echinacea tennesseensis</i>	Tennessee purple coneflower	TN	E	4	
<i>Helianthus eggertii</i>	Eggert's sunflower	T=AL, KY, TN	AD, T	4	<i>Helianthus annuus</i>
<i>Helianthus paradoxus</i>	Pecos (=puzzle, =paradox) sunflower	NM, TX	T	2	
<i>Helianthus schweinitzii</i>	Schweinitz's sunflower	NC, SC	E	4	
<i>Helianthus verticillatus</i>	whorled Sunflower	AL, GA, TN	C	4	
<i>Verbesina dissita</i>	big-leaved crownbeard	CA, Mexico	T	8	
Tribe Senecioneae					
<i>Blennosperma bakeri</i>	Sonoma sunshine	CA	E	8	
<i>Senecio franciscanus</i>	San Francisco Peaks groundsel	AZ	T	2	<i>Senecio bicolor</i> ssp. <i>cineraria</i>
<i>Senecio layneae</i>	Layne's butterweed	CA	T	8	<i>Senecio vulgaris</i>
<i>Yermo xanthocephalus</i>	desert yellowhead	WY	T	6	

¹ Information from USFWS: http://ecos.fws.gov/tess_public, accessed 21 Nov., 2005.

² Federal listings: AD = proposed delisting, C = candidate, E = endangered, T = threatened.

³ Regions: 1 - Pacific, 2 - Southwest, 3 - Great Lakes-Big Rivers, 4 - Southeast, 5 - Northeast, 6 - Mountain-Prairie, 7 - Alaska, 8 - California-Nevada Office.

The California Native Plant Society lists many other rare species with their rating of 1B, meaning that the plants are rare in general (not just California) and are threatened or endangered within their range (Tibor 2001). Plants that have California state protected status (but not federal) include: *Blennosperma nanum* (Hook.) Blake var. *robustum* Howell (state rare), *Cirsium ciliolatum* (Henders.) Howell (state endangered), *Ci. rhotophilum* Blake (state threatened), *Deinandra minthornii* (Jeps.) Baldwin (rare),

D. arida (Keck) Baldwin (rare), *D. mohavensis* (Keck) Baldwin (endangered), *Eriophyllum congdonii* Bdg. (rare), *Helianthus niveus* (Benth.) Bdg. ssp *tephrodes* (Gray) Heiser (endangered), and *Senecio ganderi* Barkl. and Beauchamp (rare).

The test list included most of the T and E species in the same tribe as yellow starthistle (Cardueae), and especially the genus *Cirsium*: *Ci. ciliolatum*, *Ci. fontinale*. var. *fontinale*, *Ci. hydrophilum* var. *vaseyi*, *Ci. loncholepis*, and *Ci. vinaceum*. We tested a different variety of *Ci. hydrophilum* from the threatened one, but the relationship is very close and the endangered variety is rare. All the other T&E species are in a different tribes from YST, and we tested representative species from those tribes from the same genera whenever possible.

