

A P P E N D I X D

REVISED BIOLOGICAL
RESOURCES INFORMATION



**List of Plant observed during botanical surveys of the Mosaic Project Site Development Area
Cull Canyon, Alameda County, California
Conducted on March 16, 2021, and April 18 and May 31, 2022**

Scientific name	Common name	Native
<i>Acer macrophyllum</i>	big leaf maple	yes
<i>Acer negundo</i>	box elder	yes
<i>Aesculus californica</i>	California buckeye	yes
<i>Agrostis exarata</i>	spike bentgrass	yes
<i>Aira caryophylla</i>	silver hairgrass	no
<i>Alnus rhombifolia</i>	white alder	yes
<i>Anthriscus caucalis</i>	bur chervil	no
<i>Arbutus menziesii</i>	madrone	yes
<i>Artemisia douglasiana</i>	California mugwort	yes
<i>Avena barbata</i>	slender wild oats	no
<i>Baccharis glutinosa</i>	saltmarsh baccharis	yes
<i>Baccharis pilularis ssp. consanguinea</i>	coyote brush	yes
<i>Berberis thunbergii</i> (Ornamental)	barberry	no
<i>Brachypodium distachyon</i>	false brome	no
<i>Briza minor</i>	little quacking grass	no
<i>Bromus carinatus</i>	California brome	yes
<i>Bromus diandrus</i>	ripgut brome	no
<i>Bromus hordeaceus</i>	soft chess	no
<i>Bromus madritensis</i>	Madrid brome	no
<i>Bromus sitchensis</i> var. <i>carinatus</i>	rescue grass	no
<i>Cardamine oligosperma</i>	bitter cress	yes
<i>Carduus pycnocephalus</i>	Italian thistle	no
<i>Cedrus deodara</i> (ornamental)	deodar cedar	no
<i>Cerastium glomeratum</i>	mouse ear chickweed	no
<i>Cirsium vulgare</i>	bull thistle	no
<i>Claytonia perfoliata</i> ssp. <i>perfoliata</i>	miner's lettuce	yes
<i>Conium maculatum</i>	poison hemlock	no
<i>Cotoneaster pannosus</i>	silverleaf cotoneaster	no
<i>Cynosurus echinatus</i>	dog's tail	no
<i>Delairea odorata</i>	German ivy	no
<i>Deschampsia elongata</i>	slender hairgrass	yes
<i>Ditrichia graveolens</i>	stinkwort	no
<i>Dryopteris arguta</i>	coastal wood fern	yes
<i>Ehrharta erecta</i>	panic veldtgrass	no
<i>Epilobium brachycarpum</i>	annual fireweed	yes
<i>Epilobium ciliatum</i>	fringed willowherb	yes
<i>Epipactis helleborine</i>	broad-leaved helleborine	no
<i>Equisetum arvense</i>	common horsetail	yes
<i>Erodium cicutarium</i>	red stemmed filaree	no
<i>Erythranthe guttata</i>	seep monkeyflower	yes

<i>Euryops pectinatus</i> (ornamental)	golden euryops	no
<i>Festuca bromoides</i>	brome fescue	no
<i>Festuca perennis</i>	Italian ryegrass	no
<i>Galium aparine</i>	common bedstraw	yes
<i>Galium divaricatum</i>	Lamarck's bedstraw	no
<i>Gastridium phleoides</i>	nit grass	no
<i>Geranium dissectum</i>	cutleaf geranium	no
<i>Geranium purpureum</i>	herb robert	no
<i>Helenium puberulum</i>	sneezeweed	yes
<i>Helminthotheca echioides</i>	bristly ox-tongue	no
<i>Heracleum maximum</i>	cow parsnip	yes
<i>Hirschfeldia incana</i>	short pod mustard	no
<i>Hordeum murinum ssp. leporinum</i>	lepor barley	no
<i>Hypochaeris glabra</i>	smooth cat's ears	no
<i>Hypochaeris radicata</i>	cat's ears	no
<i>Iris pseudacorus</i>	Pale yellow iris	no
<i>Juglans californica</i>	California black walnut	yes
<i>Juglans regia</i>	English walnut	no
<i>Juncus bufonius</i>	toad rush	yes
<i>Juncus patens</i>	common rush	yes
<i>Juncus xiphioides</i>	iris-leaved rush	yes
<i>Kickxia elatine</i>	sharp point fluellin	no
<i>Lactuca saligna</i>	willow leaf lettuce	no
<i>Lactuca serriola</i>	prickly lettuce	no
<i>Lactuca virosa</i>	wild lettuce	no
<i>Lamium purpureum</i>	purple dead nettle	no
<i>Lapsana communis</i>	common nipplewort	no
<i>Lavandula stoechas</i> (Ornamental)	Anouk Spanish lavender	no
<i>Lepidium didymum</i>	swine-cress	no
<i>Lepidium strictum</i>	upright knotweed	yes
<i>Logfia gallica</i>	narrowleaf cottonrose	no
<i>Lonicera hispidula</i>	pink honeysuckle	yes
<i>Lonicera involucrata</i>	twinberry honeysuckle	yes
<i>Lysimachia arvensis</i>	scarlet pimpernel	no
<i>Madia</i> sp.	tarweed	yes
<i>Maianthemum stellatum</i>	false Solomon's seal	yes
<i>Malva nicaeensis</i>	bull mallow	no
<i>Marah fabaceus</i>	man-root	yes
<i>Mentha</i> sp.	mint	yes
<i>Mercurialis annua</i>	annual mercury	no
<i>Myosotis latifolia</i>	forget-me-not	no
<i>Narcissus</i> sp.	daffodil	no
<i>Nasturtium officinale</i>	water cress	yes
<i>Osmorhiza berteroi</i>	sweet cicely	yes
<i>Pentagramma triangularis</i>	goldback fern	yes

<i>Phalaris aquatica</i>	Harding grass	no
<i>Phormium tenax</i> (ornamental)	New Zealand flax	no
<i>Physocarpus capitatus</i>	Pacific ninebark	yes
<i>Pinus ponderosa</i>	ponderosa pine	yes
<i>Pinus</i> sp.	pine	no
<i>Plantago lanceolata</i>	English plantain	no
<i>Platanus racemosa</i>	sycamore	yes
<i>Poa annua</i>	annual bluegrass	no
<i>Polycarpon tetraphyllum</i>	four-leaf allseed	no
<i>Polygonum aviculare</i>	common knotweed	no
<i>Polypogon interruptus</i>	ditch rabbitfoot grass	no
<i>Pseudognaphalium californicum</i>	California cudweed	yes
<i>Pseudognaphalium luteoalbum</i>	Jersey cudweed	no
<i>Quercus agrifolia</i>	coast live oak	yes
<i>Ribes</i> sp.	gooseberry	yes
<i>Rubus ursinus</i>	California blackberry	yes
<i>Rumex conglomeratus</i>	clustered dock	no
<i>Rumex crispus</i>	curly dock	no
<i>Rupertia physodes</i>	California tea	yes
<i>Sagina apetala</i>	annual pearlwort	no
<i>Salix laevigata</i>	red willow	yes
<i>Salix lasiolepis</i>	arroyo willow	yes
<i>Sambucus nigra</i> ssp. <i>caerulea</i>	blue elderberry	yes
<i>Sanicula crassicaulis</i>	gamble weed	yes
<i>Scleranthus annuus</i>	German knotgrass	no
<i>Scrophularia californica</i>	bee plant	yes
<i>Senecio vulgaris</i>	common groundsel	no
<i>Sequoia sempervirens</i>	redwood	yes
<i>Sequoiadendron giganteum</i>	giant sequoia	yes
<i>Silybum marianum</i>	milk thistle	no
<i>Sisymbrium officinale</i>	hedge mustard	no
<i>Solanum douglasii</i>	white nightshade	yes
<i>Sonchus asper</i> ssp. <i>asper</i>	prickly sow thistle	no
<i>Sonchus oleraceus</i>	sow thistle	no
<i>Spergularia rubra</i>	red sandspurry	no
<i>Stachys rigida</i> var. <i>quercetorum</i>	rough hedge nettle	yes
<i>Stellaria media</i>	chickweed	no
<i>Stipa lepida</i>	foothill needlegrass	yes
<i>Stipa miliacea</i>	smilo grass	no
<i>Stipa pulchra</i>	purple needle grass	yes
<i>Symphoricarpos albus</i> var. <i>laevigatus</i>	snowberry	yes
<i>Tanacetum parthenium</i> (ornamental)	fewerfew	no
<i>Taraxacum officinale</i>	dandelion	no
<i>Torilis arvensis</i>	spreading hedgeparsley	no
<i>Toxicodendron diversilobum</i>	poison oak	yes

<i>Trifolium glomeratum</i>	clustered clover	no
<i>Trifolium hirtum</i>	rose clover	no
<i>Trillium chloropetalum</i>	giant wakerobin	yes
<i>Umbellularia californica</i>	bay tree	yes
<i>Urospermum picroides</i>	prickly goldenfleece	no
<i>Urtica dioica</i>	stinging nettle	yes
<i>Vicia sativa</i>	common vetch	no
<i>Vinca major</i>	periwinkle	no
<i>Wisteria</i> sp. (ornamental)	wisteria	no

Nomenclature according to: on-line Jepson eFlora and Calflora.

Surveys conducted by Zoya Akulova-Barlow and James Martin.



Summary Table Report

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad< IS > (Oakland East (3712272)< OR > Las Trampas Ridge (3712271)< OR > Diablo (3712178)< OR > San Leandro (3712262)< OR > Hayward (3712261)< OR > Dublin (3712168))

Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Accipiter cooperii</i> Cooper's hawk	G5 S4	None None	CDFW_WL-Watch List IUCN_LC-Least Concern	260 950	118 S:2	0	0	1	0	0	1	0	2	2	0	0
<i>Accipiter striatus</i> sharp-shinned hawk	G5 S4	None None	CDFW_WL-Watch List IUCN_LC-Least Concern	1,180 1,180	22 S:1	1	0	0	0	0	0	1	0	1	0	0
<i>Acipenser medirostris pop. 1</i> green sturgeon - southern DPS	G2T1 S1	Threatened None	AFS_VU-Vulnerable CDFW_SSC-Species of Special Concern IUCN_EN-Endangered	0 0	14 S:1	0	1	0	0	0	0	0	1	1	0	0
<i>Agelaius tricolor</i> tricolored blackbird	G1G2 S2	None Threatened	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered USFWS_BCC-Birds of Conservation Concern	520 650	960 S:3	0	1	2	0	0	0	3	0	3	0	0
<i>Ambystoma californiense pop. 1</i> California tiger salamander - central California DPS	G2G3T3 S3	Threatened Threatened	CDFW_WL-Watch List IUCN_VU-Vulnerable	20 1,750	1328 S:15	4	5	2	0	2	2	4	11	13	0	2
<i>Amsinckia lunaris</i> bent-flowered fiddleneck	G3 S3	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_UCBG-UC Botanical Garden at Berkeley SB_UCSC-UC Santa Cruz	575 1,611	93 S:13	0	1	1	0	0	11	2	11	13	0	0
<i>Anomobryum julaceum</i> slender silver moss	G5? S2	None None	Rare Plant Rank - 4.2		13 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Antrozous pallidus</i> pallid bat	G4 S3	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive	30 770	420 S:11	0	0	0	0	0	11	11	0	11	0	0



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						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Aquila chrysaetos</i> golden eagle	G5 S3	None None	BLM_S-Sensitive CDF_S-Sensitive CDFW_FP-Fully Protected CDFW_WL-Watch List IUCN_LC-Least Concern	950 1,560	332 S:2	1	1	0	0	0	0	2	0	2	0	0
<i>Arctostaphylos auriculata</i> Mt. Diablo manzanita	G2 S2	None None	Rare Plant Rank - 1B.3 SB_UCSC-UC Santa Cruz	1,300 1,800	17 S:4	2	2	0	0	0	0	1	3	4	0	0
<i>Arctostaphylos manzanita ssp. laevigata</i> Contra Costa manzanita	G5T2 S2	None None	Rare Plant Rank - 1B.2 SB_UCSC-UC Santa Cruz	1,200 2,000	10 S:5	0	1	0	0	0	4	4	1	5	0	0
<i>Arctostaphylos pallida</i> pallid manzanita	G1 S1	Threatened Endangered	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	1,120 1,500	9 S:6	0	0	4	1	1	0	1	5	5	1	0
<i>Ardea herodias</i> great blue heron	G5 S4	None None	CDF_S-Sensitive IUCN_LC-Least Concern	300 300	156 S:1	0	1	0	0	0	0	1	0	1	0	0
<i>Astragalus tener var. tener</i> alkali milk-vetch	G2T1 S1	None None	Rare Plant Rank - 1B.2 SB_UCSC-UC Santa Cruz	5 70	65 S:5	0	0	0	0	5	0	5	0	0	2	3
<i>Athene cunicularia</i> burrowing owl	G4 S2	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern	2 800	2057 S:12	0	3	2	3	1	3	6	6	11	1	0
<i>Balsamorhiza macrolepis</i> big-scale balsamroot	G2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive USFS_S-Sensitive	500 500	51 S:2	1	0	0	0	0	1	2	0	2	0	0
<i>Bombus caliginosus</i> obscure bumble bee	G2G3 S1S2	None None	IUCN_VU-Vulnerable	300 3,150	181 S:5	0	0	0	0	0	5	5	0	5	0	0
<i>Bombus crotchii</i> Crotch's bumble bee	G2 S2	None Candidate Endangered	IUCN_EN-Endangered	350 2,000	441 S:3	0	0	0	0	0	3	3	0	3	0	0
<i>Bombus occidentalis</i> western bumble bee	G3 S1	None Candidate Endangered	IUCN_VU-Vulnerable USFS_S-Sensitive	25 2,000	306 S:11	0	0	0	0	0	11	11	0	11	0	0



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<i>Buteo swainsoni</i> Swainson's hawk	G5 S4	None Threatened	BLM_S-Sensitive IUCN_LC-Least Concern	2,000 2,000	2577 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Calochortus pulchellus</i> Mt. Diablo fairy-lantern	G2 S2	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	600 2,197	52 S:11	1	4	0	1	0	5	3	8	11	0	0
<i>Centromadia parryi ssp. congdonii</i> Congdon's tarplant	G3T2 S2	None None	Rare Plant Rank - 1B.1 BLM_S-Sensitive SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	9 750	96 S:16	3	2	3	1	3	4	9	7	13	1	2
<i>Charadrius nivosus nivosus</i> western snowy plover	G3T3 S3	Threatened None	CDFW_SSC-Species of Special Concern	3 5	140 S:2	1	0	0	0	0	1	1	1	2	0	0
<i>Chloropyron maritimum ssp. palustre</i> Point Reyes salty bird's-beak	G4?T2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden		80 S:1	0	0	0	0	1	0	1	0	0	1	0
<i>Chorizanthe robusta var. robusta</i> robust spineflower	G2T1 S1	Endangered None	Rare Plant Rank - 1B.1	30 30	20 S:1	0	0	0	0	1	0	1	0	0	1	0
<i>Circus hudsonius</i> northern harrier	G5 S3	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern	5 5	82 S:1	0	1	0	0	0	0	1	0	1	0	0
<i>Clarkia concinna ssp. automixa</i> Santa Clara red ribbons	G5?T3 S3	None None	Rare Plant Rank - 4.3 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	400 400	20 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Clarkia franciscana</i> Presidio clarkia	G1 S1	Endangered Endangered	Rare Plant Rank - 1B.1 SB_UCBG-UC Botanical Garden at Berkeley	1,000 1,000	4 S:1	0	1	0	0	0	0	0	1	1	0	0



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<i>Corynorhinus townsendii</i> Townsend's big-eared bat	G4 S2	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive	700 3,790	635 S:3	0	0	0	0	1	2	3	0	2	1	0
<i>Coturnicops noveboracensis</i> yellow rail	G4 S2	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive USFWS_BCC-Birds of Conservation Concern	0 20	45 S:2	0	0	0	0	0	2	1	1	2	0	0
<i>Danaus plexippus plexippus pop. 1</i> monarch - California overwintering population	G4T1T2Q S2	Candidate None	IUCN_EN-Endangered USFS_S-Sensitive	5 25	400 S:4	0	1	1	0	0	2	0	4	4	0	0
<i>Delphinium californicum ssp. interius</i> Hospital Canyon larkspur	G3T3 S3	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	3,300 3,300	28 S:2	0	1	0	0	0	1	1	1	2	0	0
<i>Dipodomys heermanni berkeleyensis</i> Berkeley kangaroo rat	G4T1 S2	None None		580 3,200	8 S:6	0	0	0	0	0	6	5	1	6	0	0
<i>Dirca occidentalis</i> western leatherwood	G2 S2	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	675 1,655	90 S:16	1	6	2	0	0	7	5	11	16	0	0
<i>Efferia antiochi</i> Antioch efferian robberfly	G1G2 S1S2	None None		350 350	4 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Elanus leucurus</i> white-tailed kite	G5 S3S4	None None	BLM_S-Sensitive CDFW_FP-Fully Protected IUCN_LC-Least Concern	408 408	190 S:1	1	0	0	0	0	0	0	1	1	0	0
<i>Emys marmorata</i> western pond turtle	G3G4 S3	Proposed Threatened None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_VU-Vulnerable USFS_S-Sensitive	393 640	1559 S:7	1	3	1	0	0	2	3	4	7	0	0



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<i>Eremophila alpestris actia</i> California horned lark	G5T4Q S4	None None	CDFW_WL-Watch List IUCN_LC-Least Concern	600 600	94 S:1	0	1	0	0	0	0	1	0	1	0	0
<i>Eriogonum luteolum var. caninum</i> Tiburon buckwheat	G5T2 S2	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	850 950	26 S:3	0	0	1	0	0	2	0	3	3	0	0
<i>Eriogonum truncatum</i> Mt. Diablo buckwheat	G1 S1	None None	Rare Plant Rank - 1B.1 SB_UCBG-UC Botanical Garden at Berkeley		7 S:2	0	0	0	0	0	2	1	1	2	0	0
<i>Eryngium jepsonii</i> Jepson's coyote-thistle	G2 S2	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	330 775	19 S:4	0	0	0	0	0	4	2	2	4	0	0
<i>Eucyclogobius newberryi</i> tidewater goby	G3 S3	Endangered None	AFS_EN-Endangered CDFW_SSC-Species of Special Concern IUCN_NT-Near Threatened	5 5	127 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Eumops perotis californicus</i> western mastiff bat	G4G5T4 S3S4	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern	120 120	296 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Euphydryas editha bayensis</i> Bay checkerspot butterfly	G5T1 S3	Threatened None		500 1,300	30 S:2	0	0	0	0	2	0	2	0	0	0	2
<i>Extriplex joaquinana</i> San Joaquin spearscale	G2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	700 730	127 S:3	0	1	0	0	2	0	3	0	1	1	1
<i>Falco mexicanus</i> prairie falcon	G5 S4	None None	CDFW_WL-Watch List IUCN_LC-Least Concern	1,769 1,860	451 S:3	3	0	0	0	0	0	0	3	3	0	0
<i>Falco peregrinus anatum</i> American peregrine falcon	G4T4 S3S4	Delisted Delisted	CDF_S-Sensitive	0 0	75 S:1	0	1	0	0	0	0	0	1	1	0	0
<i>Fissidens pauperculus</i> minute pocket moss	G3? S2	None None	Rare Plant Rank - 1B.2 USFS_S-Sensitive	985 985	22 S:1	0	0	0	0	0	1	1	0	1	0	0



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						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Fritillaria liliacea</i> fragrant fritillary	G2 S2	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden USFS_S-Sensitive	200 550	82 S:7	0	0	1	1	1	4	5	2	6	1	0
<i>Geothlypis trichas sinuosa</i> saltmarsh common yellowthroat	G5T3 S3	None None	CDFW_SSC-Species of Special Concern USFWS_BCC-Birds of Conservation Concern	0 0	114 S:1	1	0	0	0	0	0	1	0	1	0	0
<i>Gilia millefoliata</i> dark-eyed gilia	G2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden		54 S:1	0	0	0	0	1	0	1	0	0	0	1
<i>Helianthella castanea</i> Diablo helianthella	G2 S2	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	500 2,705	107 S:36	5	9	9	0	0	13	18	18	36	0	0
<i>Helminthoglypta nickliniana bridgesi</i> Bridges' coast range shoulderband	G3T1 S1S2	None None	IUCN_DD-Data Deficient	1,400 1,950	6 S:2	0	0	0	0	0	2	2	0	2	0	0
<i>Hesperolinon breweri</i> Brewer's western flax	G2 S2	None None	Rare Plant Rank - 1B.2	1,150 2,190	29 S:2	0	1	0	0	0	1	1	1	2	0	0
<i>Hoita strobilina</i> Loma Prieta hoita	G2? S2?	None None	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden		40 S:1	0	0	0	0	1	0	1	0	0	1	0
<i>Holocarpa macradenia</i> Santa Cruz tarplant	G1 S1	Threatened Endangered	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_UCBG-UC Botanical Garden at Berkeley		37 S:1	0	0	0	0	1	0	1	0	0	1	0



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						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Horkelia cuneata var. sericea</i> Kellogg's horkelia	G4T1? S1?	None None	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_UCSC-UC Santa Cruz USFS_S-Sensitive	20 20	58 S:1	0	0	0	0	1	0	1	0	0	1	0
<i>Lasionycteris noctivagans</i> silver-haired bat	G3G4 S3S4	None None	IUCN_LC-Least Concern	400 400	139 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Lasiurus cinereus</i> hoary bat	G3G4 S4	None None	IUCN_LC-Least Concern	325 660	238 S:3	0	0	0	0	0	3	3	0	3	0	0
<i>Lasthenia conjugens</i> Contra Costa goldfields	G1 S1	Endangered None	Rare Plant Rank - 1B.1 SB_UCBG-UC Botanical Garden at Berkeley	5 5	36 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Laterallus jamaicensis coturniculus</i> California black rail	G3T1 S2	None Threatened	BLM_S-Sensitive CDFW_FP-Fully Protected IUCN_EN-Endangered	1 6	304 S:4	1	1	0	0	1	1	3	1	3	1	0
<i>Linderiella occidentalis</i> California linderiella	G2G3 S2S3	None None	IUCN_NT-Near Threatened	550 650	508 S:4	0	4	0	0	0	0	4	0	4	0	0
<i>Malacothamnus hallii</i> Hall's bush-mallow	G2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	1,500 1,500	71 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Masticophis lateralis euryxanthus</i> Alameda whipsnake	G4T2 S2	Threatened Threatened		175 2,200	167 S:69	16	23	7	1	3	19	41	28	66	3	0
<i>Meconella oregana</i> Oregon meconella	G2G3 S2	None None	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	1,300 1,550	9 S:2	0	0	0	0	0	2	1	1	2	0	0
<i>Melospiza melodia pusillula</i> Alameda song sparrow	G5T2T3 S2	None None	CDFW_SSC-Species of Special Concern USFWS_BCC-Birds of Conservation Concern	5 1,300	38 S:7	0	2	0	0	0	5	7	0	7	0	0



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<i>Microcina leei</i> Lee's micro-blind harvestman	G1 S1	None None		600 600	2 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Microcina lumi</i> Lum's micro-blind harvestman	G1 S1	None None		400 600	2 S:2	0	0	0	0	0	2	2	0	2	0	0
<i>Monolopia gracilens</i> woodland woollythreads	G3 S3	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	1,700 2,750	94 S:4	0	0	0	0	0	4	1	3	4	0	0
<i>Myotis yumanensis</i> Yuma myotis	G5 S4	None None	BLM_S-Sensitive IUCN_LC-Least Concern	380 380	265 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Neotoma fuscipes annectens</i> San Francisco dusky-footed woodrat	G5T2T3 S2S3	None None	CDFW_SSC-Species of Special Concern	667 713	42 S:3	1	1	1	0	0	0	0	3	3	0	0
<i>Northern Coastal Salt Marsh</i> Northern Coastal Salt Marsh	G3 S3.2	None None		10 10	53 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Northern Maritime Chaparral</i> Northern Maritime Chaparral	G1 S1.2	None None		1,300 1,300	17 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Phacelia phacelioides</i> Mt. Diablo phacelia	G2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	2,500 2,500	16 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Plagiobothrys diffusus</i> San Francisco popcornflower	G1Q S1	None Endangered	Rare Plant Rank - 1B.1 SB_UCSC-UC Santa Cruz	920 920	17 S:1	0	0	1	0	0	0	1	0	1	0	0
<i>Plagiobothrys glaber</i> hairless popcornflower	GX SX	None None	Rare Plant Rank - 1A	20 20	9 S:1	0	0	0	0	1	0	1	0	0	0	1
<i>Polemonium carneum</i> Oregon polemonium	G3G4 S2	None None	Rare Plant Rank - 2B.2		16 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Polygonum marinense</i> Marin knotweed	G2Q S2	None None	Rare Plant Rank - 3.1		32 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Pomatiopsis californica</i> Pacific walker	G1 S1	None None	IUCN_DD-Data Deficient		4 S:1	0	0	0	0	1	0	1	0	0	0	1



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						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Rallus obsoletus obsoletus</i> California Ridgway's rail	G3T1 S2	Endangered Endangered	CDFW_FP-Fully Protected	0 10	99 S:9	0	5	3	1	0	0	1	8	9	0	0
<i>Rana boylei pop. 4</i> foothill yellow-legged frog - central coast DPS	G3T2 S2	Threatened Endangered	BLM_S-Sensitive USFS_S-Sensitive	120 3,790	181 S:9	0	1	0	0	8	0	9	0	1	3	5
<i>Rana draytonii</i> California red-legged frog	G2G3 S2S3	Threatened None	CDFW_SSC-Species of Special Concern IUCN_VU-Vulnerable	300 1,819	1768 S:58	4	39	5	2	0	8	26	32	58	0	0
<i>Ravenella exigua</i> chaparral harebell	G2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	3,200 3,200	50 S:2	0	0	0	0	0	2	2	0	2	0	0
<i>Reithrodontomys raviventris</i> salt-marsh harvest mouse	G1G2 S3	Endangered Endangered	CDFW_FP-Fully Protected IUCN_EN-Endangered	1 3	151 S:4	2	0	0	0	0	2	4	0	4	0	0
<i>Rynchops niger</i> black skimmer	G5 S2	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern	3 3	7 S:1	1	0	0	0	0	0	1	0	1	0	0
<i>Sanicula maritima</i> adobe sanicle	G2 S2	None Rare	Rare Plant Rank - 1B.1 SB_SBBG-Santa Barbara Botanic Garden USFS_S-Sensitive		17 S:1	0	0	0	0	1	0	1	0	0	0	1
<i>Scapanus latimanus parvus</i> Alameda Island mole	G5T1Q SH	None None	CDFW_SSC-Species of Special Concern	10 20	8 S:2	0	0	0	0	2	0	2	0	0	2	0
<i>Serpentine Bunchgrass</i> Serpentine Bunchgrass	G2 S2.2	None None		1,120 1,120	22 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Setophaga petechia</i> yellow warbler	G5 S3	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	280 280	78 S:1	0	1	0	0	0	0	1	0	1	0	0
<i>Sorex vagrans halicoetes</i> salt-marsh wandering shrew	G5T1 S1	None None	CDFW_SSC-Species of Special Concern	1 2	12 S:3	0	0	0	0	0	3	3	0	3	0	0



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<i>Spergularia macrotheca var. longistyla</i> long-styled sand-spurrey	G5T2 S2	None None	Rare Plant Rank - 1B.2		22 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Spirinchus thaleichthys</i> longfin smelt	G5 S1	Proposed Endangered Threatened	IUCN_LC-Least Concern	0 0	46 S:2	0	0	0	0	0	2	1	1	2	0	0
<i>Sternula antillarum browni</i> California least tern	G4T2T3Q S2	Endangered Endangered	CDFW_FP-Fully Protected	5 6	76 S:3	1	0	0	0	1	1	2	1	2	0	1
<i>Streptanthus albidus ssp. peramoenus</i> most beautiful jewelflower	G2T2 S2	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_UCBG-UC Botanical Garden at Berkeley USFS_S-Sensitive	800 900	103 S:6	0	0	1	0	0	5	5	1	6	0	0
<i>Streptanthus hispidus</i> Mt. Diablo jewelflower	G2 S2	None None	Rare Plant Rank - 1B.3 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	820 820	8 S:1	0	1	0	0	0	0	1	0	1	0	0
<i>Stuckenia filiformis ssp. alpina</i> northern slender pondweed	G5T5 S2S3	None None	Rare Plant Rank - 2B.2	600 1,600	21 S:2	0	0	0	0	0	2	2	0	2	0	0
<i>Suaeda californica</i> California seablite	G1 S1	Endangered None	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden		18 S:3	0	0	0	0	2	1	2	1	1	1	1
<i>Taxidea taxus</i> American badger	G5 S3	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	500 1,000	647 S:6	2	1	0	0	0	3	5	1	6	0	0
<i>Trifolium hydrophilum</i> saline clover	G2 S2	None None	Rare Plant Rank - 1B.2		56 S:1	0	0	0	0	1	0	1	0	0	0	1
<i>Triquetrella californica</i> coastal triquetrella	G2 S2	None None	Rare Plant Rank - 1B.2 USFS_S-Sensitive	3,849 3,849	13 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Tryonia imitator</i> mimic tryonia (=California brackishwater snail)	G2 S2	None None	IUCN_DD-Data Deficient	0 0	39 S:2	0	0	0	0	2	0	2	0	0	0	2



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Valley Needlegrass Grassland Valley Needlegrass Grassland	G3 S3.1	None None		500 500	45 S:1	0	0	1	0	0	0	1	0	1	0	0
Viburnum ellipticum oval-leaved viburnum	G4G5 S3	None None	Rare Plant Rank - 2B.3	600 1,500	39 S:4	0	0	0	0	0	4	4	0	4	0	0
Vulpes macrotis mutica San Joaquin kit fox	G4T2 S3	Endangered Threatened		470 710	1020 S:3	0	0	0	0	0	3	3	0	3	0	0

