

ANNOTATED CHECKLIST OF THE VASCULAR PLANTS OF SAN FRANCISCO

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon Underlined = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonymy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFG / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ^g	# OCCURRENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC SF/Bay Area/CA	NATIVE - SF / CA
PIN	<i>Abies grandis</i>	grand fir	Known from a single 1900 collection from "SF" (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF.	t	ep	Redwood, Douglas-fir, mixed-evergreen forests; Elevation: < 700 m. WET: FACU	0	n/a	no	N/Y
NYC	<i>Abrovia latifolia</i>	yellow sand-verbena	Recorded historically (1892) from Ft. Funston, Golden Gate Park, Land's End, Lone Mt., Pine Lake, the Presidio (Baker Beach), Sunset Dist. dunes, Sutro Baths, and Sutro Hts. (Howell, <i>et al.</i> , CCH). Reported from Balboa Natural Area, Ft. Funston, Lake Merced, Land's End, the Marina Dist., Ocean Beach, Pacific Hts., the Presidio (Baker Beach, Baker Beach n., Crissy Bluffs, Crissy Field, Presidio Bluffs, Presidio Hills, sw. dunes), and the Richmond Dist.	h	ep	Prostrate, fleshy. Coastal dunes, scrub; Elevation: < 100 m.	12	May-Oct	no	Y/Y
NYC	<i>Abrovia umbellata</i> var. <i>umbellata</i>	coast sand-verbena	[<i>A. umbellata</i>] Recorded historically (1868, as full species) from Golden Gate Park, Hunters Pt., Ocean Beach, and the Presidio (Crissy Field, Ft. Point; Howell, <i>et al.</i> , CCH). Reported from Balboa Natural Area, Ft. Funston, and the Presidio (Baker Beach n., Crissy Field, Doyle Dr. Natural Area, Ft. Point, Lobos Cr. Valley, Presidio Hills, sw. dunes).	h	a	Prostrate. Disturbed sandy areas, coastal dunes and scrub; Elevation: < 100 m.	9	Jan-Dec	no	Y/Y
MLV	<i>Abutilon pictum</i>	Indian mallow	[<i>Callianthe p.</i> , pending; <i>A. striatum</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Interior Greenbelt, the Presidio (Baker Beach) and Yerba Buena Is.	s	a	Ornamental.	3	Jan-Dec	no	N/N
MLV	<i>Abutilon theophrasti</i>	velvet-leaf abutilon	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Presidio Hills).	h	a	Naturalized. Disturbed places; Elevation: generally < 100 m. WET: UPL	1	Jul-Sep	no	N/N
FAB	<i>Acacia dealbata</i>	Sydney black wattle	Recorded historically (1952) from Bayview Hills, the Richmond Dist., and the Sunset Dist. (CCH); not included in Howell, <i>et al.</i> Reported from City College, Glen Cyn., Interior Greenbelt, Potrero Hills, Mt. Davidson, the Presidio (Lobos Cr. Valley), the Richmond Dist., Sutro Forest, Tank Hill, Telegraph Hill, and Yerba Buena Is. Likely correct id for Presidio records of <i>A. decurrens</i> . INVASIVE STATUS: M/-/-/-	t	ep	Naturalized. Disturbed areas, often road-sides; Elevation: < 500 m.	10	Feb-Apr	no	N/N
FAB	<i>Acacia decurrens</i>	early green wattle	Recorded historically (c. 1954) from Bayview Hills, Lake Merced, Mt., Davidson, the Richmond Dist., and Sunset Dist. dunes (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Bernal Hts. Park, Glen Cyn., Hunters Pt., the Presidio (Doyle Dr. Natural Area, Dragonfly Cr.), and Sutro Forest; possibly confused with <i>A. dealbata</i> .	t	ep	Garden escape; not naturalized. Occasionally confused with <i>A. dealbata</i> .	6	Feb-Apr	no	N/N
FAB	<i>Acacia longifolia</i>	Sydney golden wattle	Recorded historically (1957) from Brotherhood Way, Golden Gate Park, Mission Bay, and the Presidio (Lobos Cr. Valley; Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: W/-/-/-	s	ep	Naturalized. Disturbed places, especially sandy coastal areas; Elevation: < 150 m.	26	Jan-Apr	no	N/N
FAB	<i>Acacia mearnsii</i>	black-wattle acacia	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Land's End, McLaren Park, and the Presidio (Presidio Hills).	t	ep	Garden escape; not naturalized. Disturbed areas; Elevation: < 500 m. Occasionally confused with <i>A. dealbata</i> .	3	Feb-Mar	no	N/N
FAB	<i>Acacia melanoxylon</i>	blackwood acacia	Recorded historically (1954) in Golden Gate Park, Lone Mt., the Presidio, and the Richmond Dist. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: L/3/-/-	t	ep	Naturalized. Disturbed areas; Elevation: < 200 m.	49	Feb-Mar	no	N/N
FAB	<i>Acacia paradoxa</i>	kangaroo thorn	Recorded historically (1972) from Telegraph Hill (CCH); not included in Howell, <i>et al.</i> Reported from Fairmont Park, Golden Gate Park (oak woodland) and the Presidio (Tennessee Hollow [El Polin Spring]). INVASIVE STATUS: W/-/NW, B/NW.	s	ep	Garden escape; not naturalized. Plantings, occasionally spreading to other disturbed areas; Elevation: < 300 m.	3	Jan-Mar	no	N/N
FAB	<i>Acacia retinodes</i>	ever-blooming acacia	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from the Presidio (Doyle Dr. Natural Area, Dragonfly Cr., Ft. Point, Inspiration Pt., Presidio Bluffs, Rob Hill).	s	ep	Garden escape; not naturalized. Disturbed areas, mostly coastal; Elevation: < 900 m.	6	Feb-Mar	no	N/N
FAB	<i>Acacia</i> sp.	wattle	Reported (to genus) from Ft. Funston; needs id.	s-t	ep	n/a	1	n/a	no	N/N
FAB	<i>Acacia verticillata</i>	star acacia, prickly leaved wattle	Recorded historically (1958) from Lake Merced (CCH); not included in Howell, <i>et al.</i> Reported from Buena Vista Park, Golden Gate Hts., Golden Gate Park (Stow Lake), Lake Merced, Land's End, and the Presidio (Doyle Dr. Natural Area, Dragonfly Cr., Inspiration Pt., Oak Study Area, Presidio Hills, sw. dunes, Tennessee Hollow).	s	ep	Garden escape; not naturalized. Disturbed areas; Elevation: < 150 m.	12	Feb-Apr	no	N/N
ROS	<i>Acaena novae-zelandiae</i>	New Zealand biddy biddy	[<i>A. sanguisorbae</i>] Recorded historically (1924) from Golden Gate Park and Laguna Honda Valley (Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way, Forest Hill Park, Glen Cyn., Golden Gate Park (Stow Lake), near Grandview Park, Laguna Honda Valley, Ocean Beach (SF Zoo), Sutro Forest, and Twin Peaks. INVASIVE STATUS: W/-/NW/-	h	p	Naturalized. Generally more-or-less disturbed areas; Elevation: < 200 m.	8	Mar-May	no	N/N
ROS	<i>Acaena pinnatifida</i> var. <i>californica</i>	pinnatifida acaena	[<i>A. californica</i>] Recorded historically (1898) from Bayview Hills, Bernal Hts., Golden Gate Hts., Lake Merced, Lone Mt., McLaren Park, Mt. Davidson, the Presidio, Pt. Lobos, San Miguel Hills, Sunset Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio; reintroduced at Mt. Sutro.	h	p	Coastal grassland, open, rocky slopes; Elevation: 50-400 m.	30	Mar-May	CA	Y/Y
ACA	<i>Acanthus mollis</i>	bear's breeches	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Alcatraz Is.; expected elsewhere.	h	p	Garden escape; not naturalized. Clumping, from tuberous roots.	1	lsp-esum	no	N/N
SAP	<i>Acer macrophyllum</i>	big-leaf maple	Previously included in the Aceraceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Buena Vista Park, Glen Cyn. Golden Gate Park (Stow Lake, misc.), McLaren Park, the Presidio (Crissy Bluffs, Ft. Point, Lobos Cr. Valley, Mountain Lake, Officer's Row, Tennessee Hollow), and the Sunset Dist.; presumed planted.	t	dp	Stream-banks, canyons; Elevation: < 1500 m. WET: FAC	12	Mar-Jun	no	N/Y

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SAP	<u><i>Acer negundo</i></u>	Cal. box-elder	[Incl. <i>A.n.</i> var. <i>californicum</i>] Previously included in the Aceraceae. Known from a single 1916 collection from Golden Gate Park (CCH) and a report from "the hills near Polk St. (Howell, <i>et al.</i>) Reported from Golden Gate Park (Mallard Lake, Strawberry Hill), the Presidio (Crissy Bluffs, Lobos Cr. Valley), and the Richmond Dist.; likely extirpated at 15th Ave. Steps, Pine Lake, and Rocky Outcrop (Sunset Hts.)	t	dp	Stream-sides, bottomland; Elevation: < 1800 m. WET: FACW	5	Mar-Apr	no	Y/Y
AST	<i>Achillea millefolium</i>	common yarrow	[<i>A. borealis</i>] Recorded historically (1896) from Bayview Hills, Golden Gate Park, Hunters Pt., Laguna Honda Valley, Lake Merced, Land's End, Lone Mt., Mt. Davidson, Nob Hill, Pine Lake, Potrero Hill, the Presidio, San Miguel Hills, se. SF, Sunset Dist. dunes, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	p	Many habitats; Elevation: < 3650 m. WET: FACU	74	Apr-Sep	no	Y/Y
AST	<u><i>Achyraea mollis</i></u>	blow-wives	Recorded historically (1867) from Oceanview, Potrero Hills, and Visitación Valley where it was considered rare (Howell, <i>et al.</i> , CCH). Reported from Golden Gate Hts., the Presidio (Pt. Point), and Rocky Outcrop (Sunset Hts.), although there are no SF records in iNaturalist.	h	a	Grassy sites, often clay soils; Elevation: < 1220 m. WET: FAC	3	Mar-Jun	no	Y/Y
FAB	<i>Acmispon americanus</i> var. <i>americanus</i>	American bird's-foot trefoil	[<i>Lotus purshianus</i> var. <i>p.</i>] Recorded historically (1935) from Bayview Hills and (1933, as full species) from Golden Gate Park (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Hilltop Park, Lake Merced, and the Presidio (Lobos Cr. Valley).	h	a	Coast, chaparral, mountain forest, water courses, road-sides, other disturbed areas; Elevation: < 2400 m. WET: UPL	4	May-Oct	no	Y/Y
FAB	<i>Acmispon brachycarpus</i>	foothill bird's-foot trefoil	[<i>Lotus humistratus</i>] Recorded historically (1890) from Land's End (Pt. Lobos) and w. SF (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1892.	h	a	Grassland, oak and pine woodland, desert flats and mtns., road-sides; Elevation: < 1700.	0	Mar-Jun	no	Y/Y
FAB	<i>Acmispon glaber</i> var. <i>glaber</i>	common deerweed, Cal. broom	[<i>Lotus scoparius</i> var. <i>s.</i>] Recorded historically (1882) from Bayview Hills, Cliff House, Ft. Funston, Golden Gate Hts., Golden Gate Park, Lake Merced, Land's End (Pt. Lobos) Lone Mt., Lone Mt., the Presidio, and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Presidio Hills). Also reported (as full species) from throughout the city and the Presidio.	h-s	p	Chaparral, road-sides, coastal sands; common; Elevation: < 1500 m.	36	Mar-Aug	no	Y/Y
FAB	<i>Acmispon heermannii</i> var. <i>orbicularis</i>	Heermann's bird's-foot trefoil	[<i>Lotus eriophorus</i> ; <i>Lh.</i> var. <i>o.</i> ; <i>Lh.</i> var. <i>eriophorus</i>] Recorded historically (1888) from Lake Merced, Lone Mt., and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston and the Presidio (Mountain Lake, Presidio Bluffs, Presidio Hills).	h	p	Coastal scrub, chaparral; Elevation: < 250 m.	4	Mar-Oct	no	Y/Y
FAB	<i>Acmispon parviflorus</i>	small-flowered trefoil	[<i>Lotus micranthus</i>] Recorded historically (1882) from Bayview Hills, Laguna Honda Valley, and Mt. Davidson (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Doyle Dr. Natural Area, Dragonfly Cr.)	h	a	Coastal bluffs to oak/pine or fir woodland, open or disturbed areas; Elevation: < 1300 m.	2	Mar-May	no	Y/Y
FAB	<i>Acmispon strigosus</i>	strigose bird's-foot trefoil	[<i>Ottleya strigosa</i> , pending; <i>Lotus strigosus</i>] Recorded historically (1890) from Lake Merced, Lone Mt., Presidio (Golf Course, Presidio Hills), and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from Ocean Beach, the Presidio (Baker Beach n., Crissy Field, Lobos Cr. Valley, Mountain Lake, Presidio Hills, Rob Hill, sw. dunes, Tennessee Hollow, WWII Memorial), and Yerba Buena Is.	h	a	Coastal scrub, chaparral, foothills, deserts, road-sides, other disturbed areas; Elevation: < 2300 m.	11	Mar-Jun	no	Y/Y
FAB	<i>Acmispon wrangelianus</i>	Chilean trefoil	[<i>Lotus w.</i> ; <i>L. subpinnatus</i> , misappl.] Recorded historically (1882) from Bayview Hills, Hunters Pt. Ridge, Laguna Honda Valley, Lake Merced, Land's End, Lone Mt., McLaren Park, Mt. Davidson, Potrero Hills, the Presidio, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Corona Hts., Glen Cyn., Hunters Pt. Ridge, the Presidio (Crissy Bluffs, Crissy Field, Ft. Point, Golf Course Natural Area, Inspiration Pt., Presidio Bluffs, Rob Hill, sw. dunes, Tennessee Hollow, WWII Memorial), Starr King, and Yerba Buena Is.	h	a	Coastal bluffs, chaparral, disturbed areas; Elevation: < 1500 m.	15	Mar-Jun	no	Y/Y
RAN	<i>Actaea rubra</i>	red baneberry	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Presumed indigenous here based on occs. around Bay Area. There is an unverified report from Brooks Park; there are no SF records in iNaturalist. Voucher specimen needed.	ss-s	p	Deep soils, moist, open to shaded sites, mixed-evergreen or conifer forests; Elevation: < 2800 m. WET: FAC	1	May-Sept	no	Y/Y
PTR	<u><i>Adiantum jordanii</i></u>	Cal. maiden-hair fern	Known from a single 1891 collection from Bayview Hills (CCH); reportedly occurred across s. part of the city from the Bay to Lake Merced (Howell, <i>et al.</i>) Reported from Interior Greenbelt, the Presidio (Crissy Bluffs, Presidio Bluffs, Tennessee Hollow), Sutro Forest, and Yerba Buena Is.	f	p	Rhizomatous, short-creeping. Shaded hillsides, moist woodland; Elevation: < 1600 m. WET: FAC	6	n/a	no	Y/Y
CRS	<i>Aeonium arboreum</i> var. <i>arboreum</i>	tree aeonium	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Balboa Natural Area, the Embarcadero, Land's End, and Telegraph Hill; expected elsewhere.	ss	p	Naturalized. Fleshy. Bluffs, dunes, or persisting from cultivation; Elevation: < 100 m.	3	Oct-Apr	no	N/N
CRS	<i>Aeonium haworthii</i>	Haworth's aeonium	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Hawk Hill and Yerba Buena Is.; likely more common.	ss	p	Naturalized. Fleshy. Sea cliffs, dunes, or persisting from cultivation; Elevation: < 100 m.	2	Apr-Jul	no	N/N
SAP	<u><i>Aesculus californica</i></u>	Cal. buckeye	Previously included in the Hippocastanaceae. First record from SF was made in 1792; restricted sightings from 1892 on "bluffs of the bay shore (likely Bayview Hill). Known from a single 1954 collection from Bayview Hills (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. Larval host plant for the Echo Azure butterfly.	t	dp	Dry slopes, canyons, borders of streams; Elevation: < 1700 m.	39	May-Jun	CA	Y/Y
LIL	<i>Agapanthus africanus</i>	lily-of-the-Nile	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Duncan-Castro Open Space, Golden Gate Park (Oak Woodland), and Yerba Buena Is.; expected elsewhere.	h	p	Ornamental; not naturalized.	3	sum	no	N/N
LIL	<i>Agapanthus praecox</i> ssp. <i>orientalis</i>	lily-of-the-Nile	[<i>A. orientalis</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Billy Goat Hill; expected elsewhere.	h	p	Garden escape; not naturalized.	1	sum	no	N/N
AGA	<i>Agave americana</i> var.	century plant	Previously included in the Liliaceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported (as full species) from Alcatraz Is., Bernal Hts. Park, Billy Goat Hill, Duncan-Castro Open Space, Golden Gate Park, Hunters Pt., Ocean Beach, the Presidio (Rob Hill), and Yerba Buena Is. Presumably <i>A.a.</i> var. <i>americana</i> .	s	p	Ornamental. Rhizomatous, fleshy. WET: UPL	9	Mar-Sep	no	N/N

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AST	<i>Ageratina adenophora</i>	sticky eupatorium	[<i>Eupatorium adenophorum</i>] Recorded historically (1878) from Golden Gate Park, Nob Hill, Russian Hill, Telegraph Hill, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Clarendon Hts., Golden Gate Park, Lake Merced, Palou-Phelps, Potrero Hill, the Presidio (Pt. Scott, Horse Stables, Rob Hill, Tennessee Hollow), Sutro Forest, Telegraph Hill, Treasure Is., and Yerba Buena Is. INVASIVE STATUS: M/3/-/NW	h-ss	p	Naturalized. Disturbed places, stream-banks canyons, hill slopes; Elevation: < 1000 m. WET: FACU	12	Jan-Dec	no	N/N
AST	<i>Agoseris apargioides</i> var. <i>apargioides</i>	seaside false-dandelion	[<i>Troximon a. T. humile</i>] Recorded historically (1879, as full species) from Cliff House, Lake Merced, Laurel Hill Cemetery, Lone Mt., Mission Dolores, Nob Hill, the Presidio, and Sutro Baths (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	p	Coastal dunes, sand hills; Elevation: < 100 m.	23	Apr-May	no	Y/Y
AST	<i>Agoseris apargioides</i> var. <i>eastwoodiae</i>	seaside false-dandelion	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Ft. Funston and the Presidio (Baker Beach n., Inspiration Pt.)	h	p	Reclining to prostrate. Coastal dunes, sand hills; Elevation: < 50 m.	3	Apr-May	no	N/Y
AST	<i>Agoseris grandiflora</i> var. <i>grandiflora</i>	grassland agoseris	Recorded historically (1867) from Bayview Hills, Corona Hts., Land's End, Lone Mt., Mt. Davidson, Mt. Sutro, Mission Hills, Nanny Goat Hill, Russian Hill, se. SF, and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported (as full species) from Bayview Hill, Corona Hts., Glen Cyn., Hawk Hill, Hunters Pt. Ridge, McLaren Park, the Presidio (Inspiration Pt., Presidio Bluffs), and Yerba Buena Is.; needs id. (presumably <i>A.g. var. g.</i>) Reintroduced at Sutro Forest.	h	p	Grassland, scrub, woodland; Elevation: generally 300-2000 m.	10	Apr-Sept	no	Y/Y
AST	<i>Agoseris heterophylla</i> var.	woodland agoseris	Recorded historically (c. 1890, as full species) from SF (Howell, <i>et al.</i>); there are no SF records in CCH. Possibly <i>A.h. var. h.</i> , or <i>A.h. var. cryptopleura</i> . Extirpated; last observed in 1890.	h	a	Many open habitats; Elevation: generally < 2000 m. SERP: 1.4	0	Apr-Jul	no	Y/Y
AST	<i>Agoseris hirsuta</i>	woolly goat chicory	Recorded historically (1893) from Bayview Hills, Brotherhood Way, Hunters Pt. Ridge, Mission Bay, Mt. Davidson, Mt. Sutro, and Nanny Goat Hill (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1961.	h	p	Grassland, scrub, marshes (rare); Elevation: generally < 500 m.	0	Apr-Jun	no	Y/Y
AST	<i>Agoseris</i> sp.	false-dandelion	Reported (to genus) from Billy Goat Hill, Golden Gate Hts., Mt. Davidson, O'Shaughnessy Hollow, and Rocky Outcrop; needs id.	h	p	n/a	5	n/a	no	n/a
POA	<i>Agropogon</i> [†] <i>littoralis</i>	coast agropogon	[<i>Polygonum</i> l. Hybrid between <i>Agrostis stolonifera</i> and <i>Polygonum monspeliensis</i> ; illegitimate name for a sterile hybrid] Recorded historically from Nob Hill (Eastwood 1898). Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Mountain Lake); need id.	g	p	Naturalized. Open, often disturbed places; Elevation: < 300 m.	1	n/a	no	N/N
POA	<i>Agrostis avenacea</i>	Australian bentgrass	Recorded historically (1957) from near Islais Cr., Lake Merced, and the Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from Laguna Honda Valley and the Presidio (Lobos Cr. Valley). Larval host plant for the Common Ringlet and Fiery Skipper butterflies. INVASIVE STATUS: L/-/-/-	g	p	Naturalized. From stolons or rhizomes. Road-sides, open, disturbed places; Elevation: < 1900 m. WET: FAC	2	Jun-Jul	no	N/N
POA	<i>Agrostis capillaris</i>	colonial bentgrass	[<i>A. tenuis</i>] Recorded historically (1950) from City College, Embarcadero, Golden Gate Park, Lone Mt., McLaren Park, Park Merced (Howell, <i>et al.</i> , CCH). Reported from the Presidio and Yerba Buena Is. Larval host plant for the Common Ringlet and Fiery Skipper butterflies.	g	p	Naturalized. From stolons or rhizomes. Road-sides, open, disturbed places; Elevation: < 1900 m. WET: FAC	2	Jul-Sep	no	N/N
POA	<i>Agrostis densiflora</i> (r)	Cal. bentgrass	[<i>A. californica</i>] Known from two 1954 collections from Land's End (Pt. Lobos) and Sutro Baths (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1954. Reintroduced at Presidio (Presidio Bluffs). Larval host plant for the Common Ringlet and Fiery Skipper butterflies.	g	p	Coastal bluffs, sandy soils; Elevation: < 200 m.	1	May-Aug	CA	Y/Y
POA	<i>Agrostis exarata</i>	spike bentgrass	[incl. <i>A.e. var. pacifica</i>] Recorded historically (1865) from Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End, Lone Mt., Mt. Sutro, Oceanview, Pine Lake, and the Presidio (Pt. Point; Howell, <i>et al.</i> , CCH). Reported from Bayview Hill and the Presidio (Crissy Bluffs, Ft. Point, Inspiration Pt. Mountain Lake, Presidio Bluffs, Presidio Hills, sw. dunes, WWII Memorial). Larval host plant for the Common Ringlet and Fiery Skipper butterflies.	g	p	Moist or disturbed areas, open woodland, conifer forest; Elevation: < 2000 m. WET: FACW	9	May-Jun	no	Y/Y
POA	<i>Agrostis gigantea</i>	giant bentgrass, giant redtop	[<i>A. alba</i> , misappl.] Recorded historically (c. 1865) from Golden Gate Park and Mission Dolores (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Baker Beach n., Presidio Bluffs, WWII Memorial). Larval host plant for the Common Ringlet and Fiery Skipper butterflies.	g	p	Naturalized. Rhizomatous. Road-sides, disturbed areas; Elevation: < 2000 m. WET: FACW	3	Jun-Sep	no	N/N
POA	<i>Agrostis hallii</i>	Hall's bentgrass	Recorded historically (1934) from Bayview Hills, Laguna Honda Valley, Lone Mt., Mt. Sutro, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bernal Hts. Park, the Presidio (Crissy Bluffs, sw. dunes), and Twin Peaks. Larval host plant for the Common Ringlet and Fiery Skipper butterflies.	g	p	Open oak woodland, conifer forest; Elevation: < 1800 m.	4	May-Jul	no	Y/Y
POA	<i>Agrostis microphylla</i>	small-leaved bentgrass	Recorded historically (1865) from Hunters Pt. Ridge, Mt. Sutro, and the Presidio (Howell, <i>et al.</i> , CCH). Reported from Hunters Pt. and the Presidio (Inspiration Pt., Presidio Bluffs, WWII Memorial). Larval host plant for the Common Ringlet and Fiery Skipper butterflies.	g	a	Thin, rocky soils, cliffs, vernal pools, occasionally on serpentine; Elevation: < 200 m. WET: FACW	4	May-Jul	no	Y/Y
POA	<i>Agrostis</i> sp.	bentgrass	Reported (to genus) from Bayview Hill, Billy Goat Hill, Corona Hts., Duncan-Castro Open Space, Glen Cyn., Land's End, McLaren Park, O'Shaughnessy Hollow, Sutro Baths, Tank Hill, and Twin Peaks; needs id. Larval host plant for Common Ringlet and Fiery Skipper butterflies.	g	a-p	n/a	11	n/a	no	n/a
POA	<i>Agrostis stolonifera</i>	swamp bentgrass	Recorded historically (1923) from Alemany Blvd., Bayview Hill, Golden Gate Park (Quarry Lake/Lily Pond), McLaren Park, the Presidio (Mountain Lake), the Richmond Dist., Russian Hill, and Sutro Hts. (Howell, <i>et al.</i> , CCH) Reported from the Presidio (Doyle Dr. Natural Area, Ft. Point, Mountain Lake, Tennessee Hollow), and the Sunset Dist. Larval host plant for the Common Ringlet and Fiery Skipper butterflies. INVASIVE STATUS: L/-/-/-	g	p	Naturalized. Matted, from stolons. Ditches, lake margins, marshes; Elevation: < 1000 m. WET: FACW	4	Jun-Sep	no	N/N

ANNOTATED CHECKLIST OF THE VASCULAR PLANTS OF SAN FRANCISCO

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon Underlined = nomenclature used in Howell (†) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonymy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFW / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ^g	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC S/Bay Area/CA	NATIVE - SF / CA
POA	<i>Aira caryophylla</i>	common silver hairgrass	Recorded historically (1932) from SF (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	g	a	Naturalized. Sandy soils, open or disturbed sites; Elevation: < 1900 m. WET: FACW	34	Apr-Jun	no	N/N
FAB	<i>Albizia julibrissin</i>	Persian silk tree	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Alcatraz Is., India Basin, the Mission Dist., the Presidio (Ft. Scott, Rob Hill)	t	ep	Naturalized. Disturbed, coastal, riparian areas; Elevation: < 500 m.	4	May-Jul	no	N/N
FAB	<i>Albizia lophantha</i>	plume acacia	[<i>Paraserianthes l.</i> , pending; <i>A. distachya</i> ; <i>Acacia l.</i>] Recorded historically (1950) from Bayview Hills, Bernal Hts. Park, Brotherhood Way, Glen Cyn., Hunters Pt., Lake Merced, Land's End, Mt. Davidson, the Presidio (near Baker Beach, Ft. Point), and Suto Hts. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	t	ep	Naturalized. Generally disturbed, coastal areas; Elevation: < 300 m.	31	May-Jul	no	N/N
MLV	<i>Alcea rosea</i>	hollyhock	[<i>Althaea r.</i>] Recorded historically (c. 1955) from Mission Bay (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Golden Gate Park (Stow Lake), the Mission Dist.; expected elsewhere.	h	p	Naturalized. Disturbed places; Elevation: especially < 1100 m.	1	Jun-Aug	no	N/N
ALI	<i>Alisma lanceolatum</i>	narrow-leaved water plantain	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Mountain Lake).	h	p	Naturalized. Ponds, rice fields, slow streams; Elevation: < 500 m. WET: OBL	1	Jun-Aug	no	N/N
ALI	<i>Alisma triviale</i>	water plantain	[<i>A. subcordatum</i> ; <i>A. plantago-aquatica</i> vars. <i>americanum</i> , <i>brevipies</i> , and <i>triviale</i> , misappl.; not occurring in Cal. (JFP, 2021)] Recorded historically (c. 1901; as <i>A. p-a.</i> var. <i>triviale</i>) from SF (Howell, <i>et al.</i>); there are no SF records for this genus in CCH. Status as an indigenous species in SF is uncertain. There are numerous records for <i>A.t.</i> from Alameda, Marin and San Mateo cos. in CCH.	h	p	Aquatic. Ponds; Elevation: < 1600 m. WET: OBL	0	May-Jun	no	?/Y
ALL	<i>Allium dichlamydeum</i>	coast red onion	Previously included in the Liliaceae. Recorded historically (1892) from Alemany Blvd., Bayview Hills, Hunters Pt., Land's End, Laurel Hill Cemetery, Lone Mt., McLaren Park, Mt. Davidson, Mt. Suto, Oceanview, the Presidio (Arguello Gate, above Baker Beach, Golf Course), and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, Crocker-Amazon Natural Area, McLaren Park, the Presidio (Baker Beach n., Battery Dynamite, Dragonfly Cr., Ft. Point, Inspiration Pt., Presidio Bluffs, Tennessee Hollow, WWII Memorial), and Twin Peaks.	gp	p	Bulb-forming. Dry clays on or near sea cliffs; Elevation: 50-150 m.	14	May-Jul	CA	Y/Y
ALL	<i>Allium neapolitanum</i>	Naples garlic	[<i>Nothoscordum inodorum</i>] Previously included in the Liliaceae. Recorded historically (1954) from Pacific Hts. and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from Brooks Park, Land's End, Suto Forest, and Yerba Buena Is.; expected elsewhere.	gp	p	Naturalized. Bulb-forming. Disturbed more-or-less urban places; Elevation: < 100 m.	4	Mar-Apr	no	N/N
ALL	<i>Allium triquetrum</i>	three-cornered onion	Previously included in the Liliaceae. Recorded historically (1954) from Golden Gate Park, the Presidio, Russian Hill, San Miguel Hills, and the Sea Cliff Dist. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	gp	p	Naturalized. Bulb-forming. Shady more-or-less disturbed places; Elevation: < 100 m.	48	Mar-Apr	no	N/N
ALL	<i>Allium unifolium</i>	one-leaf onion	Previously included in the Liliaceae. Recorded historically (1907) from Forest Hill, near Laguna Honda Valley (Alms House), and Mt. Davidson (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1927.	gp	p	Bulb-forming. Moist clay or serpentine, especially grassy stream-banks; Elevation: < 1100 m. SERP: 1.0	0	May-Jun	CA	Y/Y
ALL	<i>Allium vineale</i>	wild garlic	Previously included in the Liliaceae. Recorded historically (1978) from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> Reported from Golden Gate Park and the Richmond Dist. INVASIVE STATUS: -/-/-/NW	gp	p	Naturalized. Bulb-forming. Disturbed places; Elevation: < 100 m. WET: FACU	1	Jun-Aug	no	N/N
BET	<i>Alnus cordata</i>	Italian alder	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Yerba Buena Is.; expected elsewhere.	t	dp	Garden escape; Elevation: < 310 m.	1	Oct-Nov	no	N/N
BET	<i>Alnus rhombifolia</i>	western white alder	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Glen Cyn., Lake Merced, and Land's End. SF is within its natural range; possibly indigenous.	t	dp	Along permanent streams; Elevation: 100-2400 m. WET: FACW	3	Jan-Apr	no	?/Y
BET	<i>Alnus rubra</i>	red alder	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Planted at Glen Cyn., Lake Merced, Pine Lake, and the Presidio (Lobos Cr. Valley, Mountain Lake, Tennessee Hollow). Although SF is in the natural range of this Cal. native, which occurs in Marin and San Mateo cos, there is no indication of it having occurred here historically. Reported from Golden Gate Park (Lily Pond), Lake Merced, McLaren Park, Pine Lake, and the Presidio (Dragonfly Cr., Lobos Cr. Valley, Mountain Lake, Tennessee Hollow); all SF occs. are presumed planted. Larval host plant for the Pale Swallowtail and Western Tiger Swallowtail butterflies.	t	dp	Wet places, especially after logging; Elevation: < 1000 m. WET: FACW	9	Feb-Mar	no	?/Y
BET	<i>Alnus sp.</i>	alder	Reported (to genus) from Laguna Honda Valley; needs id.	t	dp	n/a	1	n/a	no	n/a
ASP	<i>Aloe maculata</i>	soap aloe	Previously included in the Liliaceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Twin Peaks and Yerba Buena Is.	h	p	Naturalized. Densely clumped, fleshy. Coastal bluffs; Elevation: < 100 m.	2	sp-sum	no	N/N
ASP	<i>Aloe vera</i>	aloe vera	Previously included in the Liliaceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Glen Cyn.	h	p	Ornamental; not naturalized. Stoloniferous. Sandy areas, road-sides, in full sun; Elevation: < 1300 m.	1	Apr	no	N/N
ASP	<i>Aloe[†] schoenlandii</i>	aloe	[<i>Aloe[†] schimperi</i> , pending. Hybrid between <i>A. saponaria</i> and <i>A. striata</i> .] Previously included in the Liliaceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Hawk Hill and Yerba Buena Is.; expected elsewhere.	h	p	Ornamental; not naturalized.	2	Apr	no	N/N
POA	<i>Alopecurus gemiculatus</i>	creeping water foxtail	[<i>A. pallens</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Known from San Mateo and Marin coasts; presumed indigenous. Reported from Hilltop Park and McLaren Park. Voucher specimen needed.	g	p	Cespitose or from stolons. Open, wet meadows, pools, shores, stream-banks; Elevation: < 3200 m. WET: OBL	2	May-Jun	no	Y/Y

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POA	<i>Alopecurus pratensis</i>	meadow foxtail	Recorded historically (1928) from Dolores Hts., Golden Gate Park, and West Portal (CCH); not included in Howell, <i>et al.</i> Reported from the Sunset Dist. INVASIVE STATUS: W/—/—/—	g	p	Cespitose or from stolons. Open, damp meadows; Elevation: 20-2400 m. WET: FACW	0	Mar-May	no	N/N
POA	<i>Alopecurus saccatus</i>	Pacific foxtail	[<i>A. howellii</i> ; <i>A. californicus</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Glen Cyn.	g	a	Vernal pools, moist, open meadows; Elevation: < 1700 m. WET: OBL	1	Mar-May	no	N/Y
BRA	<i>Alyssum alyssoides</i>	sweet alyssum	Recorded historically (1894) from SF (Howell, <i>et al.</i>); and there are no SF records in CCH. Reported from Ocean Beach and the Richmond Dist.	h	a	Naturalized. Disturbed areas, flats, ledges, bluffs; Elevation: < 1800 m.	1	May-Jul	no	N/N
AMA	<i>Amaranthus albus</i>	tumbleweed amaranth	Recorded historically (1956) from the Embarcadero, Golden Gate Park, near Islais Cr., Mission Bay, se. SF (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Presidio Hills, sw. dunes).	h	a	Naturalized. Disturbed areas, road-sides, riverbanks, sandy places, agricultural fields; Elevation: < 2500 m. WET: FACU	2	Jun-Oct	no	N/N
AMA	<i>Amaranthus blitoides</i>	prostrate pigweed	[<i>A. gracizans</i>] Recorded historically (c. 1957) from se. SF was considered a waif (Howell, <i>et al.</i>); there are no SF records in CCH. Cal. native but not considered indigenous here. There are no contemporary reports from SF.	h	a	Prostrate to erect. Disturbed areas, road-sides, agricultural fields, sandy soils; Elevation: < 2500 m. WET: FACU	0	Jul-Nov	no	N/Y
AMA	<i>Amaranthus californicus</i>	Cal. amaranth	Known from a single 1852 collection from "SF" (Howell, <i>et al.</i>); there are no SF records in CCH. Presumed indigenous to SF based on records from around the Bay Area. Extirpated; last collected in 1852.	h	a	Prostrate, mat-forming. Seasonally moist flats, lake margins, disturbed areas; Elevation: < 2800 m. WET: FACW	0	Jun-Aug	no	Y/Y
AMA	<i>Amaranthus deflexus</i>	low amaranth	[incl. <i>A. gracilis</i> , presently regarded as a minor variant] Recorded historically (1975) from Corona Hts., the Embarcadero, Golden Gate Park, Nob Hill, the Presidio (Doyle Dr.), the Richmond Dist., and Russian Hill (Howell, <i>et al.</i> , CCH). Reported from Corona Hts., Duboce Park, Mission Bay, South of Market St., the Sunset Dist. and Yerba Buena Is.	h	p	Naturalized. Railroad right-of-ways, disturbed areas; Elevation: < 650 m.	4	May-Nov	no	N/N
AMA	<i>Amaranthus hybridus</i>	slender pigweed	Recorded historically (1957) from the Embarcadero, the Presidio (Pt. Point; Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h	a	Naturalized. Disturbed areas, agricultural fields; Elevation: < 300 m.	0	Jun-Nov	no	N/N
AMA	<i>Amaranthus powellii</i>	Powell's amaranth	Recorded historically (1956) from Golden Gate Park, near Islais Cr., the Richmond Dist., se. SF, and SF State College (Howell, <i>et al.</i> , CCH). Considered an introduced species by Howell, <i>et al.</i> There are no contemporary reports from SF.	h	a	Erect. Agricultural fields, disturbed areas; Elevation: < 1500 m.	0	Jun-Oct	no	N/Y
AMA	<i>Amaranthus retroflexus</i>	redroot pigweed	Recorded historically (1957) from Golden Gate Park, near Islais Cr., and Lake Merced (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston.	h	a	Naturalized. Agricultural fields, disturbed areas; Elevation: < 2400 m. WET: FACU	1	Jun-Nov	no	N/N
AML	<i>Amaryllis belladonna</i>	Cape belladonna lily, naked-ladies amaryllis	Previously included in the Liliaceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from throughout the city and the Presidio.	h	p	Naturalized. Bulb-forming. Disturbed sites, often around abandoned home sites; Elevation: < 750 m.	43	Jul-Sep	no	N/N
AST	<i>Ambrosia artemisiifolia</i>	common ragweed	Recorded historically (1956) from Mission Bay (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h	a	Naturalized. Disturbed sites; Elevation: < 1050 m. WET: FACU	0	Jul-Oct	no	N/N
AST	<i>Ambrosia chamissonis</i>	beach bur, silver beachweed	[<i>Franseria c.</i> ; <i>F.c.</i> var. <i>bipinnatisecta</i> ; incl. <i>A.c.</i> var. <i>bipinnatisecta</i>] Recorded historically (1852) from Ft. Mason, Golden Gate Park, near Islais Cr., Lake Merced, Lone Mt., Land's End, the Marina Dist., the Presidio, and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from Balboa Natural Area, Candlestick Pt., Ft. Funston, Heron's Head, Hunters Pt., Land's End, Lone Mt., the Marina Dist., Ocean Beach, Pier 94, the Presidio (Baker Beach, Baker Beach n., Crissy Field, Ft. Point, Lobos Cr., Valley, Presidio Hills, sw. dunes, WWII Memorial), the Sea Cliff Dist., Sutro Baths, and Yerba Buena Is.	h	p	Mat-forming. Beaches, dunes; Elevation: < 25 m.	19	May-Oct	no	Y/Y
AST	<i>Ambrosia confertiflora</i>	weak leaved burweed	[<i>Eranteria c.</i>] Recorded historically (1941) from the Embarcadero and Islais Cr. where it was introduced from So. Cal. (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h	p	From rhizome-like roots. Disturbed areas; Elevation: < 1250 m.	0	May-Nov	no	N/Y
AST	<i>Ambrosia psilostachya</i> (r)	western ragweed	[<i>A.c.</i> var. <i>californica</i>] Recorded historically (1956) from the Embarcadero, Mission Bay, and Telegraph Hill (Howell, <i>et al.</i> , CCH). Reported from Pier 94; likely a recent re-introduction.	h	p	Colonial from rhizome-like roots. Road-sides, dry fields; Elevation: < 1000 m. WET: FACU	1	Jul-Nov	no	Y/Y
ROS	<i>Amelanchier pallida</i>	service berry	[Unresolved; possible minor variant of <i>A. utahensis</i>] Recorded historically (1933) from Mt. Davidson, Sunset Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Mt. Davidson and O'Shaughnessy Hollow; possibly mis-identified.	s	dp	Dry rocky slopes, canyons, chaparral, mountainsides.	2	May-Jun	no	Y/Y
ROS	<i>Amelanchier utahensis</i>	Utah service-berry	Recorded historically (1924) from Mission Hills and Mt. Davidson (CCH); not included in Howell, <i>et al.</i> Reported from Glen Cyn., Mt. Davidson, O'Shaughnessy Hollow, and Twin Peaks. Voucher specimen needed.	s	dp	Open, rocky slopes, canyons, banks of creeks, deserts, conifer forest; Elevation: 200-3400 m. WET: FACU	4	Apr-Jun	no	Y/Y
LYT	<i>Ammannia coccinea</i>	redstem ammannia	[<i>A. auriculata</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Known from SF Bay Area; Presumed to be indigenous to SF. Reported from the Presidio. Voucher specimen needed.	h	a	Prostrate to erect. Wet places, drying ponds, lake, creek margins; Elevation: < 300 m. WET: OBL	1	Jun-Aug	no	Y/Y
LYT	<i>Ammannia robusta</i>	grand redstem	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Tennessee Hollow). Not likely indigenous to SF. Possibly confused with <i>A. coccinea</i> . Voucher specimen needed.	h	a	Wet places, drying ponds, ditch margins; Elevation: < 500 m. WET: OBL	1	Jun-Aug	no	N/Y
POA	<i>Ammophila arenaria</i>	European beach grass	Recorded historically (1896) from SF (Howell, <i>et al.</i> , CCH). Reported from Edgehill Mt., Ft. Funston, Lake Merced, Ocean Beach, and the Presidio (Baker Beach, sw. dunes). INVASIVE STATUS: H/2/—/—	g	p	Naturalized. Rhizomatous. Sand dunes; Elevation: < 240 m. WET: FACU	6	May-Aug	no	N/N
POA	<i>Ammophila breviligulata</i>	American beach grass	[Unresolved taxon; possibly a minor variant of <i>A. arenaria</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Baker Beach); need verification.	g	p	Rhizomatous. Sand dunes, dry sand shores. WET: FACU	1	Mar-May	no	N/N

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BOR	<u><i>Amsinckia internedia</i></u>	common fiddleneck	[<i>A. menziesii</i> var. <i>i.</i>] Recorded historically (1903) from Bayview Hills, the Embarcadero, Golden Gate Park, Lake Merced, Laurel Hts., McLaren Park, Mt. Davidson, San Miguel Hills, and Visitation Valley (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Crocker-Amazon Natural Area, Land's End, McLaren Park, the Presidio (sw. dunes, West Pacific Natural Area), and Twin Peaks. SF is the type locality (holotype of <i>A. vulgaris</i> and <i>A. franciscana</i>).	h	a	Open, generally disturbed areas; Elevation: < 1750 m.	7	Mar-Jun	no	Y/Y
BOR	<u><i>Amsinckia lycopsoides</i></u>	bugloss fiddleneck	Recorded historically (1891) from Land's End and the Presidio (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1906.	h	a	Open, grassland, foothill woodland, generally disturbed areas; Elevation: 5-850 m.	0	Mar-Jun	no	Y/Y
BOR	<i>Amsinckia menziesii</i>	Menzies' fiddleneck	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Crocker-Amazon Natural Area and the Presidio (Baker Beach, Baker Beach n., sw. dunes).	h	a	Shade-tolerant, open, disturbed areas at forest/woodland edges; Elevation: < 1700 m.	4	Mar-May	no	Y/Y
BOR	<u><i>Amsinckia spectabilis</i></u> var. <i>spectabilis</i>	seaside fiddleneck	[<i>A. davysii</i>] Recorded historically (1894, as full species) from Golden Gate Park, Lake Merced, Land's End (Pt. Lobos) Lone Mt., Pine Lake, Potrero Hills, the Presidio (Baker Beach n., Mountain Lake), and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from Balboa Natural Area, Ft. Funston, Grandview Park, and the Presidio (Baker Beach, Crissy Field, Ft. Point, Golf Course Natural Area, Julius Khan Playground, Lobos Cr. Valley, Mountain Lake, Park Blvd. Plantation, Presidio Hills, Rob Hill, sw. dunes, Tennessee Hollow, West Pacific Natural Area, WWII Memorial); reintroduced at Lake Merced. SF is the type locality (holotype of <i>A. kelloggii</i>).	h	a	Generally decumbent. Coastal dunes or sandy bluffs; Elevation: < 170 m. WET: FACU	18	Apr-Aug	no	Y/Y
AST	<i>Anaphalis margaritacea</i>	pearly everlasting	Recorded historically (1852) from Bayview Hills, Golden Gate Park (Strawberry Hill), Laguna Honda Valley, Lake Merced, Land's End (Pt. Lobos), Lone Mt., McLaren Park, Oceanview, the Presidio (Baker Beach, Lobos Cr. Valley), San Miguel Hills, Sunset Dist. dunes, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	p	Rhizomatous. Woodland, disturbed places; Elevation: < 3200 m. WET: FACU	31	Jul-Oct	no	Y/Y
API	<u><i>Angelica hendersonii</i></u>	coast angelica	Recorded historically (1891) from throughout Bayview Hills, Brotherhood Way, Golden Gate Park, Lake Merced, Land's End, Mt. Davidson, the Presidio (Ft. Point), San Miguel Hills, and Sunset Hts. (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Brooks Park, Brotherhood Way, Glen Cyn., Golden Gate Hts., Grandview Park, Hawk Hill, Laguna Honda Valley, Land's End, Mt. Davidson, O'Shaughnessy Hollow, the Presidio (Baker Beach n., Battery Dynamite, Ft. Point, Lover's Lane, Mountain Lake, Presidio Bluffs, Tennessee Hollow, WWII Memorial), Rocky Outcrop, the Sea Cliff Dist., Sutro Forest, and Twin Peaks.	h	p	Generally sprawling. Coastal bluffs, scrub; Elevation: < 150 m.	22	Jun-Jul	no	Y/Y
API	<i>Angelica tomentosa</i> (r)	woolly angelica	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Presumed indigenous here based on occs. on the SF Peninsula. Extirpated. Reintroduced at Glen Cyn. using seed collected from Crystal Springs.	h	p	Generally wooded areas; Elevation: 30-2400 m.	1	Jun-Aug	no	Y/Y
AST	<i>Anisocarpus madioides</i>	woodland madia	[<i>Madia m.</i>] Known from a single 1868 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1868. There is an unconfirmed report from SF in Naturalist; needs verification.	h	a	Moist forest, woodland; Elevation: < 1300 m.	0	Apr-Jul	no	Y/Y
BAS	<i>Amredera cordifolia</i>	mignonette vine	[<i>Boussingaultia gracilis</i> var. <i>pseudo-baseloides</i>] Recorded historically (c. 1955) from Mission Bay (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h-v	p	Agricultural, garden or urban weed. From a tuber-like root. Disturbed, more-or-less urban areas, abandoned orchards; Elevation: < 500 m.	0	n/a	no	N/N
AST	<u><i>Artemisia cotula</i></u>	common mayweed, dog fennel	Recorded historically (1878) from the Embarcadero, Golden Gate Park, near Islais Cr., Lake Merced, Nob Hill and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Lake Merced, the Presidio (Ft. Point, Presidio Hills, Tennessee Hollow), and Yerba Buena Is.	h	a	Naturalized. Disturbed areas, fields, coastal dunes, chaparral, oak woodland; Elevation: < 2600 m. WET: FACU	5	Apr-Aug	no	N/N
POA	<u><i>Anthoxanthum odoratum</i></u>	sweet vernal grass	Recorded historically (1927) from SF (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Presidio Bluffs, Presidio Hills). INVASIVE STATUS: L/-/-/-	g	p	Naturalized. Cespitose. Meadows, pastures, openings in conifer forest, disturbed sites; Elevation: generally < 1600 m. WET: FAC	2	May-Jun	no	N/N
API	<i>Anthriscus caucalis</i>	bur-chervil	[<i>A. neglecta</i> var. <i>scandix</i>] Recorded historically (1933) from Golden Gate Park, Lake Merced, and the Presidio (Lobos Cr. Valley; Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a	Naturalized. Generally shady places; Elevation: < 1500 m.	40	Apr-Jun	no	N/N
PTG	<u><i>Antirrhinum majus</i></u>	garden snapdragon	Recorded historically (c. 1955) from Bayview Hills (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	h	a-p	Waif. Open, disturbed areas; Elevation: < 250 m.	0	Mar-Jun	no	N/N
PTG	<i>Antirrhinum orontium</i>	Syrian snapdragon	[<i>Misopates o.</i> , pending] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Baker Beach Apts.)	h	a	Waif. Open, disturbed areas; Elevation: < 100 m.	1	May-Jul	no	N/N
ROS	<i>Aphanes occidentalis</i>	western lady's mantle	[<i>Alchemilla o.</i>] Recorded historically (1862) from the Bernal Hts., Brotherhood Way, Land's End, McLaren Park, Mission Dolores, Mt. Davidson, Mt. Sutro, and the Presidio (Baker Beach, Baker Beach n., Mountain Lake; Howell, <i>et al.</i> , CCH). Reported Bayview Hill, Bernal Hts. Park, Billy Goat Hill, Duncan-Castro Open Space, Ft. Funston, Glen Cyn., Grandview Park, McLaren Park, Palou-Phelps, the Presidio (Ft. Scott, Golf Course Natural Area, Inspiration Pt., Presidio Bluffs, Tennessee Hollow), Starr King, Tank Hill, and Twin Peaks.	h	a-p	Seasonally moist grassland, chaparral, woodland; Elevation: 30-1200 m.	17	Feb-Apr	no	Y/Y
ORO	<i>Aphyllon californicum</i> ssp. <i>californicum</i>	Cal. broomrape	[<i>Orobancha californica</i> ssp. <i>californica</i>]. Recorded historically (1816, as full species) from Land's End and the Presidio (Presidio Bluffs, sw. dunes; Howell, <i>et al.</i>); there are no SF records in CCH. Reported from the Presidio (Presidio Bluffs). Voucher specimen needed. Typically parasitic on <i>Grindelia</i> ; pale form in SF on <i>Eriophyllum staechadifolium</i> is an undescribed species.	h	p	Root parasite. Sandy or heavy soils of coastal bluffs, generally on <i>Grindelia</i> ; Elevation: < 150 m.	1	Jun-Aug	CA	Y/Y

ANNOTATED CHECKLIST OF THE VASCULAR PLANTS OF SAN FRANCISCO

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ORO	<i>Aphyllon fasciculatum</i>	clustered broomrape	[<i>Orobanche fasciculata</i>] Recorded (c. 1923) historically from Lake Merced, Laurel Hill Cemetery, and the Presidio (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Inspiration Pt., Lobos Cr. Valley, Presidio Bluffs). Parasitic on <i>Eriogonum</i> , <i>Artemisia</i> , <i>Galium</i> .	h	p	Root parasite. Dry, generally more-or-less bare places, generally on shrubs (generally <i>Artemisia</i> , <i>Eriodictyon</i> , <i>Eriogonum</i> , <i>Eriophyllum</i> , <i>Phacelia</i>); Elevation: < 3300 m.	3	Apr-Jul	no	Y/Y
ORO	<i>Aphyllon purpureum</i>	purple broomrape	[Previously considered as <i>Orobanche uniflora</i> , a taxon not occurring in Cal. (JFP, 2021)] Recorded historically (as <i>Ou. var. minuta</i> and <i>var. sedi</i> ; 1896) from Potrero Hills, Sunset Hts., and Twin Peaks, growing on <i>Sedum spathulifolium</i> (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from the Presidio; needs confirmation. Voucher specimen needed.	h	a	Root parasite. Generally moist places, on herbs, especially <i>Senecio aronicoides</i> , <i>Antennaria</i> , <i>Sedum</i> , <i>Apiaceae</i> , <i>Saxifragaceae</i> ; Elevation: < 3100 m.	1	Mar-Jul	no	Y/Y
ORO	<i>Aphyllon robbinsii</i>	Robbin's broomrape	[<i>Orobanche r.</i>] Recorded historically (1956) from Land's End (CCH); not included in Howell, <i>et al.</i> Recently rediscovered at the Presidio (Presidio Bluffs). Previously believed extirpated; last collected in 1966. SF is the type locality (isotype of <i>Orobanche r.</i>) Voucher specimen needed.	h	a	Root parasite. Sandy or loose soils of coastal bluffs, on <i>Eriophyllum staechadifolium</i> ; Elevation: < 100 m.	1	Apr-Jul	no	Y/Y
ORO	<i>Aphyllon vallicolum</i>	valley broomrape	[<i>Orobanche vallicola</i>] Known from a single 1966 collection from Land's End (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1966.	h	a	Root parasite. Riparian woodland, on <i>Sambucus nigra</i> ; Elevation: < 300 m.	0	Jul-Sep	CA	Y/Y
API	<i>Apiastrum angustifolium</i>	Cal. mock-parsley	Recorded historically (c. 1890) from Land's End (Pt. Lobos), se. SF, and Visitación Valley (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1890.	h	a	Chaparral, coastal scrub; Elevation: < 1500 m. WET: UPL	0	Mar-Apr	no	Y/Y
API	<i>Apium graveolens</i>	celery	Recorded historically (1974) from McLaren Park and the Presidio (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Doyle Dr. Natural Area, Ft. Scott, Mountain Lake), and Yerba Buena Is.	h	a-b	Naturalized. Wet places; Elevation: generally < 1000 m.	4	May-Jul	no	N/N
APO	<i>Apocynum androsaemifolium</i>	bitter dogbane	Known from a single undated collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated.	h	p	Open slopes, rocky places, with conifers, chaparral; Elevation: 200-2500 m. WET: UPL	0	May-Sep	no	Y/Y
AIZ	<i>Aptenia cordifolia</i>	red-apple iceplant	[<i>Mesembryanthemum cordifolium</i>] Recorded historically (1935) from Golden Gate Park, Lake Merced, Land's End (Pt. Lobos), the Presidio (Presidio Hills), the Richmond Dist., and Sutro Hts. (Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park, Laguna Honda Valley, Land's End, McLaren Park, the Presidio (Lobos Cr. Valley), Starr King, Sutro Hts., and Yerba Buena Is.	h-ss	p	Naturalized. Prostrate, fleshy. Disturbed places, margins of coastal wetlands; Elevation: < 100 m.	8	Apr-May	no	N/N
RAN	<i>Aquilegia formosa</i>	crimson columbine	[Incl. <i>A.f. var. truncata</i>] Recorded historically (1895) from Mt. Davidson and Stanford Hts. (Howell, <i>et al.</i> , CCH). Reported from Clarendon Hts., McLaren Park, Mt. Davidson, and O'Shaughnessy Hollow; reintroduced at Glen Cyn., Islais Cr., Seward Mini Park, and Sutro Forest.	h	p	Stream-banks, seeps, moist places, chaparral, oak woodland, mixed-evergreen or conifer forests; Elevation: < 3300 m. WET: FAC	8	Apr-Sep	no	Y/Y
BRA	<i>Arabis blepharophylla</i>	coast rock cress	Recorded historically (1866) from Bayview Hills, Bernal Hts., Masonic Cemetery, McLaren Park, the Presidio (Baker Beach), San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bernal Hts. Park, Duncan-Castro Open Space, Glen Cyn., Land's End, Mt. Davidson, O'Shaughnessy Hollow, the Presidio (Ft. Point, Inspiration Pt., Presidio Bluffs, WWII Memorial), Tank Hill, and Twin Peaks. Reintroduced at Sutro Forest. Endemic to Central Coast. RARITY STATUS: —/—/4.3	h	p	Rocky outcrops, bluffs, grassy slopes; Elevation: 50-300 m.	13	Feb-May	CA	Y/Y
ARL	<i>Aralia californica</i>	Cal. elk-clover	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Golden Gate Park, Interior Greenbelt, and Sutro Forest.	h	dp	Moist shade, canyons, stream sides; Elevation: < 2500 m. WET: FACW	3	Jun-Aug	no	N/Y
ERI	<i>Arbutus menziesii</i>	Pacific madrone	Recorded historically (1837) from "SF" and Golden Gate Park (Howell, <i>et al.</i> , CCH). Reported from Bernal Hts. Park, Brotherhood Way, Buena Vista Park, Douglas Park, Golden Gate Park, Interior Greenbelt, Lake Merced, Land's End, McLaren Park, Pine Lake, the Presidio (Lobos Cr. Valley, Presidio Bluffs, Presidio Hills, Rob Hill, sw. dunes, WWII Memorial), the Sea Cliff Dist., SFSU, Sutro Forest, and Twin Peaks; it is unknown which of these populations represents an indigenous stand.	t	ep	Conifer, oak forests; Elevation: 100-1500 m.	19	Apr-May	no	Y/Y
ERI	<i>Arbutus unedo</i>	strawberry tree	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. reported from the Embarcadero and the Presidio (Lobos Cr. Valley).	t	p	Ornamental; not naturalized.	1	Nov-Dec	no	N/N
AST	<i>Arctium lappa</i>	great burdock	Recorded historically (1916) from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF.	h	b	Naturalized. Disturbed places; Elevation: < 500 m.	0	Jun-Oct	no	N/N
ERI	<i>Arctostaphylos crustacea</i> ssp. <i>crustaceae</i>	brittleleaf manzanita	[<i>A. tomentosa</i> ssp. <i>crustaceae</i>] Recorded historically (1933) from Brotherhood Way (Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way.	s	ep	Chaparral, conifer forest; Elevation: < 1100 m.	1	Jan-Apr	CA	Y/Y
ERI	<i>Arctostaphylos crustacea</i> ssp. <i>rosei</i>	Rose's manzanita	[<i>A. rosei</i> ; <i>A. tomentosa</i> ssp. <i>r.</i>] Recorded historically (1907) from Brotherhood Way (Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way. SF is the type locality (holotype of <i>A. rosei</i>).	s	ep	Chaparral, conifer forest, coastal bluffs; Elevation: < 500 m.	1	Feb-Apr	CA	Y/Y
ERI	<i>Arctostaphylos franciscana</i>	Franciscan manzanita	[<i>A. hookeri</i> ssp. <i>f.</i>] Recorded historically (1889) from Laurel Hill Cemetery, Mt. Davidson, and the Presidio (above Baker Beach, Doyle Dr. Natural Area, WWII Memorial; Howell, <i>et al.</i> , CCH). Extant at an undisclosed location in the Presidio. SF is the type locality (probable type of <i>A.f.</i>) Endemic to SF. RARITY STATUS: FE/—/1B.1	s	ep	Serpentine outcrops, chaparral; Elevation: < 300 m. SERP: 6	1	Feb-Apr	SF	Y/Y
ERI	<i>Arctostaphylos manzanita</i> ssp. (r)	common manzanita	Presumably <i>A.m.</i> ssp. <i>m.</i> Known from a single 1891 collection from the Presidio (Ft. Point; CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1891. Reported from the Richmond Dist. where it was presumably planted.	s	ep	Woodland, chaparral, conifer forest; Elevation: 30-1200 m.	0	Jan-Mar	CA	Y/Y
ERI	<i>Arctostaphylos manzanita</i> ssp. <i>elegans</i>	Konocti manzanita	Known from a single 1894 collection from Lake Merced (Brotherhood Way?; CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1894. RARITY STATUS: —/—/1B.3	s	ep	Woodland, chaparral, conifer forest, generally volcanic soils; Elevation: 220-1850 m.	0	Mar-May	CA	Y/Y

ANNOTATED CHECKLIST OF THE VASCULAR PLANTS OF SAN FRANCISCO

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ERI	<i>Arctostaphylos montana</i> ssp. <i>ravenii</i>	Presidio manzanita	[<i>A. hookeri</i> ssp. <i>r.</i>] Recorded historically (1907) from Laurel Hill Cemetery, Mt. Davidson, and the Presidio (above Baker Beach, WWII Memorial; CCH); not included in Howell, <i>et al.</i> Extant at an undisclosed location in the Presidio. Endemic to SF. SF is the type locality (holotype of <i>A. hookeri</i> ssp. <i>ravenii</i>). RARITY STATUS: FE/SE/IB.1	s	ep	Serpentine chaparral; Elevation: 60-95 m. SERP: 6	1	Feb-Mar	SF	Y/Y
ERI	<i>Arctostaphylos pumila</i>	sandmat manzanita	Known from a single 1897 collection from Lone Mt. (Masonic Cemetery; CCH); not included in Howell, <i>et al.</i> SF is the northernmost record. Extirpated; last collected in 1897. SF is the northernmost station. RARITY STATUS: —/—/IB.2	s	ep	Sandy soils in chaparral, oak woodland; Elevation: < 200 m.	0	Feb-May	CA	Y/Y
ERI	<i>Arctostaphylos sensitiva</i>	glossy leaf manzanita	[incl. <i>A. nummularia</i> var. <i>sensitiva</i>] Known from a single collection (1900, as <i>A. nummularia</i>) from Lone Mt. (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1900.	s	ep	Rocky sites, chaparral, closed-cone conifer forest; Elevation: < 600 m.	0	Jan-Apr	CA	Y/Y
ERI	<i>Arctostaphylos tomentosa</i> ssp. <i>bracteosa</i>	bristly twig manzanita	[<i>A.t.</i> var. <i>trichoclada</i> ; <i>A.t.</i> var. <i>hebeclada</i>] Known from a single 1964 collection from Lake Merced (Brotherhood Way?; CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF. Native Cal. taxon but not considered indigenous here; SF occs. represent an extreme range extension.	s	ep	Chaparral, closed-cone conifer forest; Elevation: 10-300 m.	0	Jan-Mar	CA	N/Y
AST	<i>Arctotheca calendula</i>	South African capeweed	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from McLaren Park, the Presidio (Crissy Field, Horse Stables, Lyon St. Plantation, Officer's Row, Park Blvd. Plantation, sw. dunes, Tennessee Hollow), Twin Peaks and Yerba Buena Is. INVASIVE STATUS: MA/—/NW,A/—	h	a-p	Naturalized. Disturbed coastal areas; Elevation: < 100 m.	10	Mar-Aug	no	N/N
AST	<i>Arctotheca prostrata</i>	creeping capeweed	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Candlestick Pt., City College, Crocker Amazon, Ft. Mason, Glen Cyn., Golden Gate Park (Stow Lake, misc.), Lake Merced, Land's End, McLaren Park, the Marina Dist., the Presidio (Crissy Field, Doyle Dr. Natural Area, Dragonfly Cr., Ft. Point, Ft. Scott, Main Post, Officer's Row, Tennessee Hollow), SFSU, and the Sunset Dist. INVASIVE STATUS: M/—/—/—	h	a-p	Naturalized. Escape from cultivation, disturbed areas; Elevation: < 400 m.	18	Jan-Dec	no	N/N
CRY	<i>Arenaria paludicola</i>	marsh sandwort	Known from two collections (1868) at the Presidio (Ft. Point; Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1900. RARITY STATUS: FE/SE/IB.1	h	p	Erect to mat-forming. Wet meadows, marshes; Elevation: < 300 m. WET: OBL	0	May-Aug	no	Y/Y
AST	<i>Argyranthemum foeniculaceum</i>	Canary Is. marguerite	Recorded historically (1949) from Lake Merced and Twin Peaks (CCH); not included in Howell, <i>et al.</i> Reported from Ft. Funston and Yerba Buena Is. where it has become invasive on bluffs.	ss	p	Naturalized. Foliage scented. Escape from cultivation in disturbed coastal areas; Elevation: < 100 m.	2	Mar-Aug	no	N/N
AST	<i>Argyranthemum frutescens</i>	marguerite	[<i>Chrysanthemum</i> f.] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Not occurring in Cal. (JFP, 2021). Reported from Bernal Hts. Park and Glen Cyn.; needs verification.	h	p	Ornamental; not naturalized.	2	sum	no	N/N
PTR	<i>Argyrochosma limitanea</i> ssp. <i>limitanea</i>	southwestern false cloak fern	[<i>Chilanthus</i> l. var. <i>l.</i>] Known from a single 1900 collection from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF. Native Cal. taxon undoubtedly introduced to SF.	f	p	Rhizomatous. In crevices of desert mtns, especially bases of calcareous rocks; Elevation: 1800 m.	0	n/a	no	N/Y
ARS	<i>Aristolochia californica</i>	Cal. pipevine	Recorded historically (1892) from Brotherhood Way, Golden Gate Park (Strawberry Hill), Lake Merced, Pine Lake (Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way, Brooks Park, Golden Gate Park (Strawberry Hill), Laguna Honda Valley, Lake Merced, Sutro Forest, and Yerba Buena Is. Primary larval food plant for the Pipevine Swallowtail butterfly.	h-v	p	Generally climbing, Stream-sides, forest, chaparral; Elevation: < 700 m.	7	Jan-Apr	CA	Y/Y
PLB	<i>Armeria maritima</i> ssp. <i>californica</i>	common sea-pink	[<i>A.m.</i> var. <i>c.</i>] Reported historically (1877) from Golden Gate Hts., Lake Merced, the Presidio (Baker Beach), Sunset Hts., and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from Balboa Natural Area, Brooks Park, Cliff House, Ft. Funston, Golden Gate Park, Golden Gate Hts., Grandview Park, Heron's Head, Hawk Hill, Land's End, Laurel Hts., Lone Mt., Mt. Davidson, Ocean Beach, the Presidio (Baker Beach, Baker Beach n., Crissy Field, Horse Stables, Lobos Cr. Valley, Mountain Lake, Presidio Bluffs, Presidio Hills, sw. dunes, Tennessee Hollow), Rocky Outcrop, the Sea Cliff Dist., SFSU, and Sunset Hts.	h	p	Rhizomatous. Ocean bluffs, ridges, coastal strand, sand, exposed grassland; Elevation: < 245 m.	27	Feb-Sept	CA	Y/Y
POA	<i>Arrhenatherum elatius</i>	tall oatgrass	Known from a single 1917 collection from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF.	g	p	Naturalized. Cespitose, sometimes rhizomatous. Disturbed, open sites; Elevation: 30-1800 m. WET: UPL	0	May-Jul	no	N/N
AST	<i>Artemisia californica</i>	Cal. sagebrush	Recorded historically (1837) from Bayview Hills, Black Pt., Laguna Honda Valley, McLaren Park, Pt. Lobos, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	s	p	Coastal scrub, chaparral, open woodland; Elevation: < 800 m.	47	Aug-Nov	no	Y/Y
AST	<i>Artemisia douglasiana</i>	Douglas' mugwort	Recorded historically (1956) from Bayview Hills, the Embarcadero, Golden Gate Park, Laguna Honda Valley, Lake Merced, Mt. Davidson, and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	p	Rhizomatous. Open to shady areas, often in drainages; Elevation: < 2200 m. WET: FAC	29	May-Nov	no	Y/Y
AST	<i>Artemisia dracunculoides</i>	wild tarragon	Recorded historically (c. 1900) from Black Point (Ft. Mason), where it was presumed to have been introduced (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	h	p	Many habitats, especially disturbed sites; Elevation: < 3400 m. WET: FACU	0	Aug-Oct	no	N/Y
AST	<i>Artemisia pycnancephala</i>	coast sagewort	Recorded historically (1837) from Golden Gate Hts., Hawk Hill, Lake Merced, Laurel Hill Cemetery, Lone Mt., the Presidio (Baker Beach, Ft. Point, Lobos Cr. Valley), and Twin Peaks (Howell, <i>et al.</i> , CCH). Relatively common on sandy sites throughout the western edge of the city and the Presidio.	h	p	Mounding. Rocky or sandy soils, coastal strand; Elevation: < 200 m.	30	Jun-Sep	no	Y/Y

ANNOTATED CHECKLIST OF THE VASCULAR PLANTS OF SAN FRANCISCO

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon Underlined = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonymy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFW / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ^g	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC SF/Bay Area/CA	NATIVE - SF / CA
ARA	<i>Arum italicum</i>	Italian lords-and-ladies	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Buena Vista Park, China Beach, Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End, McLaren Park, the western base of Mt. Sutro, Palou-Phelps, Potrero Hill, the Presidio (Golf Course Natural Area, Lobos Cr. Valley, Lover's Lane, Presidio Hills, sw. dunes, Tennessee Hollow), Russian Hill, and the Sunset Dist.	h	p	Naturalized. Tuberous. Disturbed, generally shaded areas; Elevation: < 500 m.	17	Mar-Jun	no	N/N
POA	<i>Arundo donax</i>	giant river reed	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from near Candlestick Pt., Golden Gate Park, Land's End, the Presidio (Presidio Bluffs), and the Richmond Dist. INVASIVE STATUS: H/-/NW,B/-	g	P	Naturalized. Rhizomatous. Moist places, seeps, ditch banks; Elevation: < 1500 m. WET: FACW	4	Mar-Sep	no	N/N
ARS	<i>Asarum caudatum</i>	creeping wild ginger	Recorded historically (1870) from "SF" (possibly Lake Merced) and Golden Gate Park (Howell, <i>et al.</i> , CCH) Reported from Golden Gate Park and Lake Merced (Ochoa, 2001).	h	p	Rhizomatous. Moist places in forest; Elevation: < 2200 m. WET: FAC	2	Mar-May	no	Y/Y
APO	<i>Asclepias speciosa</i>	showy milkweed	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from College Hill and Seward Mini Park. Cal. native not considered indigenous to SF; native to the Bay Area.	h	p	Many habitats including fields, roadsides; Elevation: < 1900 m.	2	Jun-Jul	no	N/Y
ASG	<i>Asparagus asparagoides</i>	Cape smilax	Previously included in the Liliaceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Bayview Hill, the Presidio (Lobos Cr. Valley), and the Richmond Dist. INVASIVE STATUS: MA/-/-/-	v	p	Naturalized. Tuberous. Disturbed places, fields; Elevation: < 1700 m.	2	Dec-Apr	no	N/N
FAB	<i>Astragalus gambelianus</i>	Gambel's dwarf milk-vetch	Recorded historically (1883) from the Bayview Hills, Golden Gate Park, Hunters Pt., McLaren Park, Mission Dolores, Potrero Hills, and the Presidio (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Inspiration Pt., Pygmy Forest, Tennessee Hollow), the Richmond Dist., and Starr King.	h	a	Open, grassy areas, scrub; Elevation: < 1450 m.	4	Mar-Jul	no	Y/Y
FAB	<i>Astragalus nuttallii</i> var. <i>nuttallii</i>	ocean bluff milk-vetch	Recorded historically (1871) from "SF", Lake Merced, and Oceanview (CCH); not included in Howell, <i>et al.</i> Reported from the Presidio (Baker Beach n., Crissy Field, sw. dunes, WWII Memorial). Host plant for the Western Tailed-Blue butterfly. RARITY STATUS: -/-/4.2.	h	p	Generally prostrate or decumbent. Rock, sandy areas, bluffs; Elevation: < 250 m.	5	Jan-Nov	CA	Y/Y
FAB	<i>Astragalus nuttallii</i> var. <i>virgatus</i>	ocean bluff rattle-weed	[<i>A. crotalariae</i> var. <i>v.</i>] Reported historically (1853) from Brotherhood Way, Ft. Funston, Golden Gate Park, Lake Merced, Land's End (Pt. Lobos), Lone Mt., Oceanview, and the Presidio (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston; reintroduced at the Presidio (Crissy Field). SF is the type locality (isotype of <i>A. crotalariae</i> var. <i>virgatus</i>).	h	p	Ascending or erect, at coast prostrate or not. Sandy soil, bluffs; Elevation: < 150 m.	2	Jan-Dec	CA	Y/Y
FAB	<i>Astragalus tener</i> var. <i>tener</i>	alkali milk-vetch	[<i>A. tener</i>] Known from a single 1868 collection (as full species) at Mission Dolores (Howell, <i>et al.</i>, CCH). Extirpated; last collected in 1868. RARITY STATUS: -/-/1B.2	h	a	Alkaline flats, vernal moist meadows; Elevation: < 60 m. WET: FACW	0	Mar-Jun	CA	Y/Y
ATH	<i>Atyrium filix-femina</i> var. <i>cyclosorum</i>	common lady-fern	Previously included in the Woodsiaceae and Dryopteridaceae. Recorded historically (1863) from near Brotherhood Way, Laguna Honda Valley (Alms House), Lake Merced, Pine Lake, the Presidio (Lobos Cr. Valley, Mountain Lake), and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Crocker-Amazon Natural Area, Glen Cyn., Golden Gate Hts., Golden Gate Park (Strawberry Hill), Laguna Honda Valley, Land's End, Laurel Hts., Pine Lake, and the Presidio (Dragonfly Cr., Lobos Cr. Valley, Lyon's St. Plantation, Mountain Lake, Oak Study Area, Presidio Bluffs, Tennessee Hollow), SFSU, and Sutro Forest.	f	p	Rhizomatous. Woodland, along streams, seepage areas; Elevation: < 3200 m. WET: FAC	17	n/a	no	Y/Y
BRA	<i>Athyrium pusillus</i>	common sandweed	Recorded historically (1881) from Lake Merced, Mission Hills, se SF, and Sunset Hts. (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1896.	h	a	Grassy, open slopes, rocky outcrops, chaparral, flats, floodplains, cliffs, ledges; Elevation: < 2000 m.	0	Feb-Apr	no	Y/Y
CHN	<i>Atriplex argentea</i> var. <i>expansa</i>	Mojave silverscale	[<i>A. expansa</i> var. <i>mohavensis</i> ; Amaranthaceae, pending] Recorded historically (1955) from near Islais Cr. where it was presumably introduced (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	h	a	Saline soils; Elevation: < 1500 m. WET: FAC	0	Jun-Sept	no	N/Y
CHN	<i>Atriplex dioica</i>	spike saltbush	[<i>A. subspicata</i> ; Amaranthaceae, pending] Recorded historically (1956) from Golden Gate Park and the Presidio (Ft. Point; CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1974.	h	a	Moist, saline or alkaline soils; Elevation: < 200 m. WET: FAC	0	Jul-Nov	no	Y/Y
CHN	<i>Atriplex lentiformis</i>	big saltbush	[Amaranthaceae, pending] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Heron's Head Park and Pier 94; presumably planted or recently introduced. Planted at Heron's Head, Hunters Pt., Pier 94, and Yerba Buena Is.	s	p	Alkaline or saline washes, dry lakes, scrub; Elevation: < 1200 m. WET: FAC	4	Apr-Oct	no	N/Y
CHN	<i>Atriplex leucophylla</i>	beach saltwort	[<i>Obione</i> l.; Amaranthaceae, pending] Recorded historically (1891) from Ft. Funston, Land's End (Pt. Lobos), Ocean Beach, and the Presidio (Baker Beach; Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, Heron's Head, Ocean Beach, and the Presidio (Baker Beach, Baker Beach n., Crissy Field, Ft. Point) SF is the type locality (holotype of <i>Obione</i> l.)	h-ss	p	Prostrate to decumbent. Sandy soils, dunes; Elevation: < 60 m. WET: FAC	7	Apr-Oct	no	Y/Y
CHN	<i>Atriplex prostrata</i>	arrowleaf spearscale	[<i>A. triangularis</i> ; <i>A. hastata</i> ; <i>A. patula</i> ssp. <i>hastata</i> ; Amaranthaceae, pending] Recorded historically (c. 1955) from Bayview Hills, Golden Gate Park, Islais Cr., the Presidio (Ft. Point, Mountain Lake; Howell, <i>et al.</i>); there are no historic SF records in CCH. Reported from Candlestick Pt., Heron's Head Park, Hunters Pt., Land's End, Pier 94, the Presidio (Crissy Field, Mountain Lake, Presidio Bluffs), Sutro Baths, Treasure Is., and Yerba Buena Is.; expected elsewhere.	h	a	Naturalized. Wet places, marshes; Elevation: < 1300 m. WET: FACW	10	Apr-Oct	no	N/N
CHN	<i>Atriplex rosea</i>	redscale	[Amaranthaceae, pending] Recorded historically (1918) from near Islais Cr. (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h	a	Naturalized. Open, disturbed places, fields; Elevation: < 2500 m. WET: FACU	0	Jul-Oct	no	N/N

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CHN	<i>Atriplex semibaccata</i>	Australian saltbush	[Amaranthaceae, pending] Recorded historically (1957) from Hunters Pt. and near Islais Cr. (Howell, <i>et al.</i> , CCH). Reported from Heron's Head Park and Rocky Outcrop; expected elsewhere. INVASIVE STATUS: M/3/-/-	h-ss	p	Naturalized. Disturbed areas, scrub, woodland; Elevation: < 1000 m. WET: FAC	2	Apr-Dec	no	N/N
CHN	<i>Atriplex serena</i> var.	bractscale	[Amaranthaceae, pending] Recorded historically (1919) from Golden Gate Park and near Islais Cr. (Howell, <i>et al.</i> , CCH); presumably <i>A.s. var. s.</i> Last collected in 1957. There are no contemporary reports from SF. Not likely indigenous to SF.	h	a	Alkaline flats, coastal bluffs; Elevation: < 2100 m. WET: FAC	0	Apr-Oct	no	N/Y
CHN	<i>Atriplex</i> sp.	saltbush	[Amaranthaceae, pending] Reported (to genus) from Alemany Farm; needs id.	h-s	a-p	n/a	1	n/a	no	n/a
SOL	<i>Atropa bella-dama</i>	belladonna	Recorded historically (1957) from Golden Gate Park (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	h-s	p	Agricultural, garden, or urban weed. Disturbed places.	0	Aug-Sep	no	N/N
POA	<i>Avena barbata</i>	slender wild oat	Recorded historically (1940) from SF (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: M/3/-/-	g	a	Naturalized. Disturbed sites; Elevation: 40-1200 m.	56	Mar-Jun	no	N/N
POA	<i>Avena fatua</i>	common wild oat	Recorded historically (1940) from SF (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: M/3/-/-	g	a	Naturalized. Disturbed sites; Elevation: < 2400 m.	42	Apr-Jun	no	N/N
POA	<i>Avena sativa</i>	cultivated oats	Recorded historically (1953) from Golden Gate Park and Lake Merced (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Doyle Dr. Natural Area, Dragonfly Cr., Inspiration Pt., Julius Kahn Playground, Mountain Lake, Mountain Lake), se. SF, and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from McLaren Park; Presidio Bluffs, Presidio Hills, Res. Cultural Plantation, Rob Hill, WWII Memorial; expected elsewhere.	g	a	Naturalized. Disturbed sites; Elevation: < 2200 m. WET: UPL	10	Mar-May	no	N/N
AZL	<i>Azolla filiculoides</i> (r)	Pacific mosquito-fern	Recorded historically (1866) from Golden Gate Park, Lake Merced, Pine Lake, the Presidio (Lobos Cr. Valley, Mountain Lake), se. SF, and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from McLaren Park; reintroduced at the Presidio (Golf Course Natural Area, Lobos Cr. Valley, Mountain Lake).	f	p	Free-floating aquatic. Ponds, slow streams; Elevation: < 1300 m. WET: OBL	4	n/a	no	Y/Y
AZL	<i>Azolla microphylla</i>	Mexican mosquito-fern	[<i>A. mexicana</i>] Known from a single 1923 collection from Lake Merced (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1923. RARITY STATUS: -/-/4.2	f	p	Free-floating aquatic. Ponds, slow streams; Elevation: < 1200 m. WET: OBL	0	n/a	no	Y/Y
AST	<i>Baccharis glutinosa</i>	marsh baccharis	[<i>B. douglasii</i>] Recorded historically (1868) from Golden Gate Park, Laguna Honda Valley, Lake Merced, the Presidio, San Miguel Hills, Sigmund Stern Grove, and Visitación Valley (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Ft. Funston, the Presidio (Crissy Field, Inspiration Pt., Presidio Bluffs, Tennessee Hollow), and SFSU.	h	p	Rhizomatous. Coastal freshwater and saltwater marshes, stream-banks; Elevation: < 1200 m. WET: FACW	7	Jul-Oct	no	Y/Y
AST	<i>Baccharis pilularis</i> ssp. <i>consanguinea</i>	prostrate coyote-brush	[<i>B.p. var. c.</i>] Prostrate or dwarf form. Recorded historically (1900) from Bayview Hills, Corona Hts., Ft. Funston, Golden Gate Park, Laguna Honda Valley, Lone Mt., Potrero Hills, Russian Hill, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bernal Hts. Park, Brooks Park, Brotherhood Way, Ft. Mason, Glen Cyn., Heron's Head, Laguna Honda Valley, Lake Merced, Pier 94, the Presidio (Lobos Cr. Valley, Mountain Lake, Rob Hill), Starr King, Sutro Baths, Sutro Forest, and Twin Peaks; expected elsewhere.	s	ep	Prostrate, mat-forming. Coastal bluffs, woodland, grassland, disturbed sites, occasionally on serpentine; Elevation: < 1500 m.	16	Jul-Dec	no	Y/Y
AST	<i>Baccharis pilularis</i> ssp. <i>pilularis</i>	coyote brush	Recorded historically (1837) from throughout SF (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	s	ep	Shrub form. Sandy beaches, exposed coastal bluffs; Elevation: < 100 m.	74	Mar-Aug	no	Y/Y
AST	<i>Baccharis salicifolia</i> ssp. (r)	mule fat	Known (1853, as full species) from a single collection from "SF" (CCH); not included in Howell, <i>et al.</i> Presumably <i>B.s. ssp. s.</i> ; Extirpated; last collected in 1853. Reintroduced at Heron's Head and Hunters Pt. (India Basin Shoreline Park).	s	ep	Riparian woodland, canyon bottoms, disturbed sites, often forming thickets; Elevation: 30-2400 m. WET: FAC	2	May-Jun	no	Y/Y
POA	<i>Bambusa</i> sp.	ornamental bamboo	Reported (to genus) from Glen Cyn.; needs id.	g	p	Ornamental, garden escape; not naturalized.	1	n/a	no	N/N
BRA	<i>Barbarea orthoceras</i>	northern winter-cress	[<i>B. americana</i>] Recorded historically (1867) from Bayview Hills, Brotherhood Way, Golden Gate Park, Lake Merced, McLaren Park, Mission Dolores, Mt. Davidson, Mt. Sutro, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Glen Cyn., the Presidio (Crissy Bluffs, Doyle Dr. Natural Area), and Sutro Forest.	h	b-p	Damp meadows, wet rocks, stream-banks, moist woodland, grassland, scree, ledges; Elevation: < 3400 m. WET: FACW	5	Mar-Jul	no	Y/Y
BRA	<i>Barbarea verna</i>	early winter-cress	Recorded historically (1954) from Golden Gate Park (Stow Lake), Laguna Honda Valley, Lake Merced, Land's End, McLaren Park, Mt. Davidson, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Doyle Dr. Natural Area, Ft. Point)	h	p	Naturalized. Damp soils, fields, rocky outcrops, disturbed areas; Elevation: < 1600 m.	2	Mar-Jul	no	N/N
CHN	<i>Bassia hyssopifolia</i>	five-horn bassia	[Amaranthaceae, pending] Recorded historically (1956) from the shore of SF Bay, Hunters Pt., Islais Cr., se. SF (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF; to be expected. INVASIVE STATUS: L/-/-/-	h	a	Naturalized. Disturbed sites, fields, road-sides; Elevation: < 1200 m. WET: FACU	0	May-Nov	no	N/N
FAB	<i>Bauhinia monandra</i>	Napoleon's plume	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Ft. Funston.	t	ep	Ornamental; not naturalized.	1	win-sp	no	N/N
FAB	<i>Bauhinia variegata</i>	purple orchid tree	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Yerba Buena Is.	s/t	ep	Ornamental; not naturalized.	1	win-sp	no	N/N
ORO	<i>Bellardia trixago</i>	Mediterranean lineseed	Recorded historically (1946) from near City College, Lake Merced, and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from near Candlestick Pt., Crocker-Amazon Natural Area, Ft. Funston, Hunters Pt., McLaren Park, Pier 94, the Presidio (Lobos Cr. Valley), and Yosemite Slough; expected elsewhere. INVASIVE STATUS: L/-/-/-	h	a	Naturalized. Disturbed grassland; Elevation: < 710 m.	8	Apr-Jun	no	N/N

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AST	<i>Bellis perennis</i>	English daisy	Recorded historically (1950) from Ft. Mason, Golden Gate Park, Lone Mt., the Mission Dist., Pacific Hts., Pine Lake, the Presidio, Russian Hill, San Miguel Hills, and SFSU (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	p	Naturalized. Rhizomatous. Damp, grassy areas; Elevation: < 900 m.	50	Dec-Sep	no	N/N
BER	<i>Berberis aquifolium</i> var.	creeping Oregon grape	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. An unknown variety has been introduced at Buena Vista Park and Twin Peaks; reintroduced at Sutro Forest.	s	ep	Conifer forest; Elevation: 400-2300 m. SERP: 1.6	3	Mar-May	no	N/Y
BER	<i>Berberis darwinii</i>	Darwin's barberry	Recorded historically (c. 1950) from Sunset Hts. (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from College Hill, Golden Gate Park, Mt. Davidson, the Presidio (Ft. Scott), SFSU, Sutro Forest, and Telegraph Hill. INVASIVE STATUS: W/3/-/-	s	ep	Naturalized. Rhizomatous. Coastal conifer forest, disturbed areas; Elevation: 10-100 m.	7	Mar-Jun	no	N/N
BER	<i>Berberis pinnata</i> ssp. <i>pinnata</i>	shiny-leaf Oregon grape	Recorded historically (1888, as full species) from Bayview Hills, Lake Merced, McLaren Park, Mt. Davidson, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Tennessee Hollow, WWII Memorial), Tank Hill, and Twin Peaks; likely more common considering non-specific reports from Bayview Hill, Clarendon Hts., Glen Cyn., Interior Greenbelt, Mt. Davidson, O'Shaughnessy Hollow, and Sutro Forest.	s	ep	Rocky slopes, conifer forest, oak woodland, chaparral; Elevation: < 1900 m.	11	Feb-May	no	Y/Y
API	<i>Berula erecta</i>	cutleaf water parsnip	Recorded historically (1896) from Brotherhood Way and the Presidio (Ft. Point; Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1956.	h	p	Marshy areas, streams; Elevation: < 2000 m. WET: OBL	0	Jul-Aug	no	Y/Y
CHN	<i>Beta vulgaris</i> ssp.	common beet	[Amaranthaceae, pending] Recorded historically (1956, as full species) from SF, along the bay shore (Howell, <i>et al.</i> , CCH). Reported (as full species) from Heron's Head, Hunters Pt. and the Presidio (Crissy Field); presumably <i>B.v. ssp. maritima</i> which has naturalized in Cal.	h	p	Naturalized. Moist sandy places, disturbed areas; Elevation: < 300 m.	3	Jun-Jul	no	N/N
AST	<i>Bidens cernua</i>	nodding beggartick	Recorded historically (1892) from Lake Merced (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1913.	h	p	Freshwater wetlands; Elevation: < 2000 m. WET: OBL	0	Aug-Sep	no	Y/Y
AST	<i>Bidens laevis</i>	bur marigold	Known from a single 1863 collection from a swampy area in what is now SOMA (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1863.	h	p	Freshwater wetlands; Elevation: < 2000 m. WET: OBL	0	Aug-Sep	no	Y/Y
PIT	<i>Billardiera heterophylla</i>	bluebell creeper	Recorded historically (c. 1900) from Clarendon Hts. and Golden Gate Park (CCH); not included in Howell, <i>et al.</i> Reported from SFSU.	v	p	Naturalized. Disturbed areas; Elevation: < 200 m.	1	Apr-Nov	no	N/N
AST	<i>Blechnosperma nanum</i> var. <i>nanum</i>	common stickyseed	Recorded historically (1868) from Bayview Hills and se. SF (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill.	h	a	Open, grassy areas, often margins of seeps or vernal pools; Elevation: < 1500 m. WET: FACW	1	Jan-May	CA	Y/Y
CYP	<i>Bolboschoenus maritimus</i> ssp. <i>paludosus</i>	maritime or prairie bulrush	[<i>Scirpus m.; S. paludosus; Schoenoplectus m.</i>] Recorded historically (c. 1890) from Alemany Blvd., McLaren Park, s. SF, and Visitación Valley (Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way, Candlestick Pt., Hunters Pt. (India Basin), the Presidio (Crissy Field, Tennessee Hollow), and Sutro Baths.	g	p	Rhizomatous, tuberous, 0.5-2 m tall. Stems sharply 3-angled. Brackish to saline coastal, inland marshes, shores; Elevation: < 2900 m. WET: OBL	6	sum	no	Y/Y
CYP	<i>Bolboschoenus robustus</i>	sturdy bulrush	[<i>Scirpus r.; Schoenoplectus r.</i>] Known from a single 1860 collection from "near SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1860.	g	p	Rhizomatous, tuberous, 0.5-1.5 m tall. Stems sharply 3-angled. Brackish to saline coastal marshes; Elevation: + 0 m. WET: OBL	0	Aug-Sep	no	Y/Y
BOR	<i>Borago officinalis</i>	common borage	Recorded historically (1894) from the Embarcadero, Golden Gate Park, and the Presidio (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Alcatraz Is., Alemany Farm, Billy Goat Hill, Ft. Mason, Glen Cyn., Golden Gate Park, near Grandview Park, Hunters Pt., Laguna Honda Valley, McLaren Park, the Presidio (Baker Beach, Crissy Field, Golf Course Natural Area, Presidio Bluffs, Presidio Hills), the Richmond Dist., the Sunset Dist., and Visitación Valley.	h	a	Naturalized. Open, disturbed sites; Elevation: < 550 m.	15	Jun-Aug	no	N/N
API	<i>Bowlesia incana</i>	hoary bowlesia	Recorded historically (1878) from Golden Gate Park (Strawberry Hill), Lake Merced, Land's End (Pt. Lobos), Mission Hills, the Presidio, Potrero Hills, and se. SF (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1954.	h	a	Shade of trees, rocks, shrubs; Elevation: < 1400 m. WET: FAC	0	Mar-Apr	no	Y/Y
SAX	<i>Boykinia occidentalis</i>	coastal brookfoam	Known from a single 1893 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1893.	h	p	Rhizomatous. Shady wet banks; Elevation: < 1500 m. WET: FAC	0	Jun-Aug	no	Y/Y
POA	<i>Brachypodium distachyon</i>	purple false-brome	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Bernal Hts. Park, Fairmont Park, Hunters Pt., O'Shaughnessy Hollow, the Presidio (Inspiration Pt., Julius Kahn Playground), and Yerba Buena Is. INVASIVE STATUS: M/2/-/-	g	a-p	Naturalized. Loosely tufted. Disturbed areas, dry slopes; Elevation: < 900 m.	6	Apr-Jul	no	N/N
BRA	<i>Brassica fruticulosa</i>	Mediterranean cabbage	Recorded historically (1952) from the Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h	a-p	Naturalized. Disturbed areas, fields; Elevation: < 300 m.	0	Apr-Oct	no	N/N
BRA	<i>Brassica juncea</i>	brown mustard	Recorded historically (1956) from the Embarcadero, Golden Gate Park, and Mission Bay (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h	a	Naturalized. Disturbed areas, fields; Elevation: < 300 m. WET: FACU	0	Feb-Mar	no	N/N
BRA	<i>Brassica nigra</i>	annual black mustard	Recorded historically (1852) from the Embarcadero, Golden Gate Park, near Islais Cr. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: M/-/-/-	h	a	Naturalized. Disturbed areas, fields; Elevation: < 1500 m.	36	Apr-Sep	no	N/N
BRA	<i>Brassica oleracea</i>	cabbage	Recorded historically (1920) from Hunters Pt., near Islais Cr., Land's End (Pt. Lobos), the Presidio (Ft. Point), the Richmond Dist., and Visitación Valley (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h	b-p	Naturalized. Sea cliffs; Elevation: < 400 m.	0	May-Aug	no	N/N

ANNOTATED CHECKLIST OF THE VASCULAR PLANTS OF SAN FRANCISCO

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon Underlined = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonymy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFW / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ^g	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC SF/Bay Area/CA	NATIVE - SF / CA
BRA	<i>Brassica rapa</i>	common yellow mustard	[<i>B. campestris</i>] Recorded historically (1931) from Bayview Hills, the Embarcadero, Golden Gate Park, Islais Cr., the Mission Dist., Nob Hill, the Presidio (Ft. Point), the Richmond Dist., San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from 15th Ave. Steps, Bayview Hill, Bernal Hts. Park, Billy Goat Hill, Ft. Funston, Glen Cyn., Interior Greenbelt, Laguna Honda Valley, Lake Merced, McLaren Park, Pier 94, the Presidio (Ft. Point, Lobos Cr. Valley, Presidio Bluffs), and Twin Peaks. INVASIVE STATUS: L/1/—/—	h	a-b	Naturalized. Disturbed areas; Elevation: < 1500 m. WET: FACU	15	Jan-May	no	N/N
POA	<i>Briza maxima</i>	big quaking-grass	Recorded historically (1953) from Glen Cyn., Golden Gate Park (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: L/2/—/—	g	a	Naturalized. Shaded sites, road-sides, pastures, weedy on coastal dunes; Elevation: < 970 m.	59	Apr-Jul	no	N/N
POA	<i>Briza minor</i>	little quaking-grass	Recorded historically (1876) from Bayview Hills, Cliff House, the Embarcadero, Golden Gate Park, Lake Merced, Lone Mt., Mission Dolores, Mt. Davidson, the Presidio (Lobos Cr. Valley), San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	g	a	Naturalized. Shaded or moist, open sites; Elevation: 20-600 m. WET: FAC	28	Apr-Jul	no	N/N
THE	<i>Brodiaea elegans</i> ssp. <i>elegans</i>	elegant harvest brodiaea	Previously included in the Liliaceae. Recorded historically (1912) as rare from Bayview Hills and the Presidio (Howell, <i>et al.</i> , CCH). Reported (as full species) from Glen Cyn., Hunters Pt. Ridge, Palou-Phelps, the Presidio (Crissy Bluffs, Doyle Dr. Natural Area, Ft. Scott, Inspiration Pt., Lobos Cr. Valley, Tennessee Hollow, WWII Memorial); needs id. Presumably <i>B. e. ssp. elegans</i> .	gp	p	Corn-forming. Grassland, meadows, open woodland, chaparral, occasionally serpentine; Elevation: < 2430 m. WET: FACU	10	Apr-Aug	no	Y/Y
THE	<i>Brodiaea sierrae</i>	Sierra foothills brodiaea	Previously included in the Liliaceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. SF lies outside of the bioregion of this Cal. native species; not indigenous to SF. Introduced at Suto Forest. RARITY STATUS: —/—/4.3	gp	p	Corn-forming. Open areas in chaparral, foothill woodland (dry meadows), generally on soils derived from basic and ultramafic intrusive rocks; Elevation: 180-945 m. SERP: 1.7	1	Jun-Jul	no	N/Y
THE	<i>Brodiaea</i> sp.	brodiaea	Previously included in the Liliaceae. Reported (to genus) from Brooks Park, Interior Greenbelt; needs id.	gp	p	Corn-forming.	2	n/a	no	n/a
THE	<i>Brodiaea terrestris</i> ssp. <i>terrestris</i>	dwarf brodiaea	Previously included in the Liliaceae. Recorded historically (1928) from Alemany Blvd. and Hunters Pt. (CCH). Also recorded historically (as full species) from Bayview Hills, McLaren Park, Mt. Davidson, and Potrero Hills (Howell, <i>et al.</i>) Reported (as full species) from Bayview Hills, Bernal Hts. Park, Glen Cyn., Hunters Pt., McLaren Park, Mt. Davidson, O'Shaughnessy Hollow, the Presidio (Doyle Dr. Natural Area, Ft. Scott, Horse Stables, Inspiration Pt., Lobos Cr. Valley, Presidio Bluffs, Rob Hill), Starr King, Tank Hill, and Twin Peaks; presumably <i>B. t. ssp. t.</i>	gp	p	Corn-forming. Coastal prairie, foothill woodland; Elevation: < 450 m.	17	Apr-Jul	no	Y/Y
POA	<i>Bromus arizonicus</i>	Arizona brome	Known from a single 1882 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1882.	g	a	Open, disturbed places, fields; Elevation: < 2200 m.	0	Mar-Jun	no	Y/Y
POA	<i>Bromus berterianus</i>	Chilean chess	[<i>B. triinii</i>] Recorded historically (1956) from Potrero Hills and "SF" (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF; to be expected.	g	a	Naturalized. Open, sandy or gravelly soils; Elevation: < 1700 m.	0	Mar-Jun	no	N/N
POA	<i>Bromus carinatus</i> var. <i>carinatus</i>	Cal. brome	Recorded historically (1860) from Bayview Hills, Corona Hts., Forest Hill, Lake Merced, Lakeview/Ashton Mini Park, Lone Mt., Mt. Davidson, the Presidio (Baker Beach), San Miguel Hills, the Sunset Dist., Suto Forest, and Twin Peaks (CCH); not included in Howell, <i>et al.</i> Reported from Corona Hts. the Presidio (Crissy Bluffs, Golf Course Natural Area, Horse Stables, Inspiration Pt., Liggett St. Housing, Lyon St. Plantation, Oak Study Area, sw. dunes, Tennessee Hollow, WWII Memorial), and the Sunset Dist.	g	p	No data available.	11	Feb-Mar	no	Y/Y
POA	<i>Bromus carinatus</i> var. <i>marginatus</i>	mountain brome	[<i>B. breviaristatus</i> ; <i>B. carinatus</i> var. <i>m.</i> ; <i>B. luzonensis</i> ; <i>B. marginatus</i> ; <i>B. subvelutinus</i>] Recorded historically (1949) from Bayview Hills, Bernal Hts., Golden Gate Park, Hunters Pt., Lone Mt., Nob Hill, and the Presidio (Lobos Cr. Valley; Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1957.	g	p	Open slopes, meadows, forests; Elevation: < 3500 m.	0	Feb-Mar	no	Y/Y
POA	<i>Bromus catharticus</i> var.	rescue grass	Recorded historically (1928, as full species) from Embarcadero, Glen Cyn., Golden Gate Park, Lake Merced, Lone Mt., the Mission Dist., Sigmund Stern Grove, the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported (as full species) from Lake Merced, the Marina Dist., the Presidio (Doyle Dr. Natural Area, Dragonfly Cr., Ft. Point, Golf Course Natural Area, Horse Stables, Inspiration Pt., Mountain Lake, Presidio Hills, Simond's Loop, sw. dunes, WWII Memorial), Starr King, Suto Forest, and Twin Peaks.	g	a-p	Naturalized.	15	n/a	no	N/N
POA	<i>Bromus catharticus</i> var. <i>catharticus</i>	rescue grass	Recorded historically (1928, as full species) from Golden Gate Park, Lake Merced, the Mission Dist., the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Tennessee Hollow).	g	a-p	Naturalized. Open, disturbed places; Elevation: < 1500 m.	1	Feb-Mar	no	N/N
POA	<i>Bromus catharticus</i> var. <i>elatus</i>	rescue grass	[<i>B. stamineus</i>] Recorded historically (1953) from the Embarcadero, Lone Mt., Golden Gate Park, Mission Bay, San Miguel Hills, and Stern Grove (CCH); also recorded (as full species) Lake Merced, the Mission Dist., and the Sunset Dist. (Howell, <i>et al.</i>) Reported (as full species) from Lake Merced, the Marina Dist., the Presidio (Doyle Dr. Natural Area, Ft. Point, Golf Course Natural Area, Inspiration Pt., Mountain Lake, Presidio Hills, Simond's Loop, sw. dunes, WWII Memorial), Starr King, Suto Forest, and Twin Peaks.	g	a-p	Naturalized. Disturbed areas; Elevation: < 200 m.	1	Apr-Aug	no	N/N
POA	<i>Bromus commutatus</i>	meadow brome	Recorded historically (1956) from Golden Gate Park and near Islais Cr. (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF; to be expected.	g	a	Disturbed areas; Elevation: < 2200 m.	0	May-Jul	no	N/N

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POA	<i>Bromus diandrus</i>	ripgut brome	[<i>B. rigidus</i>] Recorded historically (1897) from Bayview Hills, the Embarcadero, Golden Gate Park, Lake Merced, Lone Mt., Mission Bay, Mt. Davidson, Nob Hill, the Presidio (Lobos Cr. Valley), San Miguel Hills, and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH, Eastwood [1898]). Reported from throughout the city and the Presidio. INVASIVE STATUS: M/2/-/-	g	a	Naturalized. Open, generally disturbed areas; Elevation: < 2170 m.	72	Feb-Jul	no	N/N
POA	<i>Bromus hordeaceus</i>	soft chess brome	[<i>B. mollis</i> ; <i>B. mollis</i> ssp. <i>thominei</i>] Recorded historically (1896) from Bayview Hills, Brotherhood Way, Fisherman's Wharf, Golden Gate Park, Laguna Honda Valley, Lake Merced, Lone Mt., Mission Bay, Mt. Davidson, the Presidio, San Miguel Hills, and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: L/3/-/-	g	a	Naturalized. Fields, disturbed areas; Elevation: < 1000(2560) m. WET: FACU	49	Apr-Jul	no	N/N
POA	<i>Bromus laevipes</i>	smooth-stem brome	Known from a single 1866 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Reported from Glen Cyn. and the Presidio (Rob Hill).	g	p	Shrubland, conifer forest, shaded stream-banks, road-sides; Elevation: < 2500 m. SERP: 1.7	2	May-Jul	no	Y/Y
POA	<u><i>Bromus madritensis</i></u>	compact brome	[<i>B. m.</i> ssp. <i>m.</i>] Recorded historically (1935) from Golden Gate Park and Lake Merced (Howell, <i>et al.</i> , CCH). Reported from Pier 94 and the Presidio (Crissy Field, Ft. Point, Presidio Bluffs, WWII Memorial); expected elsewhere.	g	a	Naturalized. Disturbed areas, road-sides; Elevation: < 2200 m. WET: UPL	5	Feb-Jun	no	N/N
POA	<u><i>Bromus maritimus</i></u>	Cal. coastal brome	[<i>B. carinatus</i> var. <i>m.</i>] Recorded historically (1896) from Golden Gate Park, Lake Merced, Land's End (Pt. Lobos), Lone Mt., the Presidio, Sunset Dist., and Sunset Hts. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	g	p	Dunes, coastal meadows; Elevation: < 200 m.	25	Apr-Jul	no	Y/Y
POA	<i>Bromus racemosus</i>	smooth brome	Recorded historically (1896) from Golden Gate Park and the Presidio (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF.	g	a	Naturalized. Disturbed areas, road-sides; Elevation: 60-1850 m.	0	May-Jul	no	N/N
POA	<i>Bromus rubens</i>	red brome	[<i>B. madritensis</i> ssp. <i>rubens</i>] Recorded historically (1929) from Bayview Hills, the Embarcadero, near Islais Cr., Lake Merced, and Mission Bay (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Lake Merced, the Presidio (Baker Beach, Crissy Bluffs, Crissy Field), Twin Peaks, and Yerba Buena Is.; expected elsewhere. INVASIVE STATUS: H/-/-/-	g	a	Naturalized. Disturbed areas, road-sides; Elevation: < 3050 m.	7	Feb-Jun	no	N/N
POA	<i>Bromus sitchensis</i> var. <i>carinatus</i>	Cal. brome	[<i>B. carinatus</i>] Reported historically (1860) from Bayview Hills, Corona Hts., Lake Merced, Lakeview/Ashton Mini Park, Land's End, Lone Mt., Mission Hills, Mt. Davidson, Nanny Goat Hill, the Presidio (Baker Beach), San Miguel Hills, Sutro Forest, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	g	p	Coastal prairies, openings in chaparral, plains, open oak and pine woodland; Elevation: < 3500 m.	55	Apr-Aug	no	Y/Y
POA	<i>Bromus sitchensis</i> var. <i>polyanthus</i>	Great Basin brome	[<i>B. polyanthus</i>] Known from a single 1950 collection in Lower Hayes Valley (CCH); not included in Howell, <i>et al.</i> Not indigenous to SF.	g	p	Open slopes, meadows; Elevation: 1200-3100 m.	0	Aug-Dec	no	N/Y
POA	<i>Bromus sterilis</i>	poverty brome-grass	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Lake Merced and the Presidio (Inspiration Pt., WWII Memorial).	g	a	Naturalized. Open, disturbed areas; Elevation: < 1100 m.	3	Mar-Jun	no	N/N
POA	<u><i>Bromus tectorum</i></u>	cheatgrass	Recorded historically (1954) from the Embarcadero, near Islais Cr., and the Sea Cliff Dist. (Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park and the Presidio (Tennessee Hollow); expected elsewhere. INVASIVE STATUS: H/-/C/-	g	a	Naturalized. Open, disturbed areas; Elevation: < 3400 m.	2	May-Jun	no	N/N
CUC	<u><i>Brayonia dioica</i></u>	wild hop	[<i>B. cretica</i> ssp. <i>dioica</i> , pending] Recorded historically (1957) from Golden Gate Park (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h-v	p	Garden escape; not naturalized.	0	sum	no	N/N
SCR	<i>Buddleja davidii</i>	butterfly bush	Previously included in the Buddlejaceae. Recorded historically (1957) from Brotherhood Way and Golden Gate Park (Howell, <i>et al.</i> , CCH). Reported from Billy Goat Hill, Ft. Mason, Glen Cyn., the Presidio (Inspiration Pt., Presidio Hills), Twin Peaks, and Yerba Buena Is.; expected elsewhere. INVASIVE STATUS: W/-/-/-	s	dp	Naturalized. Disturbed, generally more-or-less damp soil; Elevation: < 200 m. WET: FACU	7	May-Sep	no	N/N
ASP	<i>Bulbine frutescens</i>	wild kopieva	Previously included in the Liliaceae. Not included in Howell, <i>et al.</i> and there are no historic SF records in SF. Recorded from Hunters Pt. and the Inner Sunset Dist.	h-s	p	Garden escape, waif; not naturalized. Low, erect succulent shrub.	1	sp	no	N/N
BRA	<u><i>Cakile edentula</i></u>	American sea-rocket	[incl. <i>C. e.</i> ssp. <i>californica</i>] Recorded historically (1893) from Cliff House, Ft. Mason, Golden Gate Park, Ocean Beach, and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from China Beach, Ft. Funston, Heron's Head Park, Lake Merced, Ocean Beach, Pier 94, and the Presidio (sv. dunes).	h	a	Naturalized. Fleshy, ascending to erect. Beach dunes; Elevation: < 50 m. WET: FACU	7	May-Nov	no	N/N
BRA	<u><i>Cakile maritima</i></u>	European sea-rocket	Recorded historically (1941) from Ft. Funston, Golden Gate Park, near Islais Cr., Lake Merced, Land's End, the Marina Dist., Ocean Beach, the Presidio (Crissy Field, Lobos Cr. Valley), se. SF, and Sunset Dist. dunes, (Howell, <i>et al.</i> , CCH). Reported from Candlestick Pt., Ft. Funston, Golden Gate Park, Hunters Pt., Lake Merced, Land's End, Ocean Beach, Pier 94, the Presidio (Baker Beach, Baker Beach n., Crissy Field, Ft. Point, Lobos Cr. Valley, Rob Hill), Sea Cliff, Sutro Baths, Tank Hill, Treasure Is., and Yerba Buena Is. INVASIVE STATUS: L/3/-/-	h	a	Naturalized. Prostrate or mound-forming to erect. Beach dunes; Elevation: < 100 m. WET: FAC	19	May-Nov	no	N/N
POA	<u><i>Calamagrostis nutkanaensis</i></u>	Pacific reed grass	Recorded historically (1866) from "SF" and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Edgehill Mt., Interior Greenbelt, McLaren Park, Mt. Davidson, O'Shaughnessy Hollow, the Presidio (Mountain Lake, Presidio Bluffs), Sutro Forest, Tank Hill, and Twin Peaks.	g	p	Wet areas, beaches, dunes, coastal woodland, inland marshes; Elevation: < 1070 m. WET: FACW	10	May-Aug	no	Y/Y

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MON	<i>Calandrinia menziesii</i>	red-maids	<i>[C. ciliata var. menziesii, misappl; not occurring in Cal. (JFP, 2021)]</i> Previously included in the Portulacaceae. Recorded historically (1894) from the Bayview Hills, Golden Gate Park, Hunters Pt., Lake Merced, Mt. Davidson, Potrero Hills, the Presidio, and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, Glen Cyn., Golden Gate Hts., Grandview Park, Hunters Pt. Ridge, Mt. Davidson, the Presidio (Doyle Dr. Natural Area, Ft. Scott, Golf Course Natural Area, Inspiration Pt., Lobos Cr. Valley, Presidio Bluffs, Presidio Hills, Rob Hill, sw. dunes, Tennessee Hollow, WWII Memorial), Rocky Outcrop, Sunset Dist., and Twin Peaks.	h	a	Sandy to loamy soil, grassy areas, cultivated fields; Elevation: < 2200 m. WET: FACU	19	Feb-May	no	Y/Y
AST	<i>Calendula arvensis</i>	field marigold	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from throughout the city and the Presidio.	h	a	Naturalized. Escape from cultivation in disturbed areas, sometimes established from seed mixes; Elevation: < 200 m.	20	Mar-Apr	no	N/N
AST	<i>Calendula officinalis</i>	pot marigold	Recorded historically (1954) from the Richmond Dist. (Howell, <i>et al.</i> , CCH). Reported from Bernal Hts. Park, Brotherhood Way, Candlestick Pt., Clarendon Hts., Golden Gate Hts., Golden Gate Park (Stow Lake, misc.), McLaren Park, and the Presidio (Presidio Bluffs).	h	a	Naturalized. Escape from cultivation in disturbed areas, occasionally from seed mixes; Elevation: < 500 m.	9	Mar-May	no	N/N
GER	<i>California macrophylla</i>	round-leaved filaree	<i>[Erodium macrophyllum; E.m. var. californicum]</i> Known from a single 1868 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1868.	h	a-b	Open sites, grassland, scrub, vertic clay, occasionally serpentine; Elevation: < 1200 m.	0	Mar-Jul	no	Y/Y
PTG	<i>Callitriche marginata</i>	Cal. water starwort	Previously included in the Callitricheaceae. Known from a single collection (c. 1880) at the Presidio (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1880.	h	a	Aquatic, becoming stranded (often in vernal pools); Elevation: < +/- 1500 m. WET: OBL	0	Feb-Mar	CA	Y/Y
CUP	<i>Calocedrus decurrens</i>	Cal. incense-cedar	<i>[Libocedrus d.]</i> Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Corona Hts., Glen Cyn. and Suto Forest. Native CA species not indigenous to SF.	t	ep	Mixed-evergreen, yellow-pine forests; Elevation: 350-2500 m. SERP: 3.0	3	n/a	no	N/Y
LIL	<i>Calochortus luteus</i>	gold nuggets Mariposa lily	Recorded historically (1868) from Hunters Pt. Ridge and Potrero Hills (Howell, <i>et al.</i> , CCH). Reported from Hunters Pt. and McLaren Park, and Starr King.	gp	p	Bulb-forming. Heavy soils in grassland, woodland, mixed-evergreen forest; Elevation: < 700 m.	3	Apr-Jun	CA	Y/Y
RAN	<i>Caltha palustris</i>	marsh-marigold	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Golden Gate Park.	h	p	Naturalized. Roadside bogs, edges of marshes, swamps, lakes, streams; Elevation: 900-3300 m. WET: OBL	1	Apr-Jul	no	N/N
CAL	<i>Calycanthus occidentalis</i> ssp.	western sweet-shrub	Not included in Howell, <i>et al.</i> and there are no SF records in CCH; not indigenous to SF. Reported from Glen Cyn. where it was likely planted.	s	dp	Moist, shady places, canyons, stream-sides; Elevation: generally < 1500 m. WET: FAC	1	Mar-Aug	CA	N/Y
CNV	<i>Calystegia macrostegia</i> ssp.	island morning glory	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported (as full species) from Fairmont Park, the Presidio (Ft. Scott), Suto Forest, and Twin Peaks. Presumably <i>C.m. ssp. cyclostegia</i> . SF is at the northern limits of its range.	h-ss	p	From woody caudex. Coastal scrub; Elevation: < 350 m.	4	Feb-Jul	no	N/Y
CNV	<i>Calystegia occidentalis</i>	western morning-glory	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported (as full species) from Bayview Hills, Bernal Hts. Park, Glen Cyn., Laguna Honda Valley, McLaren Park, Suto Forest, and Twin Peaks; needs id.	h	p	From woody caudex. Dry slopes, chaparral, pine woodland; Elevation: < 1200 m.	7	May-Jul	no	Y/Y
CNV	<i>Calystegia purpurata</i> ssp. <i>purpurata</i>	purple Cal. morning-glory	<i>[Comvolvulus occidentalis var. purpuratus]</i> Recorded historically (1892) from Laguna Honda Valley, Lake Merced, Land's End, Mt. Davidson, Mt. Suto, the Presidio (Ft. Point, Presidio Bluffs), San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	p	From woody caudex, strongly climbing. Chaparral, coastal scrub; Elevation: < 300 m.	26	May-Jun	CA	Y/Y
CNV	<i>Calystegia soldanella</i>	seashore morning-glory	<i>[Comvolvulus s.]</i> Known from a single 1899 collection on the w. shores of the Presidio (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, Ocean Beach, and the Presidio (Baker Beach, Baker Beach n., Crissy Field).	h	p	Rhizomatous. Sandy seashores, coastal strand; Elevation: < 50 m.	5	Apr-Aug	no	Y/Y
CNV	<i>Calystegia subacaulis</i> ssp. <i>subacaulis</i>	stemless morning-glory	<i>[Comvolvulus s.]</i> Recorded historically (1905) from Bayview Hills, Corona Hts., Hunters Pt., McLaren Park, Mt. Davidson, Potrero Hills, and the Presidio (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, Billy Goat Hill, Corona Hts., Crocker-Amazonn Natural Area, Glen Cyn., Hunters Pt. Ridge, Kite Hill, Laguna Honda Valley, McLaren Park, O'Shaughnessy Hollow, Potrero Hill, the Presidio (Crissy Bluffs, Inspiration Pt., sw. dunes), Starr King, and Twin Peaks.	h	p	Rhizomatous. Dry, open scrub or woodland; Elevation: < 500 m.	17	Apr-Jun	CA	Y/Y
ONA	<i>Camissonia contorta</i> (r)	contorted sun-cup	<i>[Oenothera c.]</i> Recorded historically (1914) from Golden Gate Park, Lake Merced, Lone Mt., the Presidio (Baker Beach, Golf Course, Mountain Lake), the Richmond Dist., and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1990. Reportedly reintroduced at the Presidio (Presidio Hills, WWII Memorial); status uncertain.	h	a	Sandy soil, slopes, flats, often disturbed, grassland, chaparral, pinyon/juniper woodland; Elevation: < 2300 m.	2	May-Jun	no	Y/Y
ONA	<i>Camissonia strigulosa</i>	strigose sun-cup	<i>[Oenothera contorta var. s.; Oenothera s.]</i> Recorded historically (1893) from Golden Gate Park, Lake Merced, and the Presidio (Baker Beach, Crissy Field, Golf Course, Lobos Cr. Valley; CCH); not included in Howell, <i>et al.</i> Reported from Ft. Funston, the Presidio (Battery Dynamite, Crissy Field, Golf Course Natural Area, Lobos Cr. Valley, Mountain Lake, Presidio Bluffs, Presidio Hills, Pygmy Forest, Rob Hill, sw. dunes), Ocean Beach, and Rocky Outcrop	h	a	Open sandy soils of dunes, grassland, desert scrub; Elevation: < 2100 m.	13	Mar-May	no	Y/Y

ANNOTATED CHECKLIST OF THE VASCULAR PLANTS OF SAN FRANCISCO

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ONA	<i>Camissoniopsis cheiranthifolia</i> ssp. <i>cheiranthifolia</i>	beach sun-cup	[<i>Camissonia</i> c. ssp. c., <i>Oenothera</i> c.] Recorded historically (1881) from Golden Gate Park, Lake Merced, Land's End, Lone Mt., Mt. Sutro, the Presidio (Baker Beach), the Richmond Dist., and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from Balboa Natural Area, Ft. Funston, Golden Gate Hts., Grandview Park, Hawk Hill, Heron's Head, Lake Merced, Land's End, Ocean Beach, the Presidio (Baker Beach, Baker Beach n., Crissy Field, Ft. Point, Ft. Scott, Golf Course Natural Area, Liggett St. Housing, Lobos Cr. Valley, Presidio Bluffs, Presidio Hills, Rob Hill, sw. dunes, Tennessee Hollow, WWII Memorial), Rocky Outcrop, and Sutro Baths.	h	p	Sandy slopes, flats, coastal dunes; Elevation: < 100 m.	25	Apr-Aug	no	Y/Y
ONA	<i>Camissoniopsis cheiranthifolia</i> ssp. <i>suffruticosa</i>	beach sun-cup	[<i>Camissonia</i> c. ssp. s.] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. SF is the northernmost station; plants here may have been misidentified or represent introductions. Not expected to be indigenous to SF. Reported from Ft. Funston, Glen Cyn., and the Presidio (Crissy Field, Wherry Dunes); needs confirmation. INVASIVE STATUS: -/2/-/-	ss	p	Sandy slopes, flats, coastal dunes; Elevation: < 100 m.	4	Apr-Aug	no	N/Y
ONA	<i>Camissoniopsis hirtella</i>	hairy sun cup	[<i>Camissonia</i> h.] Known from a single 1935 collection from Lake Merced (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1935.	h	a	Open shrubby slopes, especially in burns; Elevation: < 2300 m.	0	Apr-Jun	no	Y/Y
ONA	<i>Camissoniopsis micrantha</i>	miniature sun-cup	[<i>Camissonia</i> m.; <i>Oenothera</i> m.] Recorded historically (1890) from Golden Gate Park, Lake Merced, Land's End, and the Presidio (Baker Beach; Howell, <i>et al.</i> , CCH). Reported from Ft. Funston and the Presidio (Baker Beach, Baker Beach n., Crissy Field, Golf Course Natural Area, Lobos Cr. Valley, Presidio Hills, Rob Hill, sw. dunes, WWII Memorial).	h	a	Canyons, coastal dunes, beaches, sandy fields, washes; Elevation: < 300(800) m.	10	Mar-May	no	Y/Y
BRA	<i>Capsella bursa-pastoris</i>	shepherd's-purse	Recorded historically (1877) from Bayview Hills, Golden Gate Park, Lake Merced, Mt. Davidson, Nob Hill, the Presidio (Mountain Lake), the Richmond Dist., and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a	Naturalized. Disturbed areas; Elevation: < 2800 m. WET: FACU	23	Jan-Oct	no	N/N
BRA	<i>Cardamine californica</i>	milk-maids	[Incl. C.c. vars., <i>Dentaria</i> c. vars., and <i>Dentaria integrifolia</i> var. c.] Recorded historically (1895) from Bayview Hills, Brotherhood Way, Laguna Honda Valley, Land's End, McLaren Park, Mt. Sutro, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts., Brotherhood Way, Corona Hts., Dorothy Erskine Park, Glen Cyn., Interior Greenbelt, Laguna Honda Valley, Mt. Davidson, O'Shaughnessy Hollow, the Presidio (Doyle Dr. Natural Area, Dragonfly Cr., Inspiration Pt., Lobos Cr. Valley, Presidio Bluffs, WWII Memorial), Sutro Forest, Tank Hill, and Twin Peaks. Host plant for the Pacific Orange-tip and Margined White butterflies.	h	p	Rhizomatous. Generally shaded sites, canyons, woodland; Elevation: < 1400 m.	19	Jan-May	no	Y/Y
BRA	<i>Cardamine flexuosa</i>	woodland bittercress	[Pending: probable addition to TJM; <i>C.h. ssp. f.</i>] Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Interior Greenbelt and SFSU. Possibly confused with <i>C. hirsuta</i> .	h	a-b-p	Probably naturalized. WET: FACU	2	Apr-Jul	no	N/N
BRA	<i>Cardamine hirsuta</i>	hairy bittercress	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Alcatraz Is., Ft. Mason, Golden Gate Park (Strawberry Hill, misc.), Interior Greenbelt, Laguna Honda Valley, Lake Merced, Lone Mt. the Presidio (Ft. Scott, Lobos Cr. Valley), the Sea Cliff Dist., Sutro Forest, and Twin Peaks. Possibly under-reported and mistaken as <i>C. oligosperma</i> .	h	a	Naturalized. Disturbed areas, road-sides, fields; Elevation: < 800 m. WET: FACU	12	Feb-Jul	no	N/N
BRA	<i>Cardamine oligosperma</i>	little western bitter-cress	Recorded historically (1867) from Brotherhood Way, Golden Gate Park (Mallard Lake), Lake Merced, McLaren Park, Mt. Davidson, Mt. Sutro, Oceanview, the Presidio, the Richmond Dist., Russian Hill, San Miguel Hills, Sunset Dist. dunes, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and Presidio. Potentially over-reported and mistaken for <i>C. hirsuta</i> .	h	a-b	Wet meadows, shady banks, damp areas; Elevation: 50-3300 m. WET: FAC	27	Mar-Jul	no	Y/Y
CRY	<i>Cardionema ramosissimum</i>	beach sand-mat	[<i>Pentacaena ramosissima</i>] Recorded historically (1853) from Bayview Hills, Cliff House, Golden Gate Park, Lake Merced, Lone Mt., McLaren Park, Mt. Davidson, Nanny Goat Hill, Nob Hill, the Presidio (Baker Beach), Sunset Hts., and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	p	Prostrate. Sandy beaches, hills, dunes, bluffs; Elevation: < 400 m.	28	sp-esum	no	Y/Y
AST	<i>Carduus pycnocephalus</i> ssp. <i>pycnocephalus</i>	Italian thistle	Recorded historically (1920) from Golden Gate Park, the Marina Dist., and McLaren Park (CCH); also recorded (as full species) from Bayview Hills, Islais Cr., Mission Bay, and Telegraph Hill (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: M/1/C/-	h	a	Naturalized. Road-sides, pastures, disturbed areas; Elevation: < 1200 m.	60	May-Jun	no	N/N
AST	<i>Carduus tenuiflorus</i>	slender-flowered thistle	Recorded historically (1932) from Golden Gate Park, Islais Cr., Lake Merced, Mission Bay, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Candlestick Pt., Corona Hts., Glen Cyn., the Presidio (Baker Beach), and Twin Peaks; expected elsewhere. INVASIVE STATUS: L/-/NW,C/-	h	a	Naturalized. Road-sides, pastures, disturbed areas; Elevation: < 1000 m.	5	Apr-Aug	no	N/N
CYP	<i>Carex aquatilis</i> var. (r)	water sedge	[<i>C. sitchensis</i>] Recorded historically (c. 1890, as full species) from Lake Merced and the Presidio (Lobos Cr. Valley; CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1892. Reintroduced at the Presidio (Lobos Cr. Valley). Needs id; within bioregional range of <i>C.a. var. dives</i> .	g	p	Rhizomatous; not cespitose. Wet meadows, shores, fresh water; Elevation: < 1100 m. WET: OBL	1	Jun-Sept	no	Y/Y
CYP	<i>Carex barbarae</i>	Santa Barbara sedge	Recorded historically (1882) from Bayview Hills, Brotherhood Way, Lake Merced, Mt. Davidson, Oceanview, San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way, Glen Cyn. and Yerba Buena Is. (USCG property); reintroduced at Sutro Forest.	g	p	Rhizomatous; not cespitose. Seasonally wet places; Elevation: < 1000 m. WET: FAC	4	May-Aug	no	Y/Y
CYP	<i>Carex bolanderi</i>	Bolander's sedge	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Doyle Dr. Natural Area). SF lies within the bioregion for the species; considered indigenous to SF based on records from San Mateo and Marin cos. Voucher specimen needed.	g	p	Densely to loosely cespitose. Moist meadows, springs, shores, forest; Elevation: < 2500 m. WET: FAC	1	May-Aug	no	Y/Y

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CYP	<u>Carex brevicaulis</u>	berm sedge	Recorded historically (1937) from Bayview Hills, Brotherhood Way, Lake Merced, Lone Mt., McLaren Park, Mt. Davidson, the Presidio, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, Corona Hts., Golden Gate Hts., Grandview Park, the Presidio (Battery Dynamite, Crissy Bluffs, Doyle Dr. Natural Area, Presidio Bluffs, Rob Hill, WWII Memorial), Rocky Outcrop, and Suto Forest.		p	Short-rhizomed, forming dense turf. Coastal dunes, headlands, rocky or sandy soil; Elevation: < 400 m.	15	Apr-May	no	Y/Y
CYP	<u>Carex comosa</u>	bristly sedge	Known from two 1866 collections at "SF" (Howell, <i>et al.</i>, CCH). Extirpated; last collected in 1866. RARITY STATUS: —/—2B.1	h	p	Loosely cespitose. Wet places; Elevation: < 400 m. WET: OBL	0	May-Sep	no	Y/Y
CYP	<u>Carex cusickii</u>	Cusick's sedge	Known from a single undated (c. 1870) collection from "SF" (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1870.	g	p	Cespitose. Shores, peatland, fens; Elevation: < 2100 m. WET: OBL	0	Jun-Sep	no	Y/Y
CYP	<u>Carex densa</u>	dense sedge	Recorded historically (1934) from Bayview Hills, McLaren Park, the Presidio, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from McLaren Park and the Presidio (Doyle Dr. Natural Area, Ft. Scott, Tennessee Hollow).	g	p	Cespitose. At least seasonally wet meadows, springs, shores; Elevation: < 1500 m. WET: OBL	4	Apr-Jul	no	Y/Y
CYP	<i>Carex divulsa</i> ssp. <i>divulsa</i>	gray sedge	Not in Howell, <i>et al.</i> and there are no SF records in CCH. Reportedly planted in Golden Gate Park at Cal. Academy of Sciences.	g	p	Naturalized. Cespitose. Watercourses, roadsides; Elevation: < 200 m. WET: FAC	1	sum	no	N/N
CYP	<u>Carex glohosa</u>	round fruit sedge	Recorded historically (1937) from the Presidio and Suto Forest (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1937.	g	p	Loosely cespitose. Well-drained soil of wooded areas, edges; Elevation: < 1800 m.	0	Apr-Jun	CA	Y/Y
CYP	<i>Carex gracilior</i>	slender sedge	Recorded historically (1957) from Golden Gate Park, Mt. Davidson, and the Presidio (on serpentine; Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1957.	g	p	Densely cespitose. Grassland, creek banks, open forest, at least seasonally moist soil; Elevation: < 850 m.	0	Apr-Jun	CA	Y/Y
CYP	<u>Carex harfordii</u>	Harford's sedge	[<i>C. montenensis</i>] Recorded historically (1862) from Bayview Hills, Golden Gate Park, Laguna Honda Valley, Lone Mt., Mt. Suto, and the Presidio (Ft. Point, Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from the Presidio (Mountain Lake, Presidio Hills), Suto Forest, and Yerba Buena Is.	g	p	Densely cespitose. Wet or seasonally wet shores, meadows, open forest; Elevation: < 900 m. WET: OBL	4	Feb-Sep	CA	Y/Y
CYP	<i>Carex lenticularis</i> var. <i>lipocarpa</i>	fat-fruited sedge	Known from a single 1863 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Native Cal. taxon but not considered indigenous here; SF occ. represents an extreme range extension.	g	p	Cespitose. Wet places; Elevation: < 3600 m. WET: OBL	0	May-Jun	CA	N/Y
CYP	<i>Carex microptera</i>	small-wing sedge	Known from a single 1882 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Native Cal. taxon but not considered indigenous here; SF occ. represents an extreme range extension.	g	p	Densely cespitose. Meadows, open forest; Elevation: 1500-3400 m. WET: FAC	0	May-Jun	CA	N/Y
CYP	<u>Carex nudata</u>	naked sedge	Known from a single 1866 collection from "SF" (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1866. Reportedly planted at a home in the Mission Dist.	g	p	Cespitose. Rocky or sandy stream-beds below high-water mark; Elevation: < 1600 m. WET: FACW	0	Apr-Jul	no	Y/Y
CYP	<i>Carex obnupta</i>	coast slough sedge	Recorded historically (1891) from Golden Gate Park (Chain-of-Lakes), Lake Merced, and the Presidio (Lobos Cr. Valley; Howell, <i>et al.</i> , CCH). Reported from the Presidio (Baker Beach n., Crissy Bluffs, Crissy Field, Doyle Dr. Natural Area, Dragonfly Cr., Ft. Scott, Golf Course Natural Area, Lobos Cr. Valley, Mountain Lake, Presidio Bluffs, Presidio Hills, Tennessee Hollow).	g	p	Rhizomatous. Moist openings, shores, redwood forest; Elevation: < 1100 m. WET: OBL	12	Jun-Sep	no	Y/Y
CYP	<i>Carex pachystachya</i>	Chamisso sedge	Recorded historically (1882) from the Presidio (Mountain Lake; CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1937.	g	p	Densely cespitose. Dry to wet meadows, shores, open forest; Elevation: 75-3500 m. WET: FAC	0	May-Jun	no	Y/Y
CYP	<u>Carex parva</u>	sand dune sedge	Known from a single 1938 collection from Bayview Hills (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1938.	g	p	Rhizomatous. Coastal sand; Elevation: < 10 m. WET: FACU	0	Apr-Jul	no	Y/Y
CYP	<i>Carex pendula</i>	hanging sedge	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Golden Gate Park and SF Zoo. INVASIVE STATUS: W/—/—/—	g	p	Naturalized. Cespitose. Moist forest, waterways; Elevation: < 500 m. WET: FAC	1	Apr-Jun	no	N/N
CYP	<u>Carex praegracilis</u>	clustered field sedge	Recorded historically (1882) from SF (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn.	g	p	Rhizomatous. Often alkaline, more-or-less moist places; Elevation: < 2700 m. WET: FACW	1	Apr-Aug	no	Y/Y
CYP	<i>Carex simulata</i>	short-beaked sedge	Known from a single 1882 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1882.	g	p	Rhizomatous. Moist soil; Elevation: < 3300 m. WET: OBL	0	May-Jun	no	Y/Y
CYP	<i>Carex</i> sp.	sedge	Reported (to genus) from Laguna Honda Valley, McLaren Park, O'Shaughnessy Hollow, and Twin Peaks; needs id.	g	p	n/a	4	n/a	no	n/a
CYP	<u>Carex subbracteata</u>	small-bracted sedge	Recorded historically (1862) from Bayview Hills, Golden Gate Park, Lake Merced, Lone Mt., Mt. Davidson, Mt. Suto, the Presidio (Ft. Point, San Miguel Hills, the Sunset Dist., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Alemany Blvd., the Presidio (Doyle Dr. Natural Area, Dragonfly Cr., Ft. Scott, Golf Course Natural Area, Inspiration Pt., Lobos Cr. Valley, Mountain Lake, Oak Study Area, Presidio Bluffs, Presidio Hills, Res. Cultural Plantation, Rob Hill, Tennessee Hollow, WWII Memorial), and Suto Forest.	g	p	Densely cespitose. At least seasonally moist soil, grassland to open forest; Elevation: < 900 m. WET: FACW	16	Apr-Jun	CA	Y/Y
CYP	<u>Carex subfusca</u>	brown sedge	Recorded historically (c. 1955) from Golden Gate Park where it was likely introduced (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF; to be expected. Although native to Cal., this species is not considered indigenous to SF.	g	p	Densely cespitose. Seasonally wet meadows, creeks, seeps; Elevation: (75)700-3800 m. WET: FAC	0	May-Sep	no	N/Y
CYP	<u>Carex tumulicola</u>	foothill sedge	Recorded historically (1866) from Mt. Davidson and the Presidio (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Doyle Dr. Natural Area, Ft. Scott, Inspiration Pt., Presidio Hills, Tennessee Hollow).	g	p	Loosely cespitose. Meadows, open woodland; Elevation: < 1800 m. WET: FACU	5	Apr-Jul	no	Y/Y

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CYP	<i>Carex utriculata</i>	beaked sedge	[<i>C. rostrata</i>] Known from a single report (c. 1860) at "SF" (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1860.	g	p	Rhizomatous. Wet places, shallow water; Elevation: < 3400 m. WET: OBL	0	Jun-Sep	no	Y/Y
CYP	<i>Carex zikae</i>	short-stemmed sedge	Not included in Howell, <i>et al.</i> and there are no records in CCH. Reported from Rocky Outcrop.	g	p	Cespitose or rhizomatous. Stabilized coastal dunes, dry meadows. Elevation: <400 m.	1	Mar-Jun	no	N/N
AIZ	<i>Carpobrotus chilensis</i>	sea-fig iceplant	[<i>Mesembryanthemum chilense</i>] Recorded historically (1897) from Cliff House, Ft. Funston, Land's End, and the Presidio (Baker Beach; Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: M/-/-/-	h	p	Naturalized. Trailing, forming mats; leaves fleshy. Common on coastal sandy shores; Elevation: < 100 m. WET: FACU	38	Jan-Dec	no	N/N
AIZ	<i>Carpobrotus edulis</i>	sea fig, iceplant	[<i>Mesembryanthemum edule</i>] Recorded historically (1906) from Bayview Hills, Golden Gate Park, Islais Cr., Land's End, Lone Mt., Ocean Beach, the Sunset Dist., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: H/2/-/-	h	p	Naturalized. Trailing, forming mats; leaves fleshy. Many coastal habitats, especially sand; Elevation: < 100 m.	62	Jan-Dec	no	N/N
AST	<i>Carthamus lanatus</i>	woolly distaff thistle	Recorded historically (1891) from Russian Hills and se. SF (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF. INVASIVE STATUS: H/-/NW,B/-	h	a	Naturalized. Disturbed ground, grassland, oak woodland; Elevation: < 1100 m.	1	May-Sep	no	N/N
ORO	<i>Castilleja affinis</i> ssp. <i>affinis</i>	Marin coast paintbrush	[<i>C. douglasii</i> ; Howell, <i>et al.</i> lists <i>C. latifolia</i> var. <i>rubra</i> and var. <i>wightii</i> ; I can find no such names in the literature. However, <i>C. wightii</i> and <i>C.w.</i> var. <i>rubra</i> are synonyms of <i>C. affinis</i> ssp. <i>affinis</i> ; therefore, these taxa are included here.] Previously included in the Scrophulariaceae. Recorded historically (1903) from Laguna Honda Valley, Lake Merced, Land's End, Mt. Davidson, Mt. Sutro, the Presidio (Baker Beach, Lobo Valley), Rocky Outcrop, se. SF, and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from Balboa Natural Area, Ft. Funston, Land's End, Laurel Hts., and the Presidio (Baker Beach n., Crissy Field, Ft. Scott, Inspiration Pt., Lobos Cr. Valley, Presidio Bluffs, sw. dunes, Tennessee Hollow, WWII Memorial). Reintroduced at Hawk Hill.	h	p	Hemiparasite. Chaparral, coastal scrub; Elevation: < 1800 m. WET: FACW	15	Mar-Jun	no	Y/Y
ORO	<i>Castilleja ambigua</i> ssp. <i>ambigua</i>	Johnny-nip	[<i>Orthocarpus castillejoideis</i> ; <i>C.a.</i> var. <i>a.</i>] Previously included in the Scrophulariaceae. Known from a single 1866 collection from the borders of salt marshes in SF (Howell, <i>et al.</i> , CCH). An attempted reintroduction at the Presidio (Crissy Field) was not successful. Extirpated; last collected in 1866. RARITY STATUS: (as <i>C.a.</i> var. <i>a.</i>) -/-4.2	h	p	Hemiparasite. Coastal bluffs, grassland; Elevation: < 500 m. WET: FACW	0	Jan-Nov	no	Y/Y
ORO	<i>Castilleja attenuata</i>	narrow-leaved owl's-clover	[<i>Orthocarpus attenuatus</i>] Previously included in the Scrophulariaceae. Recorded historically (c. 1880) from Potrero Hills (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF. Extirpated; last collected in 1880. Despite the limited record, considered indigenous to SF based on the taxon's distribution in the Bay Area.	h	a	Hemiparasite. Grassland; Elevation: generally < 1600 m.	0	Mar-May	no	Y/Y
ORO	<i>Castilleja brevilobata</i>	short-lobed paintbrush	[<i>C. hispida</i> ssp. <i>b.</i>] Previously included in the Scrophulariaceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported in 2018 from near Land's End. This is a highly suspect report for this strict serpentine endemic known mostly from Del Norte Co. RARITY STATUS: -/-4.2	h	p	Hemiparasite. Dry, open serpentine, forest edges; Elevation: 200-1850 m. SERP: 6	1	Apr-Jun	no	?/Y
ORO	<i>Castilleja densiflora</i> ssp. <i>densiflora</i>	dense-flowered owl's-clover	[<i>Orthocarpus densiflorus</i>] Previously included in the Scrophulariaceae. Recorded historically (1882) from Corona Hts., Golden Gate Park, Hunters Pt., Lake Merced, McLaren Park, Mt. Davidson, the Presidio, San Miguel Hills, Twin Peaks, and Visitación Valley (Howell, <i>et al.</i> , CCH). Reported (as full species) from Corona Hts., the Presidio (Ft. Point, Inspiration Pt.), and Twin Peaks; presumably <i>C.d.</i> ssp. <i>densiflora</i> .	h	a	Hemiparasite. Grassland; Elevation: < 1600 m.	4	Mar-May	CA	Y/Y
ORO	<i>Castilleja exserta</i> ssp. <i>exserta</i>	purple owl's-clover	[<i>Orthocarpus purpurascens</i>] Previously included in the Scrophulariaceae. Recorded historically (c. 1890) from Golden Gate Park, Lake Merced, Oceanview, and Visitación Valley (Howell, <i>et al.</i>) Also recorded historically (1903, as full species) from Lake Merced (CCH). Reported from Glen Cyn., Mt. Davidson, O'Shaughnessy Hollow, and the Presidio (Tennessee Hollow).	h	a	Hemiparasite. Open fields, grassland; Elevation: < 1600 m.	4	Mar-May	no	Y/Y
ORO	<i>Castilleja exserta</i> ssp. <i>latifolia</i>	purple owl's-clover	[<i>Orthocarpus purpurascens</i> var. <i>latifolius</i>] Previously included in the Scrophulariaceae. Recorded historically (1891) from near Lake Merced and Oceanview; Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Hawk Hill, and O'Shaughnessy Hollow; needs study.	h	a	Hemiparasite. Coastal grassland, dunes; Elevation: < 500 m.	3	Mar-Jun	CA	Y/Y
ORO	<i>Castilleja foliolosa</i>	woolly Indian paintbrush	Previously included in the Scrophulariaceae. Known from a single report (c. 1950) at Bayview Hills (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF. Extirpated; last collected in 1950. Despite the limited record, considered indigenous to SF based on the taxon's distribution in the Bay Area.	h-ss	p	Hemiparasite. Dry, open, rocky slopes, edges of chaparral; Elevation: < 1800 m. SERP: 2.3	0	Feb-Jun	no	Y/Y
ORO	<i>Castilleja latifolia</i>	Monterey coast paintbrush	Previously included in the Scrophulariaceae. Recorded historically (1912) from Lake Merced, Land's End, the Presidio (Baker Beach, coastal bluff, Ft. Point, Lobos Cr. Valley, Presidio Bluffs), Pt. Lobos, and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, Glen Cyn., Hawk Hill, O'Shaughnessy Hollow, the Presidio (Baker Beach n.), and Twin Peaks. RARITY STATUS: -/-4.3	h-ss	p	Hemiparasite. Coastal dunes, scrub; Elevation: < 100 m.	6	Mar-Sep	CA	Y/Y
ORO	<i>Castilleja miniata</i> ssp.	scarlet paintbrush	Previously included in the Scrophulariaceae. Known (as full species) from a single 1861 collection from "SF" (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1861. Presumably <i>C.m.</i> ssp. <i>miniata</i> .	h	p	Hemiparasite. Wet montane meadows, stream-banks; Elevation: (350)1500-3500 m. WET: FACW	0	Jun-Aug	no	Y/Y
ORO	<i>Castilleja pilosa</i>	scarlet paintbrush	Previously included in the Scrophulariaceae. Known from a single 1868 collection (CCH); not included in Howell, <i>et al.</i> Not considered indigenous to SF. There are no contemporary reports from SF.	h	p	Hemiparasite. Dry sagebrush scrub to alpine barrens; Elevation: 1200-3400 m.	0	Jun-Aug	no	N/Y

ANNOTATED CHECKLIST OF THE VASCULAR PLANTS OF SAN FRANCISCO

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon Underlined = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonymy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFW / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ^g	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC S/Bay Area/CA	NATIVE - SF / CA
ORO	<i>Castilleja</i> sp.	Indian paintbrush	Previously included in the Scrophulariaceae. Reported (to genus) from Lake Merced; needs id.	h-ss	a-p	n/a	1	n/a	no	n/a
ORO	<i>Castilleja subinclusa</i> ssp. <i>franciscana</i>	long-leaf paintbrush	[<i>C. franciscana</i>] Previously included in the Scrophulariaceae. Recorded historically (1893) from Bayview Hills, hills near Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End, Mission Hills, the Presidio (Ft. Point), Pt. Lobos, se. SF, and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from Laguna Honda Valley; extirpated from the Presidio.	h	p	Hemiparasite. Coastal scrub; Elevation: < 100 m.	1	Mar-Jul	CA	Y/Y
ORO	<i>Castilleja wightii</i>	Wight's paintbrush	[<i>C. latifolia</i> var. <i>wightii</i>] Previously included in the Scrophulariaceae. Recorded historically (1891) from Golden Gate Hts., Lake Merced, Mt. Davidson, and Suto Hts. (Howell, <i>et al.</i> , CCH). Reported from Balboa Natural Area, Ft. Funston, Hawk Hill, Lake Merced, and the Presidio (Baker Beach, Baker Beach n., Lobos Cr., Valley, Presidio Bluffs).	h	p	Hemiparasite. Coastal scrub; Elevation: < 300 m.	8	Mar-Aug	CA	Y/Y
BRA	<i>Caulanthus lasiophyllus</i>	Cal. mustard	[<i>Guillenia lasiophylla</i> ; <i>Thelypodium lasiophyllum</i>] Recorded historically (1877) from Bayview Hills, Brotherhood Way, Golden Gate Hts., Lake Merced, Lone Mt., Mt. Davidson, Mt. Suto, and the Presidio (Baker Beach, Ft. Point, Lobos Cr. Valley, Presidio Hills; Howell, <i>et al.</i> , CCH). Reported from the Presidio (n. Baker Beach, Crissy Bluffs, Golf Course Natural Area, Presidio Bluffs, Presidio Hills).	h	a	Desert flats, sandy banks, gravelly or rocky areas, talus slopes, shrubland, grassy fields, disturbed sites; Elevation: < 1400 m.	5	Mar-Jun	no	Y/Y
RHM	<i>Ceanothus "species nova"</i>	Cal. lilac	Not included in Howell, <i>et al.</i> Reported (to genus) from Buena Vista Park; needs id.	s	ep	n/a	1	n/a	no	?/?
RHM	<i>Ceanothus dentatus</i>	tooth-leaved ceanothus	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. SF lies with the bioregion for the species; status as an SF indigenous species uncertain. Reported from Suto Forest and Yerba Buena Is. (where it was presumably planted.)	s	ep	Sandy substrates, coastal bluffs, slopes; Elevation: 5-1500 m.	2	Mar-Jun	CA	?/Y
RHM	<i>Ceanothus foliosus</i> var. <i>medius</i>	wavyleaf ceanothus	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Presidio Hills and Yerba Buena Is.; presumably planted.	s	ep	Erect, not matted. Rocky slopes, flats, chaparral, woodland, mixed-evergreen forest; Elevation: < 650 m. SERP: 4.0	2	Mar-Jun	CA	N/Y
RHM	<i>Ceanothus griseus</i> var. <i>horizontalis</i>	Carmel creeper	[Unresolved. Possible variant of <i>C. thyrsiflorus</i> var. <i>griseus</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Ft. Funston, Land's End, and the Presidio (Golf Course Natural Area, Inspiration Pt., Presidio Hills, WWII Memorial). Ornamental cultivar of Cal. native.	ss	ep	Ornamental.	7	sp	no	N/N
RHM	<i>Ceanothus incanus</i>	coast white-thorn	Recorded historically (1894) from Brotherhood Way, Lake Merced, and Oceanview (Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way.	s	ep	Erect, open. Flats, slopes, chaparral, mixed-evergreen forest; Elevation: < 900 m.	1	May-Jun	CA	Y/Y
RHM	<i>Ceanothus oliganthus</i> var. <i>sorediatus</i>	Jim brush	Known from a single 1888 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1888.	s	ep	Slopes, ridges, chaparral, conifer forest; Elevation: 60-1220 m.	0	Mar-Apr	CA	Y/Y
RHM	<i>Ceanothus thyrsiflorus</i> var.	coast blue-blossom	Recorded historically (1837, as full species) from Lake Merced, Land's End, Lone Mt., the Presidio (Baker Beach, Presidio Bluffs; Howell, <i>et al.</i> , CCH). Reported (as full species) from throughout the city and the Presidio; presumably <i>C.t.</i> var. <i>t.</i> Reintroduced at Suto Forest. SF is the type locality (syntype of <i>C. thyrsiflora</i>).	s-t	ep	Bluffs, slopes, canyons, chaparral, coastal scrub, closed-cone-pine forest; Elevation: < 800 m.	49	Mar-May	no	Y/Y
RHM	<i>Ceanothus velutinus</i> var.	snowbrush ceanothus	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Billy Goat Hill, Golden Gate Park, and McLaren Park.	s	ep	Open, rocky slopes; Elevation: 90-3050 m.	3	Apr-Jul	no	N/Y
RHM	<i>Ceanothus x vauressaeri</i>	Van Rensselaer's ceanothus	[Unresolved. Putative hybrid between <i>C. incanus</i> and <i>C. thyrsiflorus</i> .] Known from a single 1964 collection from Brotherhood Way (CCH); not included in Howell, <i>et al.</i> Presumed extant at Brotherhood Way. This is the sole location for this taxon. SF is the type locality (isotype of <i>C. x v.</i>)	s	ep	No habit or ecology information available.	1	Mar-Jun	CA	Y/Y
LAM	<i>Cedronella canariensis</i>	Herb of Gilead	Recorded historically (1914) from Pine Lake, the Sunset Dist., and Twin Peaks (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h-s	p	Naturalized. No habit or ecology information available.	0	sum	no	N/N
CUP	<i>Cedrus deodara</i>	deodar cedar	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Mountain Lake); expected elsewhere.	t	ep	Ornamental; not naturalized.	1	n/a	no	N/N
AST	<i>Centaurea benedicta</i>	blessed thistle	[<i>Cnicus benedictus</i>] Recorded historically (1935) from "SF" and Islais Cr. (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF. INVASIVE STATUS: M/-/-/-	h	a	Naturalized. Road-sides, disturbed places; Elevation: < 1700 m.	1	Jul-Oct	no	N/N
AST	<i>Centaurea calcitrapa</i>	purple star-thistle	Recorded historically (1956) from Islais Cr., San Miguel Hills, and se. SF (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Tennessee Hollow); expected elsewhere. INVASIVE STATUS: M/3/NW,B/-	h	a-p	Naturalized. Pastures, disturbed places; Elevation: generally < 1000 m.	1	Jul-Oct	no	N/N
AST	<i>Centaurea cyamus</i>	bachelor's buttons	Recorded historically (c. 1900) from SF (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Starr King.	h	a	Naturalized. Grassland, open woodland, disturbed areas; Elevation: generally <= 1500 m. WET: FACU	1	May-Aug	no	N/N
AST	<i>Centaurea diluta</i>	North African knapweed	Recorded historically (1952) from se. SF and Sunset Dist. Dunes (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF. INVASIVE STATUS: W/-/-/-	h	a	Naturalized. Disturbed places; Elevation: < 170 m.	0	Apr-Dec	no	N/N
AST	<i>Centaurea melitensis</i>	Napa thistle, tocalote	Recorded historically (1924) from Bayview Hills, the Embarcadero, Golden Gate Park, Lake Merced, Mt. Davidson, Nob Hill, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, the Presidio (Crissy Bluffs, Inspiration Pt., Lobos Cr. Valley, Presidio Bluffs), and Starr King. INVASIVE STATUS: M/-/NW,C/NW	h	a	Naturalized. Disturbed fields, open woodland; Elevation: < 2200 m.	6	Apr-Jul	no	N/N

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AST	<u><i>Centaurea solstitialis</i></u>	yellow star-thistle	Recorded historically (1933) from the Embarcadero, Islais Cr., Lake Merced, Mission Bay, Nob Hill, and the Richmond Dist. (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, Candlestick Pt., Golden Gate Park, Heron's Head, Hunter's Point, Islais Cr., Mission Bay, Pier 94, the Presidio (Baker Beach, Ft. Point, Presidio Bluffs), Starr King, Suto Forest, and Yerba Buena Is. INVASIVE STATUS: H/1/NW,C/—	h	a	Naturalized. Invasive, road-sides, disturbed grassland or woodland; Elevation: < 1300 m.	17	May-Oct	no	N/N
VAL	<u><i>Centranthus ruber</i></u>	red valerian	Recorded historically (1954) from Alemany Blvd., Bayview Hills, Corona Hts., Golden Gate Park, near Islais Cr., Lake Merced, Lone Mt., McLaren Park, the Mission Dist., Mt. Davidson, the Presidio, the Richmond Dist., San Miguel Hills, and Telegraph Hill (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: —/2/—/—	h	a-p	Naturalized. Disturbed places, rock or wall crevices, road-sides; Elevation: < 1500 m.	38	Apr-Aug	no	N/N
AST	<i>Centromadia pungens</i> ssp. <i>pungens</i>	common spikeweed	Recorded historically (1891) from Golden Gate Park, near Islais Cr., Lake Merced, Nob Hill, Potrero Hill, se. SF, and Telegraph Hill (Howell, <i>et al.</i> , CCH). Although indigenous here, these records were not believed to represent remnant native stands (Howell, <i>et al.</i>) Reported from a single location at the Presidio (Presidio Bluffs); needs verification.	h	a	Grassland, saltbush scrub, disturbed sites; Elevation: < 1200(1800) m. WET: FAC	1	Apr-Sep	CA	Y/Y
CRY	<i>Cerastium arvense</i> ssp.	western field mouse-eared chickweed	[Presumably <i>C.a.</i> ssp. <i>strictum</i>] Recorded historically (1888, as full species) from Brotherhood Way, Lake Merced, Mt. Davidson, Mt. Olympus, Potrero Hills, and Twin Peaks (CCH). Also recorded historically (as <i>C.a.</i> var. <i>maximum</i> [= <i>C. viride</i>]) from the hills near Golden Gate Park, Lake Merced, Mt. Davidson, Potrero Hills, the Presidio, Sunset Hts., and Twin Peaks (Howell, <i>et al.</i>) Reported (as full species) from Grandview Park, Kite Hill, McLaren Park, Mt. Davidson, the Presidio (Inspiration Pt., Mountain Lake, Presidio Hills), Rocky Outcrop, Tank Hill, and Twin Peaks; needs id. SF is the southernmost station for this taxon. SF is the type locality (syntype of <i>C.a.</i> var. <i>maximum</i>).	h	p	Moist seeps, shaded areas, grassy, generally rocky or sandy slopes; Elevation: 600-1850 m. WET: FACU. SERP: 2.1	10	sp	no	Y/Y
CRY	<i>Cerastium fontanum</i> ssp. <i>vulgare</i>	common mouse-eared chickweed	[<i>C. holostoides</i>] Recorded historically (c. 1955) from Ft. Mason, Golden Gate Park, McLaren Park, and the Richmond Dist. (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Lobos Cr. Valley, Oak Study Area) and the Sunset Dist.	h	p	Naturalized. Disturbed areas, grassy slopes, damp woodland, marshy ground; Elevation: < 2200 m. WET: FACU	2	sp	no	N/N
CRY	<u><i>Cerastium glomeratum</i></u>	annual mouse-eared chickweed	Recorded historically (1902) from Bayview Hills, Brotherhood Way, Golden Gate Park, Lake Merced, Lone Mt., Mt. Davidson, the Presidio (Baker Beach), the Richmond Dist., San Miguel Hills, and se. SF (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a	Naturalized. Dry hillsides, grassland, chaparral, disturbed areas; Elevation: < 1600 m. WET: UPL	32	sp	no	N/N
FAB	<i>Ceratonia siliqua</i>	carob tree	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Mission Bay and Yerba Buena Is.	t	p	Naturalized.	2	sp-sum	no	N/N
CTP	<u><i>Ceratophyllum demersum</i></u>	hornwort	Recorded historically (1896) from Lake Merced, the Presidio (Mountain Lake), and Pine Lake (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1956.	h	p	Submersed aquatic. Ditches, lakes, ponds, pools, slow watercourses, generally alkaline; Elevation: generally < 1700 m. WET: OBL	0	Jun-Aug	no	Y/Y
FAB	<i>Cercis occidentalis</i>	western redbud	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Yerba Buena Is. where it was undoubtedly planted.	s-t	dp	Dry, shrubby slopes, canyons, stream-banks, chaparral, foothill woodland, yellow-pine forest; Elevation: 100-1500 m.	1	Mar-May	no	N/Y
ROS	<i>Cercocarpus betuloides</i> var. <i>betuloides</i>	mountain mahogany	Known from a single 1868 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1868.	s-t	ep	Dry, rocky slopes, chaparral; Elevation: < 2500 m.	0	Mar-May	no	Y/Y
ROS	<i>Cercocarpus traskiae</i>	Catalina Is. mountain mahogany	[<i>C. betuloides</i> var. <i>t.</i>] Known from a single 1932 collection (as <i>C. montanus</i> var. <i>t.</i>) from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> Native Cal. taxon but not considered indigenous here; SF occ. represents an extreme range extension. There are no contemporary reports from SF. RARITY STATUS: FE/SE/1B.1	t	ep	Dry, rocky soils; Elevation: 100-250 m.	0	Mar-May	CA	N/Y
AST	<i>Chaenactis glabriuscula</i> var. <i>glabriuscula</i>	yellow pincushion	Known from a single 1868 collection from "SF" (CCH); not included in Howell, <i>et al.</i> This is a notable outlier for this taxon which is known mostly from coastal and interior s. Cal.; there are no other records from the SF Peninsula. Extirpated; last collected in 1868.	h	a	Open sandy slopes, openings in chaparral, woodland; Elevation: 100-2300 m. SERP: 1.7	0	Jan-Aug	no	?/Y
CUP	<i>Chamaecyparis lawsoniana</i>	Port Orford cedar	[<i> Cupressus l.</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Yerba Buena Is. where it was undoubtedly planted.	t	ep	Coastal conifer, mixed-evergreen, yellow-pine forests, often on serpentine; Elevation: < 1700 m. SERP: 3.0	1	n/a	no	N/Y
CUP	<i>Chamaecyparis pisifera</i>	Sawara cypress	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Yerba Buena Is.	t	ep	Ornamental; not naturalized.	1	n/a	no	N/N
IRI	<u><i>Chasmanthe aethiopica</i></u>	chasmanthe	[<i>C. floribunda</i> , misappl.] Recorded historically (c. 1955) from the Presidio (Lobos Cr. Valley; Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Glen Cyn. and Yerba Buena Is.; expected elsewhere.	gp	p	Ornamental; not naturalized.	2	Feb-May	no	N/N
IRI	<i>Chasmanthe floribunda</i>	South African corn-flag	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from throughout the city and the Presidio. INVASIVE STATUS: W/—/—/—	gp	p	Naturalized. From corms. Disturbed areas; Elevation: < 50 m.	22	Feb-May	no	N/N
IRI	<i>Chasmatic bicolor</i>	bicolor cobra lily	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Clarendon Hts., Ft. Mason, Golden Gate Park, Lake Merced, Lakeview/Ashton Mini Park, Land's End, McLaren Park, Mt. Davidson, the Presidio (Ft. Point), the Richmond Dist.	gp	p	Ornamental; not naturalized.	9	Jan-Apr	no	N/N

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CHN	<u><i>Chenopodium album</i></u>	white lamb's-quarters	[incl. <i>C. a. var. lanceolatum</i> ; Amaranthaceae, pending] Recorded historically (1913) from the Embarcadero, Golden Gate Hts., near Islais Cr., Laguna Honda Valley, Lake Merced, Land's End, Lone Mt., Mission Bay, Nob Hill, the Presidio (Mountain Lake), and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH, Eastwood [1898]). Reported from Ft. Funston, Glen Cyn., Lake Merced, Land's End, Presidio (Ft. Point, Lobos Cr. Valley, Presidio Hills, sw. dunes), and Yerba Buena Is.; expected elsewhere. SF is the type locality (holotype of <i>C. a. var. lanceolatum</i>).	h	a	Naturalized. Disturbed areas, fields; Elevation: < 1800 m. WET: FACU	9	Jun-Oct	no	N/N
CHN	<u><i>Chenopodium berlandieri</i> var. <i>zchackei</i></u>	Berlandier's or pitseed goosefoot	[Amaranthaceae, pending; Howell, <i>et al.</i> also includes reference to <i>C. b. var. pinnatum</i> ; I can find no mention of this taxon in the literature] Recorded historically (1956) from Golden Gate Park, Islais Cr., Lake Merced, Land's End (Pt. Lobos), and Stern Grove (Howell, <i>et al.</i> , CCH). Reported (as full species) from Bernal Hts. Park and the Sunset Dist. SF is the type locality (paratype of <i>C. b.</i>)	h	a	Disturbed areas, ocean bluffs, sandy washes; Elevation: < 2200 m.	1	Jul-Aug	no	Y/Y
CHN	<u><i>Chenopodium californicum</i></u>	Cal. goosefoot	[<i>Blitum c.</i> , pending; Amaranthaceae, pending] Recorded historically (1908) from Bayview Hills, Brotherhood Way, Lake Merced, Pine Lake, and the Presidio (Lobos Cr. Valley; Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, Land's End, the Presidio (Baker Beach, Baker Beach n., Battery Dynamite, Crissy Field, Lobos Cr. Valley, Presidio Bluffs, Presidio Hills, Rob Hill, sw. dunes, WWII Memorial), and Yerba Buena Is.	h	p	Generally open sites, sandy to clay soils; Elevation: < 2000 m.	13	Mar-Sep	no	Y/Y
CHN	<u><i>Chenopodium macrospermum</i></u>	largeseed goosefoot	[incl. <i>C. m. var. farinosum</i> ; Amaranthaceae, pending] Recorded historically (1860) from "SF" (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	h	a	Naturalized. Wet places, marshes; Elevation: < 100 m. WET: FACW	0	Jul-Oct	no	N/N
CHN	<u><i>Chenopodium murale</i></u>	nettle-leaved goosefoot	[<i>Chenopodiastrium m.</i> , pending; Amaranthaceae, pending] Recorded historically (1903) from Bayview Hills, Cliff House, Golden Gate Park, near Islais Cr., Nob Hill, Pacific Hts., the Presidio, the Richmond Dist., San Miguel Hills, Sunset Dist. Dunes, and Telegraph Hill (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, Glen Cyn., Golden Gate Park, Land's End, the Presidio (Ft. Point, Lobos Cr. Valley, Presidio Bluffs, Tennessee Hollow), the Richmond Dist., the Sunset Dist., and Suto Hts.; expected elsewhere.	h	a	Naturalized. Disturbed areas, fields; Elevation: < 2900 m. WET: FACU	10	Jan-Dec	no	N/N
CHN	<i>Chenopodium rubrum</i> var. <i>humile</i>	red goosefoot	[<i>Oxybasis rubra</i> var. <i>humile</i> , pending; Amaranthaceae, pending] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Pier 94. Voucher specimen needed.	h	a	Prostrate to spreading. Open, saline places, drying mudflats; Elevation: < 1100 m. WET: FACW	1	Aug-Oct	no	Y/Y
CHN	<i>Chenopodium</i> sp.	goosefoot	[Amaranthaceae, pending] Reported (to genus) from Hunters Pt. and Pier 94; needs id.	h	a-p	n/a	2	n/a	no	n/a
CHN	<u><i>Chenopodium strictum</i> var. <i>glaucohyllum</i></u>	white-leaved goosefoot	[<i>C. betaceum</i> , pending; Amaranthaceae, pending] Recorded historically (c. 1965) from near Islais Cr. (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	h	a	Naturalized. Open, disturbed places; Elevation: < 1700 m.	0	Aug-Oct	no	N/N
AGA	<u><i>Chlorogalum pomeridianum</i> var. <i>divaricatum</i></u>	wavy-leaved or Cal. soap plant	Previously included in the Liliaceae. Recorded historically (1894) from Bayview Hills, Hunters Pt., Lake Merced, Land's End, Lone Mt., Mt. Davidson, the Presidio, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Widespread, although many reports are to full species; needs id.	gp	p	Bulb-forming. Coastal bluffs, hills; Elevation: generally < 100 m.	54	May-Jul	CA	Y/Y
AGA	<i>Chlorogalum pomeridianum</i> var. <i>pomeridianum</i>	wavy-leaved or Cal. soap plant	Previously included in the Liliaceae. Indicated as potentially occurring in e. SF in Howell, <i>et al.</i> ; there are no SF records in CCH. SF falls well within the range of this taxon; could be indigenous. Reported from Bayview Hill, Crocker-Amazon Natural Area, Dorothy Erskine Park, Glen Cyn., Golden Gate Park, Laguna Honda Valley, McLaren Park, Palou-Phelps, the Presidio (Lobos Cr. Valley, Inspiration Pt.), and Twin Peaks; needs verification.	gp	p	Bulb-forming. Open grassland, chaparral, woodland; Elevation: < 1500 m.	11	May-Aug	no	?/Y
LIL	<u><i>Chlorophytum capense</i></u>	spider plant	Recorded historically (c. 1955) from the Richmond Dist. (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	h	p	Garden escape; not naturalized.	0	sp-sum	no	N/N
ORO	<i>Chloropyron maritimum</i> ssp. <i>palustre</i> (r)	Point Reyes salty bird's-beak	[<i>Cordylanthus maritimus</i> ssp. <i>palustris</i>] Recorded historically (1895, as full species) from Visitación Bay (se. SF) and Russ Gardens (6th/Harrison; c. 1890; Howell, <i>et al.</i>); there are no SF records in CCH. Reintroduced at the Presidio (Crissy Field). SF is the type locality (neotype of <i>C. palustre</i>). Voucher specimen needed. RARITY STATUS: —/—1B.2	h	a	Hemiparasite. Coastal salt marsh; Elevation: < 10 m. WET: OBL	1	Jun-Oct	no	Y/Y
ORO	<i>Chloropyron molle</i> ssp. <i>molle</i>	soft bird's-beak	[<i>Cordylanthus mollis</i> ssp. <i>mollis</i>] Known from a single collection (1881, as full species) from SF (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1881. RARITY STATUS: FE/SR/1B.2	h	a	Hemiparasite. Coastal salt marshes; Elevation: < 10 m. WET: OBL	0	Jun-Nov	BA	Y/Y
AST	<i>Chondrilla juncea</i>	rush skeleton-weed	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Bayshore Caltrain Station and Twin Peaks. INVASIVE STATUS: M/3/NW,A/—	h	p	Naturalized. Pastures, disturbed areas; Elevation: < 600 m.	1	Jun-Jan	no	N/N
PLG	<u><i>Chorizanthe cuspidata</i> var. <i>cuspidata</i></u>	San Francisco spineflower	[<i>C. c. var. marginata</i>] Recorded historically (1868) from Golden Gate Park, Laguna Honda Valley, Lake Merced, Laurel Hill Cemetery, Lone Mt., Ocean Beach, Oceanview, the Presidio (Baker Beach, Golf Course), and Suto Hts. (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, Golden Gate Hts., Lake Merced, Land's End, McLaren Park, and the Presidio (Baker Beach, Baker Beach n., Crissy Field, Golf Course Natural Area, Lobos Cr. Valley, Presidio Hills, Rob Hill, sw. dunes). Endemic to SF Bay Area. SF is the type locality (isotype of <i>C. c.</i>) RARITY STATUS: —/—1B.2	h	a	Decumbent to prostrate. Sand; Elevation: < 300 m.	13	Apr-Jul	BA	Y/Y
PLG	<i>Chorizanthe pungens</i> var. <i>hartwegiana</i>	Ben Lomond spineflower	Recorded historically (1881) from "SF" and (as full species) from Golden Gate Hts. and the Presidio (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1932. RARITY STATUS: FE/—1B.1	h	a	Maritime ponderosa pine sand-hills; Elevation 90-500 m.	0	Apr-Jul	BA	Y/Y

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PLG	<i>Chorizanthe robusta</i> var. <i>robusta</i>	robust spineflower	Recorded from the San Francisco South USGS quadrangle, which includes SF and San Mateo cos. (CNPS, 2021). However, the species is not included in Howell, <i>et al.</i> and there are no SF records in CCH. Known from San Mateo and Marin cos.; considered indigenous to SF. Extirpated. Endemic to SF Bay Area. RARITY STATUS: FE/-/1B.1	h	a	Spreading to decumbent. Sand or gravel; Elevation: 10-300 m.	0	Apr-Sep	BA	Y/Y
GEN	<i>Cicendia quadrangularis</i>	Oregon tim-wort	[<i>Microcala</i> g.] Known from a single 1900 collection from Mission Hills (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Ft. Scott, Inspiration Pt., Presidio Bluffs, Rob Hill).	h	a	Open places; Elevation: < 2700 m. WET: FAC	4	Mar-May	no	Y/Y
AST	<i>Cichorium endivia</i>	cultivated endive	Recorded historically (c. 1955) from the Embarcadero and Golden Gate Park (Quarry Lake/Lily Pond; Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h	a-b	Garden escape; not naturalized.	0	sum	no	N/N
AST	<i>Cichorium intybus</i>	chicory	Recorded historically (1954) from Bayview Hills, the Embarcadero, Golden Gate Park, Islais Cr., Land's End, and Mission Bay (Howell, <i>et al.</i> , CCH). Reported from Laguna Honda Valley, McLaren Park, Pacific Hts., and the Presidio (Ft. Scott, Horse Stables, Presidio Bluffs).	h	p	Naturalized. Road-sides, disturbed places; Elevation: < 1500 m. WET: FACU	5	Jul-Aug	no	N/N
API	<i>Cicuta douglasii</i>	western water hemlock	Known from a single collection (c. 1888) from the Presidio (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1888.	h	p	Wet places, generally aquatic; Elevation: < 2800 m. WET: OBL	0	Mar-Jun	no	Y/Y
LAU	<i>Cinnamomum camphora</i>	camphor tree	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from non-specific locations. Common street and park tree.	t	ep	Naturalized. Moist places; Elevation: < 150 m. WET: UPL	0	Apr-May	no	N/N
AST	<i>Cirsium andrewsii</i>	Franciscan thistle	Recorded historically (1933) from Lake Merced and the Presidio (Ft. Point; Howell, <i>et al.</i> , CCH). Reported from the Presidio (Baker Beach n., Ft. Point, Presidio Bluffs). Endemic to SF Bay Area. RARITY STATUS: -/-/1B.2	h	b/p	Bluffs, ravines, seeps, occasionally on serpentine; Elevation: < 100 m. SERP: 1.7	3	Mar-Jul	BA	Y/Y
AST	<i>Cirsium arvense</i>	Canada thistle	Recorded historically (1945) from Golden Gate Park and Telegraph Hill (Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park, McLaren Park and the Presidio (Doyle Dr. Natural Area, Dragonfly Cr., Presidio Bluffs) INVASIVE STATUS: M/-/B/NW	h	p	Naturalized. From runner roots. Disturbed areas; Elevation: < 2450 m. WET: FAC	5	Jun-Sep	no	N/N
AST	<i>Cirsium brevistylum</i>	short-styled thistle	Recorded historically (1911) from Brotherhood Way, Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End, Mt. Davidson, Mt. Sutro, the Presidio (Mountain Lake), and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way, Ft. Funston, Glen Cyn., Islais Cr., the Presidio (Ft. Point, Inspiration Pt., Mountain Lake, Presidio Bluffs, Presidio Hills, Tennessee Hills, WWII Memorial), Sutro Forest, and Twin Peaks.	h	p	Moist places; Elevation: < 500 m.	13	Mar-Aug	no	Y/Y
AST	<i>Cirsium hydrophyllum</i> var. <i>vaseyi</i>	Mt. Tamalpais thistle	Known from a single 1890 collection from the Presidio (Golf Course; CCH); not included in Howell, <i>et al.</i> Endemic to SF Bay Area. Extirpated; last collected in 1890. RARITY STATUS: -/-/1B.2	h	p	Serpentine seeps; Elevation: 300-450 m. WET: OBL. SERP: 6	0	May-Aug	BA	Y/Y
AST	<i>Cirsium occidentale</i> var. <i>compactum</i>	compact cobwebby thistle	Recorded historically (1908) from Brotherhood Way and Oceanview (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1957. RARITY STATUS: -/-/1B.2	h	p	Mounding. Bluffs; Elevation: < 50 m.	0	Apr-Jun	CA	Y/Y
AST	<i>Cirsium occidentale</i> var. <i>occidentale</i>	cobwebby thistle	Recorded historically (1893) from Golden Gate Park, Lake Merced, Mt. Davidson, Oceanview, the Presidio (Baker Beach, Baker Beach n.), San Miguel Hills, Stanford Hts., Sunset Hts. (Rocky Outcrop), and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, Glen Cyn., Lake Merced, Land's End, O'Shaughnessy Hollow, the Presidio (Baker Beach, Baker Beach n., Crissy Field, Lobos Cr. Valley, Park Blvd. Plantation, Presidio Hills, Rob Hill, sw. Dunes, Tennessee Hollow, WWII Memorial), the Richmond Dist., and Yerba Buena Is. Host plant for the Mylitta Crescent and Painted Lady butterflies.	h	p	Grassland, coastal dunes, oak woodland, scrubland, often disturbed areas; Elevation: generally < 200 m.	16	Mar-Jul	CA	Y/Y
AST	<i>Cirsium occidentale</i> var. <i>venustum</i>	Venus thistle	Recorded historically (1894) at Lake Merced (CCH); not included in Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1901.	h	p	Disturbed areas, grassland, woodland; Elevation: < 3600 m.	0	Mar-Jul	CA	Y/Y
AST	<i>Cirsium quercetorum</i>	brownie thistle	Recorded historically (1894) from Hunters Pt., Land's End (Pt. Lobos), McLaren Park, Mt. Davidson, the Presidio, San Miguel Hills, Twin Peaks, and Visitation Valley (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, Corona Hts., Glen Cyn., McLaren Park, O'Shaughnessy Hollow, the Presidio (Presidio Bluffs, WWII Memorial), and Twin Peaks; reintroduced at Sutro Forest.	h	a-p	Low, mounded. Open places, grassland, woodland; Elevation: < 500 m.	10	Apr-Aug	CA	Y/Y
AST	<i>Cirsium remotifolium</i> var.	few-leaved thistle	Known from a single collection (c. 1955, as full species) from Bayview Hills (Howell, <i>et al.</i>); there are no SF records in CCH. Possibly <i>C.r.</i> var. <i>odontolepis</i> . Extirpated; last collected in 1955.	h	b-p	Grassy areas, openings in woodland, forests; Elevation: < 1000 m. SERP: 1.0	0	Jun-Jul	no	Y/Y
AST	<i>Cirsium vulgare</i>	bull thistle	Recorded historically (1908) from Bayview Hills, the Embarcadero, Golden Gate Park, near Islais Cr., Laguna Honda Valley, Lake Merced, Mt. Sutro, San Miguel Hills, se. SF, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: M/3/NW,C/-	h	b	Naturalized. Disturbed areas; Elevation: < 2350 m. WET: FACU	33	May-Oct	no	N/N
CIS	<i>Cistus incanus</i>	hairy rockrose	[<i>C. creticus</i>] Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Buena Vista Park and the Presidio (near the Arguello Gate, Lobos Cr. Valley).	s	ep	Naturalized. Disturbed places; Elevation: < 1000 m.	3	Jan-Aug	no	N/N
CIS	<i>Cistus ladanifer</i>	gum rockrose	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Grandview Park and the Presidio (Presidio Hills).	s	ep	Naturalized. Disturbed places; Elevation: < 800 m.	2	Mar-Jul	no	N/N
CIS	<i>Cistus psilosepalus</i>	rockrose	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Golf Course).	s	ep	Urban weed. Disturbed places; Elevation: < 300 m.	1	May-Oct	no	N/N
ONA	<i>Clarkia amoena</i> ssp. <i>amoena</i> (r)	lovely farewell-to-spring	Recorded historically (1868) from Lake Merced and "SF"(CCH); not included in Howell, <i>et al.</i> Reported from Yerba Buena Is. Extirpated from mainland SF; reintroduced at Bernal Hts. Park. SF lies with the species bioregion; presumed indigenous to SF.	h	a	Decumbent. Open slopes, bluffs on or near coast; Elevation: < 100 m.	2	Jun-Aug	CA	Y/Y

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ONA	<i>Clarkia davyi</i>	Davy's clarkia	Recorded historically (1889) from Brotherhood Way, Lake Merced, and Oceanview (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1956.	h	a	Prostrate to decumbent. Coastal grassland, bluffs; Elevation: < 100 m.	0	Mar-Jun	CA	Y/Y
ONA	<i>Clarkia franciscana</i>	Presidio clarkia	Recorded historically (1907) from serpentine soils on the Presidio (Howell, <i>et al.</i>, CCH). Reported from the Presidio (Inspiration Pt.) Endemic to SF and Alameda counties. SF is the type locality (isotype of <i>C.f.</i>) RARITY STATUS: FE/SE/IB.1	h	a	Serpentine soil; Elevation: +- 50 m. SERP: 6	2	May-Jul	BA	Y/Y
ONA	<i>Clarkia purpurea</i> ssp.	winecup clarkia	Recorded (as full species) from the Presidio (Tennessee Hollow); needs verification.	h	a	n/a	1	May-Jul	no	Y/Y
ONA	<i>Clarkia purpurea</i> ssp. <i>purpurea</i>	winecup clarkia	Known from a single 1868 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1868.	h	a	Grassland; Elevation: < 100 m.	0	Apr-Jul	no	Y/Y
ONA	<i>Clarkia purpurea</i> ssp. <i>quadrivulnera</i> (r)	winecup clarkia	Recorded historically (1868) from "SF", Lake Merced, and Oceanview (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1906. Reintroduced at the Presidio (Ft. Scott).	h	a	Open, grassy or shrubby places; Elevation: < 1500 m.	1	Apr-Jul	no	Y/Y
ONA	<i>Clarkia purpurea</i> ssp. <i>viminea</i>	winecup clarkia	Known from a single 1901 collection from Lake Merced (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1901.	h	a	Open, grassy or shrubby places; Elevation: < 1500 m.	0	Apr-Jul	no	Y/Y
ONA	<i>Clarkia rubicunda</i>	ruby-chalice clarkia	Recorded historically (1891) from Bayview Hills, Brotherhood Way, hills near Golden Gate Park, Land's End, Lake Merced, Oceanview, San Miguel Hills, Stanford Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, Brooks Park, Brotherhood Way, China Beach, Corona Hts., Duncn-Castro Open Space, Ft. Funston, Glen Cyn., Golden Gate Park, Grandview Park, Hunters Pt., Kite Hill, Laguna Honda Valley, Lake Merced, Lakeview / Ashton Mini Park, Land's End, Pier 94, the Presidio (Inspiration Pt.), Rocky Outcrop, Starr King, the Sunset Dist., Tank Hill, and Twin Peaks; reintroduced at Sutro Forest.	h	a	Decumbent to erect. Openings in woodland, forest, chaparral near coast; Elevation: < 500 m.	24	May-Aug	CA	Y/Y
ONA	<i>Clarkia</i> sp.	clarkia	Reported (to genus) from Brotherhood Way; needs id.	h	a	n/a	1	n/a	no	n/a
ONA	<i>Clarkia unguiculata</i>	elegant clarkia	Recorded historically (1868) from SF (CCH); not included in Howell, <i>et al.</i> SF is just outside of range, but common throughout Bay Area. This showy annual is presumed to have been introduced to SF based on a lack of historic records. Reported from Glen Cyn., Golden Gate Park, McLaren Park, the Presidio (Inspiration Pt., Tennessee Hollow), the Richmond Dist., SFSU, the Sunset Dist., Treasure Is., Twin Peaks, and Yerba Buena Is. (USCG property).	h	a	Woodland; Elevation: < 1500 m.	8	Apr-Sept	CA	N/Y
MON	<i>Claytonia exigua</i> ssp. <i>exigua</i>	serpentine spring beauty	[<i>Montia spathulata</i> var. <i>tenuifolia</i>] Previously included in the Portulacaceae. Recorded historically (1860) from Golden Gate Park, Mission Hills, Potrero Hills on serpentine, and the Presidio (above Baker Beach; Howell, <i>et al.</i> , CCH). Reported from the Presidio (Inspiration Pt., Park Blvd. Plantation, Presidio Bluffs, Presidio Hills) and Yerba Buena Is.	h	a	Dry or moist, disturbed bare clay to sandy soils, often serpentine; Elevation: < 1000 m. SERP: 3.4	5	Apr-Jul	no	Y/Y
MON	<i>Claytonia gypsophilooides</i>	gypsum spring beauty	[<i>Montia g.</i>] Previously included in the Portulacaceae. Known from a single 1923 collection from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> This 1923 record is highly suspect as there are no appropriate soils in Golden Gate Park and the species is not known from anywhere else on the SF Peninsula.	h	a	Moist, bare, often stony sites, in sun or shade, often serpentine; Elevation: < 1300 m. WET: FACU. SERP: 3.1	0	Feb-Apr	CA	?/Y
MON	<i>Claytonia parviflora</i> ssp. <i>parviflora</i>	streambank spring beauty	Previously included in the Portulacaceae. Recorded historically (1893) from Brotherhood Way, Lone Mt., the Presidio (above Baker's Beach), and Twin Peaks (CCH); not included in Howell, <i>et al.</i> Reported (as full species) from Ft. Funston, Interior Greenbelt, the Presidio (Baker Beach, Crissy Field, Golf Course Natural Area, Inspiration Pt., Lobos Cr. Valley, Presidio Bluffs, Presidio Hills, Rob Hill, sw. dunes, Tennessee Hollow, WWII Memorial), and Yerba Buena Is.; needs id.	h	a	Vernally moist, often disturbed sites; Elevation: < 2300 m. WET: FACU	14	Mar-Jun	no	Y/Y
MON	<i>Claytonia perfoliata</i> ssp. <i>mexicana</i>	southern miner's lettuce	[<i>Montia p.</i>] Previously included in the Portulacaceae. Recorded historically (1878) from Forest Hill, Lake Merced, and the Presidio (Golf Course; CCH); included (as full species) in Howell, <i>et al.</i> Reported from Laguna Honda Valley. There are numerous non-specific reports from the city and the Presidio. Current status unknown; possibly extirpated; last collected in 1956.	h	a	Shrubland, woodland, rock crevices, rockslides; Elevation: 500-2000 m. WET: FAC	1	Jan-May	no	Y/Y
MON	<i>Claytonia perfoliata</i> ssp. <i>perfoliata</i>	miner's lettuce	[<i>Montia p.</i>] Previously included in the Portulacaceae. Recorded historically (1952) from Bayview Hills, Golden Gate Park, Hunters Pt., Lake Merced, Land's End (Pt. Lobos), Lone Mt., the Presidio (Baker Beach), Potrero Hills, and the Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a	Vernally moist, often shady or disturbed sites; Elevation: < 1000 m. WET: FAC	79	Jan-May	no	Y/Y
MON	<i>Claytonia sibirica</i>	Siberian spring beauty	Previously included in the Portulacaceae. Not included in Howell, <i>et al.</i> , and there are no SF records in CCH. Reported from Golden Gate Park and SFSU. Voucher specimen needed.	h	p	Generally shady moist woodland, stream-banks, marshes; Elevation: < 1300 m. WET: FAC	2	Feb-Aug	no	Y/Y
RAN	<i>Clematis ligusticifolia</i>	western virgin's bower	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Interior Greenbelt where it may have been introduced. SF lies within the bioregion for the species and it has been recorded from San Mateo and Marin cos. Status as a SF indigenous species uncertain.	v	p	Woody vine. Along streams, wet places; Elevation: < 2400 m. WET: FAC	1	Jun-Aug	no	?/Y
RAN	<i>Clematis vitalba</i>	old man's beard	Recorded historically (c. 1955) from Golden Gate Park where it was planted and had spread (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Interior Greenbelt. INVASIVE STATUS: MA/-/A/-	v	p	Potentially naturalized. WET: FAC	1	sum	no	N/N

ANNOTATED CHECKLIST OF THE VASCULAR PLANTS OF SAN FRANCISCO

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon Underlined = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonymy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFW / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ^g	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC SF/Bay Area/CA	NATIVE - SF / CA
LAM	<i>Clinopodium douglasii</i>	yerba buena	[<i>Satureia d.</i>] Recorded historically (1837) from "SF", Golden Gate Hts., Laguna Honda, Lake Merced, the Presidio (Lobos Cr.), Sunset Dist. dunes, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from 15th Ave. Steps, Grandview Park, Hunters Pt., Laguna Honda Valley, Lake Merced, Land's End, Potrero Hill, the Presidio (Baker Beach n., Battery Dynamite, Crissy Bluffs, Crissy Field, Ft. Point, Inspiration Pt., Lobos Cr. Valley, Mountain Lake, Presidio Bluffs, Presidio Hills, Rob Hill, sw. dunes, Tennessee Hollow, WWII Memorial), the Richmond Dist., SFSU, Suro Forest, and Twin Peaks.	h	p	Mat-forming. Shady places, chaparral, woodland; Elevation: < 900 m. WET: FACU	25	Apr-Sep	no	Y/Y
PTG	<i>Collinsia bartsifolia</i> var. <i>bartsifolia</i>	white blue-eyed Mary	Previously included in the Scrophulariaceae. Known from a single 1938 at the Presidio (Mountain Lake; CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1938. SF was the northernmost station on the coast.	h	a	Open, sandy places; Elevation: generally < 600 m.	0	Mar-Jun	CA	Y/Y
PTG	<i>Collinsia bartsifolia</i> var. <i>hirsuta</i>	white blue-eyed Mary	Previously included in the Scrophulariaceae. Recorded historically (1891) from Lake Merced, Oceanview, and the Presidio (Mountain Lake; Howell, <i>et al.</i> , CCH). Extirpated from SF and Cal.	h	a	Foothill woodland, valley grassland, closed-cone pine forest, Joshua tree woodland.	0	Mar-Jun	BA	Y/Y
PTG	<i>Collinsia corymbosa</i> (r)	round-headed Chinese houses	Previously included in the Scrophulariaceae. Recorded historically (1882) from Lake Merced, the Presidio, and Sunset Dist. dunes (CCH); not included in Howell, <i>et al.</i> Extirpated. Reintroduced at the Presidio (Baker Beach n., Crissy Field). RARITY STATUS: —/—/IB.2	h	a	Coastal sand dunes; Elevation: < 20 m.	2	Apr-Jun	CA	Y/Y
PTG	<i>Collinsia heterophylla</i> var. <i>heterophylla</i>	purple Chinese houses	Previously included in the Scrophulariaceae. Recorded historically (1891, as full species) from Lake Merced and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Billy Goat Hill, Interior Greenbelt, and SFSU. Reintroduced at Yerba Buena Is.	h	a	Shady places in chaparral, open mixed woodland, oak woodland; Elevation: < 1300 m.	4	Feb-Apr	no	Y/Y
PTG	<i>Collinsia multicolor</i>	San Francisco collinsia	[<i>C. franciscana</i>] Previously included in the Scrophulariaceae. Recorded historically (1893) from Bayview Hills, Bernal Hts., Glen Cyn., se. SF, and Stanford Hts. (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill. Endemic to SF Bay Area. SF is the type locality (isotype of <i>C. franciscana</i>). Host plant for the Variable Checkerspot butterfly. RARITY STATUS: —/—/IB.2	h	a	Moist, more-or-less shady scrub, forest; Elevation: < 300 m. SERP: 1.1	1	Mar-May	BA	Y/Y
PTG	<i>Collinsia sparsifolia</i> var. <i>collina</i>	hillside collinsia	[<i>C. parviflora</i> var. <i>c.</i> ; <i>C. solitaria</i>] Previously included in the Scrophulariaceae. Recorded historically (1866) from "SF, Bayview Hills, and Potrero Hills (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1950.	h	a	Disturbed grassy fields, road banks, open chaparral, open oak and dry mixed woodland; Elevation: 100-1200 m. SERP: 1.7	0	Mar-Jun	CA	Y/Y
PTG	<i>Collinsia tinctoria</i>	sticky Chinese houses	Previously included in the Scrophulariaceae. Recorded historically (1900) from Laguna Honda Valley and Lake Merced (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1903.	h	a	Rocky, dry mixed woodland, conifer forest; Elevation: 100-2500 m. WET: FACU	0	May-Jul	CA	Y/Y
PLM	<i>Collomia grandiflora</i>	large-flowered collomia	Recorded historically (1893) from Golden Gate Park and "SF" (Howell, <i>et al.</i> , CCH). Despite the paucity of historic collections, presumed indigenous to SF based on its distribution along the Central Coast and Bay Area. Extirpated; last collected in 1895.	h	a	Open areas; Elevation: 120-3050 m.	0	Apr-Jun	no	Y/Y
PLM	<i>Collomia heterophylla</i>	variable-leaved collomia	Recorded historically (1955) from a flower bed at Lake Merced, where it was presumably introduced (Howell, <i>et al.</i>); there are no SF records in CCH. Despite the paucity of historic collections, presumed indigenous to SF based on its distribution along the Central Coast and Bay Area. Extirpated; last collected in 1955.	h	a	Sandy to gravelly, open areas; Elevation: < 2000 m.	0	Jun-Jul	no	Y/Y
AIZ	<i>Conicosia pugioniformis</i>	narrow-leaf iceplant	[<i>Mesembryanthemum pugioniforme</i> ; <i>M. elongatum</i>] Recorded historically (1903) from Ft. Funston, Golden Gate Park, Lake Merced, Lone Mt., the Presidio (Baker Beach, Lobos Cr. Valley, Presidio Hills), Sunset Dist. Dunes, and Suro Hts. (Howell, <i>et al.</i> , CCH). Reported from Balboa Natural Area, Ft. Funston, Grandview Park, Hawk Hill, Laguna Honda Valley, Land's End, Ocean Beach, the Presidio (Baker Beach, Baker Beach n., Crissy Field, Lobos Cr. Valley, Presidio Hills, sw. dunes), the Richmond Dist., Sea Cliff Dist., and Yerba Buena Is. INVASIVE STATUS: L/1/—/—	h	p	Naturalized. Sandy places, especially coastal dunes; Elevation: < 100 m.	14	May-Oct	no	N/N
API	<i>Conioselinum pacificum</i>	hemlock parsley	[<i>C. gmelinii</i> , pending; <i>C. chinense</i>] Recorded historically (c. 1894) from Mission Hills and Twin Peaks (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1963.	h	p	Tap-rooted or short-rhizomed. Ocean bluffs, generally in coastal scrub; Elevation: < 400 m. WET: FAC	0	Jun-Aug	no	Y/Y
API	<i>Conium maculatum</i>	poison hemlock	Recorded historically (c. 1955) from Bayview Hills, Glen Cyn., Golden Gate Park, Lake Merced, Lone Mt., the Presidio (Lobos Cr. Valley), San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: M/2/—/—	h	b	Naturalized. Moist, especially disturbed places; Elevation: < 1500 m. WET: FACW	59	Apr-Jul	no	N/N
CNV	<i>Convolvulus arvensis</i>	common field bindweed	Recorded historically (1957) from Bayview Hills, the Embarcadero, Golden Gate Park, near Islais Cr., Lake Merced, Pacific Hts., the Presidio (Ft. Point), Pt. Lobos, Richmond Dist., Russian Hill, San Miguel Hills, and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: —/3/NW,C/—	h	p	Naturalized. Road-sides, open areas in many plant communities; Elevation: < 2610 m.	21	Mar-Oct	no	N/N
AST	<i>Conyza bilboana</i>	horseweed	Misidentified; not occurring in Cal. (JFP, 2021). See <i>Erigeron sumatrensis</i> .	h	a-b	Not occurring in Cal.	0	sp	no	N/N
RUB	<i>Coprosma repens</i>	New Zealand mirror plant	Recorded historically (c. 1955) from Golden Gate Park, Lake Merced, Lone Mt., the Presidio (Baker Beach), the Richmond Dist., and Suro Hts. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	s	p	Waif. Disturbed places, landscaped coastal bluff; Elevation: < 50 m.	41	Feb-Nov	no	N/N

ANNOTATED CHECKLIST OF THE VASCULAR PLANTS OF SAN FRANCISCO

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ORC	<i>Corallorhiza striata</i>	striped coralroot	Known from a single report (c. 1890) from w. SF (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1890.	h	p	Rhizomatous. Open to shaded mixed-evergreen or conifer forest, in decomposing leaf litter; Elevation: 100-2200 m. WET: FACU	0	May-Jul	no	Y/Y
LAX	<i>Cordyline australis</i>	New Zealand cabbage tree	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Clarendon Hts., the Presidio (Battery Dynamite), the Richmond Dist., and Suto Forest. INVASIVE STATUS: L/-/-/-	t	p	Naturalized. Disturbed and/or formerly cultivated areas; Elevation: < 50 m.	3	Apr-Jun	no	N/N
AST	<i>Coreopsis tinctoria</i>	golden tickseed	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Presidio Bluffs).	h	a	Naturalized. Disturbed places, escaped from cultivation; Elevation: < 1000 m. WET: FACU	1	Jul-Aug	no	N/N
AST	<i>Corethrogyne filaginifolia</i>	common sand-aster	[<i>C. californica</i> ; <i>C. leucophylla</i> ; <i>Lessingia f.</i> , incl. vars. <i>f. californica</i> , and <i>linifolia</i>] Recorded historically (1892) from Hunters Pt., Lake Merced, Potrero Hills, and the Presidio (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, Mt. Davidson, and the Presidio (Inspiration Pt., Mountain Lake, Tennessee Hollow). RARITY STATUS: (as <i>C. leucophylla</i>) -/-/3.2	h	p	Coastal scrub, chaparral, grassland, foothill woodland, forest; Elevation: < 2600 m. SERP: 1.3	5	Jul-Nov	CA	Y/Y
API	<i>Coriandrum sativum</i>	coriander	Recorded historically (c. 1955) from SF (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	h	a	Naturalized. Disturbed places, generally near gardens; Elevation: generally < 1000 m.	0	May-Jul	no	N/N
COR	<i>Cornus glabrata</i>	brown dogwood	Recorded historically (1844) from SF, although the collection was likely from elsewhere and not from the city limits (Howell, <i>et al.</i>); there are no SF records in CCH. The nearest historical record is from Crystal Springs, San Mateo, Co. Given the lack of records, this species is not considered to have been indigenous to SF. There are no contemporary reports from SF.	s-t	p	Generally moist places; Elevation: < 1550 m. WET: FACW	0	May-Jun	no	N/Y
COR	<i>Cornus nuttallii</i>	Pacific dogwood	Known from a single 1891 report from near Sixth and Harrison streets (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1891.	s-t	p	Forest; Elevation: < 2000 m. WET: FACU	0	Apr-May	no	Y/Y
COR	<i>Cornus sericea</i> ssp. <i>occidentalis</i> (r)	western dogwood	[<i>C. occidentalis</i>] Recorded historically (1867) from Lake Merced, Mission Dolores (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1894. Reintroduced at the Presidio (Dragonfly Cr.)	s	dp	Generally moist places; Elevation: < 2500 m.	1	Jun-Aug	no	Y/Y
COR	<i>Cornus sericea</i> ssp. <i>sericea</i>	red osier dogwood	[<i>C. californica</i> ; <i>C. c. var. nevadensis</i>] Recorded historically (1901) from Brotherhood Way, Golden Gate Park, and the Presidio (Lobos Cr. Valley; Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way, Pine Lake Potrero Hill, and the Presidio (Crissy Field, Dragonfly Cr., Golf Course Natural Area, Lobos Cr. Valley, Mountain Lake, Tennessee Hollow), and Suto Baths; reintroduced at Alemany Farm, City College, Glen Cyn., Golden Gate Park (Lily Pond, Lake Merced, McLaren Park, Mission Bay, SFSU, and Suto Forest.	s	dp	Generally moist habitats; Elevation: < 2800 m.	18	May-Jul	no	Y/Y
POA	<i>Cortaderia jubata</i>	purple Pampas grass	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from throughout the city and the Presidio. INVASIVE STATUS: H/1/NW/B/-	g	p	Naturalized. Densely clumped. Disturbed sites, many habitats, especially coastal; Elevation: < 800 m. WET: FACU	34	Sep-Feb	no	N/N
POA	<i>Cortaderia seloana</i>	Pampas grass	Recorded historically (c. 1957) from Lake Merced (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from throughout the city and the Presidio. INVASIVE STATUS: H/1/-/-	g	p	Naturalized. Densely clumped. Disturbed sites; Elevation: < 300 m. WET: FACU	23	Sep-Mar	no	N/N
BET	<i>Corylus cornuta</i> ssp. <i>californica</i>	western hazelnut	[<i>C. californica</i>] Recorded historically (1950) from Brotherhood Way, Golden Gate Park (Strawberry Hill), Laguna Honda Valley, and Mission Hills (Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way, Golden Gate Park (Strawberry Hill), Laguna Honda Valley, the Presidio (Ft. Point, Mountain Lake, Tennessee Hollow), and Yerba Buena Is.	s	dp	Many habitats, especially moist, shady places; Elevation: < 2100 m. WET: FACU	9	Jan-Mar	no	Y/Y
ROS	<i>Cotoneaster franchetii</i>	orange cotoneaster	Recorded historically (c. 1955) from the Presidio (Mountain Lake; Howell, <i>et al.</i>); there are no historic SF records in CCH. Reported from Golden Gate Park, Heron's Head Park, Laguna Honda Valley, Land's End, the Presidio (Crissy Bluffs, Doyle Dr. Natural Area, Ft. Point, Mountain Lake, Presidio Bluffs, Presidio Hills), Twin Peaks, and Yerba Buena Is. INVASIVE STATUS: M/2/-/-	s	ep	Naturalized. Thickets, meadows, forest, riparian edges, disturbed places; Elevation: < 500 m.	12	Mar-Jul	no	N/N
ROS	<i>Cotoneaster integrifolius</i>	entire-leaved cotoneaster	Recorded historically (1954) from the Sea Cliff Dist. (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF; to be expected.	s	ep	Naturalized. Sprawling. Disturbed conifer forest, brushy slopes; Elevation: < 500 m.	0	Apr-Jun	no	N/N
ROS	<i>Cotoneaster lacteus</i>	milkflower cotoneaster	[<i>C. coriaceus</i> , pending] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from throughout the city and the Presidio. INVASIVE STATUS: M/2/-/-	s	ep	Naturalized. Open forest, meadows, disturbed ground, thickets, creeks, ponds, canyons; Elevation: < 500 m.	28	Mar-Jul	no	N/N
ROS	<i>Cotoneaster pinnosus</i>	silver-leaved cotoneaster	[<i>C. pinnosa</i>] Recorded historically (1957) from Laguna Honda Valley and Mt. Suto (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: M/2/-/-	s	ep	Naturalized. Meadows, rocky or brushy slopes, open forest, riparian zones, canyons, disturbed ground, thickets, mixed-evergreen forest; Elevation: generally < 1000 m.	27	Mar-Jul	no	N/N
ROS	<i>Cotoneaster</i> sp.	cotoneaster	Reported (to genus) from multiple sites; needs id. INVASIVE STATUS: -/2/-/-	s	ep	n/a	15	n/a	no	N/N
AST	<i>Cotula australis</i>	Australian brass buttons	Recorded historically (1880) from Bayview Hills, Corona Hts., the Embarcadero, Golden Gate Park, Laguna Honda, Lake Merced, Lone Mt., Mt. Davidson, Nob Hill, Oceanview, the Presidio (Mountain Lake), Russian Hill, the Sunset Dist., and Telegraph Hill (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Golden Gate Park, Interior Greenbelt, Lake Merced, Laurel Hts., Mission Bay, the Mission Dist., the Presidio (Crissy Field, Golf Course Natural Area, Lobos Cr. Valley, Presidio Hills, Rob Hill), the Richmond Dist., SOMA, the Sunset Dist., Suto Forest, Twin Peaks, and Yerba Buena Is.	h	a	Naturalized. Disturbed areas; Elevation: < 1650 m. WET: FAC	13	Jan-May	no	N/N

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AST	<i>Cotula coronopifolia</i>	African brass buttons	Recorded historically (1886) from Bayview Hills, the Embarcadero, Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End, Mt. Sutro, Pine Lake, the Presidio (Pt. Point), San Miguel Hills, and Sutro Hts. (Howell, <i>et al.</i> , CCH). Reported from Candlestick Pt., Ft. Funston, Heron's Head Park, Hunters Pt., Lake Merced, Pier 94, the Presidio (Crissy Bluffs, Crissy Field, Doyle Dr. Natural Area, Ft. Point, Presidio Bluffs, Tennessee Hollow, WWII Memorial), the Sea Cliff Dist., SFSU, Sutro Baths, and Yerba Buena Is. INVASIVE STATUS: L/-/-/-	h	p	Naturalized. Prostrate or decumbent to erect, rooting at nodes. Saline and freshwater marshes, mud flats; Elevation: < 1200 m. WET: OBL	16	Mar-Dec	no	N/N
CRS	<i>Crassula aquatica</i>	aquatic pygmyweed	[<i>Tillaea a.</i>] Recorded historically (1891) from "SF", Lake Merced, and the Presidio (Mountain Lake; Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1926.	h	a	Generally aquatic or on wet substrates. Salt marshes, vernal pools, margins of lakes, ponds; Elevation: < 3000 m. WET: OBL	0	Mar-Jun	no	Y/Y
CRS	<i>Crassula comata</i>	sand pygmy-weed	[<i>Tillaea erecta</i>] Recorded historically (1882) from Alcatraz Is., Bayview Hills, Ft. Funston, Golden Gate Park, Lake Merced, Land's End (Pt. Lobos), Lone Mt., Mt. Davidson, the Presidio (Baker Beach, Lobos Cr. Valley), and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. SF is the type locality (isotype of <i>Tillaea leptopetala</i>).	h	a	Open areas; Elevation: < 1500 m. WET: FAC	31	Feb-May	no	Y/Y
CRS	<i>Crassula multicaeva</i> ssp.	Cape Province pygmyweed	Recorded historically (1978) from San Miguel Hills (CCH); not included in Howell, <i>et al.</i> Reported (as full species) from Glen Cyn., Golden Gate Hts., Golden Gate Park, Laguna Honda Valley, Land's End, McLaren Park, Mission Bay, the Mission Dist., the Presidio (Baker Beach, Eucalyptus Understorey Diversification, Ft. Scott, Liggett St. Housing, Presidio Bluffs, WWII Memorial), the Richmond Dist., SFSU, and Sutro Forest. Presumably <i>C.m.</i> ssp. <i>multicaeva</i> .	h-s	p	Waif. Persisting from cultivation, sparingly naturalized in shaded, rocky places at wild land-urban interface; Elevation: < 50 m.	15	Nov-Feb	no	N/N
CRS	<i>Crassula ovata</i>	jade plant	[<i>C. argentea</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Bernal Hts. Park, Glen Cyn., Golden Gate Hts., Laguna Honda Valley, Mt. Davidson, and Yerba Buena Is.	s	ep	Waif. Persisting from cultivation and at dump sites, wild land-urban interface, generally along coast; Elevation: < 100 m.	6	Dec-Feb	no	N/N
CRS	<i>Crassula</i> sp.	pygmy-weed	Reported (to genus) from Hawk Hill, Mt. Davidson, Twin Peaks; needs id.	h-s	a-p	n/a	3	n/a	no	n/a
ROS	<i>Crataegus monogyna</i>	one-seed hawthorne	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Glen Cyn., Golden Gate Park, McLaren Park, Mt. Davidson, and the Presidio (Dragonfly Cr.) INVASIVE STATUS: L/-/-/-	t	dp	Naturalized in scattered places; Elevation: 500 m. WET: FAC	6	Apr-May	no	N/N
AST	<i>Crepis bursifolia</i>	Italian hawk's-beard	Recorded historically (1950) from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> Reported from Starr King and Yerba Buena Is.	h	p	Waif. Lawn weed, disturbed urban places; Elevation: < 100 m.	2	Apr-Sep	no	N/N
AST	<i>Crepis capillaris</i>	smooth hawksbeard	Recorded historically (1947) from SF (CCH); not included in Howell, <i>et al.</i> Reported from Laguna Honda Valley.	h	a-b	Naturalized. Weed in pastures, disturbed places; Elevation: < 1300 m. WET: FACU	1	May-Nov	no	N/N
IRI	<i>Crocsmia *crocsmiiflora</i>	common montbretia	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from throughout the city and the Presidio. INVASIVE STATUS: L/-/-/-	gp	p	Naturalized. Generally in disturbed coastal areas, road-sides, often from garden waste; Elevation: < 50 m. WET: FACU	19	Jul-Aug	no	N/N
IRI	<i>Crocsmia masoniorum</i>	crocsmia	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from 15th Ave. Steps and Pine Lake/Stern Grove.	gp	p	Ornamental; not naturalized.	2	sum-efall	no	N/N
EUP	<i>Croton californicus</i>	Cal. croton	Recorded historically (1837) from Bayview Hills, Lake Merced, Lone Mt., Pine Lake, and the Presidio (above Baker Beach, Lobos Cr. Valley, Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from Hawk Hill, McLaren Park, the Presidio (Baker Beach, Baker Beach n., Battery Dynamite, Golf Course Natural Area, Horse Stables, Lobos Cr. Valley, Presidio Hills, Rob Hill, sw. dunes), and Visitación Valley. SF is the northernmost station.	h-ss	p	Sandy soils, dunes, washes; Elevation: < 900 m.	12	Apr-Jul	no	Y/Y
EUP	<i>Croton setiger</i> (r)	Cal. doveweed, turkey-mullein	[<i>C. setigerus</i> ; <i>Eremocarpus setigerus</i>] Recorded historically (c. 1950) from Lake Merced (Howell, <i>et al.</i>) and Ft. Point. (NRDB); there are no SF records in CCH. Reported from Golden Gate Park (Strawberry Hill), the Presidio (Pt. Point), the Sunset Dist. and Yerba Buena Is.; all extant occs. likely represent incidental reintroductions. Voucher specimen needed.	h	a	Dry, open, often disturbed areas; Elevation: < 1000 m.	3	May-Oct	no	Y/Y
POA	<i>Crypsis schoenoides</i>	swamp pricklegrass	[<i>Heleochoila</i> s.] Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Candlestick Pt.	g	a	Naturalized. Wet places; Elevation: < 1970 m. WET: FACW	1	Jue-Oct	no	N/N
BOR	<i>Cryptantha clelandii</i> var. <i>florosa</i>	coastal cryptantha	[<i>C. hispidissima</i>] Recorded historically (1894) from "SF", Golden Gate Park, and Lake Merced (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1950. SF represents the northernmost station.	h	a	Sandy or rocky soils, chaparral, coastal scrub, foothill woodland; Elevation: 5-1500 m.	0	Mar-Jun	no	Y/Y
BOR	<i>Cryptantha flaccida</i>	weakstem cryptantha	Known from a single report (c. 1890) w. and s. parts of SF (Howell, <i>et al.</i>); there are no SF records in CCH. Might have been found on serpentine slopes in the city. Extirpated; last collected in 1890.	h	a	Semi-barren, gravelly, loose soils, rocky sites, washes, slopes, ridges; Elevation: < 1700(2250) m.	0	Mar-May	no	Y/Y
BOR	<i>Cryptantha leiocarpa</i>	beach cryptantha	Recorded historically (1881) from Cliff House, Golden Gate Park, Lake Merced, Laurel Hill Cemetery, Lone Mt., the Presidio (Baker Beach, Golf Course, Presidio Hills), and Sutro Hts. (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston and the Presidio (Baker Beach n., Crissy Field, Lobos Cr. Valley, Presidio Hills, Pygmy Forest, Rob Hill, sw. dunes).	h	a	Sandy soils, coastal dunes, beaches; Elevation: < 100(250) m.	8	Mar-Aug	no	Y/Y
LYT	<i>Cuphea ignea</i>	cigar plant	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Buena Vista Park.	ss	ep	Ornamental; not naturalized.	1	sum-fall	no	N/N

ANNOTATED CHECKLIST OF THE VASCULAR PLANTS OF SAN FRANCISCO

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CNV	<u>Cuscuta californica</u> var. <i>californica</i> (r)	Cal. dodder	Previously included in the Cuscutaceae. Known from a single 1952 collection from the Presidio (above Baker Beach; Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1952. Reintroduced at the Presidio (Baker Beach n., Lobos Cr. Valley, sw. dunes). INVASIVE STATUS: -/-/NW/-	h	a-p	Vining holoparasite on herbs, shrubs (e.g., <i>Ericameria ericoides</i>). Road-sides, chaparral, grassland, yellow-pine forest; Elevation: generally < 2500 m.	3	May-Sept	no	Y/Y
CNV	<u>Cuscuta occidentalis</u>	Cal. dodder	Previously included in the Cuscutaceae. Known from a single 1901 collection from Lake Merced (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1901. INVASIVE STATUS: -/-/NW/-	h-v	a	Vining holoparasite on herbs and shrubs (e.g., <i>Salicornia pacifica</i>). Elevation: < 2000 m.	0	Mar-Sep	no	Y/Y
CNV	<u>Cuscuta pacifica</u> var. <i>pacifica</i>	coastal salt-marsh dodder	[<u>C. salina</u> var. <i>major</i>] Previously included in the Cuscutaceae. Recorded historically (1863) from Hunters Pt., near Islais Cr., the Presidio, and Visitación Valley (Howell, <i>et al.</i> , CCH). Reported from Heron's Head, Hunters Pt., Mission Bay Cr., Pier 94, the Presidio (Crissy Field), and Yerba Buena Is. INVASIVE STATUS: -/-/NW/-	h	a-p	Vining holoparasite on <i>Salicornia</i> , <i>Jaumea</i> . Coastal salt marshes, tidal flats; Elevation: + - 0 m.	6	Jul-Oct	no	Y/Y
CNV	<u>Cuscuta subinclusa</u>	canyon dodder	[<u>C. canathii</u>] Previously included in the Cuscutaceae. Recorded historically (1854) from SF (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF. Status as an indigenous SF species is uncertain. INVASIVE STATUS: -/-/NW/-	h-v	a	Vining holoparasite on herbs, shrubs (e.g., <i>Ceanothus</i>). Forests near streams, river canyon bottoms, salt marshes; Elevation: < 2000 m.	0	Mar-Oct	no	?/Y
API	<u>Cyclospermum leptophyllum</u>	marsh parsley	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Starr King and Twin Peaks.	h	a	Naturalized. Road-sides; Elevation: < 350 m. WET: FACU	2	Apr-Aug	no	N/N
PTG	<u>Cymbalaria muralis</u>	Kenilworth ivy	[<u>Linaria cymbalaria</u>] Previously included in the Scrophulariaceae. Recorded historically (1957) from near Fisherman's Wharf, Golden Gate Park, Lake Merced, Mt. Davidson, the Presidio, the Richmond Dist., Russian Hill, and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from Alcatraz Is., Alemany Farm, China Beach, near Corona Hts., Golden Gate Park (Lily Pond), Ina Coolbrith Park, Interior Greenbelt, Laurel Hts., the Mission Dist., Nob Hill, Potrero Hill, the Presidio (Pt. Scott, Lobos Cr. Valley), the Richmond Dist., Russian Hill, the Sea Cliff Dist., the Sunset Dist., Sutro Forest, Tank Hill, Telegraph Hill, and near Twin Peaks.	h	a-p	Naturalized. Rock walls, shady, disturbed areas; Elevation: < 1000 m.	16	May-Sep	no	N/N
AST	<u>Cynara cardunculus</u> ssp.	artichoke thistle, cardoon	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Mission Dist., the Presidio (Presidio Hills), the Richmond Dist., the Sunset Dist., and Sutro Forest; needs id. Presumably <i>C. c. ssp. c.</i> INVASIVE STATUS: M/-/NW,B/NW	h	p	Naturalized. Disturbed places; Elevation: < 500 m.	2	Apr-Jul	no	N/N
POA	<u>Cynodon dactylon</u>	common Bermuda grass	Recorded historically (1950) from Golden Gate Park, Lake Merced, Lone Mt., the Sea Cliff Dist. (Howell, <i>et al.</i> , CCH). Ubiquitous. INVASIVE STATUS: M/-/D/-	g	p	Naturalized. From rhizomes or stolons. Disturbed sites; Elevation: < 1600 m. WET: FACU	18	Jun-Aug	no	N/N
BOR	<u>Cynoglossum grande</u>	Pacific hound's-tongue	[<u>Adelinia g.</u> , pending] Recorded historically (c. 1890) from Mission Hills and Visitación Valley (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Brotherhood Way. Voucher specimen needed.	g	p	Chaparral, woodland; Elevation: 10-1700 m.	1	Feb-May	no	Y/Y
POA	<u>Cynosurus cristatus</u>	crested dogtail grass	Known only from a 1946 collection from Cow Hollow (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF.	g	p	Naturalized. Cespitose. Fields, disturbed places; Elevation: < 300 m. WET: FACU	0	Jun-Aug	no	N/N
POA	<u>Cynosurus echinatus</u>	hedgehog dogtail grass	Recorded historically (1974) from San Miguel Hills (CCH); not included in Howell, <i>et al.</i> Reported from Bayview Hill, Glen Cyn., McLaren Park, the Presidio (Battery Dynamite, Crissy Field, Ft. Point, Inspiration Pt., Lobos Cr. Valley, Mountain Lake, Presidio Bluffs, Tennessee Hollow, WWII Memorial), Sutro Forest, and Yerba Buena Is.; expected elsewhere. INVASIVE STATUS: M/3/-/-	g	a	Naturalized. Tufted. Open, disturbed sites; Elevation: generally < 1000 m.	15	May-Jul	no	N/N
CYP	<u>Cyperus difformis</u>	variable flatsedge	Known from a single 1953 collection from Lake Merced (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	g	a	Naturalized. Ditches, pond shores, rice fields; Elevation: 100-500 m. WET: OBL	0	Jul-Aug	no	N/N
CYP	<u>Cyperus eragrostis</u>	tall umbrella-sedge	Recorded historically (1891) from Alemany Blvd., Bayview Hills, Golden Gate Park, Lake Merced, the Marina Dist., McLaren Park, the Presidio, San Miguel Hills, Telegraph Hill, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Alemany Farm, Bernal Hts. Park, Glen Cyn., Golden Gate Park (Mallard Lake, Stow Lake, misc.), Islais Cr., McLaren Park, the Presidio (Crissy Bluffs, Crissy Field, Ft. Point, Inspiration Pt., Lobos Cr. Valley, Presidio Hills, Simond's Loop, Tennessee Hollow, WWII Memorial), and Yerba Buena Is.	g	p	Vernal pools, stream-banks; Elevation: < 700 m. WET: FACW	18	May-Nov	no	Y/Y
CYP	<u>Cyperus esculentus</u> var.	field nut-sedge	Recorded historically (1939, as full species) from Golden Gate Park, Lake Merced, Pacific Hts., the Presidio, and Russian Hill (Howell, <i>et al.</i> , CCH). Reported from Land's End. Native Cal. taxon but not considered indigenous here; SF occ. represents a potential range extension. INVASIVE STATUS: -/-/NW/-	g	p	Cropland, disturbed places; Elevation: < 1200 m. WET: FACW	1	Jul-Nov	no	N/Y
CYP	<u>Cyperus involucreatus</u>	umbrella plant	[<u>C. alternifolius</u> , misappl.] Recorded historically (c. 1955) from the Presidio and the Sea Cliff Dist. (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Golden Gate Park (Elk Glen Lake), the Presidio (Lover's Lane), and Sutro Baths.	g	p	Naturalized. Ditches, shores; Elevation: < 200 m. WET: FACW	3	Jan-Dec	no	N/N
CYP	<u>Cyperus niger</u>	black flatsedge	[<i>C. n. var. capitatus</i>] Recorded historically (1860) from "near SF", Lake Merced and Mission Cr. (Mission Dolores?; Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1890.	g	p	Rhizomatous. Marshes, swamps, moist road-sides; Elevation: < 1500 m. WET: FACW	0	Jul-Nov	no	Y/Y
CYP	<u>Cyperus owanii</u>	Owan's flatsedge	Recorded historically (1957) from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF.	g	p	Agricultural or garden weed; not naturalized. WET: FAC	0	sum	no	N/N
ORC	<u>Cypripedium californicum</u>	Cal. lady's slipper	Known from a single 1870 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1870. RARITY STATUS: -/-/4.2	h	p	Stream-banks, moist slopes, fens, partial shade to full sun, mixed-evergreen or conifer forest; Elevation: 50-2200 m. WET: OBL. SERP: 4.5	0	Apr-Aug	no	Y/Y

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ORC	<i>Cypripedium montanum</i>	mountain lady's slipper	Known from a single 1869 collection (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1869. RARITY STATUS: -/-/4.2	h	p	Moist areas, dry slopes, mixed-evergreen or conifer forest; Elevation: 200-2200 m. WET: FACU	0	Mar-Aug	no	YY
DRY	<i>Cyrtomium falcatum</i>	holly fern	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Yerba Buena Is.	f	p	Rhizomatous. Generally moist cliffs, banks, crevices; Elevation: < 900 m.	1	n/a	no	N/N
FAB	<i>Cytisus scoparius</i>	Scotch broom	Recorded historically (1954) from Corona Hts., Golden Gate Park, Laguna Honda Valley, Lone Mt., Mt. Sutro, and the Presidio (Howell, <i>et al.</i> , CCH). Reported from Corona Hts., Ft. Mason, Glen Cyn., Interior Greenbelt, Kite Hill, Laguna Honda Valley, Lake Merced, the Presidio (Doyle Dr. Natural Area, Golf Course Natural Area, Infantry Terrace, Inspiration Pt., Lyon St. Plantation, Mountain Lake, Oak Study Area, Presidio Hills, Tennessee Hollow), SFSU, Sutro Forest, Twin Peaks, and Yerba Buena Is.; expected elsewhere. INVASIVE STATUS: H/2/NW,C/-	s	p	Naturalized. Disturbed places; Elevation: < 1000 m.	20	Apr-Jul	no	N/N
FAB	<i>Cytisus striatus</i>	Portuguese broom	Recorded historically (1974) from Diamond Hts. (CCH); not included in Howell, <i>et al.</i> Reported from Glen Cyn.; expected elsewhere. INVASIVE STATUS: M/-/B/-	s	p	Naturalized. Uncommon but locally abundant. Disturbed places; Elevation: < 300 m.	1	May-Aug	no	N/N
POA	<u><i>Dactylis glomerata</i></u>	orchard grass	Recorded historically (1917) from throughout SF (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: L/2/-/-	g	p	Naturalized. Cespitose from short rhizomes. Disturbed, often moist sites; Elevation: < 2410 m. WET: FACU	29	May-Aug	no	N/N
POA	<u><i>Danthonia californica</i></u>	Cal. oatgrass	[<i>D.c. var. americana</i> ; <i>D.c. var. c.</i>] Recorded historically (1860) from Bayview Hills, Hunters Pt., Lone Mt., McLaren Park, Mt. Davidson, the Presidio, and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from throughout the city and Presidio.	g	p	Cespitose. Generally moist meadows, open woodland; Elevation: 45-2300 m. WET: FAC. SERP: 3.3	30	Apr-Aug	no	YY
SOL	<u><i>Datura stramonium</i></u>	jimsonweed	Recorded historically (1923) from Golden Gate Park (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Golden Gate Park, the Mission Dist., and the Presidio (Lover's Lane, Tennessee Hollow).	h	a	Naturalized. Sandy soils, open, often disturbed areas; Elevation: < 1500 m.	3	Jun-Aug	no	N/N
SOL	<i>Datura wrightii</i>	sacred datura	[<i>D. metalaides</i>] Recorded historically (c. 1955) from along the waterfront (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Golden Gate Park and the Richmond Dist. Native Cal. taxon but not considered indigenous here; introduced.	h-ss	a-p	Sandy or gravelly open areas; Elevation: < 2200 m. WET: UPL	1	Feb-Oct	no	N/Y
API	<u><i>Daucus carota</i></u>	Queen Anne's lace	Recorded historically (1974) from Lake Merced and the Presidio (Doyle Dr. Natural Area; Howell, <i>et al.</i> , CCH). Reported from Golden Gate Hts., Laguna Honda Valley, Land's End, the Presidio (Lobos Cr. Valley, Mountain Lake, Presidio Hills, Tennessee Hollow), and the Richmond Dist.	h	p	Naturalized. Road-sides, disturbed places; Elevation: < 1650 m. WET: UPL	7	May-Sep	no	N/N
API	<i>Daucus pusillus</i>	rattlesnake carrot	Recorded historically (1892) from Lake Merced, Land's End (Pt. Lobos), Mt. Davidson, the Presidio, and Sunset Hts. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a-b	Rocky or sandy places; Elevation: < 1650 m.	25	Apr-Jun	no	YY
AST	<i>Deinandra corymbosa</i>	coastal tarweed	[<i>Hemizonia c.</i>] Recorded historically (1870) from Clarendon Hts., the Presidio, Twin Peaks, and Vistación Valley (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1941.	h	a	Grassland, openings in scrub or woodland, dunes, disturbed sites; Elevation: < 600 m.	0	Mar-Nov	CA	YY
AST	<i>Deinandra fusciculata</i>	clustered tarweed	[<i>Hemizonia f.</i>] Recorded historically (c. 1905) from Black Pt. (Ft. Mason) and Lake Merced (Howell, <i>et al.</i> , CCH). Introduced from So. Cal. There are no contemporary reports from SF.	h	a	Open or disturbed sites, grassland, scrub, woodland, vernal pools, sometimes on serpentine; Elevation: < 1200 m. WET: FACU	0	May-Oct	no	N/Y
AST	<i>Deinandra kelloggii</i>	Kellogg's tarweed	[<i>Hemizonia k.</i>] Recorded historically (c. 1890) from Black Pt., the Embarcadero, Russian Hill, and Telegraph Hill (Howell, <i>et al.</i>) and Lombard Street (CCH). Extirpated; last collected in 1956.	h	a	Sandy or clayey soils, grassland, openings in scrub or woodland, disturbed sites; Elevation: < 1200(2100) m.	0	Apr-Aug	CA	YY
AST	<i>Delairea odorata</i>	Cape-ivy	[<i>Senecio mikanioides</i>] Recorded historically (1950) from Golden Gate Park, Lake Merced, Land's End (Pt. Lobos), Mt. Davidson, the Presidio (above Baker Beach), Russian Hill, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: H/1/NW,B/-	v	p	Naturalized. Shady, more-or-less disturbed places, riparian woodland, coastal scrub; Elevation: < 1500 m. WET: FAC	63	Nov-Mar	no	N/N
RAN	<u><i>Delphinium californicum</i></u> ssp. <i>californicum</i>	Cal. coast larkspur	Recorded historically (1868, as full species) from Bayview Hills, Golden Gate Park (Strawberry Hill), Mission Hills, and Potrero Hills (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill.	h	p	Generally slopes in dense chaparral, western side of coast ranges; Elevation: < 1000 m. WET: FACU	1	Apr-Jun	CA	YY
RAN	<u><i>Delphinium decorum</i></u> ssp. <i>decorum</i>	yellow-tinge larkspur	Recorded historically (1868, as full species) from Lake Merced, Mission Hills, Potrero Hills, and Stanford Hts. (San Miguel Hills; Howell, <i>et al.</i> , CCH). Reported from Bayview Hill. SF is the type locality (holotype of <i>D.d. var. racemosum</i>). Voucher specimen needed.	h	p	Open coastal grassland, chaparral; Elevation: < 200 m.	1	May-Jun	CA	YY
RAN	<i>Delphinium hesperium</i> ssp.	western larkspur	Known (1882, as full species) from two collections at "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1923. Presumably <i>D.h. ssp. h.</i>	h	p	Oak woodland, western slope coast ranges; Elevation: 10-1100 m. WET: FAC	0	May-Jul	CA	YY
RAN	<i>Delphinium nudicaule</i>	canyon larkspur	Known from a single 1900 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1900. There is a preliminary report from Glen. Cyn.; needs verification.	h	p	Moist talus, wooded, rocky slopes; Elevation: < 2600 m.	1	Mar-Jun	no	YY
POA	<i>Deschampsia cespitosa</i> ssp. <i>beringensis</i>	tufted hairgrass	[<i>D. beringensis</i>] Known from a single 1900 collection from "near SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1900.	g	p	Loosely clumped. Coastal marshes and meadows; Elevation: < 800 m. WET: FACW	0	Jul	no	YY

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POA	<u><i>Deschampsia cespitosa</i></u> ssp. <i>holciformis</i>	coastal tufted hairgrass	Recorded historically (1866) from Bayview Hills, Mt. Davidson, the Presidio (above Baker Beach, Lobos Cr. Valley) and San Miguel Hills (Howell, <i>et al.</i> , CCH) Reported from the Presidio (Crissy Bluffs, Doyle Dr. Natural Area, Ft. Point, Inspiration Pt., Presidio Bluffs, Presidio Hills, Tennessee Hollow, WWII Memorial). Reported (as full species) from Bayview Hill, Glen Cyn., Land's End, and Twin Peaks; needs id.	g	p	Loosely to densely clumped. Coastal marshes, meadows; Elevation: < 850 m. WET: FACW	12	May-Jul	no	Y/Y
POA	<i>Deschampsia danthonioides</i>	annual wetland hairgrass	[incl. <i>D.d. var. gracilis</i>] Recorded historically (1865) from Bayview Hills, Hunters Pt., and Lone Mt. (Howell, <i>et al.</i> , CCH). Reported from Corona Hts. and Rocky Outcrop.	g	a	Moist to drying, open sites, meadows, stream-banks, vernal pools, occasionally in alkali soil; Elevation: < 2750 m. WET: FACW	3	Mar-Aug	no	Y/Y
POA	<u><i>Deschampsia elongata</i></u>	slender hairgrass	Recorded historically (1866) from Laguna Honda Valley, Mt. Sutro, and Twin Peaks (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1957.	g	p	Densely clumped. Wet sites, meadows, lakeshores, shaded slopes; Elevation: < 3100 m. WET: FACW	0	May-Sep	no	Y/Y
BRA	<u><i>Descurainia sophia</i></u>	flix weed	Recorded historically (1953) from near Islais Cr. and SF State College (Howell, <i>et al.</i> , CCH). Reported from the Mission Dist. INVASIVE STATUS: L/-/-/-	h	a	Naturalized. Disturbed areas, fields, canyon bottoms, desert; Elevation: < 3000 m.	0	May-Aug	no	N/N
POA	<i>Desmazeria rigida</i>	ferngrass	[<i>Catapodium rigidum</i> , pending; <i>Scleropoda r.</i>] Recorded historically (1954) from Lone Mt. and Russian Hill (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	g	a	Naturalized. Open, often sandy sites; Elevation: < 700 m.	0	Apr-Sep	no	N/N
PAP	<u><i>Dicentra formosa</i></u>	Pacific bleeding-hearts	Recorded historically (1966) from Mt. Sutro and from Golden Gate Park where it was considered a garden escape (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Golden Gate Park (Strawberry Hill), Interior Greenbelt, the Presidio (Golf Course Natural Area, Presidio Bluffs), the Richmond Dist., SFSU, and Sutro Forest.	h	p	Rhizomatous. Damp, shaded areas; Elevation: < 2400 m. WET: FACU	8	Mar-Jul	CA	N/Y
THE	<i>Dichelostemma congestum</i>	oakow blue-dicks	[<i>Brodiaea congesta</i> ; <i>B. pulchella</i> , misappl.] Previously included in the Liliaceae. Recorded historically (1977; as <i>B. pulchella</i>) from Mt. Davidson (CCH); not included in Howell, <i>et al.</i> Reported from Glen Cyn., Hunters Pt. Ridge, Laguna Honda Valley, and Twin Peaks. Possibly indigenous based on distribution in the SF Bay Area.	gp	p	Corn-forming. Open woodland, grassland; Elevation: < 2000 m.	4	Apr-Jun	no	Y/Y
THE	<i>Dichelostemma id-maia</i>	firecracker flower	[<i>Brodiaea i.</i>] Previously included in the Liliaceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Not indigenous to SF. Introduced at Sutro Forest.	gp	p	Corn-forming. Forest edges, grassland; Elevation: < 2000 m.	1	May-Jul	no	N/Y
CNV	<i>Dichondra donnelliana</i>	Cal. pony's-foot	Recorded historically (1927) from Bayview Hill, Bernal Hts., Lake Merced (CCH); not included in Howell, <i>et al.</i> , which lists the ornamental <i>D. repens</i> , but suggests the native <i>D. occidentalis</i> is present away from garden settings. Reported from Bayview Hill, Bernal Hts. Park, Crocker Amazon, Dorothy Erskine Park, Glen Cyn., Kite Hill, McLaren Park, Mt. Davidson, O'Shaughnessy Hollow, the Presidio (Battery Dynamite, Crissy Bluffs, Doyle Dr. Natural Area, Dragonfly Cr., Ft. Point, Ft. Scott, Golf Course Natural Area, Horse Stables, Inspiration Pt., Mountain Lake, Oak Study Area, Officer's Row, Presidio Bluffs, Res. Cultural Plantation, Rob Hill, Tennessee Hollow, WWII Memorial), and Twin Peaks. Reintroduced at Sutro Forest.	h	p	Matted from creeping stolons. Open slopes, moist fields; Elevation: < 425 m.	28	Mar-Jun	CA	Y/Y
CNV	<i>Dichondra micrantha</i>	Asian pony's-foot	[<i>D. repens</i>] Reported historically (c. 1955) from Bayview Hills, Golden Gate Park, near Islais Cr., Land's End (Pt. Lobos), McLaren Park, Mt. Davidson, Mt. Sutro, the Presidio (Ft. Point, Presidio Bluffs), the Richmond Dist., Telegraph Hill, and Twin Peaks (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	h	p	Naturalized. Matted from creeping stolons. Disturbed sites, canyons near urban areas; Elevation: < 1000 m. WET: FACW	0	Apr-Jun	no	N/N
CNV	<i>Dichondra</i> sp.	dichondra	Reported (to genus) from Alcatraz; needs id.	h	p	n/a	1	n/a	no	n/a
PTG	<u><i>Digitalis purpurea</i></u>	purple foxglove	Recorded historically (c. 1955) from Golden Gate Park and Land's End (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Alcatraz Is., near Bernal Hts. Park, Corona Hts., Crocker Amazon, Golden Gate Park (Chain-of-Lakes, Stow Lake, misc.), Land's End, McLaren Park, Mt. Davidson, the Presidio (Lobos Cr. Valley, Mountain Lake, Presidio Hills, WWII Memorial), the Richmond Dist., Russian Hill, the Sea Cliff Dist., the Sunset Dist., Telegraph Hill, and Yerba Buena Is.; expected elsewhere. INVASIVE STATUS: L/3/-/-	h	b	Naturalized. Acid soil in open woodland, disturbed areas; Elevation: < 1700 m. WET: FACU	16	May-Jul	no	N/N
POA	<u><i>Digitaria ischaemum</i></u>	smooth crabgrass	Recorded historically (1957) from the Embarcadero and Golden Gate Park (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	g	a	Naturalized. Disturbed areas; Elevation: < 300 m. WET: FACU	0	Sep-Nov	no	N/N
POA	<i>Digitaria sanguinalis</i>	red-hair crabgrass	Recorded historically (1954) from SF (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Mountain Lake).	g	a	Naturalized. Disturbed areas; Elevation: < 1250 m. WET: FACU	1	Jun-Sep	no	N/N
AST	<i>Dimorphotheca ecklonis</i>	blue-and-white daisybush	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Main Post). Hybridizes with <i>D. fruticosa</i> .	ss	p	Naturalized. Disturbed places, beaches; escape from cultivation; Elevation: < 200 m.	1	Mar-Jul	no	N/N
AST	<i>Dimorphotheca fruticosa</i>	Cape or African daisy	[<i>Calendula f.</i> ; <i>Osteospermum fruticosum</i>]. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Duncan-Castro Open Space, Glen Cyn., and Yerba Buena Is. Possibly confused with <i>D. ecklonis</i> ; needs verification.	h-ss	p	Naturalized. Disturbed places, beaches, coastal areas; Elevation: < 200 m.	3	Jan-Dec	no	N/N
PHR	<i>Diplacusis aurantiacus</i>	sticky bush monkey-flower	[<i>Mimulus a.</i>] Previously included in the Scrophulariaceae. Recorded historically (1868) from Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End, Lone Mt., Mt. Davidson, Mt. Olympus, the Presidio (above Baker Beach, Ft. Point), San Miguel Hills, Sunnyside, Sunset Dist. dunes, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. Larval host plant for the Variable Checkerspot and Common Buckeye butterflies.	ss-s	ep	Disturbed areas, coastal cliffs, canyon sides; Elevation: < 800 m. WET: FACU	60	Mar-Jun	no	Y/Y

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BRA	<i>Diplotaxis muralis</i>	annual wall-rocket	Recorded historically (1945) from Golden Gate Park (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h	a-p	Naturalized. Disturbed areas, dry stream beds; Elevation: < 300 m.	0	May-Aug	no	N/N
DPS	<i>Dipsacus fullonum</i>	Fuller's teasel	[<i>D. sylvestris</i>] Recorded historically (1896) the Presidio (Howell, <i>et al.</i> , CCH). Reported from Laguna Honda Valley and the Presidio (Tennessee Hollow). INVASIVE STATUS: M/-/-/-	h	b	Naturalized. Road-sides, pastures, fields, sometimes moist sites; Elevation: < 1700 m. WET: FAC	3	Apr-Aug	no	N/N
DPS	<i>Dipsacus sativus</i>	Indian teasel	Recorded historically (c. 1955) from Lake Merced and the Sunset Dist. (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Laguna Honda Valley. INVASIVE STATUS: M/-/-/-	h	b	Naturalized. Disturbed areas, fields, vacant lots, pastures; Elevation: < 800 m.	1	May-Jul	no	N/N
THE	<i>Dipterostemon capitatus</i> ssp. <i>capitatus</i>	common blue-dicks	[<i>Brodiaea pulchella</i> ; <i>B. capitata</i> var. <i>insularis</i> ; <i>B. insularis</i> ; <i>Dichelostemma capitatum</i> ssp. <i>capitatum</i> ; <i>D. insulare</i> , <i>D. lacuna-vernalis</i> ; <i>D. pulchellum</i>] Previously included in the Liliaceae. Recorded historically (1901) from Bayview Hills, Clarendon Hts., Corona Hts., Hunters Pt., Laguna Honda Valley, Lake Merced, Land's End, McLaren Park, Mt. Davidson, Potrero Hill, the Presidio, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	gp	p	Corn-forming. Open areas in forest, woodland, scrub, desert, grassland, on many soils, including serpentine; Elevation: < 2500 m. WET: FACU	41	Mar-Jun	no	Y/Y
AIZ	<i>Disphyma crassifolium</i>	round-leaved pigface	[<i>Mesembryanthemum</i> c.] Recorded historically (c. 1955) from Golden Gate Park and Sutro Hts. (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	h	p	Waif or garden escape; not naturalized.	0	Apr-May	no	N/N
POA	<i>Distichlis spicata</i>	coastal saltgrass	Recorded historically (1862) from Golden Gate Park, Hunters Pt., Islais Cr., Ocean Beach, the Presidio (Baker Beach; Howell, <i>et al.</i> , CCH). Reported from Candlestick Pt., Ft. Funston, Heron's Head, Hunters Pt., Land's End, the Marina Dist., Mission Bay, Pier 94, the Presidio (Crissy Field, Ft. Point, Presidio Bluffs, Tennessee Hollow), Sutro Baths, Treasure Is., Yerba Buena Is., and Yosemite Slough. Host plant for the Sandhill Skipper butterfly.	g	p	Rhizomatous. Salt marshes, coastal dunes, moist, alkaline areas; Elevation: < 1550 m. WET: FAC	14	Apr-Sep	no	Y/Y
POA	<i>Distichlis spicata</i> 'Molaté	Molaté saltgrass	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Crissy Field); presumably planted.	g	p	Cultivar; not naturalized. WET: FAC	1	Apr-Sep	no	N/N
AST	<i>Dittrichia graveolens</i>	Mediterranean stinkwort	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. First reported in Cal. in 1984. Reported from Bayview Hill, Candlestick Pt., Hunters Pt., Land's End, Mission Bay, the Mission Dist., Pier 94, the Presidio (Golf Course Natural Area, Lobos Cr. Valley, Mountain Lake, Presidio Bluffs, Presidio Hills, Tennessee Hollow), Visitation Valley, Yerba Buena Is., and Yosemite Slough; expected elsewhere. INVASIVE STATUS: MA/-/NW,B/NW	h	a	Naturalized. Disturbed areas; Elevation: < 700 m.	14	Sep-Nov	no	N/N
AST	<i>Dittrichia viscosa</i>	false yellowhead	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. First reported in Cal. in 2014. Recently reported from Hunters Pt. INVASIVE STATUS: W/-/A/-	h	p	Naturalized. Road-sides, disturbed places, creek-sides; Elevation: +- 43 m.	1	Sep-Nov	no	N/N
ARA	<i>Dracunculus vulgaris</i>	common dracunculus	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Ft. Point, Presidio Bluffs).	h	p	Agricultural or garden weed; not naturalized.	2	sp	no	N/N
AIZ	<i>Drosanthemum floribundum</i>	rosea iceplant	[<i>Mesembryanthemum</i> f.] Recorded historically (1941) from Ft. Funston, Golden Gate Park, Land's End, Lone Mt., the Presidio (Presidio Bluffs; Howell, <i>et al.</i> , CCH). Reported from Alcatraz Is., Cliff House, Ft. Funston, Golden Gate Park, Land's End, McLaren Park, the Presidio (Ft. Point., Ft. Scott, Mountain Lake, Officer's Row, Presidio Bluffs), Sutro Baths, and Tank Hill.	h	p	Naturalized. Mat-forming. Coastal habitats; Elevation: < 35 m.	13	Apr-Jul	no	N/N
ROS	<i>Drymocallis glandulosa</i> var. <i>glandulosa</i>	sticky cinquefoil	[<i>Potentilla</i> g. ssp. g.] Recorded historically (1894) from Bayview Hills, Corona Hts., Laguna Honda Valley, Lake Merced, Mt. Davidson, the Presidio, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, Dorothy Erskine Park, Edgehill Mt., Glen Cyn, Hunters Pt., Islais Cr., Kite Hill, Laguna Honda Valley, Mt. Davidson, O'Shaughnessy Hollow, the Presidio (Ft. Point, Horse Stable, Presidio Bluffs), Richmond Distr., and Twin Peaks; reintroduced at Sutro Forest.	h	p	Tufted. Generally more-or-less shady or moist areas; Elevation: generally 400-2000 m. WET: FAC	16	May-Jul	no	Y/Y
ROS	<i>Drymocallis glandulosa</i> var. <i>wrangelliana</i>	sticky cinquefoil	Recorded historically (1974) from Twin Peaks (CCH); not included in Howell, <i>et al.</i> Reported from Twin Peaks.	h	p	Openings in coastal scrub, moist or more-or-less shaded places; Elevation: < 1000 m. WET: FAC	1	Apr-Sep	no	Y/Y
DRY	<i>Dryopteris arguta</i>	coastal wood-fern	Recorded historically (1884) from Bayview Hills, Golden Gate Park, Lake Merced, Land's End (Pt. Lobos), Lone Mt., and Mt. Davidson (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	f	p	Rhizomatous. Open, wooded slopes, caves; Elevation: < 2500 m.	24	n/a	no	Y/Y
ROS	<i>Duchesnea indica</i> var. <i>indica</i>	mock-strawberry	[Considered by some authors as <i>Potentilla</i> i.; <i>Fragaria indica</i> , misappl.] Recorded historically (1953, as full species) from Golden Gate Park, Lake Merced, and Mt. Davidson (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: -/2/-/-	h	p	Naturalized. Stoloniferous, forming ground cover. Disturbed areas; Elevation: generally < 500 m.	24	May-Aug	no	N/N
CRS	<i>Dudleya caespitosa</i>	coast dudleya	Recorded historically (1852) from Bayview Hills, Golden Gate Hts., Land's End, the Presidio (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1966.	h	p	Fleshy, caespitose. Coastal, rock, sand; Elevation: generally < 100 m.	0	Apr-Aug	CA	Y/Y
CRS	<i>Dudleya cymosa</i> ssp. <i>cymosa</i>	coast dudleya	Known from a single 1900 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1900.	h	p	Fleshy, not caespitose. Rocky outcrops, talus slopes, less often shaded canyon slopes; Elevation: 100-2700 m.	0	May-Jun	CA	Y/Y
CRS	<i>Dudleya farinosa</i>	powdery live-forever	[<i>Escheweria</i> f.] Recorded historically (1852) from Bayview Hills, Golden Gate Park, Land's End, McLaren Park, the Presidio (above Baker Beach), Pt. Lobos, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. SF is the type locality (holotype of <i>D. compacta</i>).	h	p	Fleshy. Coastal soils and cliffs; Elevation: generally < 100 m (< 600 m in San Mateo Co.)	35	Jun-Aug	no	Y/Y

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CHN	<i>Dysphania ambrosioides</i>	Mexican tea goosefoot	<u><i>Chenopodium a.</i></u> ; Amaranthaceae, pending] Recorded historically (1851) from Golden Gate Park, Lake Merced, Land's End, Nob Hill, Pacific Hts., Pine Lake, the Presidio (Mountain Lake, Presidio Hills; Howell, <i>et al.</i> , CCH, Eastwood [1898]). Reported from Ft. Funston, Pier 94, and the Presidio.	h	a-p	Naturalized. Strongly scented. Disturbed places; Elevation: < 1400 m. WET: FAC	3	Jul-Sep	no	N/N
CHN	<i>Dysphania botrys</i>	Jerusalem oak goosefoot	<u><i>Chenopodium l.</i></u> ; Amaranthaceae, pending] Recorded historically (1957) from Laurel Hts. and the Richmond Dist. (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	h	a	Naturalized. Strongly scented. Disturbed areas; Elevation: < 2100 m. WET: FACU	0	Jun-Oct	no	N/N
CHN	<i>Dysphania multifida</i>	cutleaf goosefoot	<u><i>Chenopodium multifidum</i></u> ; <i>Roubieva m.</i> ; Amaranthaceae, pending] Recorded historically (1892) from Bayview Hills, Cliff House, the Embarcadero, Golden Gate Park, near Islais Cr., Lake Merced, Land's End, Lone Mt., Nob Hill, the Presidio, Russian Hill, Sunset Dist. Dunes, and Twin Peaks (Howell, <i>et al.</i> , CCH, Eastwood [1898]). Reported from Ft. Funston, Lake Merced, the Presidio (Crissy Bluffs, Crissy Field, Ft. Point, Golf Course Natural Area, Lobos Cr. Valley, Presidio Hills, Tennessee Hollow), and Treasure Is.	h	a-p	Naturalized. Strongly scented; spreading to decumbent. Disturbed areas; Elevation: < 1400 m.	9	Jul-Oct	no	N/N
POA	<u><i>Echinochloa crus-galli</i></u>	common barnyardgrass	[<i>Panicum c-g.</i>] Recorded historically (1926) from Golden Gate Park, near Islais Cr., and Lake Merced (Howell, <i>et al.</i> , CCH), and Nob Hill (Eastwood, 1898). Reported from Lake Merced, McLaren Park, the Presidio (Mountain Lake, Presidio Hills, Tennessee Hollow); expected elsewhere.	g	a	Naturalized. Spreading, decumbent or stiffly erect. Generally wet, disturbed sites, fields, road-sides; Elevation: < 2000 m. WET: FACW	4	Jun-Oct	no	N/N
POA	<i>Echinochloa crus-galli</i> var. <i>macera</i>	gulf cockspur grass	[Unresolved; possible addition to TJM] Known from a single 1926 collection from "SF" (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF.	g	a	Possibly naturalized. WET: FACW	0	Jun-Sep	no	N/N
POA	<i>Echinochloa muricata</i> var. <i>microstachys</i>	common barnyardgrass	[<i>E. crus-galli</i> var. <i>mitis</i>] Recorded historically (1953) from Golden Gate Park, Lake Merced, the Richmond Dist., and Russian Hill (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	g	a	Naturalized. Moist, often disturbed sites (rarely in rice fields); Elevation: < 1800 m. WET: FACW	0	July	no	N/N
ALI	<i>Echinodorus berteroi</i>	upright burhead	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. However, SF lies within the bioregional range of the species; considered indigenous. Reported from the Presidio (Mountain Lake, Presidio Hills. Voucher specimen needed.	h	a-p	Ponds, ditches; Elevation: < 300 m. WET: OBL	2	sum-fall	no	Y/Y
BOR	<i>Echium candicans</i>	pride-of-Madeira	[<i>E. fastuosum</i>] Recorded historically (c. 1955) from the Presidio (above Baker Beach, Presidio Hills; Howell, <i>et al.</i>); there are no SF records in CCH. Reported from throughout the city and the Presidio. INVASIVE STATUS: L/3/-/-	s	p	Naturalized. Open, dry slopes, bluffs; Elevation: < 500 m.	47	Feb-Oct	no	N/N
BOR	<i>Echium pininana</i>	pine echium	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Bernal Hts. Park, Buena Vista Park, Golden Gate Hts., Golden Gate Park (Chain-of-Lakes, Oak Woodland, Strawberry Hill, misc.), Laguna Honda, Land's End, Laurel Hts., McLaren Park, Ocean Beach, Pine Lake, the Presidio (Armistead Housing, Fr. Point, Inspiration Pt., Lyon St. Plantation, Tennessee Hollow), Sutro Forest, and Twin Peaks. INVASIVE STATUS: -/2/-/-	s	p	Naturalized. Disturbed areas, steep slopes; Elevation: < 240 m.	20	May-Aug	no	N/N
BOR	<i>Echium vulgare</i>	common viper's bugloss	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Ft. Point)	s	p	Waif or garden escape; not naturalized.	1	sum	no	N/N
HDC	<u><i>Egeria densa</i></u>	Brazilian waterweed	[<i>Elodea d.</i>] Recorded historically (1927) from "SF", where it had naturalized (Howell, <i>et al.</i> , CCH). There are not contemporary reports from SF. INVASIVE STATUS: H/-/C/-	h	p	Naturalized. Submersed, rooted aquatic. Streams, ponds, sloughs; Elevation: < 2200 m. WET: OBL	0	Jul-Aug	no	N/N
PAP	<i>Ethendorferia chrysantha</i>	golden eardrops	Known from a single 1868 collection from an unspecified location (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1868.	h	p	Dry slopes, burns, disturbed areas; Elevation: < 2300 m. SERP: 1.1	0	May-Jul	no	Y/Y
POA	<i>Ehrharta calycina</i>	perennial veldtgrass	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Richmond Dist. INVASIVE STATUS: H/-/-/-	g	p	Naturalized. Often rhizomatous. Sandy soils; Elevation: generally < 500 m.	0	Mar-May	no	N/N
POA	<i>Ehrharta erecta</i>	erect veldtgrass	Recorded historically (1973) from Golden Gate Park and Grand View Avenue near the base of Twin Peaks (CCH); not included in Howell, <i>et al.</i> Reported from throughout the city and the Presidio. INVASIVE STATUS: M/1/-/-	g	p	Naturalized. Erect or ascending, not rhizomatous. Disturbed, often shady, moist sites; Elevation: generally < 915 m.	76	Mar-Jun	no	N/N
PON	<i>Eichhornia crassipes</i>	common water hyacinth	[<i>Pontederia c.</i> , pending] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Embarcadero, the Presidio (Crissy Field). INVASIVE STATUS: H/-/-/-	h	p	Naturalized. Free-floating aquatic. Ponds, sloughs, waterways; Elevation: < 200 m. WET: OBL	1	Jun-Nov	no	N/N
ELT	<u><i>Elatine brachysperma</i></u>	short-seed waterwort	Recorded historically (c. 1890) from the Presidio (Mountain Lake; Calflora) and near the Cliff House (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1901.	h	a-p	Rooted aquatic or on wet ground. Muddy shores, shallow pools; Elevation: 50-500 m. WET: OBL	0	Apr-Sep	no	Y/Y
ELT	<i>Elatine heterandra</i>	mosquito waterwort	Not included in Howell, <i>et al.</i> Known from a single 1891 collection from the Presidio (Mountain Lake; CCH). Few records from Central Coast. Extirpated; last collected in 1891.	h	a-p	Rooted aquatic or on wet ground. Pond edges; Elevation: 1000-1500 m. WET: OBL	0	Apr-Jul	no	Y/Y
CYP	<u><i>Eleocharis acicularis</i></u> var.	needle spike-rush	Known (as full species) from a single 1897 collection from the Presidio (Mountain Lake; Howell, <i>et al.</i> , CCH). Possibly <i>E.a.</i> var. <i>a.</i> or <i>E. bella</i> . Extirpated; last collected in 1897.	g	p	Weakly rhizomatous, often forming mats. Meadows, fresh wet soil to submerged. WET: OBL	0	Jul-Aug	no	Y/Y
CYP	<i>Eleocharis bella</i>	beautiful spike-rush	[<i>E. acicularis</i> var. <i>b.</i>] Known from a single 1904 collection from Lake Merced (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1904.	g	a-p(?)	Weakly rhizomatous, tufted to matted. Fresh wet bare soil; Elevation: < 2300 m. WET: FACW	0	Jul-Aug	no	Y/Y

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CYP	<u><i>Eleocharis macrostachya</i></u>	longstem spike-rush	[<i>E. palustris</i>] Recorded historically (1860) from Bayview Hills, Golden Gate Park, Land's End, and the Presidio (Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from the Presidio (Doyle Dr. Natural Area, Dragonfly Cr., Lobos Cr. Valley, Mountain Lake, Presidio Hills, Tennessee Hollow).	g	p	Rhizomatous. Fresh to brackish wetland; Elevation: 10-2300 m.	6	sp-sum	no	Y/Y
CYP	<i>Eleocharis palustris</i>	common spike-rush	Recorded historically (1927) from Bayview Hill, the Presidio (Mountain Lake), and se. SF (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1956.	g	p	Rhizomatous. Fresh ponds, shores, marshes; Elevation: < 3000 m. WET: OBL	0	sum	no	Y/Y
CYP	<u><i>Eleocharis radicans</i></u>	rooted spike-rush	[<i>E. acicularis</i> var. <i>r.</i>] Recorded historically (1904) from Lake Merced and the Presidio (Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way.	g	p	Rhizomatous. Exposed soil or shallow water of shores, streams, marshes, seeps; Elevation: 100-1400 m. WET: OBL	1	sp-win	no	Y/Y
CYP	<u><i>Eleocharis rostellata</i></u>	beaked spike-rush	Known from a single 1900 collection from the Presidio (near Ft. Point; Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1900. SF is the type locality (holotype of <i>E.r.</i> var. <i>congoensis</i>).	g	p	Rhizomatous, forming dense mats. Mineral-rich fens, springs, hot springs, coastal marshes; Elevation: -50-2400 m. WET: OBL	0	Mar-Jun	no	Y/Y
HDC	<u><i>Flodea canadensis</i></u>	common waterweed	Recorded historically (1956) from Lake Merced (Howell, <i>et al.</i> , CCH). Extirpated last collected in 1956.	h	p	Submersed aquatic. Shallow water, sloughs, ponds, lakes; Elevation: 300-2600 m. WET: OBL	0	Jun-Aug	no	Y/Y
POA	<i>Elymus caput-medusae</i>	Medusa-head wildrye	[<i>Taeniatherum c.</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Bernal Hts. Park, McLaren Park, O'Shaughnessy Hollow, and the Presidio (Lobos Cr. Valley). INVASIVE STATUS: H/-/NW,C/-	g	a	Naturalized. Decumbent to ascending not rhizomatous. Disturbed areas; Elevation: < 2000 m.	4	Apr-Jul	no	N/N
POA	<i>Elymus condensatus</i>	Cal. giant wildrye	[<i>Leymus c.</i>] Recorded historically (1865) from SF and near the Cliff House (CCH); not included in Howell, <i>et al.</i> Reported from the Presidio (Tennessee Hollow) and Yerba Buena Is. Planted at the Sunset Dist. Preferred larval host plant for the Woodland Skipper butterfly.	g	p	Cespitose, rhizomes 0 or short. Dry slopes, open woodland; Elevation: < 1830 m.	2	Jun-Aug	no	Y/Y
POA	<i>Elymus elymoides</i> var.	bottlebrush squirreltail	[<i>Sitanion hystrix</i>] Known (as full species) from a single 1865 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Reported from McLaren Park. Potentially <i>E.e.</i> var. <i>brevifolius</i> . Preferred larval host plant for the Woodland Skipper butterfly.	g	p	Cespitose. Dry, open areas; Elevation: 450-3500 m. WET: FACU	1	Apr-May	no	Y/Y
POA	<u><i>Elymus glaucus</i> ssp. <i>glaucus</i></u>	blue or western wildrye	[Incl. <u><i>E.g.</i> var. <i>jeppsoni</i></u> ; <i>E. angustifolius</i>] Recorded historically (1912) from Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End, Mt. Davidson, Pine Lake, the Presidio, and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. SF is the type locality (holotype, syntype of <i>E. angustifolius</i>). Preferred larval host plant for the Woodland Skipper butterfly.	g	p	Sometimes short-rhizomed. Open areas, chaparral, woodland, forest; Elevation: < 2890 m. WET: FACU	32	Jun-Aug	no	Y/Y
POA	<i>Elymus glaucus</i> ssp. <i>virescens</i>	blue wildrye	[<i>E. virescens</i>] Recorded historically (1896) from Bayview Hills, Dairy Rock, Golden Gate Park (Quarry Lake/Lily Pond), Hunters Pt., Lone Mt., Mt. Davidson, the Presidio, and the Sunset Dist. (CCH); not included in Howell, <i>et al.</i> Reported from Mt. Davidson. Preferred larval host plant for the Woodland Skipper butterfly.	g	p	Sometimes short-rhizomed. Conifer forest, chaparral, rocky soils, riverbanks; Elevation: < 2800 m. WET: FACU	1	May-Jul	no	Y/Y
POA	<i>Elymus hispidus</i>	intermediate wheatgrass	[<i>Thinopyrum intermedia</i> ssp. <i>intermedia</i> , pending; <i>Elytrigia i.</i> ssp. <i>i.</i>] Known from a single 1925 collection on dunes at Ingleside (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF.	g	p	Naturalized. Rhizomatous. Open areas, slopes; Elevation: < 2500 m.	0	Jun-Aug	no	N/N
POA	<u><i>Elymus mollis</i> ssp. <i>mollis</i></u>	American dune-grass	[<i>Leymus m.</i> ssp. <i>m.</i>] Recorded historically (1914, as full species) from Ocean Beach (Howell, <i>et al.</i> , CCH). Reported (as full species) from Ft. Funston, Land's End, Ocean Beach, and Sutro Baths; reintroduced at Balboa Natural Area and the Presidio (Baker Beach, Crissy Field). Host for the Woodland Skipper butterfly.	g	p	From well developed rhizomes. Sandy beaches; Elevation: generally < 10 m.	7	May-Jul	no	Y/Y
POA	<i>Elymus multisetus</i>	big squirrel-tail grass	[<i>Sitanion jubatum</i>] Recorded historically (1950) from Bayview Hills and McLaren Park (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, and McLaren Park. Voucher specimen needed. Preferred larval host plant for the Woodland Skipper butterfly.	g	p	Cespitose. Open, sandy to rocky areas; Elevation: < 3800 m.	3	May-Jul	no	Y/Y
POA	<u><i>Elymus pacificus</i></u>	maritime rye	[<i>Leymus p.</i>] Recorded historically (1950) from Golden Gate Park, Lake Merced, Land's End (Pt. Lobos), Pine Lake, the Presidio (Baker Beach), the Richmond Dist., and Sutro Hts. (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston and the Presidio (Inspiration Pt., Lobos Cr. Valley, Presidio Bluffs, Presidio Hills, Tennessee Hollow, WWII Memorial). Host for the Woodland Skipper butterfly.	g	p	Strongly rhizomatous. Coastal bluffs; Elevation: < 230 m.	7	May-Jul	CA	Y/Y
POA	<i>Elymus repens</i>	quack grass	[<i>Agropyron r.</i> ; <i>Elytrigia r.</i>] Recorded historically (1947) from the Embarcadero, Golden Gate Park, the Richmond Dist., Rocky Outcrop, Sutro Hts. (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF. INVASIVE STATUS: -/-/NW/-	g	p	Naturalized. Strongly rhizomatous. Weed of disturbed areas, cultivated fields; Elevation: < 2150 m. WET: FAC	0	Apr-Aug	no	N/N
POA	<i>Elymus triticoides</i>	alkali wildrye	[<i>Leymus t.</i>] Recorded historically (1865) from Bayview Hills, the Embarcadero, near Islais Cr., Lake Merced, Lone Mt., and the Presidio (Howell, <i>et al.</i> , CCH). Reported from Alcatraz Is., Bayview Hill, Candlestick Pt., Hawk Hill, Land's End, Sutro Baths, Yerba Buena Is., and throughout the Presidio. Host for the Woodland Skipper butterfly. SF is the type locality (holotype of <i>E.t.</i> ssp. <i>multiflorus</i>).	g	p	Rhizomatous. Dry to moist, often saline, meadows; Elevation: < 2500 m.	36	Jun-Jul	no	Y/Y
POA	<i>Elymus</i> ^x <i>gouldii</i>	many flowered wildrye	[<i>Leymus</i> ^x <i>multiflorus</i>] Sterile hybrid between <i>E. condensatus</i> and <i>E. triticoides</i> . Recorded historically (1954) from Bayview Hills and Lake Merced (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1956.	g	p	Rhizomatous. Open areas, often saline soils; Elevation: < 1615 m.	0	May-Jul	no	Y/Y
POA	<i>Elymus</i> ^x <i>hanseni</i>	Hansen's wildrye	[Unresolved; possible addition to TJM. <i>Sitanion h.</i>] Sterile hybrid between <i>E. elymoides</i> and <i>E. glaucus</i> . Known from a single 1956 collection from Bayview Hill (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1956.	g	p	Cespitose. Open area on dry rocky slope in coniferous forests.	0	sum	no	Y/Y

ANNOTATED CHECKLIST OF THE VASCULAR PLANTS OF SAN FRANCISCO

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POA	<i>Lythmus</i> ^r <i>vancouverensis</i>	Vancouver wildrye	[<i>Leymus</i> ^r <i>vancouverensis</i>] Sterile hybrid between <i>E. mollis</i> and <i>E. triticoides</i> . Recorded historically (c. 1956) from Lake Merced (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Lake Merced and Yerba Buena Is. Voucher specimen needed. Host for the Woodland Skipper butterfly.	g	p	Rhizomatous. Sandy beaches; Elevation: < 100 m.	2	Jul	no	Y/Y
PLG	<i>Emex australis</i>	southern three-cornered jack	[<i>Rumex hypogaeus</i> , pending] Recorded historically (1881) from "SF" (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF. INVASIVE STATUS: -/-/-/NW	h	a	Naturalized. Coastal, sandy areas; Elevation: < 200 m.	0	May-Dec	no	N/N
PLG	<i>Emex spinosa</i>	Devil's thorn	[<i>Rumex spinosus</i> , pending] Known from two 1881 collections at "SF" (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF. INVASIVE STATUS: MA/-/-/NW	h	a	Naturalized. Dry, sandy, disturbed places; Elevation: < 500 m.	0	May-Dec	no	N/N
ONA	<i>Epilobium brachycarpum</i>	tall annual willow-herb	[incl. <i>E. paniculatum</i> forma <i>adenocladon</i> and <i>laevicaule</i>] Recorded historically (1901) from Bayview Hills, the Embarcadero, Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End (Pt. Lobos), Lone Mt. McLaren Park, Mt. Davidson, Pine Lake, the Presidio, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a	Dry or seasonally moist, often disturbed ground in open woods, meadows, prairies, esp. on road-sides, stream-banks; Elevation: < 3300 m. WET: FAC	40	Jun-Sep	no	Y/Y
ONA	<i>Epilobium canum</i> ssp.	Cal. fuchsia	[<i>Zauscheria cana</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from throughout the city where it is presumed to have been horticultural plantings. Status as an indigenous SF taxon uncertain. <i>E.c.</i> ssp. <i>c.</i> is known from San Bruno Mt., Angel Is, and near the Bay in Alameda Co. where it is presumed indigenous.	h	p	Dry slopes, ridges; Elevation: < 2100 m.	18	Aug-Oct	no	N/Y
ONA	<i>Epilobium ciliatum</i> ssp.	willow-herb	Reported (as full species) from Billy Goat Hill, Clarendon Hts., Glen Cyn., Golden Gate Park (Lily Pond, Mallard Lake, Stow Lake, Strawberry Hill, misc.), Interior Greenbelt, Land's End, McLaren Park, Mt. Davidson, O'Shaughnessy Hollow, Pine Lake, the Presidio (Baker Beach, Crissy Field, Ft. Scott, Inspiration Pt., Main Post, Mountain Lake, Presidio Bluffs, Rob Hill, Simond's Loop, sw. dunes, Tennessee Hollow, WWII Memorial), the Richmond Dist., the Sea Cliff Dist., SFSU, the Sunset Dist., and Sutro Forest; needs id.	h	p	WET: FACW	28	May-Oct	no	Y/Y
ONA	<i>Epilobium ciliatum</i> ssp. <i>ciliatum</i>	fringed willow-herb	[<i>E. adenocaulon</i> var. <i>parishii</i> and var. <i>occidentale</i>] Recorded historically (1933) from Golden Gate Park, Lake Merced, Lone Mt., and Stern Grove (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, Golden Gate Park (Strawberry Hill), Ocean Beach, the Presidio (Mountain Lake, Presidio Hills), Starr King, and Yerba Buena Is.	h	p	Disturbed places, moist meadows, stream-banks, road-sides; Elevation: < 4100 m. WET: FACW	8	Jun-Oct	no	Y/Y
ONA	<i>Epilobium ciliatum</i> ssp. <i>watsonii</i>	coast willow-herb	[<i>E. watsonii</i> var. <i>franciscanum</i>] Recorded historically (1882) from Brotherhood Way, Golden Gate Park, Lake Merced, Land's End, Lone Mt., McLaren Park, Mt. Davidson, Oceanview, the Presidio (Ft. Point, Mountain Lake), Russian Hill, and Telegraph Hill (Howell, <i>et al.</i> , CCH). Reported from throughout the city and Presidio. SF is the type locality (isolectotype of <i>E. franciscanum</i>).	h	p	Moist coastal bluffs, stream-sides, more-or-less disturbed sites; Elevation: < 200 m. WET: FACW	32	May-Oct	no	Y/Y
ONA	<i>Epilobium densiflorum</i>	denseflower willowherb	[<i>Boisduvalia densiflora</i>] Known from a single 1956 collection from Bayview Hills (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1956.	h	a	Stream-banks, out-washes, seasonal moist flats; Elevation: < 2600 m. WET: FACW	0	Jun-Aug	no	Y/Y
ONA	<i>Epilobium minutum</i>	little willowherb	Known from a single report (c. 1880) from Mission Hills (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Lake Merced (Ochoa, 2001). Voucher specimen needed.	h	a	Dry, open, disturbed areas, vernal pools, often after fire; Elevation: 15-2320 m. WET: FACU. SERP: 2.0	1	Apr-Jun	no	Y/Y
ORC	<i>Epipactis gigantea</i>	giant helleborine	Known from a single 1891 report from near Sixth and Harrison streets (Howell, <i>et al.</i>); there are no historic SF records in CCH. Extirpated; last collected in 1891. Reported from Treasure Is. where it was undoubtedly introduced. Infrequent in the SF Bay Area. SF lies within the bioregion; presumed to be indigenous to SF.	h	p	Seeps, wet meadows, stream-banks; Elevation: < 2600 m. WET: OBL	0	May-Jul	no	Y/Y
ORC	<i>Epipactis helleborine</i>	broadleaf helleborine	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Glen Cyn., Golden Gate Park, Islais Cr., McLaren Park, the Presidio (Crissy Field, Lobos Cr. Valley, Mountain Lake), SFSU, SOMA, and Telegraph Hill.	h	p	Naturalized. Generally dry slopes, road-cuts, mixed-conifer forest; Elevation: < 1300 m. WET: FACU	9	Apr-Dec	no	N/N
EQU	<i>Equisetum arvense</i>	common horsetail	Recorded historically (1897) from Golden Gate Park, Islais Cr., Lake Merced, and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Islais Cr., McLaren Park, and the Presidio (Ft. Point)	f	a	Rhizomatous. Stream-banks, wet meadows, springs, other wet, shaded places; Elevation: < 3050 m. WET: FAC	4	n/a	no	Y/Y
EQU	<i>Equisetum hyemale</i> ssp. <i>affine</i>	giant scouring-rush	[<i>E.h.</i> var. <i>californicum</i> ; <i>E.h.</i> var. <i>robustum</i>] Recorded historically (1881) from Laguna Honda Valley (Alms House), Land's End (Pt. Lobos), Pine Lake, and the Presidio (Lobos Cr. Valley, sw. dunes; Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way, Golden Gate Park, Pine Lake, the Presidio (Ft. Point, Lobos Cr. Valley, Presidio Hills, sw. dunes), SFSU, and the Sunset Dist.	f	p	Rhizomatous. Streams, moist, sandy, gravelly areas; Elevation: < 2500 m. WET: FACW	8	n/a	no	Y/Y
EQU	<i>Equisetum laevigatum</i>	smooth horsetail	Recorded historically (1956) from Russian Hill (Howell, <i>et al.</i>) and from Lake Merced (1978; CCH) where it may still occur; needs confirmation.	f	a	Moist, sandy or gravelly areas; Elevation: < 3000 m. WET: FACW	1	n/a	no	Y/Y
EQU	<i>Equisetum palustre</i>	marsh horsetail	Recorded historically (1934) from Lake Merced (CCH); not included in Howell, <i>et al.</i> Known from SF and from single records each in Lake and Riverside Cos.; Extirpated; last collected in 1934. RARITY STATUS: -/-/-3	f	a	Marshes; Elevation: < 300 m. WET: FACW	0	n/a	no	Y/Y
EQU	<i>Equisetum telmateia</i> ssp. <i>braunii</i>	common giant horsetail	Recorded historically (1892) from Bayview Hills, Islais Cr., Laguna Honda Valley, Lake Merced, the Presidio (Ft. Point), and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Golden Gate Park, Laguna Honda Valley, Land's End, McLaren Park, the Presidio (Crissy Bluffs, Dragonfly Cr., Ft. Point, Presidio Hills), Sutro Baths, and Yerba Buena Is.	f	p	Rhizomatous. Stream-banks, roadside ditches, seepage areas; Elevation: < 1000 m. WET: FACW	11	n/a	no	Y/Y

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EQU	<i>Equisetum</i> [*] <i>ferrissii</i>	giant scouring-rush	[<i>E. hymale</i> , var. <i>glatum</i> ; taxonomically valid sterile hybrid between <i>E.h. ssp. affine</i> and <i>E. laevigatum</i>] Recorded historically (1897) from Laguna Honda Valley (Alms House), Golden Gate Park, Lake Merced, Land's End (Pt. Lobos), the Presidio (Lobos Cr. Valley), and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Naturalized at Golden Gate Park (Strybing Arboretum).	f	a-p	Rhizomatous. Moist, sandy or gravelly areas; Elevation: < 3000 m. WET: FACW	1	n/a	no	Y/Y
POA	<i>Eragrostis cilianensis</i>	stinkgrass	Recorded historically (c. 1900) from "SF" (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	g	a	Naturalized. Disturbed soils; Elevation: < 2000 m. WET: FACU	0	Jun-Oct	no	N/N
POA	<i>Eragrostis mexicana ssp. mexicana</i>	Mexican lovegrass	[<i>E. neomexicana</i>] Recorded historically (1952) from SF State College (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF.	g	a	Disturbed soils in fields, forest margins, disturbed areas; Elevation: < 1500 m. WET: FACU	0	May-Sep	no	N/Y
POA	<i>Eragrostis mexicana ssp. virescens</i>	Chilean lovegrass	[<i>E. arcuttiana</i>] Recorded historically (1952) from Golden Gate Park where it was presumably introduced from elsewhere in Cal. (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	g	a	Disturbed soils in fields, sandy riverbanks; Elevation: < 2470 m. WET: FACU	0	May-Oct	no	N/Y
POA	<i>Eragrostis pectinacea var. pectinacea</i>	western lovegrass	[<i>E. diffusa</i>] Recorded historically (c. 1955) from Islais Cr., where it was presumed to have been introduced (Howell, <i>et al.</i>); there are no SF records in CCH. Known from a 2003 report at the Presidio (WWII Memorial). Presumed not to be indigenous in SF. Voucher specimen needed.	g	a	Open disturbed sites, fields; Elevation: < 1500 m. WET: FAC	1	Jul-Nov	no	N/Y
POA	<i>Eremochloa ciliaris</i>	fringed centipede grass	Reported historically (1862) from "SF" (Howell, <i>et al.</i> , CCH). Native to se. Asia; believed extirpated in Cal. There are no contemporary reports from SF.	g	p	Disturbed places. WET: FACU	0	sum-fall	no	N/N
ERI	<i>Erica lusitana</i>	Spanish heather	Known from a single 1912 record from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF. INVASIVE STATUS: L/-/B/-	s	ep	Naturalized. Disturbed, open, sandy areas; Elevation: < 50 m.	0	Mar-Jul	no	N/N
AST	<i>Ericameria ericoides</i>	mock heather, dune heather	[<i>Diplopappus e.</i> ; <i>Haplopappus e.</i>] Recorded historically (1817) from Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End, Lone Mt., the Presidio (Baker Beach, Baker Beach n, Lobos Cr. Valley, Presidio Hills), Sunset Dist. dunes, and Suro Hts. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	s	ep	Dunes, inland sandy soils; Elevation: < 600 m.	27	Sep-Nov	CA	Y/Y
AST	<i>Erigeron biolettii</i>	streamside daisy	Known from a single 1868 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1868. SF was the southernmost station for the species. RARITY STATUS: -/-/B	h	p	Dry slopes, rocks, ledges along rivers; Elevation: < 1100 m.	0	Jun-Oct	CA	Y/Y
AST	<i>Erigeron blochmaniae</i>	Blochman's leafy daisy	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Native Cal. taxon but not considered indigenous here; SF occ. represents an extreme range extension. Reported from Bayview Hill; needs verification. RARITY STATUS: -/-/B.2	h	p	Sand dunes and hills; Elevation: < 70 m.	1	Jun-Aug	CA	N/Y
AST	<i>Erigeron bonariensis</i>	flax-leaved horseweed	[<i>Conyza b.</i> ; <i>Conyza crispa</i>] Recorded historically (1928) from the Embarcadero, Golden Gate Park (Stow Lake), near Islais Cr., Lake Merced, Potrero Hills, the Presidio (Lobos Cr. Valley, Mountain Lake), and the Sunset Dist. (CCH); not included in Howell, <i>et al.</i> Reported from Ft. Funston, Glen Cyn., Golden Gate Park, Hunters Pt., Laguna Honda Valley, McLaren Park, Pier 94, the Presidio (Baker Beach, Crissy Bluffs, Crissy Field, Ft. Scott, Lobos Cr. Valley, Presidio Hills, sw. dunes, Tennessee Hollow), the Richmond Dist., Starr King, the Sunset Dist., and Twin Peaks; expected elsewhere.	h	a	Naturalized. Disturbed sites; Elevation: < 1300+ m. WET: FACU	17	Jan-Dec	no	N/N
AST	<i>Erigeron canadensis</i>	Canadian horseweed	[<i>Conyza c.</i>] Recorded historically (1926) from Bayview Hills, Golden Gate Park, Islais Cr., Laguna Honda Valley, Lake Merced, Land's End, Lone Mt., Marina Dist., Nob Hill, the Presidio (Pt. Point), and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a	Disturbed places; Elevation: generally < 2300 m. WET: FACU	29	Jan-Dec	no	Y/Y
AST	<i>Erigeron foliosus</i> var.	leafy fleabane	Recorded historically (1913, as full species) from Bayview Hills, Lake Merced, and Pt. Lobos (Howell, <i>et al.</i>) Reported (as full species) from Bayview Hill, Bernal Hts. Park, Brotherhood Way, Corona Hts., Ft. Funston, Glen Cyn., O'Shaughnessy Hollow; needs id. Could be <i>E.f. var. foliosus</i> or <i>E.f. var. franciscensis</i> (the latter is most likely based on the number of recent SF vouchers in CCH); both taxa are known historically from SF (CCH).	h	p	n/a	7	May-Aug	no	Y/Y
AST	<i>Erigeron foliosus</i> var. <i>foliosus</i>	leafy fleabane	Recorded historically (1883) from "SF" (CCH); recorded (as full species) from Bayview Hills, Lake Merced, and Pt. Lobos (Howell, <i>et al.</i>) SF represents the northernmost station for the taxon. Reported (as full species) from Bayview Hill, Bernal Hts. Park, Brotherhood Way, Corona Hts., Ft. Funston, Glen Cyn., and O'Shaughnessy Hollow; needs id. Could be <i>E.f. var. foliosus</i> or <i>E.f. var. franciscensis</i> .	h-s	p	Open, rocky grassland, chaparral, forest; Elevation: < 2900 m.	0	May-Sep	no	Y/Y
AST	<i>Erigeron foliosus</i> var. <i>franciscensis</i>	San Francisco leafy fleabane	Recorded historically (c. 1880) from Bayview Hills, Brotherhood Way, Lake Merced, and Land's End (Pt. Lobos; CCH); not included in Howell, <i>et al.</i> Reported (as full species) from Bayview Hill, Bernal Hts., Brotherhood Way, Corona Hts., Ft. Funston, Glen Cyn., O'Shaughnessy Hollow; needs id. SF is the type locality (holotype of <i>E.f. var. f.</i>)	h	p	Grassy dunes, chaparral, oak woodland; Elevation: < 800 m.	0	May-Sep	no	Y/Y
AST	<i>Erigeron glaucus</i>	Cal. seaside daisy	Recorded historically (1872) from Land's End, Lake Merced, Mt. Davidson, the Presidio (Pt. Point, Lobos Cr. Valley), San Miguel Hills, Sunset Hts., Suro Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h-ss	p	Coastal bluffs, dunes, beaches; Elevation: < 20 m. WET: FACU	52	May-Jul	no	Y/Y
AST	<i>Erigeron karwinskianus</i>	Mexican fleabane	Recorded historically (1957) from Lone Mt. and Telegraph Hill (Howell, <i>et al.</i> , CCH). Reported from the Embarcadero, Glen Cyn., Golden Gate Park, McLaren Park, Mission Bay, the Mission Dist., the Presidio (Pt. Point, Lobos Cr. Valley, Presidio Bluffs), the Richmond Dist., Rocky Outcrop, Russian Hill, SFSU, Starr King, the Sunset Dist., Suro Hts., Telegraph Hill, Twin Peaks, and Yerba Buena Is.	h	p	Naturalized. Shaded rock walls, moist disturbed habitats; Elevation: < 1100 m. WET: FAC	14	Apr-Aug	no	N/N

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AST	<i>Eriogonum philadelphicus</i> var. <i>philadelphicus</i>	Philadelphia fleabane	Recorded historically (1891, as full species) from Laguna Honda Valley (Alms House), Oceanview, SF State College, and Visitación Valley (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1954.	h	a-p	Stream-sides, other moist habitats; Elevation: < 1200 m. WET: FACU	0	Apr-May	no	Y/Y
AST	<i>Eriogonum</i> sp.	fleebane daisy	Reported (to genus) from Glen Cyn., McLaren Park; needs id.	h-ss	a-p	n/a	2	n/a	no	n/a
AST	<i>Eriogonum sumatrensis</i>	tropical horseweed	[<i>Conyza floribunda</i>] Recorded historically (1956) from the Embarcadero, Islais Cr., Mission Bay, and San Miguel Hills (CCH). Also recorded historically (1957, as <i>Conyza bilbaoana</i>) from Bayview Hills, Golden Gate Park, Lake Merced, Lone Mt., and the Presidio (Howell, <i>et al.</i>) Reported from Glen Cyn, and the Presidio (Crissy Field, Presidio Hills, Res. Cultural Plantation, sw. dunes, Washington/Armatury Housing, WWII Memorial).	h	a	Naturalized. Disturbed sites; Elevation: < 600+ m.	7	Jan-Dec	no	N/N
ROS	<i>Eriobotrya japonica</i>	Japanese loquat	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Land's End, the Marina Dist. and Yerba Buena Is.	t	p	Agricultural, garden, or urban weed; not naturalized.	2	fall	no	N/N
ROS	<i>Eriodictyon californicum</i>	yerba santa	Known from a single 1868 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1868. Reported from Ft. Scott; presumably planted.	s	p	Slopes, fields, road-sides, woodland, chaparral; Elevation: 20-1830 m.	1	May-Jun	no	Y/Y
PLG	<i>Eriogonum fasciculatum</i> var.	Cal. buckwheat	Recorded historically (1893, as full species) from SF (CCH); not included in Howell, <i>et al.</i> Reported (as full species) from Bayview Hill, Ft. Funston, Golden Gate Park, Laguna Honda Valley, Palou-Phelps, and the Sunset Dist. Not indigenous to SF; all SF occs. are planted or seeded. Host plant for the Acmon Blue, Blue Copper, Gorgon Copper, and Western Green Hairstreak butterflies.	s	p	Sand; Elevation: < 300 m.	5	Jan-Dec	no	N/Y
PLG	<i>Eriogonum fasciculatum</i> var. <i>foliolosum</i>	flat-top buckwheat	Recorded historically (1891) from Black Pt. (Ft. Mason) where it was presumed to have been introduced (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Ft. Funston and Yerba Buena Is. Not indigenous to SF; all SF occs. are planted or seeded.	s	p	Gravel; Elevation: 60-1300 m.	2	Jan-Dec	no	N/Y
PLG	<i>Eriogonum giganteum</i> var.	St. Catherine's lace	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported (as full species) from Golden Gate Park, Lake Merced, Mt. Davidson (base of w. slope), and Telegraph Hill; needs id.	s	p	Widely cultivated. Gravel; Elevation: < 450 m.	3	Jan-Dec	no	N/Y
PLG	<i>Eriogonum latifolium</i>	coastal bluff buckwheat	Recorded historically (1852) from Bayview Hills, Ft. Funston, Golden Gate Hts., Hawk Hill, Hunters Pt., Lake Merced, Land's End, Laurel Hill Cemetery, Lone Mt., Ocean Beach, the Presidio (Baker Beach, Lobos Cr. Valley, Presidio Bluffs), the Sunset Dist., Sutro Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and Presidio. Host plant for the Acmon Blue, Pacific Dotted-Blue, and Green Hairstreak butterflies.	h-ss	p	Sand; Elevation: < 80 m.	60	Jan-Dec	no	Y/Y
PLG	<i>Eriogonum nudum</i> var. <i>auriculatum</i>	nude buckwheat	Recorded historically (1933) from Mt. Davidson, San Miguel Hills, and Sunset Dist. dunes (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1956.	s	p	Sand or gravel; Elevation: < 1200 m.	0	Jun-Sep	CA	Y/Y
PLG	<i>Eriogonum nudum</i> var. <i>nudum</i>	nude buckwheat	Recorded historically (1905) from Hunters Pt. (Howell, <i>et al.</i> , CCH). Reported from Starr King. Also reported (as full species) from Bernal Hts. Park, Billy Goat Hill, Corona Hts., Glen Cyn., Hunters Pt., McLaren Park, above Sutro Baths, and Twin Peaks; needs id. Some of these locations might be planted. Host plant for the Acmon Blue and Green Hairstreak butterflies.	s	p	Sand or gravel; Elevation: 10-2100 m.	9	May-Aug	no	Y/Y
CYP	<i>Eriophorum gracile</i>	slender cottongrass	Known from a single 1891 report from near Sixth and Harrison streets (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1891. RARITY STATUS: —/—/4.3	h	p	Rhizomatous. Wet meadows, bogs; Elevation: generally 600-2900 m. WET: OBL	0	May-Sep	no	Y/Y
AST	<i>Eriophyllum confertiflorum</i> var. <i>confertiflorum</i>	golden yarrow	Recorded historically (1863) from Bayview Hills, Brotherhood Way, Corona Hts., Mt. Davidson, Ocean Beach, San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Buena Vista Park, Corona Hts., Glen Cyn., Land's End, McLaren Park, Mt. Davidson, O'Shaughnessy Hollow, the Presidio (Baker Beach, Crissy Bluffs, Ft. Point, Ft. Scott, Presidio Bluffs, Presidio Hills, sw. dunes, Tennessee Hollow, WWII Memorial), and Twin Peaks.	t	ep	Many dry habitats; Elevation: < 3000 m.	19	Apr-Aug	no	Y/Y
AST	<i>Eriophyllum lanatum</i> var.	woolly sunflower	Reported (as full species) from Laurel Hts., Hayes Valley, and Pacific Hts.; presumably planted.	h-ss	p	n/a	0	n/a	no	N/Y
AST	<i>Eriophyllum lanatum</i> var. <i>achilleoides</i>	yarrow-laved woolly sunflower	[<i>E. idioneum</i>] Known from a single 1868 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1868.	h	a-p	Dry, often rocky sites, chaparral, forest; Elevation: < 1300 m. SERP: 2.3	0	May-Aug	no	Y/Y
AST	<i>Eriophyllum lanatum</i> var. <i>arachnoideum</i>	common woolly sunflower	Recorded historically (c. 1866) from Land's End (Pt. Lobos) and Mission Hills (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1890	h	p	Occasionally with stolons. Ocean bluffs, more-or-less moist places, often in mixed-evergreen or redwood forest; Elevation: < 400 m.	0	May-Aug	no	Y/Y
AST	<i>Eriophyllum lanatum</i> var. <i>integrifolium</i>	common woolly sunflower	Known from a single 1868 collection from "SF" (CCH); not included in Howell, <i>et al.</i> This is a highly dubious identification as the taxon occurs nowhere else on the Central Coast. Not considered indigenous to SF.	h-ss	p	Dry sites, sagebrush, forest, alpine; Elevation: 1400-3500 m.	0	May-Aug	no	N/Y
AST	<i>Eriophyllum staechadifolium</i>	lizard-tail, seaside woolly sunflower	[<i>E.s.</i> var. <i>artemisiacifolium</i>] Recorded historically (1874) from Golden Gate Park, Laguna Honda Valley, Lake Merced, Mt. Davidson, the Presidio (Ft. Point, Lobos Cr. Valley), and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and Presidio.	h	p	Dunes, sea bluffs, coastal scrub; Elevation: < 100 m.	39	Apr-Sep	no	Y/Y
GER	<i>Erodium botrys</i>	broad-leaf or long-beaked filaree	Recorded historically (1911) from Bayview Hills, the Embarcadero, Golden Gate Park, Lake Merced, the Marina Dist., Russian Hill, San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a	Naturalized. Dry, open or disturbed sites; Elevation: < 1000 m. WET: FACU	29	Mar-Jul	no	N/N

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GER	<i>Erodium brachycarpum</i>	foothill filaree	[<i>E. obtusiplicatum</i>] Recorded historically (c. 1955) from Golden Gate Park and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Baker Beach n., Tennessee Hollow).	h	a	Naturalized. Dry, open or disturbed sites; Elevation: < 1000 m.	2	Mar-Jul	no	N/N
GER	<i>Erodium cicutarium</i>	red-stemmed filaree	Recorded historically (1898) from Bayview Hills, the Embarcadero, Golden Gate Park, Lone Mt., Nob Hill, the Presidio (Mountain Lake), San Miguel Hills, Sunset Dist., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: L/-/-/-	h	a	Naturalized. Open, disturbed sites, grassland, scrub; Elevation: < 2000 m.	44	Feb-Sep	no	N/N
GER	<i>Erodium moschatum</i>	white-stemmed filaree	Recorded historically (1934) from Bayview Hills, the Embarcadero, Golden Gate Park, Lake Merced, Lone Mt., the Marina Dist., Nob Hill, Russian Hill, San Miguel Hills, the Sea Cliff Dist., and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a-b	Naturalized. Open, disturbed sites; Elevation: < 1500 m.	38	Feb-Sep	no	N/N
API	<i>Eryngium armatum</i> (r)	armed coyote-thistle	Known from a single report (c. 1880) from Potrero Hills (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1880. Reintroduced at the Presidio (Crissy Field).	h	p	Coastal prairie, bluffs, grassland, marsh margins, often on clay soils; Elevation: < 200 m. WET: FACW	1	May-Aug	CA	Y/Y
BRA	<i>Erysimum capitatum</i> var.	sand dune wallflower	Recorded historically (1929, as full species) from near Grandview Park, Lake Merced, Land's End, the Presidio (Baker Beach), Sunset Dist., and Twin Peaks (CCH); not included in Howell, <i>et al.</i> Reported (as full species) from Lake Merced, and the Presidio (Baker Beach, Ft. Point; CCH and NRDB); needs id. Presumably <i>E.c.</i> var. <i>c.</i>	h	p	Open areas, alpine, deserts, woodland, sandy areas, chaparral; Elevation: < 4000 m.	3	Apr-May	no	Y/Y
BRA	<i>Erysimum franciscanum</i>	San Francisco wallflower	Recorded historically (1877) from Brotherhood Way, Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End, Lone Mt., Oceanview, the Presidio (Baker Beach, Presidio Bluffs), Pt. Lobos, Sunset Dist. dunes, Sunset Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from 15th Ave. Steps, Ft. Funston, Golden Gate Hts., Grandview Park, Hawk Hill, Lake Merced, Land's End, Laurel Hts., the Presidio (Baker Beach, Baker Beach n., Crissy Field, Ft. Point, Lobos Cr. Valley, Mountain Lake, Presidio Bluffs, sw. dunes, WWII Memorial), and Rocky Outcrop; reintroduced at City College. Endemic to SF Bay Area. RARITY STATUS: -/-/4.2	ss	p	Serpentine outcrops, coastal scrub or sand dunes, granitic hillsides; Elevation: < 500 m. SERP: 3.0	17	Mar-Jun	BA	Y/Y
PHR	<i>Erythranthe arvensis</i>	blunt-calyxed monkey-flower	[<i>Mimulus a.</i>] Previously included in the Scrophulariaceae. Known from a single 1906 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1906.	h	a	Wet places; Elevation: 30-1900 m.	0	Apr-Jul	no	Y/Y
PHR	<i>Erythranthe cardinalis</i> (r)	cardinal-red monkey-flower	[<i>Mimulus c.</i>] Previously included in the Scrophulariaceae. Known from a single 1865 collection from "SF" (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1865. Reintroduced at Glen Cyn., Golden Gate Park, Lone Mt., and Suto Forest.	h	p	Rhizomatous. Moist to wet places along streams, seepage areas; Elevation: < 2400 m. WET: FACW	4	May-Sep	no	Y/Y
PHR	<i>Erythranthe grandis</i>	(no common name)	[<i>Mimulus guttatus</i> var. <i>grandis</i>] Previously included in the Scrophulariaceae. Recorded historically (1890) from Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End, Mt. Davidson, Potrero Hills, the Presidio (near Baker Beach, Ft. Point, Lobos Cr. Valley), San Miguel Hills, the Sea Cliff Dist., and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn. in 1984; possibly extirpated. Possibly confused with <i>E. guttata</i> . Plants are densely hairy, compared to <i>E. guttata</i> which are glabrous.	h	p	Rhizomatous. Beaches, dunes, coastal bluffs, seeps, creeks; Elevation: 0-800 m.	1	May-Sep	no	Y/Y
PHR	<i>Erythranthe guttata</i>	streamside monkey-flower	[<i>Mimulus guttatus</i>] Previously included in the Scrophulariaceae. Recorded historically (1892) from Glen Cyn, Lake Merced, Land's End, Marina Dist., the Presidio (Ft. Point, Lobos Cr., Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, Glen Cyn., Golden Gate Park (Chain-of-Lakes, misc.), Interior Greenbelt, Lake Merced, Land's End, McLaren Park, O'Shaughnessy Hollow, the Presidio (Baker Beach, Crissy Bluffs, Crissy Field, Doyle Dr. Natural Area, Dragonfly Cr., Ft. Point, Ft. Scott, Golf Course Natural Area, Inspiration Pt., Lobos Cr. Valley, Mountain Lake, Officer's Row, Presidio Bluffs, Tennessee Hollow, WWII Memorial), Suto Baths, and Yerba Buena Is.; reintroduced at Suto Forest. Host plant for the Common Buckeye, Variable Checkerspot, and Mylitta Crescent butterflies.	h	p	Rhizomatous. Wet places, generally terrestrial, occasionally emergent or floating in mats; Elevation: < 2500 m. WET: OBL	27	Mar-Aug	no	Y/Y
PHR	<i>Erythranthe moschata</i>	musk monkey-flower	[<i>Mimulus moschatus</i>] Previously included in the Scrophulariaceae. Recorded historically (c. 1957) from Golden Gate Park where it is presumed to have been introduced (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	h	p	Rhizomatous. Seeps, stream-banks, generally partial shade; Elevation: < 2900 m. WET: FACW	0	May-Sep	no	N/Y
GRS	<i>Escallonia macrantha</i>	redclaws	[<i>E. rubra</i> var. <i>m.</i>] Recorded historically (1955) from the Presidio (above Baker Beach, Ft. Point; Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Buena Vista Park, Golden Gate Hts., Golden Gate Park, the Presidio (Ft. Point, Main Post, Mountain Lake), and Yerba Buena Is. Frequently mis-identified as <i>E. rubra</i> .	s	p	Waif or garden escape; not naturalized.	7	sum-fall	no	N/N
PAP	<i>Eschscholzia caespitosa</i>	foothill poppy	Known from a single 1894 collection from the Presidio (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1894.	h	a	Open chaparral; Elevation: < 1800 m.	0	Mar-Aug	no	Y/Y
PAP	<i>Eschscholzia californica</i>	Cal. poppy	Recorded historically (c. 1817) from throughout SF (Howell, <i>et al.</i> , CCH). Common throughout the city and the Presidio. SF is the type locality (isotype of <i>E.c.</i> var. <i>luxurians</i>).	h	a-p	Grassy, open areas; Elevation: < 2500 m.	89	Feb-Sep	no	Y/Y
MRT	<i>Eucalyptus camaldulensis</i>	Murray River red gum	Recorded historically (c. 1970) from Lafayette Park (CCH); not included in Howell, <i>et al.</i> Reported from Glen Cyn. and Yerba Buena Is.; expected elsewhere. INVASIVE STATUS: L/-/-/-	t	ep	Naturalized. Disturbed areas; Elevation: < 300 m. WET: FAC	2	Apr-Jul	no	N/N
MRT	<i>Eucalyptus conferruminata</i>	spider gum	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from McLaren Park.	t	ep	Naturalized. Disturbed coastal areas; Elevation: generally < 200 m.	1	Apr-Jul	no	N/N
MRT	<i>Eucalyptus ficifolia</i>	scarlet flowering gum	[<i>Corymbia f.</i> , pending] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported naturalized at Yerba Buena Is.; a common street tree throughout the city.	t	ep	Ornamental; not naturalized.	1	Jan-Dec	no	N/N

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MRT	<i>Eucalyptus globulus</i>	Tasmanian blue gum	Recorded historically (c. 1955) from Bayview Hills, Golden Gate Park, Lake Merced, Lone Mt., Mt. Sutro, the Presidio, and Stern Grove (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: L/1/-/-	t	ep	Naturalized. Disturbed areas; Elevation: < 300 m.	69	Oct-Jan	no	N/N
MRT	<i>Eucalyptus leucoxylon</i>	white ironbark	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported naturalized at Yerba Buena Is.; expected elsewhere.	t	ep	Ornamental; not naturalized.	1	sp, win	no	N/N
MRT	<i>Eucalyptus nicholii</i>	Nichol's willow-leaved peppermint	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported naturalized at Bayview Hill; expected elsewhere.	t	ep	Ornamental; not naturalized.	1	sum	no	N/N
MRT	<i>Eucalyptus polyanthemos</i>	red box or silver-dollar gum	Recorded historically (1921) from Golden Gate Park and near Lake Merced (CCH); not included in Howell, <i>et al.</i> Reported naturalized at Golden Gate Park and Hawk Hill; expected elsewhere.	t	ep	Naturalized. Disturbed coastal areas; Elevation: < 200 m.	2	sp-sum	no	N/N
MRT	<i>Eucalyptus pulchella</i>	white peppermint gum	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Golden Gate Park.	t	ep	Naturalized. Disturbed areas; Elevation: < 200 m.	1	Dec-Feb	no	N/N
MRT	<i>Eucalyptus sideroxylon</i>	red ironbark eucalyptus	Recorded historically (1915) from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> Reported naturalized at Candlestick Pt. and Yerba Buena Is.; a common street tree throughout the city.	t	ep	Naturalized. Coastal, disturbed areas; Elevation: < 200 m.	2	Dec-Feb	no	N/N
MRT	<i>Eucalyptus</i> sp.	gum	Reported (to genus) from multiple sites; needs id.	t	ep	n/a	4	n/a	no	N/N
MRT	<i>Eucalyptus tereticornis</i>	forest red gum	Recorded historically (1915) from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> Presumed extant at Golden Gate Park; expected elsewhere.	t	ep	Naturalized. Disturbed coastal areas; Elevation: < 200 m.	1	May-Aug	no	N/N
MRT	<i>Eucalyptus viminalis</i>	mannan gum	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported naturalized at Bayview Hill, Buena Vista Park, and McLaren Park; expected elsewhere.	t	ep	Naturalized. Disturbed areas; Elevation: < 100 m.	3	Jul-Sep	no	N/N
EUP	<i>Euphorbia characias</i>	Albanian spurge	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Golden Gate Park (Stow Lake, misc.), Holly Park, the Marina Dist., Pacific Hts., Potrero Hill, and Twin Peaks; expected elsewhere.	h	p	Agricultural or garden weed (tentative); not naturalized.	4	sp-esum	no	N/N
EUP	<i>Euphorbia crenulata</i>	Chinese caps	[<i>E. nortoniiana</i>] Recorded historically (1865) from Lake Merced, Lone Mt., Mt. Davidson, and the Presidio (Presidio Hills; Howell, <i>et al.</i> , CCH). Reported from Lake Merced. SF is the type locality (holotype, syntype of <i>E. nortoniiana</i>)	h	a-b	Dry places; Elevation: < 1600 m.	1	Mar-Aug	no	Y/Y
EUP	<i>Euphorbia dendroides</i>	tree spurge	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from near Billy Goat Hill (Harry St. Stairs), Golden Gate Park, and Potrero Hill Dist. INVASIVE STATUS: -/-/NW/B/-	s	p	Naturalized. Disturbed areas; Elevation: < 550 m.	3	Jan-Dec	no	N/N
EUP	<i>Euphorbia helioscopia</i>	wartweed	Recorded historically (1946) from Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park and Sutro Forest.	h	a	Naturalized. Disturbed areas; Elevation: < 200 m.	2	Apr-Jul	no	N/N
EUP	<i>Euphorbia lathyris</i>	gopher plant	Recorded historically (1957) Bayview Hills, Islais Cr., Mt. Davidson, and the Richmond Dist. (Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park, the Ingleside Dist., the Presidio (Presidio Hills), and the Sunset Dist. INVASIVE STATUS: W/-/-/-	h	b	Naturalized. Disturbed areas; Elevation: < 200 m.	2	Jun-Jul	no	N/N
EUP	<i>Euphorbia maculata</i>	common spotted spurge	[<i>Chamaesyce m.</i> ; <i>E. supina</i>] Recorded historically (1883) from the Embarcadero and Lake Merced (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Golden Gate Park, McLaren Park, Mission Bay, Pine Lake, the Sunset Dist., and Yerba Buena Is.	h	a	Naturalized. Prostrate. Disturbed places; Elevation: < 2000 m. WET: UPL	6	Apr-Oct	no	N/N
EUP	<i>Euphorbia oblongata</i>	eggleaf spurge	Recorded historically (1933) from SF (CDFG); not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Glen Cyn. and the Presidio (Dragonfly Cr., Lobos Cr. Valley, Transfer Station Plantation). INVASIVE STATUS: L/-/NW/-	h	p	Naturalized. Disturbed areas; Elevation: < 900 m.	4	Jun-Aug	no	N/N
EUP	<i>Euphorbia pepus</i>	petty spurge	Recorded historically (1923) from Golden Gate Park, Land's End (Pt. Lobos), Lone Mt., the Mission Dist., Mt. Davidson, the Presidio (Lobos Cr. Valley), Russian Hill, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a	Naturalized. Disturbed areas; Elevation: < 1200 m.	33	Feb-Aug	no	N/N
EUP	<i>Euphorbia serpens</i>	matted sandmat	[<i>Chamaesyce s.</i>] Recorded historically (c. 1955) from Hunters Pt. (Howell, <i>et al.</i>); there are no SF records in CCH). Reported from the Presidio (Tennessee Hollow and the SOMA Dist.	h	a	Naturalized. Disturbed areas; Elevation: < 750 m. WET: FACU	1	Jun-Sep	no	N/N
EUP	<i>Euphorbia serpillifolia</i> ssp.	thyme-leaved spurge	[<i>Chamaesyce s.</i>] Recorded historically (1957, as full species) from the Richmond Dist. (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF. Presumed indigenous here based on records for <i>E.s.</i> ssp. <i>s.</i> from Marin and San Mateo counties.	h	a	Dry habitats; Elevation: < 2500 m.	0	Jun-Aug	no	Y/Y
EUP	<i>Euphorbia spathulata</i>	spoon-leaf spurge	Recorded historically (1877) from the Lone Mt. (Catholic Cemetery) and the Presidio (Howell, <i>et al.</i> , CCH). Reported from Corona Hts. and the Presidio (Golf Course Natural Area, Inspiration Pt., Presidio Bluffs, Pygmy Forest, Tennessee Hollow).	h	a	Open, generally disturbed places; Elevation: < 1300 m. WET: FAC	6	Mar-Jun	no	Y/Y
AST	<i>Eurybia radulina</i>	rough-leaved aster	[<i>Aster radulinus</i>] Recorded historically (1957) from Bayview Hills (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Duncan-Castro Open Space, and the Presidio (Inspiration Pt., Pygmy Forest, Tennessee Hollow).	h	p	Rhizomatous. Dry forest, oak/pine woodland, brushy slopes; Elevation: 100-1600 m.	5	Jul-Sep	no	Y/Y
AST	<i>Euthamia occidentalis</i>	western goldenrod	[<i>Solidago a.</i>] Recorded historically (1837) from Brotherhood Way, Golden Gate Park, Lake Merced, Land's End, Laurel Hill Cemetery, Pine Lake, and the Presidio (Lobos Cr. Valley; Howell, <i>et al.</i> , CCH). Reported from the Presidio (Crissy Field, Lobos Cr. Valley, Mountain Lake, Presidio Hills, Tennessee Hollow).	h	p	Rhizomatous. Marshes, stream-banks, meadows; Elevation: < 2300 m. WET: FACW	5	Jul-Nov	no	Y/Y
CHN	<i>Extriplex californica</i>	Cal. orache	[<i>Atriplex c.</i> ; Amaranthaceae, pending] Recorded historically (1866) from Cliff House, Land's End (Pt. Lobos), and the Presidio (Pt. Point; Howell, <i>et al.</i> , CCH). Reported from Land's End and the Presidio (Crissy Field, Presidio Bluffs).	h	p	Sandy soils, coastal dunes, sea bluffs, scrub, salt marshes; Elevation: < 200 m. WET: FAC	3	Apr-Oct	no	Y/Y

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FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon Underlined = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonymy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ^g	# OCCURRENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC SF/Bay Area/CA	NATIVE - SF / CA
CHN	<i>Extriplex joaquiniana</i>	San Joaquin saltbush	[<i>Atriplex j.</i> ; Amaranthaceae, pending] Recorded historically (1921) from near South Basin (Hunters Pt.?) and Golden Gate Park (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1921. RARITY STATUS: —/—/1B.2	h	a	Alkaline soils; Elevation: < 350(840) m. WET: FACU	0	Apr-Oct	CA	YY
PLG	<i>Fallopia baldschuanica</i>	Bukhara fleece-flower	[<i>Polygonum baldschuanicum</i>] Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Golden Gate Park and the Presidio (Lobos Cr. Valley).	v	p	Naturalized. Disturbed places; Elevation: < 500 m.	2	Aug-Oct	no	N/N
PLG	<i>Fallopia comolvidulus</i>	blackbird bindweed	[<i>Polygonum c.</i>] Recorded historically (1908) from the Embarcadero, Golden Gate Park, Lake Merced, and Oceanview (Howell, <i>et al.</i> , CCH). Reported from the Presidio.	h	a	Naturalized. Disturbed places; Elevation: < 1000 m. WET: FACU	1	May-Dec	no	N/N
PLG	<i>Fallopia japonica</i>	Japanese knotweed	[<i>Reynoutria j.</i> , pending; <i>Polygonum cuspidatum</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Lobos Cr. Valley) INVASIVE STATUS: MA/—/NW,A/—	h	p	Naturalized. Rhizomatous. Disturbed places; Elevation: < 1000 m.	1	Aug-Oct	no	N/N
AST	<i>Felicia amelloides</i>	blue marguerite	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Yerba Buena Is.	ss	p	Ornamental; not naturalized.	1	sum	no	N/N
POA	<u><i>Festuca arundinacea</i></u>	tall reed fescue, alta fescue	[<i>Lolium a.</i> ; <i>F. elatior</i>] Recorded historically (1956) from near Islais Cr. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: M/—/—/—	g	p	Naturalized. Sometimes with rhizomes. Disturbed places; Elevation: < 2700 (generally < 1000) m.	37	May-Jun	no	N/N
POA	<i>Festuca bromoides</i>	European foxtail fescue	[<i>Vulpia b.</i> ; <i>Festuca dertonensis</i>] Recorded historically (1932) from throughout SF (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	g	a	Naturalized. Dry, disturbed places, coastal-sage scrub, chaparral; Elevation: generally < 1500 m. WET: FACU	47	Apr-Jun	no	N/N
POA	<u><i>Festuca californica</i></u>	Cal. fescue	Recorded historically (1862) from "SF", Bayview Hills, and Mt. Davidson (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Candlestick Pt., Edgehill Mt., Glen Cyn. McLaren Park, Mt. Davidson, O'Shaughnessy Hollow, and the Presidio (Mountain Lake).	g	p	Densely clumped. Dry, open forest, moist stream-banks, chaparral; Elevation: < 1800 m. WET: FACU. SERP: 2.4	6	May-Jun	no	Y/Y
POA	<i>Festuca elmeri</i>	Elmer's fescue	Recorded historically (1865) from "SF" (CCH); not included in Howell, <i>et al.</i> Reported from Interior Greenbelt.	g	p	Loosely tufted. Moist, wooded slopes, under trees in rich soil; Elevation: < 1830 m.	1	May-Jul	no	Y/Y
POA	<i>Festuca idahoensis</i>	Idaho fescue	Recorded historically (1950) from Bayview Hills, Hunters Pt., and Mt. Davidson (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Duncan-Castro Open Space, Glen Cyn., Grandview Park, Hawk Hill, Laguna Honda Valley, Mt. Davidson, O'Shaughnessy Hollow, and Twin Peaks.	g	p	Densely clumped. Dry, open or shady places; Elevation: generally < 1800 m. WET: FACU. SERP: 1.3	9	Jul-Sep	no	Y/Y
POA	<i>Festuca microstachys</i>	few-flowered fescue	[<i>E. pacifica</i> ; <i>E. reflexa</i> ; <i>Vulpia m.</i> ; <i>V.m.</i> var. <i>pauciflora</i>] Recorded historically (1865) from Bayview Hills, Golden Gate Park, Lake Merced, Laurel Hts., Lone Mt., McLaren Park, Potrero Hills, the Presidio (Baker Beach), San Miguel Hills, Sunset Dist. dunes, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Billy Goat Hill, McLaren Park and the Presidio (Inspiration Pt., Tennessee Hollow); expected elsewhere.	g	a	Disturbed, open, generally sandy soils; Elevation: generally < 1500 m.	4	Apr-Jun	no	Y/Y
POA	<i>Festuca myuros</i>	rat-tail fescue	[<i>E. megalura</i> ; <i>Vulpia myuros</i> var. <i>hirsuta</i>] Recorded historically (1865) from throughout SF (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: M/3/—/—	g	a	Naturalized. Generally open places, sandy soils; Elevation: < 2000 m. WET: FACU	21	Feb-May	no	N/N
POA	<i>Festuca occidentalis</i>	western fescue	Known from a single 1929 collection from Twin Peaks (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1929.	g	p	Loosely clumped. Open pine/oak woodland, redwood forest; Elevation: generally < 1900 m.	0	Apr-Jul	no	Y/Y
POA	<i>Festuca octoflora</i>	slender six-weeks fescue	[<i>Ea.</i> var. <i>hirtella</i> ; <i>Vulpia o.</i>] Recorded historically (1882) from "SF", Lake Merced, and the Presidio (above Baker Beach; Howell, <i>et al.</i> , CCH). Reported from McLaren Park; expected elsewhere.	g	a	Sandy to rocky soils, open sites; Elevation: < 2000 m. WET: UPL	1	Mar-Jun	no	Y/Y
POA	<i>Festuca ovina</i>	sheep fescue	Known from a single 1882 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Not occurring in Cal. (JFP, 2021). There are no contemporary reports from SF.	g	p	Not in Cal. WET: FAC	0	May-Jun	no	N/N
POA	<i>Festuca perennis</i>	perennial ryegrass	[<i>Lolium multiflorum</i> ; <i>L. perenne</i>] Recorded historically (1901) from throughout SF (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: M/3/—/—	g	a-p	Naturalized. Dry to moist disturbed sites, abandoned fields; Elevation: < 1000 m. WET: FAC	60	May-Sep	no	N/N
POA	<i>Festuca pratensis</i>	meadow fescue	[<i>F. elatior</i> ; <i>Lolium p.</i> ; <i>Schedonorus p.</i>] Recorded historically (1953) from Golden Gate Park, Lone Mt., the Presidio (Lobos Cr. Valley), and the Richmond Dist. (Howell, <i>et al.</i> , CCH) There are no contemporary reports from SF; to be expected.	g	p	Naturalized. Disturbed places; Elevation: generally < 2000 m.	0	May-Jun	no	N/N
POA	<u><i>Festuca rubra</i></u>	red fescue	Recorded historically (1882) from Bayview Hills, Laguna Honda Valley, Land's End (Pt. Lobos), Lone Mt., the Presidio (above Baker Beach, Ft. Point, Lobos Cr. Valley), Russian Hill, and Sunset Hts. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	g	p	Rhizomatous. Sand dunes, grassland, subalpine forest; Elevation: generally < 2500 m. WET: FAC	38	May-Jul	no	Y/Y
POA	<i>Festuca rubra</i> 'Molaté	Molaté red fescue	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Crissy Field); presumably planted.	g	p	Cultivar; not naturalized. WET: FAC	1	May-Jul	no	N/N
POA	<i>Festuca</i> sp.	fescue	[<i>Vulpia</i> sp.] Reported (to genus) from Ft. Funston, Glen Cyn., Mt. Davidson, O'Shaughnessy Hollow, Twin Peaks; needs id.	g	a-p	n/a	5	n/a	no	n/a
POA	<i>Festuca temulentum</i>	bearded ryegrass	[<i>Lolium temulentum</i>] Recorded historically (c. 1900) from SF (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from the Presidio (Inspiration Pt.)	g	a	Naturalized. Open, disturbed sites; Elevation: 150-1750 m.	1	Apr-Jun	no	N/N
MOR	<i>Ficus carica</i>	common fig	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Buena Vista Park and the Mission Dist.; expected elsewhere. INVASIVE STATUS: M/—/—/—	t	p	Naturalized. Creeks, riverbanks, floodplains, seeps, disturbed areas; Elevation: < 800 m. WET: FACU	1	Mar-Apr	no	N/N

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MOR	<i>Ficus pumila</i>	creeping fig	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Mission Bay, Sutro Forest and Yerba Buena Is.; expected elsewhere.	v	ep	Ornamental climbing vine; not naturalized.	3	n/a	no	N/N
CYP	<i>Fimbristylis miliacea</i>	fimbry	Known historically (1868) from a single collection on Folsom Street (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	g	a	Cespitose. Occurring in Cal. only as an agricultural or garden weed.	0	sum-fall	no	N/N
API	<i>Foeniculum vulgare</i>	sweet fennel	Recorded historically (1933) from Bayview Hills, Corona Hts., the Embarcadero, Fisherman's Wharf, Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End (Pt. Lobos), Lone Mt., Mt. Davidson, the Richmond Dist., Russian Hill, and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: M/1/—/—	h	p	Naturalized. Road-sides, disturbed sites; Elevation: < 1600 m.	67	May-Sep	no	N/N
ROS	<i>Fragaria chiloensis</i>	beach or dune strawberry	Recorded historically (1877) from Golden Gate Park, Lake Merced, Land's End, Lone Mt., Mt. Davidson, the Presidio (above Baker Beach), San Miguel Hills, Sunset Dist. dunes, Sunset Hts., Sutro Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and Presidio.	h	p	Rhizomatous, with stolons. Ocean beaches, coastal grassland; Elevation: < 200 m. WET: FACU	56	Feb-Nov	no	Y/Y
ROS	<i>Fragaria vesca</i>	woodland strawberry	[<i>F. californica</i> ; <i>F. cernita</i>] Recorded historically (1924) from Laguna Honda Valley, Twin Peaks, Mt. Davidson, San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. SF is the type locality (type of <i>F. cernita</i>).	h	p	Rhizomatous, with stolons. Generally partial shade in forest; Elevation: 15-2000 m. WET: UPL	24	Jan-Jul	no	Y/Y
RHM	<i>Frangula californica</i> ssp. <i>californica</i>	Cal. coffeeberry	[<i>Rhamnus</i> c.] Recorded historically (c. 1877) from Bayview Hills, Brotherhood Way, Clarendon Hts., Golden Gate Park, Laguna Honda Valley, Lone Mt., Mt. Davidson, Mt. Sutro, the Presidio (above Baker Beach, Crissy Field, Ft. Point, Golf Course, Lobos Cr. Valley, Mountain Lake, Presidio Hills), San Miguel Hills, and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported (as full species) from throughout the city and the Presidio; needs id. Presumably <i>F.c.</i> ssp. <i>c.</i> Widely planted. Larval host plant for the Pale Swallowtail, Gray Hairstreak and Echo Blue butterflies.	s	ep	Coastal-sage scrub, desert scrub, chaparral, forest, woodland; Elevation: < 2800 m.	48	May-Jul	CA	Y/Y
FNK	<i>Frankenia palmeri</i>	Palmer's frankenia	Known from a single 1852 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1852. RARITY STATUS: —/—/2B.1	h	p	Lacking rhizome. Alkali flats, coastal marshes, dunes; Elevation: < 450 m. WET: FACW	0	May-Jul	no	Y/Y
FNK	<i>Frankenia salina</i>	alkali heath	[<i>F. grandifolia</i>] Recorded historically (1852) from the edge of San Francisco Bay from the Presidio to se. SF (Howell, <i>et al.</i> , CCH). Reported from Heron's Head Park, Hunters Pt., Mission Bay, Pier 94, and the Presidio (Crissy Field, Presidio Bluffs).	ss	p	Matted. Salt marshes, alkali flats; Elevation: < 750 m. WET: FACW	6	Apr-Sep	no	Y/Y
OLE	<i>Fraxinus latifolia</i>	Oregon ash	Known from a single 1919 collection from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF. Although occurring throughout the Bay Area, it is unlikely to have been indigenous to SF based on the lack of historical records elsewhere in SF.	t	dp	Canyons, stream-banks, woodland; Elevation: < 1700 m. WET: FACW	0	Apr-May	no	N/Y
IRI	<i>Freesia laxa</i>	scarlet kammetjie	Recorded historically (c. 1956) from the Richmond Dist. and the Sunset Dist. Reported from the Mission Dist.	gp	p	Ornamental; not naturalized.	2	Apr	no	N/N
MLV	<i>Fremontodendron californicum</i>	Cal. flannelbush	Previously included in the Sterculiaceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Buena Vista Park and Pine Lake; expected elsewhere as plantings. Although occurring throughout the Bay Area, it is not likely to be indigenous to SF.	s	p	Chaparral, oak/pine woodland; Elevation: 180-2320 m.	2	May-Jun	no	N/Y
LIL	<i>Fritillaria affinis</i>	coast checker lily	[<i>F. lanceolata</i> var. <i>tristulidis</i>] Recorded historically (1867) from Bayview Hills, Bernal Hts., Brotherhood Way, Land's End, Mt. Davidson, Mt. Sutro, the Presidio (above Baker Beach, Presidio Hills), Sutro Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, Brotherhood Way, Dorothy Erskine Park, Duncan-Castro Open Space, Glen Cyn., Laguna Honda Valley, Land's End, Mt. Davidson, O'Shaughnessy Hollow, the Presidio (Doyle Dr. Natural Area, Dragonfly Cr., Ft. Point, Inspiration Pt., Presidio Bluffs, WWII Memorial), and Twin Peaks.	gp	p	Bulb-forming. Oak or pine scrub, grassland; Elevation: < 1800 m. SERP: 2.0	17	Mar-Jun	no	Y/Y
LIL	<i>Fritillaria liliacea</i>	fragrant fritillary	Recorded historically (1868) from Bernal Hill, Potrero Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Extirpated. RARITY STATUS: —/—/1B.2	gp	p	Bulb-forming. Heavy soil, open hills, fields near coast; Elevation: generally < 200 m. SERP: 1.8	0	Feb-Apr	CA	Y/Y
LIL	<i>Fritillaria purdyi</i>	Purdy's fritillary	Known from a single undated collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated. SF represents the southernmost station. RARITY STATUS: —/—/4.3	gp	p	Bulb-forming. Dry ridges, generally on serpentine; Elevation: 400-2100 m. SERP: 4.5	0	Mar-Jun	CA	Y/Y
ONA	<i>Fuchsia magellanica</i>	hardy fuchsia	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Mt. Davidson and the Presidio (Lobos Cr. Valley); reported (to genus) from Interior Greenbelt. INVASIVE STATUS: —/3/—/—	s	p	Naturalized (sparingly). Riparian areas. WET: FACU	2	lsp-fall	no	N/N
PAP	<i>Fumaria capreolata</i>	white ramping fumitory	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from throughout the city and the Presidio.	h	p	Naturalized. Disturbed places; Elevation: < 100 m.	58	Mar-Jun	no	N/N
PAP	<i>Fumaria officinalis</i>	common fumitory	Petals purple. Recorded historically (1918) from Golden Gate Park (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, Glen Cyn., Golden Gate Park (Oak Woodland), Laguna Honda Valley, McLaren Park, the Presidio (Ft. Point, WWII Memorial), and Sutro Forest; expected elsewhere.	h	a	Naturalized. Disturbed places; Elevation: < 1000 m.	8	Apr-Jul	no	N/N
PAP	<i>Fumaria parviflora</i>	small-flowered fumitory	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Ft. Funston, Lake Merced, Land's End, McLaren Park, Tank Hill, Yerba Buena Is., and from throughout the Presidio.	h	a	Naturalized. Disturbed places; Elevation: < 1000 m.	26	Mar-May	no	N/N
PAP	<i>Fumaria</i> sp.	fumitory	Reported (to genus) from Golden Gate Hts. and Hawk Hill; needs id.	h	a	n/a	2	n/a	no	N/N

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FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon Underlined = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonymy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFG / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ^g	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC SF/Bay Area/CA	NATIVE - SF / CA
AST	<i>Gaillardia pulchella</i>	firewheel Indian blanket	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Lone Mt. and Sutro Forest.	h	a	Waif or garden escape; not naturalized. WET: FACU	2	sum-efall	no	N/N
AST	<i>Galinsoga parviflora</i> var. <i>parviflora</i>	gallant soldier	Recorded historically (c. 1955, as full species) from Pacific Hts. (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	h	a	Naturalized. Moist soil, disturbed ground; Elevation: generally <= 1000 m. WET: UPL	0	Jan-Dec	no	N/N
RUB	<i>Galium aparine</i>	annual bedstraw	[Incl. <i>G. spurium</i> , possible minor variant; unresolved] Recorded historically (1901) from Bayview Hills, Corona Hts., Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End, Lone Mt., Mt. Davidson, the Presidio (Lobos Cr. Valley), San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and Presidio. Previously considered to be non-native but is now regarded as a native Cal. species.	h	a	Climbing or prostrate. Grassy, more-or-less shady places; Elevation: 30-1500 m. WET: FACU	60	Mar-Jul	no	Y/Y
RUB	<i>Galium californicum</i> var. <i>californicum</i>	Cal. bedstraw	Recorded historically (1924) from Lake Merced, Mt. Davidson, se. SF, and Visitación Valley (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1957.	h	p	Open, in mats or tufts (forest, chaparral) or tangled masses (sea cliffs), not woody to occasionally woody at base; Shady to open places, conifer or mixed forest, chaparral, sea cliffs, hillsides; Elevation: 15-1520 m.	0	Mar-Sep	CA	Y/Y
RUB	<i>Galium murale</i>	tiny bedstraw	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Rob Hill).	h	a	Naturalized. Damp, mossy places, grassy hillsides, dry disturbed areas; Elevation: 20-650 m.	1	Apr-May	no	N/N
RUB	<i>Galium muricatum</i>	Humboldt bedstraw	Known from a single collection (c. 1890) at "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1890. SF is the southernmost station. SF is the type locality (holotype of <i>G. chartaceum</i>).	h	p	Shady, damp conifer or mixed forest; Elevation: 50-1100 m.	0	May-Oct	no	Y/Y
RUB	<i>Galium nuttallii</i> ssp.	climbing bedstraw	Recorded historically (1920) from Bayview Hills, Corona Hts., Hunters Pt., Laguna Honda Valley, Laurel Hill Cemetery, Mt. Davidson, the Presidio (above Baker Beach), San Miguel Hills, Twin Peaks, and Visitación Valley (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Laguna Honda Valley, Mt. Davidson, O'Shaughnessy Hollow, the Presidio (Baker Beach n., Crissy Bluffs, Presidio Bluffs, WWII Memorial), and Twin Peaks. Possibly <i>G.n. ssp. n.</i> or <i>G. porrigens</i> var. <i>p.</i>	h	p	Sprawling, woody. Chaparral; Elevation: 3-500 m.	9	Mar-Jun	no	Y/Y
RUB	<i>Galium porrigens</i> var. <i>porrigens</i>	twining bedstraw	Recorded historically (1912) from Laurel Hill Cemetery and Mt. Davidson (CCH); not included in Howell, <i>et al.</i> Reported from Bayview Hill, Glen Cyn., O'Shaughnessy Hollow, and the Presidio (Baker Beach n., Crissy Bluffs, Horse Stable, Inspiration Pt., Julius Kahn Playground, Oak Study Area, Presidio Bluffs, Sumner Ave. Grassland, WWII Memorial), and Twin Peaks.	s-v	p	Among shrubs in chaparral, forest; Elevation: 15-2130 m.	12	Mar-Apr	no	Y/Y
RUB	<i>Galium</i> sp.	bedstraw	Reported (to genus) from Brotherhood Way, Lake Merced; needs id.	h-s	a-p	n/a	2	n/a	no	n/a
RUB	<i>Galium trifidum</i> var. <i>columbinum</i>	three-petal bedstraw	Recorded historically (1866 from "near SF", Lake Merced, and the Presidio (Mountain Lake; CCH, NRDB); not included in Howell, <i>et al.</i> Extirpated; last collected in 1935.	h	p	Sprawling. Wet places, yellow-pine forest; Elevation: < 3030 m. WET: FACW	0	Jun-Jul	no	Y/Y
RUB	<i>Galium trifidum</i> var. <i>subbiflorum</i>	three-petal bedstraw	[<i>G. tinctorium</i> var. <i>s.</i>] Recorded historically (c. 1955) from Lake Merced and the Presidio (Mountain Lake; Howell, <i>et al.</i> , CCH). SF is far outside of the expected range of this taxon. There are no contemporary reports from SF. Not expected to be indigenous here. Perhaps confused with <i>G.t. var. columbinum</i> ; needs id.	h	p	Tufted or matted. Montane meadows, lake margins; Elevation: 1700-3200 m. WET: FACW	0	Jun-Jul	no	N/Y
RUB	<i>Galium triflorum</i>	fragrant bedstraw	Known from a single 1900 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1900.	h	a	Damp, shady forest; Elevation: 10-3000 m. WET: FACU	0	Jun-Aug	no	Y/Y
AST	<i>Gamochaeta ustulata</i>	Pacific cudweed	Recorded historically (1878) from Bayview Hills, Golden Gate Hts., Golden Gate Park, Lake Merced, Land's End (Pt. Lobos), Lone Mt., Mt. Davidson, the Presidio (Baker Beach, Baker Beach n., Presidio Bluffs), and San Miguel Hills (CCH). Also recorded historically [1894, as <i>Gnaphalium purpureum</i> , a taxon not occurring in Cal. (JFP, 2021)] from Bayview Hills, Golden Gate Park, Lake Merced, Land's End (Pt. Lobos), Lone Mt., McLaren Park, Mt. Davidson, Potrero Hills, the Presidio, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i>) Reported from Bayview Hill, Ft. Funston, Golden Gate Hts., Land's End, Rocky Outcrop, and Twin Peaks. Reported (as <i>Gnaphalium purpureum</i>) from the Presidio (Baker Beach, Baker Beach n., Crissy Bluffs, Doyle Dr. Natural Area, Ft. Point, Ft. Scott, Golf Course Natural Area, Infantry Terrace, Inspiration Pt., Lobos Cr. Valley, Mountain Lake, Presidio Bluffs, Presidio Hills, Rob Hill, sw. dunes, Washington/Armature Housing, WWII Memorial).	h	a,b,p	Dunes, bluffs, fields, disturbed sites; Elevation: < 650 m.	23	Apr-Jul	no	Y/Y
GAR	<i>Carrya elliptica</i>	silk-tassel tree	Recorded historically (1891) from Sunset Hts. and the Presidio (Ft. Point; Howell, <i>et al.</i>); there are no SF records in CCH. Reported from O'Shaughnessy Hollow; reintroduced at Buena Vista Park, Candlestick Pt., Glen Cyn., Golden Gate Park, Lake Merced, the Presidio (Inspiration Pt., Lobos Cr. Valley, Mountain Lake, Tennessee Hollow), the Sea Cliff Dist., Seward Mini Park, and Sutro Forest; it is being reintroduced at Ft. Funston. Voucher specimen needed.	s-t	ep	Sea cliffs, sand dunes, chaparral, foothill-pine woodland; Elevation: < 800 m.	12	Jan-Mar	no	Y/Y
POA	<i>Gastridium phleoides</i>	eastern nit-grass	Recorded historically (as <i>G. ventricosum</i> , a taxon not occurring in Cal. (JFP, 2021); 1865 from SF (Howell, <i>et al.</i>); historic collections have been reclassified as <i>G. phleoides</i> (CCH). Reported from Laguna Honda Valley and Yerba Buena Is.	g	a	Naturalized. Open, generally dry, disturbed sites; Elevation: generally < 1450 m. WET: FACU	2	Apr-Nov	no	N/N
ERI	<i>Gaultheria shallon</i>	common salal	Recorded historically (1895) from Mt. Davidson San Miguel Hills, and Stanford Hts. (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Golden Gate Park, Mt. Davidson, O'Shaughnessy Hollow, the Presidio (Ft. Point), and SFSU.	s	ep	Generally rhizomatous. Moist forest margins; Elevation: < 1060 m. WET: FACU	6	Apr-Jul	no	Y/Y

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AST	<i>Gazania linearis</i>	hardy gazania	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Bayview Hill, Candlestick Pt., McLaren Park, the Presidio (Crissy Field), and Starr King. INVASIVE STATUS: MA/1/-/-	h	p	Naturalized. Cespitose. Escape from cultivation in coastal areas, disturbed areas; Elevation: < 1350 m.	5	Jan-Dec	no	N/N
FAB	<i>Genista monspessulana</i>	French broom	[<i>Cytisus monspessulanus</i>] Recorded historically (1954) from Bayview Hills, the Embarcadero, Golden Gate Park, Lake Merced, Land's End, Lone Mt., the Presidio (Doyle Dr.), the Richmond Dist., Russian Hill, San Miguel Hills, se. SF, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: H/1/NW,C/-	s	ep	Naturalized. Disturbed places; Elevation: < 900 m.	61	Mar-Jun	no	N/N
GEN	<i>Gentiana affinis</i> var.	pleated gentian	Known from a single 1866 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1866. Presumably <i>G.a.</i> var. <i>a.</i> SF is the southernmost station for the taxon.	h	p	Meadows, shrubby places; Elevation: < 2300 m. WET: FACU	0	Jul-Sep	CA	Y/Y
GER	<i>Geranium carolinianum</i>	Carolina crane's-bill	Recorded historically (c. 1900) from SF although Howell, <i>et al.</i> could not confirm its presence in the city; there are no SF records in CCH. Reported from Glen Cyn. Status as an indigenous species is uncertain.	h	a	Open to shaded sites, grassland, scrub, forest; Elevation: < 1700 m.	1	Feb-Aug	no	?/Y
GER	<i>Geranium core-core</i>	Alderney crane's-bill	[Likely correct id for <i>G. retrorsum</i> , a taxon considered absent from Cal. (JFP, 2021)] Recorded historically (as <i>G. retrorsum</i> ; 1891) from Alamo Square, Bayview Hills, Ft. Mason, the Presidio, and Russian Hill (Howell, <i>et al.</i> , CCH). Reported from Ft. Mason.	h	p	Naturalized. Disturbed sites; Elevation: < 200 m.	1	Mar-Oct	no	N/N
GER	<i>Geranium dissectum</i>	cut-leaf crane's-bill	Recorded historically (1924) from Bayview Hills, Ft. Mason, Golden Gate Park, near Islais Cr., Lake Merced, Land's End, Lone Mt., Mt. Davidson, the Presidio (Lobos Cr. Valley, Mountain Lake), the Richmond Dist., San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: L/3/-/-	h	a	Naturalized. Open, disturbed sites; Elevation: < 1300 m.	59	Mar-Jul	no	N/N
GER	<i>Geranium molle</i>	dove's-foot crane's-bill	Recorded historically (1890) from Golden Gate Park, Lake Merced, the Marina Dist., Mt. Davidson, the Presidio above Baker Beach), and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: -/3/-/-	h	a	Naturalized. Open to shaded sites, disturbed ground; Elevation: < 500 m.	39	Feb-Aug	no	N/N
GER	<i>Geranium palmatum</i>	Canary Is. crane's-bill	[<i>G. anomifolium</i>] Recorded historically (c. 1955) from Golden Gate Park (Howell, <i>et al.</i>); there are no historic SF records in CCH. Reported from the Western Addition and the Presidio (Res. Cultural Plantation).	h	p	Urban weed. Open to shaded sites; Elevation: < 200 m.	1	Jun	no	N/N
GER	<i>Geranium purpureum</i>	lesser herb-Robert	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Buena Vista Park, Golden Gate Park (Strawberry Hill, misc.), Mission Bay, the Presidio (Lobos Cr. Valley), Telegraph Hill, and Yerba Buena Is. INVASIVE STATUS: L/-/-/-	h	a-b	Naturalized. Open to shaded sites; Elevation: < 100 m.	7	Mar-May	no	N/N
GER	<i>Geranium pusillum</i>	small-flowered crane's-bill	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Baker Beach n., Lobos Cr. Valley, Mountain Lake, Res. Cultural Plantation, sw. dunes).	h	a	Naturalized. Disturbed open places, dry grassland; Elevation: < 500 m.	5	Mar-Sep	no	N/N
GER	<i>Geranium retrorsum</i>	New Zealand geranium	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Doyle Dr. Natural Area, Presidio Bluffs, Tennessee Hollow, WWII Memorial) and Twin Peaks; needs id. Not occurring in Cal. (JFP, 2021). INVASIVE STATUS: -/3/-/-	h	p	Not in Cal.	5	May-Jun	no	N/N
GER	<i>Geranium reuteri</i>	giant Canary Is. crane's-bill	[<i>G. canariense</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Golden Gate Park, Interior Greenbelt and Sutro Forest.	h	p	Ornamental; not naturalized.	3	lsp-esum	no	N/N
GER	<i>Geranium robertianum</i>	herb-Robert	Recorded historically (1955) from Golden Gate Park (Howell, <i>et al.</i> , CCH). Reported from Bernal Hts. Park, Clarendon Hts., Glen Cyn., Golden Gate Park (Chain-of-Lakes, Stow Lake, Strawberry Hill, misc.), Hunters Pt., McLaren Park, Mt. Davidson, the Presidio (Dragonfly Cr., Ft. Point, Golf Course Natural Area, Inspiration Pt., Lobos Cr. Valley, Main Post, Mountain Lake), SFSU, and Starr King, Sutro Forest; expected elsewhere.	h	a-b	Naturalized. Open to shaded sites; Elevation: < 500 m. WET: FACU	20	Apr-Sep	no	N/N
GER	<i>Geranium rotundifolium</i>	round-leaved geranium	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Brotherhood Way and Golden Gate Park.	h	a	Naturalized. Open, disturbed sites; Elevation: < 200 m.	2	May	no	N/N
GER	<i>Geranium</i> sp.	geranium	Reported (to genus) from Bernal Hts. Park, Lake Merced; needs id.	h	a-p	n/a	2	n/a	no	n/a
PLM	<i>Gilia capitata</i> ssp. <i>chamissonis</i>	blue or dune gilia	Recorded historically (1877) from Forest Hill, Golden Gate Hts., Golden Gate Park, Lake Merced, Land's End, Laurel Hill Cemetery, Lone Mt., Mt. Sutro, the Presidio (Baker Beach), and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, Hawk Hill, Lake Merced, the Presidio (Baker Beach, Baker Beach n., Crissy Field, Ft. Scott, Golf Course Natural Area, Inspiration Pt., Lobos Cr. Valley, Presidio Hills, Rob Hill, sw. dunes, West Pacific Natural Area, WWII Memorial), Tank Hill, and Yerba Buena Is. SF is the type locality. Endemic to SF Bay Area. RARITY STATUS: -/-/1B.1	h	a	With skunk-like odor. Coastal sand-hills; Elevation: < 185 m.	18	Apr-Jul	BA	Y/Y
PLM	<i>Gilia clivorum</i>	purple-spotted gilia	Recorded historically (1866) from Bayview Hills, Hunters Pt., McLaren Park, Mt. Davidson, Potrero Hills, and the Presidio (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Hunters Pt. Ridge, the Presidio (Inspiration Pt.), and Starr King.	h	a	Open, grassy areas; Elevation: < 1500 m.	4	Feb-Jun	no	Y/Y
PLM	<i>Gilia millefoliata</i>	dark-eyed gilia	[<i>G. clivorum</i> , in part] Recorded historically (1900) from Mission Hills and the Presidio (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1912. CNPS RARITY STATUS: -/-/1B.2	h	a	With skunk-like odor. Stabilized coastal dunes; Elevation: < 10 m.	0	Apr-Jul	no	Y/Y
CAM	<i>Githopsis specularioides</i>	common bluecup	Recorded historically (1888) from SF (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1888.	h	a	Chaparral, oak woodland; Elevation: 60-1500 m. WET: FACU	0	Apr-Jun	no	Y/Y

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AST	<i>Glebionis coronaria</i>	garland daisy	[<i>Chrysanthemum coronarium</i>] Recorded historically (1914) from Islais Cr., Lake Merced, Lone Mt., McLaren Park, Oceanview, Pine Lake, San Miguel Hills, Sunset Dist. dunes, and Sutro Hts. (Howell, et al., CCH). Reported from waste places throughout the city and the Presidio. INVASIVE STATUS: M/3/—/—	h	a	Naturalized. Escape in coastal areas, road-sides, disturbed areas; Elevation: < 1000 m.	24	Mar-Jul	no	N/N
AST	<i>Glebionis segetum</i>	corn daisy	[<i>Chrysanthemum s.</i>] Recorded historically (1917) from Golden Gate Park, the Presidio, and SFSU (Howell, et al., CCH). Reported from the Richmond Dist.	h	a	Naturalized. Escape in coastal areas, fields, sea bluffs; Elevation: < 200 m.	0	Apr-Oct	no	N/N
POA	<i>Glyceria leptostachya</i>	slender-spiked manna-grass	[<i>G. davyi</i>] Recorded historically (1852) from "SF" (CCH); not included in Howell, et al. Reported from Glen Cyn. SF is the southernmost station for the species.	g	p	Rhizomatous. Freshwater marshes, lakes; Elevation: < 800 m.	1	May-Jun	no	Y/Y
POA	<i>Glyceria</i> ^x <i>occidentalis</i>	western manna-grass	[<i>G. occidentalis</i> . Possible hybrid between <i>G. leptostachya</i> and <i>G. fluitans</i> .] Not included in Howell, et al. and there are no SF records in CCH. Reported from McLaren Park.	g	p	Naturalized. Rhizomatous, often forming floating mats. Freshwater marshes, ponds and streams; Elevation: < 1300 m. WET: OBL	1	Jun-Aug	no	N/N
AST	<i>Gnaphalium palustre</i>	lowland cudweed	Recorded historically (c. 1890) from "SF", Pine Lake, and the Presidio (Mountain Lake; Howell, et al., CCH). Reported from Presidio (Crissy Field, Mountain Lake, Presidio Bluffs).	h	a	Arroyos, sandy stream-beds, pond edges, potholes; Elevation: < 3590 m. WET: FACW	3	May-Oct	no	Y/Y
AST	<i>Gnaphalium</i> sp.	cudweed	Reported (to genus) from Bernal Hts. Park, Lake Merced, McLaren, Mt. Davidson, O'Shaughnessy, and Twin Peaks; needs id.	h	a	n/a	6	n/a	no	n/a
PRO	<i>Grevillea rosmarinifolia</i>	rosemary grevillea	Not included in Howell, et al. and there are no SF records in CCH. Reported from Buena Vista Park and Golden Gate Park (Hippie Hill).	s	ep	Ornamental; not naturalized.	2	fall-sp	no	N/N
AST	<i>Grindelia camporum</i>	Great Valley gumplant	Recorded historically (1931) from Bayview Hills, Islais Cr., McLaren Park, Potrero Hills, se. SF, and Telegraph Hill (Howell, et al., CCH). Reported from Glen Cyn. (possibly confused with <i>G. hirsutula</i>); needs id.	h	p	Sandy or saline bottomland, road-sides; Elevation: < 1400 m. WET: FACW. SERP: 1.8	1	May-Nov	CA	Y/Y
AST	<i>Grindelia ciliata</i>	Spanish gold	[<i>Laplopappus ciliatus</i>] Recorded historically (c. 1955) from as a waif along the SF waterfront (Howell, et al., CCH). There are no contemporary reports from SF.	h	p	Waif or garden escape; not naturalized. WET: FACU	0	May-Nov	no	N/N
AST	<u><i>Grindelia hirsutula</i></u>	hairy gumplant	[incl. <i>G.h.</i> vars. <i>maritima</i> and <i>hirsutula</i> ; <i>G. humilis</i> ; <i>G. maritima</i> ; <i>G.m. forma anomala</i> ; <i>G. rubricaulis</i> var. <i>confertum</i> ; <i>G.r.</i> var. <i>maritima</i>]. Recorded historically (1866) from Alemany Blvd., Bayview Hills, Islais Cr., Laguna Honda Valley, Lake Merced, Land's End (Pt. Lobos), Lone Mt., Mt. Davidson, the Presidio (above Baker Beach, Lobos Cr. Valley, Presidio Bluffs), San Miguel Hills, Twin Peaks, and Visitación Valley (Howell, et al., CCH). Reported from throughout the city and the Presidio. RARITY STATUS: (as <i>G.h.</i> var. <i>maritima</i>) —/—/3.2	h	p	Sandy, clay, or serpentine slopes or road-sides; Elevation: < 1700 m. WET: FACW. SERP: 1.4	24	Jun-Sep	CA	Y/Y
AST	<i>Grindelia</i> sp.	gumplant	Reported (to genus) from O'Shaughnessy Hollow; needs id.	h-ss	a-p	n/a	1	n/a	no	n/a
AST	<i>Grindelia stricta</i> var.	marsh gumplant	Reported (as full species) from Corona Hts., Ft. Funston, Heron's Head, Hunters Pt., Ingleside Dist., Land's End, Mission Bay, the Mission Dist., Ocean Beach, Pier 94, the Presidio (Baker Beach, Crissy Field, Liggett St. Housing, Presidio Bluffs, Rob Hill), the Sunset Dist., Twin Peaks, and Yosemite Slough.	ss	p	n/a	15	n/a	no	?/Y
AST	<i>Grindelia stricta</i> var. <i>angustifolia</i>	marsh gumplant	Recorded historically (1837) from "SF" (CCH); not included in Howell, et al. Reported from Heron's Head Park, Hunters Pt., Mission Cr. Park, Pier 94, the Presidio (Crissy Field, Liggett St. Housing), Yerba Buena Is., and Yosemite Slough.	ss	p	Tidal wetlands; Elevation: < 10 m. WET: FACW	8	May-Dec	CA	Y/Y
AST	<i>Grindelia stricta</i> var. <i>platyphylla</i>	Oregon gumplant	[<i>G. robusta</i> var. <i>p.</i> ; <i>G. arenicola</i> var. <i>pachyphylla</i>] Recorded historically (1930) from "SF" (Howell, et al.); there are no historic SF records in CCH. Reported from Balboa Natural Area, Land's End, and the Presidio (Baker Beach). Status as an indigenous SF species is unclear.	h	p	Coastal bluffs, dunes; Elevation: < 300 m. WET: FACW	3	Jan-Dec	no	?/Y
COR	<i>Griselinia</i> sp.	griselinia	Not included in Howell, et al. and there are no SF records in CCH. Reported (to genus) from Mountain Lake. Possibly <i>G. littoralis</i> ; needs id.	s-t	p	Ornamental; not naturalized.	1	n/a	no	N/N
AST	<i>Guizotia abyssinica</i>	niger, ramtilla	Recorded historically (1932) from Russian Hill (Howell, et al.); there are no SF records in CCH. There are no contemporary reports from SF.	h	a	Waif or garden escape; not naturalized.	0	sum-fall	no	N/N
POA	<i>Hainardia cylindrica</i>	thin-tail barb-grass	[<i>Monerma c.</i>] Recorded historically (1954) from SF (Howell, et al., CCH). Reported from Land's End, the Presidio (Crissy Field, Presidio Bluffs, Tennessee Hollow, WWII Memorial), and Sutro Baths.	g	a	Naturalized. Coastal salt marshes, alkaline soils; Elevation: < 570 m. WET: FACW	6	Mar-Jul	no	N/N
PRO	<i>Hakea drupacea</i>	sweet hakea	[<i>H. suaveolens</i>] Not included in Howell, et al. and there are no SF records in CCH. Naturalized at Yerba Buena Is.; expected elsewhere.	s	ep	Ornamental; not naturalized.	1	fall-win	no	N/N
HAL	<i>Haloragis erecta</i>	erect seaberry	Recorded historically (c. 1955) from Golden Gate Park (Howell, et al., CCH). Reported from Golden Gate Park.	s	p	Waif or garden escape; not naturalized. WET: FAC	1	Sep	no	N/N
PTG	<i>Hebe speciosa</i>	showy hebe	[<i>Veronica speciosa</i> , pending] Previously included in the Scrophulariaceae. Recorded historically (1952) from Golden Gate Park (Howell, et al.); there are no historic SF records in CCH. Reported from Ft. Funston and Yerba Buena Is.	s	ep	Ornamental; not naturalized.	2	sum	no	N/N
PTG	<i>Hebe</i> ^x <i>franciscana</i>	hebe	[<i>Veronica</i> ^{s.f.} , pending] Previously included in the Scrophulariaceae. Recorded historically (1952) from Golden Gate Park and the Presidio (above Baker Beach; Howell, et al.); there are no SF records in CCH. There are no contemporary reports from SF.	s	ep	Ornamental; not naturalized.	0	sum	no	N/N
ARL	<i>Hedera canariensis</i>	Algerian Ivy	Not included in Howell, et al. and there are no SF records in CCH. Reported from throughout the city and the Presidio. INVASIVE STATUS: H/2/—/—	v	p	Naturalized. Woody vine. Woodland, chaparral, disturbed areas; Elevation: < 916 m.	42	Aug-Nov	no	N/N

ANNOTATED CHECKLIST OF THE VASCULAR PLANTS OF SAN FRANCISCO

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon Underlined = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonymy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFW / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ^g	# OCCURRENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC SF/Bay Area/CA	NATIVE - SF / CA
ARL	<i>Hedera helix</i>	English Ivy	Recorded historically (1954) from Golden Gate Park, Lone Mt., Mt. Davidson, the Presidio (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio; often confused with <i>H. anariensis</i> . INVASIVE STATUS: H/2/-/-	s-v	p	Naturalized. Woodland, open, disturbed areas; Elevation: < 1280 m. WET: FACU	71	Aug-Nov	no	N/N
ARL	<i>Hedera</i> sp.	English Ivy	Reported (to genus) from Bernal Hts. Park, Billy Goat Hill, Brotherhood Way, Glen Cyn., Golden Gate Hts., Golden Gate Park (Oak Woodland), Mt. Davidson, and Palou-Phelps; needs id.	v	p	n/a	8	Aug-Nov	no	N/N
AST	<i>Hedypnois rhagadioloides</i>	Crete weed	[<i>H. cretia</i>] Recorded historically (1953) from Golden Gate Park, the Ingleside Dist., the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, Glen Cyn., Golden Gate Hts., Lake Merced, Land's End, the Marina Dist., Ocean Beach, Pier 94, the Presidio (Baker Beach, Crissy Field, Lobos Cr. Valley, Presidio Hills, Simond's Loop, sw. dunes), Rocky Outcrop, the Sunset Dist., Sutro Baths, and Yerba Buena Is.	h	a	Naturalized. Weed of pastures, grassy slopes, road-sides; Elevation: < 1150 m.	16	Feb-Jun	no	N/N
AST	<i>Helenium bigelovii</i>	Bigelow's sneezeweed	Known from a single 1868 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1868.	h	p	Wet meadows, marshes, bogs, fens, stream-banks, lake margins; Elevation: < 3400 m. WET: FACW. SERP: 2.9	0	Jun-Sep	no	Y/Y
AST	<i>Helenium puberulum</i>	rosilla sneezeweed	Recorded historically (1894) from Laguna Honda Valley, Lake Merced, Mt. Sutro, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Interior Greenbelt, the Presidio (Crissy Bluffs, Ft. Point, Ft. Scott, Golf Course Natural Area, Lobos Cr., Mountain Lake, Presidio Bluffs, Tennessee Hollow, WWII Memorial), and Sutro Forest.	h	a-p	Stream-banks, seepage areas, lake margins; Elevation: < 1200 m. WET: FACW	11	Jun-Aug	no	Y/Y
AST	<i>Helianthella castanea</i>	Diablo helianthella	Recorded historically (1892) from Bayview Hills, Oceanview, and se. SF (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1920. Endemic to SF Bay Area. SF is the type locality (holotype of <i>H. cannonae</i>). RARITY STATUS: -/-/1B.2	h	p	Open, grassy sites; Elevation: 200-1300 m.	0	Mar-Jun	BA	Y/Y
AST	<i>Helianthus annuus</i>	common sunflower	Recorded historically (1957) from Islais Cr. and Telegraph Hill (Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way, the Embarcadero, and Laguna Honda Valley; presumably an introduction from inland counties.	h	a	Disturbed areas, scrub, grassland, many other habitats; Elevation: < 2000 m. WET: FACU	2	Jun-Aug	no	N/Y
AST	<i>Helichrysum petiolare</i>	licorice plant	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from the Presidio (riparian restoration site at Main Post), Russian Hill, and Sutro Hts. INVASIVE STATUS: L/-/-/-	s-v	p	Naturalized. Straggling or trailing. Escape from cultivation into coastal scrub, forest; Elevation: < 200 m.	3	Jul-Aug	no	N/N
BOR	<i>Heliotropium curassavicum</i> var. <i>oculatum</i>	salt heliotrope	Recorded historically (c. 1957) from Golden Gate Park, the Presidio (Ft. Point), and Visitación Valley (Howell, <i>et al.</i>); there are no SF records in CCH. Presumed indigenous. Reported from the Presidio (Crissy Field) and Yerba Buena Is. Voucher specimen needed. Host plant for the Common Buckeye butterfly.	h	p	Moist to dry, saline to alkaline soils, generally near water; Elevation: < 2250 m. WET: FACU	2	Feb-Oct	no	Y/Y
BOR	<i>Heliotropium europaeum</i>	European heliotrope	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. There is a single report from Mission Bay on the bank of Mission Cr.; needs id.	h	a	Naturalized. Open, often disturbed sites; Elevation: < 1400 m.	1	May-Aug	no	N/N
AST	<i>Helminthotheca echioides</i>	bristly ox-tongue	[<i>Picris</i> c.] Recorded historically (1918) from Bayview Hills, Golden Gate Park, near Islais Cr., Laguna Honda Valley, Lake Merced, Land's End, Pacific Hts., San Miguel Hills, se. SF, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: L/-/-/-	h	a-p	Naturalized. Disturbed areas; Elevation: < 1050 m. WET: FAC	40	Jan-Dec	no	N/N
AST	<i>Hemizonella minima</i>	small-headed tarweed	[<i>Madia minima</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Not considered indigenous to SF. Reported from McLaren Park; needs confirmation. Voucher specimen needed.	h	a	Gravelly or rocky, generally open sites in scrub, meadows, forest; Elevation: 300-2900 m.	1	Apr-Aug	no	N/Y
AST	<i>Hemizonia congesta</i> ssp. <i>congesta</i>	congested-headed hayfield tarplant	[<i>H.c.</i> ssp. <i>leucocephala</i> and ssp. <i>vernalis</i>] Known from a single 1900 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1900. RARITY STATUS: -/-/1B.2	h	a	Grassy sites, marsh edges; Elevation: < 100 m. SERP: 1.3	0	Apr-Nov	CA	Y/Y
AST	<i>Hemizonia congesta</i> ssp. <i>luzulifolia</i>	hayfield tarweed	[<i>Hemizonia luzulifolia</i>] Recorded historically (c. 1890) from "SF", Potrero Hills and se. SF (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Doyle Dr. Natural Area, Presidio Hills).	h	a	Disturbed, open, or grassy sites, often clayey soils, serpentine; Elevation: < 1000 m.	2	Mar-Dec	no	Y/Y
AST	<i>Hemizonia</i> sp.	tarweed	Reported (to genus) from Pier 94; needs id.	h	a	n/a	1	n/a	no	n/a
API	<i>Heracleum maximum</i>	American cow-parsnip	[<i>H. lanatum</i>] Recorded historically (1891) from Brotherhood Way, Laguna Honda Valley, Lake Merced, Land's End, the Presidio (Baker Beach, Lobos Cr. Valley), San Miguel Hills, Sunset Dist., and Sutro Hts. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	p	Moist places, wooded or open; Elevation: < 2900 m. WET: FACW	33	Apr-Jul	no	Y/Y
AST	<i>Hesperovax sparsiflora</i> var. <i>brevifolia</i>	short-leaved evax	Known from a single 1900 collection from McLaren Park (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1900. RARITY STATUS: -/-/1B.2	h	a	Sandy, grassy or wooded coastal bluffs, terraces, dunes; Elevation: < 100 m. WET: FACU	0	Mar-Jun	no	Y/Y
AST	<i>Hesperovax sparsiflora</i> var. <i>sparsiflora</i>	few-flowered evax	[<i>Evax</i> s.] Recorded historically (1890) from Hunters Pt., McLaren Park, Potrero Hills, and the Presidio (above Baker Beach; Howell, <i>et al.</i> , CCH). Reported from the Presidio (Inspiration Pt., Presidio Bluffs, WWII Memorial).	h	a	Open, clay and/or rocky, generally serpentine soil; Elevation: 10-1000 m. WET: FACU. SERP: 1.8	3	Mar-Jun	no	Y/Y
URT	<i>Hesperocnide tenella</i>	slender western-nettle	Recorded historically (1877) from Brotherhood Way, Lake Merced, Lone Mt., and the Presidio (above Baker Beach; Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, Interior Greenbelt, the Presidio (Baker Beach n., Ft. Point, Lobos Cr. Valley), and Sutro Forest.	h	a	Moist, shaded areas, often at base of rocks or shrubs, in chaparral, coastal scrub, riparian woodland, mesic oak woodland; Elevation: < 1200 m.	6	Feb-Jun	no	Y/Y

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CUP	<i>Hesperocyparis macrocarpa</i>	Monterey cypress	<u>[<i>Cupressus m.</i>]</u> Recorded historically (1898) from Bayview Hills, Golden Gate Park, Laguna Honda Valley, McLaren Park, Lake Merced, Land's End, Lone Mt., Pine Lake, and the Presidio (Howell, <i>et al.</i> , CCH). This Cal. native species is not indigenous to SF. Commonly found throughout the city and the Presidio. RARITY STATUS: (applies only to native stands) <i>—/—/1B.2</i> . INVASIVE STATUS: <i>—/3/—/—</i>	t	ep	Closed-cone-pine/cypress forests; Elevation: < 50 m in native range.	72	n/a	CA	N/Y
CUP	<i>Hesperocyparis stephensoni</i>	Cuyamaca cypress	[<i>Cupressus s.</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Cal. native not indigenous to SF. Reported from Yerba Buena Is.; presumably planted. RARITY STATUS: <i>—/—/1B.1</i>	t	ep	Chaparral; Elevation: 910-1800 m.	1	n/a	no	N/Y
LIN	<i>Hesperolinon californicum</i>	Cal. western flax	[<i>Linum c. var. confertum</i>] Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from the Presidio (WWII Memorial). Status as an indigenous SF species is questionable.	h	a	Rocky areas, chaparral, grassland, occasionally on serpentine; Elevation: 30-1300 m. SERP: 2.8	1	Apr-Jul	CA	?/Y
LIN	<i>Hesperolinon congestum</i>	Marin western flax	[<i>Linum c.</i>] Recorded historically (1877) from Laurel Hill Cemetery, Lone Mt., the Presidio (above Baker Beach; Howell, <i>et al.</i> , CCH). Reported from Presidio (Inspiration Pt., Presidio Bluffs, WWII Memorial). Endemic to SF Bay Area. RARITY STATUS: <i>FT/ST/1B.1</i>	h	a	Serpentine, grassland; Elevation: < 200 m. SERP: 6	3	Apr-Jul	BA	Y/Y
LIN	<i>Hesperolinon spergulinum</i>	slender western flax	[<i>Linum s.</i>] Known from a single 1882 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1882.	h	a	Chaparral or woodland margins, including serpentine; Elevation: 100-1000 m. SERP: 4.7	0	May-Aug	no	Y/Y
PAP	<i>Hesperomecon linearis</i> (r)	narrow-leaf queen poppy	[<i>Maconella l.</i>] Recorded historically (1868) from Brotherhood Way, Golden Gate Park (Strawberry Hill), Lake Merced, Lone Mt., Mission Hills, and the Presidio (Lobos Cr. Valley, Mountain Lake; Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1957. Reintroduced at the Presidio (Lobos Cr. Valley). SF is the type locality (possible isosynotype of <i>H. platystemon</i>).	h	a	Grassy areas, washes; Elevation: < 1000 m.	1	Mar-Jun	no	Y/Y
PON	<i>Heteranthera dubia</i>	water star-grass	Presumed to have occurred in SF (CNPS, 2021). Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Extirpated. RARITY STATUS: <i>—/—/2B.2</i>	h	p	Generally submersed, emergent, or on wet ground. Still or moving water; Elevation: < 1500 m. WET: OBL	0	Jul-Oct	no	Y/Y
CAM	<i>Heterocodon rariflorum</i>	western pear flower	Known from a single 1896 collection from the Presidio (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1896.	h	a	Vernally wet places; Elevation: < 2500 m. WET: FACW	0	May-Jul	no	Y/Y
ROS	<i>Heteromeles arbutifolia</i>	toyon, Cal. Christmas-berry	[<i>Photinia a.</i>] Recorded historically (1837) from Golden Gate Park, Laguna Honda Valley, Lake Merced, Lone Mt., and the Presidio (Ft. Point; Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	s-t	ep	Chaparral, oak woodland, mixed-evergreen forest; Elevation: < 1300 m.	73	May-Aug	no	Y/Y
AST	<i>Heterotheca grandiflora</i>	telegraph weed	Recorded historically (1956) from Islais Cr. and the edge of SF Bay (Howell, <i>et al.</i> , CCH). Reported from Bernal Hts. Park, Candlestick Pt., Heron's Head, Hunters Pt., Mission Bay, Pier 94, and Yerba Buena Is.; expected elsewhere.	h	a-p	Disturbed areas, dry stream-beds, sand dunes; Elevation: < 1100 m.	7	Jan-Dec	CA	Y/Y
AST	<i>Heterotheca sessiliflora ssp. bolanderi</i>	sessile-flower golden-aster	[<i>Chrysopsis bolanderi</i>] Recorded historically (1891) from Bayview Hills, Buena Vista Park, McLaren Park, Mt. Davidson, and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Duncan-Castro Open Space, and Mt. Davidson.	h	p	Dunes, headlands, grassy coastal slopes; Elevation: < 200 m.	3	Jun-Sep	no	Y/Y
AST	<i>Heterotheca sessiliflora ssp. echioides</i>	bristly golden-aster	[<i>H. echioides</i>] Recorded historically (1891) from Bayview Hills, Mission Bay, Mt. Davidson, Oceanview, San Miguel Hills, Visitación Valley (CCH); not recorded in Howell, <i>et al.</i> Extirpated; last collected in 1957.	h	p	Grassland, scrub, woodland, open forest, disturbed sites; Elevation: < 2100 m.	0	Mar-Dec	no	Y/Y
SAX	<i>Heuchera micrantha</i>	Cal. alumroot	[<i>Lim. var. hartwegii</i>] Recorded historically (1891) from Brotherhood Way, Laguna Honda Valley (Alms House), Lake Merced, Mt. Davidson, and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way, Glen Cyn, Golden Gate Park, Mt. Davidson, O'Shaughnessy Hollow, Rocky Outcrop, SFSU, and Twin Peaks.	s-t	ep	Moist, rocky banks and cliffs; Elevation: < 2500 m.	8	Apr-Jul	no	Y/Y
AST	<i>Hieracium albiflorum</i>	white hawkweed	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Within the bioregional range of the species; status as an indigenous SF species uncertain. Reported from Mt. Sutro where it is reportedly doing well.	h	p	Stoloniferous. Forest; Elevation: < 3300 m.	1	May-Sept	no	?/Y
PTG	<i>Hippuris vulgaris</i> (r)	mare's tail	Previously included in the Hippuridaceae. Recorded historically (1888) from the Presidio (Lobos Cr. Valley, Mountain Lake; Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1890. Reintroduced at the Presidio (Mountain Lake).	h	p	Rhizomatous, emergent aquatic. Margins of shallow ponds, springs, marshy, swampy, or wet disturbed areas; Elevation: < 2700 m. WET: OBL	1	May-Aug	no	Y/Y
BRA	<i>Hirschfeldia incana</i>	summer mustard	[<i>Brassica gniculata</i>] Recorded historically (1917) from Bayview Hills, Golden Gate Park, Lake Merced, Land's End, Lone Mt., the Presidio (Mountain Lake), San Miguel Hills, and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: <i>M/2/—/—</i>	h	a-p	Naturalized. Disturbed areas; Elevation: < 2000 m.	35	Apr-Oct	no	N/N
FAB	<i>Hoita orbicularis</i>	creeping leather root	[<i>Psoralea o.</i>] Known from a single 1882 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1882.	h	p	Meadows, stream-sides, moist hillsides; Elevation: < 2250 m. WET: OBL	0	Apr-Aug	CA	Y/Y
POA	<i>Holcus lanatus</i>	common velvet-grass	Recorded historically (1865) from Alcatraz Is., Brotherhood Way, Lone Mt., Mt. Davidson, Mt. Sutro, the Presidio (Mountain Lake), and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: <i>M/2/—/—</i>	g	p	Naturalized. Moist sites, road-banks, cultivated fields, meadows; Elevation: < 2400 m. WET: FAC	44	Jun-Aug	no	N/N

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ROS	<i>Holodiscus discolor</i> var. <i>discolor</i>	cream-bush oceanspray	[<i>H.d.</i> var. <i>franciscanus</i>] Recorded historically (1852) from Bayview Hills, Brotherhood Way, Laguna Honda Valley, Lake Merced, McLaren Park, Mt. Sutro, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Brotherhood Way, Corona Hts., Forest Hill, Glen Cyn., Golden Gate Hts., Golden Gate Park (Oak Woodland, misc.), Heron's Head Park, Hunters Pt., Interior Greenbelt, Laguna Honda Valley, Lake Merced, McLaren Park, Mt. Davidson, O'Shaughnessy Hollow, the Presidio (Crissy Field, Dragonfly Cr., Ft. Point, Golf Course Natural Area, Mountain Lake, Tennessee Hollow), Sutro Forest, and Twin Peaks; many locations undoubtedly represent reintroductions.	s	dp	Moist woodland edges, rocky slopes; Elevation: < 3200 m. WET: FACU. SERP: 1.0	23	May-Aug	no	Y/Y
POA	<i>Hordeum brachyantherum</i> ssp.	meadow barley	Recorded historically (as full species) from Bayview Hills, Hunters Pt., Laguna Honda Valley, McLaren Park, Mt. Davidson, Park Merced, Pt. Lobos, and San Miguel Hills (Howell, <i>et al.</i>); most occs. are presumed to be <i>H.b.</i> ssp. <i>b.</i> based on CCH records. Reported (as full species) from multiple sites; needs id.	g	p	WET: FACW	16	May-Aug	no	Y/Y
POA	<i>Hordeum brachyantherum</i> ssp. <i>brachyantherum</i>	meadow barley	Recorded historically (1896) from Bayview Hills, Hunters Pt., Laguna Honda Valley, Park Merced, and the Presidio (CCH); not included in Howell, <i>et al.</i> Reported from Bayview Hill and the Presidio; likely more widespread based on the number of non-specific reports from throughout the city and the Presidio. SF lies within the bioregional range of the species and there are many records for San Mateo Co. in CCH; presumed indigenous to SF.	g	p	Meadows, pastures, stream-banks; Elevation: < 3400 m. WET: FACW	2	May-Aug	no	Y/Y
POA	<i>Hordeum brachyantherum</i> ssp. <i>californicum</i>	meadow barley	Recorded historically (1956) from San Miguel Hills (CCH); not included in Howell, <i>et al.</i> Possibly extirpated; needs id. SF lies within the bioregional range of the species and there are many records for San Mateo Co. in CCH; presumed indigenous to SF.	g	p	Meadows, pastures, stream-banks; Elevation: < 3400 m. WET: FACW. SERP: 3.1	0	May-Aug	no	Y/Y
POA	<i>Hordeum depressum</i>	alkali barley	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Recorded from margins of SF Bay; extirpated here.	g	a	Moist sites, vernal pools, generally alkaline soils; Elevation: < 2200 m. WET: FACW	0	Apr-May	no	Y/Y
POA	<i>Hordeum jubatum</i> ssp. <i>jubatum</i>	foxtail barley	[<i>H.j.</i> var. <i>caespitosum</i>] Recorded historically (c. 1955) from Islais Cr. where it was presumably introduced (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Candlestick Pt., Glen Cyn., Golden Gate Park (Stow Lake), and the Richmond Dist.	g	a-p	Road-sides, disturbed areas, meadows, marshes; Elevation: 20-3500 m. WET: FAC	3	May-Jul	no	N/Y
POA	<i>Hordeum marinum</i> ssp. <i>gussoneanum</i>	seaside barley	[<i>H. geniculatum</i> : <i>H. hystrix</i>] Recorded historically (1887) from Hunters Pt., Lone Mt., and the Presidio (Howell, <i>et al.</i> , CCH) Reported from McLaren Park, the Presidio (Crissy Bluffs, Crissy Field, Inspiration Pt.), and Yerba Buena Is.; expected elsewhere. INVASIVE STATUS: M/3/-/-	g	a	Naturalized. Dry to moist, disturbed sites; Elevation: < 1800 m. WET: FAC	5	Apr-Jun	no	N/N
POA	<i>Hordeum murinum</i> ssp. <i>glaucum</i>	mouse barley	[<i>H. glaucum</i>] Recorded historically (1953) from SF (Howell, <i>et al.</i> , CCH). Reported from the Presidio and Yerba Buena Is.; expected elsewhere. INVASIVE STATUS: M/-/-/-	g	a	Naturalized. Summer annual. Moist, generally disturbed sites; Elevation: -60-1900 m. WET: FACU	2	Mar-Jul	no	N/N
POA	<i>Hordeum murinum</i> ssp. <i>leporinum</i>	mouse barley	[<i>H. leporinum</i>] Recorded historically (1900) from throughout SF (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: M/3/-/-	g	a	Naturalized. Winter annual. Moist, generally disturbed sites; Elevation: < 1900 m. WET: FACU	71	Feb-May	no	N/N
POA	<i>Hordeum murinum</i> ssp. <i>murinum</i>	wall barley	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Ft. Funston; expected elsewhere. INVASIVE STATUS: M/-/-/-	g	a	Naturalized. Winter annual. Moist, generally disturbed sites; Elevation: 80-1000 m. WET: FACU	1	Apr-May	no	N/N
POA	<i>Hordeum</i> sp.	foxtail	Reported (to genus) from O'Shaughnessy Hollow; needs id.	g	a-p	n/a	1	n/a	no	n/a
POA	<i>Hordeum vulgare</i>	common barley	Recorded historically (1953) from the Embarcadero, Golden Gate Park, near Islais Cr., Lone Mt., and the Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF but it is undoubtedly present.	g	a	Waif. Disturbed areas as an escape from cultivation, not persisting; Elevation: < 3100 m.	0	Mar-May	no	N/N
ROS	<i>Horkelia californica</i> var.	Cal. horkelia	[<i>Potentilla c.</i>] Recorded historically 1887, as full species) from Bayview Hills, Bernal Hts. Park, Lake Merced, McLaren Park, Mt. Davidson, Oceanview, the Presidio, Rocky Outcrop, San Miguel Hills, Twin Peaks, and Visitation Valley (Howell, <i>et al.</i> , CCH). Reported (as full species) from throughout the city and the Presidio; needs id. Presumably <i>H.c.</i> var. <i>c.</i> based on the number of CCH records from San Mateo and Marin cos.	h	p	Clumping, Grassy openings, edges of coastal scrub, especially northern slopes; Elevation: < 400 m.	20	Mar-Sep	CA	Y/Y
ROS	<i>Horkelia cuneata</i> var. <i>sericea</i> (r)	Kellogg's horkelia	[<i>Potentilla lindleyi</i> var. <i>s.</i> ; <i>H.c.</i> ssp. <i>s.</i>] Reported historically (1896) from Brotherhood Way, Lake Merced, Land's End (Pt. Lobos), Oceanview, and Sunset Hts. (Howell, <i>et al.</i> , CCH), and from Pine Lake (SFRPD, 2006). Extirpated; last collected in 1956. Reintroduced at the Presidio (Baker Beach n., Presidio Bluffs, sw. dunes). RARITY STATUS: -/-/IB.1	h	p	Old dunes, coastal sand-hills; Elevation: generally < 200 m.	3	Apr-Sep	CA	Y/Y
FAB	<i>Hosackia gracilis</i>	harlequin lotus	[<i>Lotus formosissimus</i>] Known from a single 1892 collection from Oceanview (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1892. RARITY STATUS: -/-/4.2	h	p	From stolons or rhizomes. In water, springy areas, shores, meadows, roadside ditches; Elevation: < 700 m. WET: FACW	0	Mar-Jul	no	Y/Y
ASG	<i>Hyacinthoides hispanica</i>	Spanish bluebell	Previously included in the Liliaceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Alcatraz Is., Buena Vista Park, Tank Hill, and Telegraph Hill	h	p	Ornamental; not naturalized.	4	sp	no	N/N
LIL	<i>Hyacinthus orientalis</i>	garden hyacinth	Recorded historically (1954) from the Presidio (Lobos Cr. Valley; Howell, <i>et al.</i>); there are no SF records in CCH. Reported from the Presidio (Lobos Cr. Valley).	h	p	Waif or garden escape; not naturalized.	1	sp	no	N/N

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ARL	<i>Hydrocotyle moschata</i>	musky marsh-pennywort	Previously included in the Apiaceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Embarcadero, Forest Hill, the Presidio (Horse Stables, Tennessee Hollow), Russian Hill, SFSU, Stern Grove, St. Francis Wood, and Sunnyside.	h	p	Agricultural or garden weed; not naturalized.	5	sp-sum	no	N/N
ARL	<i>Hydrocotyle ranunculoides</i>	floating marsh-pennywort	Previously included in the Apiaceae. Recorded historically (1903) from Golden Gate Park, Ingleside, Lake Merced, McLaren Park, Pine Lake, and the Presidio (Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park (Lily Pond, Mallard Lake) and Lake Merced; extirpated from the Presidio.	h	p	Fleshy, floating or creeping. Lake margins, ponds, slow-moving streams; Elevation: < 1500 m. WET: OBL	2	Mar-Aug	no	Y/Y
ARL	<i>Hydrocotyle verticillata</i>	whorled marsh-pennywort	[incl. <i>H.v. var. triradiata</i>] Previously included in the Apiaceae. Recorded historically (1928) from Lake Merced, Mission Cr., the Presidio (Mountain Lake), and Sutro Hts. (Howell, <i>et al.</i> , CCH). Reported from the s. side of Lake Merced.	h	p	Creeping. Lake margins, ponds, slow-moving streams, canals, seeps, springs, marshes; Elevation: < 1400 m. WET: OBL	1	Apr-Sep	no	Y/Y
HPR	<i>Hypericum anagalloides</i>	creeping tinker's penny	Recorded historically (1865) from Brotherhood Way, Laguna Honda Valley (Alms House), Lake Merced, the Presidio, and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn.	h	a-p	From matted stolons. Meadows, marshes, seeps, springs, stream-banks, lake margins; Elevation: < 3220 m. WET: OBL	1	May-Sep	no	Y/Y
HPR	<i>Hypericum calycinum</i>	Aaron's beard St. John's-wort	Recorded historically (1951) from Golden Gate Park and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bernal Hts. Park, Golden Gate Park, McLaren Park, and the Presidio (Presidio Bluffs).	s	ep	Naturalized. Shaded wild land-urban interface; Elevation: < 1040 m.	4	Jun-Nov	no	N/N
HPR	<i>Hypericum canariense</i>	Canary Is. St. John's-wort	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Battery Dynamite, Lover's Lane, Main Post, Presidio Bluffs, Tennessee Hollow). INVASIVE STATUS: MA/-/NW,B/-	s	dp	Naturalized. Disturbed areas; Elevation: < 230 m.	4	May-Jun	no	N/N
HPR	<i>Hypericum perforatum</i> ssp. <i>perforatum</i>	Klamath weed	Recorded historically (1956, as full species) from the Embarcadero and Laguna Honda Valley (Howell, <i>et al.</i> , CCH). Reported from McLaren Park and the Presidio (Simond's Loop). INVASIVE STATUS: L/-/NW,C/-	h	p	Naturalized. Open, disturbed areas in many plant communities; Elevation: 6-1980 m. WET: FACU	2	May-Sep	no	N/N
HPR	<i>Hypericum scouleri</i>	Scouler's St. John's-wort	Known from a single report (c. 1890) from Lakeview/Ashton Mini Park (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1890.	h	p	From taproots or rhizomes. Wet meadows, stream-banks, mesic areas in chaparral, conifer forest; Elevation: < 2940 m. WET: FACW	0	Jun-Sep	no	Y/Y
AST	<i>Hypochaeris glabra</i>	smooth cat's-ear	Recorded historically (1896) from Bayview Hills, Bernal Hts., Brotherhood Way, Corona Hts., the Embarcadero, Golden Gate Park, Lake Merced, Lone Mt., McLaren Park, Mt. Davidson, Nob Hill, Potrero Hills, the Presidio, Sunset Dist. dunes, Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: L/3/-/-	h	a	Naturalized. Disturbed areas, grassland, open woodland; Elevation: < 1630 m.	36	Mar-Jun	no	N/N
AST	<i>Hypochaeris radicata</i>	rough cat's-ear	Recorded historically (1901) from Bayview Hills, the Embarcadero, Lake Merced, Lone Mt., McLaren Park, the Mission Dist., Mt. Davidson, Pacific Hts., the Presidio (Pt. Point, Lobos Cr. Valley), Russian Hill, San Miguel Hills, and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: M/2/-/-	h	a	Naturalized. Disturbed areas, grassland, open woodland; Elevation: < 1500 m. WET: FACU	54	Apr-Jul	no	N/N
BRA	<i>Iberis umbellata</i>	globe candytuft	Recorded historically (1950) from Brotherhood Way and Golden Gate Park (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h	a	Waif or garden escape; not naturalized.	0	Jun-Sep	no	N/N
AQF	<i>Ilex aquifolium</i>	English holly	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from throughout the city and the Presidio. INVASIVE STATUS: L/3/-/-	s-t	ep	Naturalized. Cool, wooded areas; Elevation: < 200 m. WET: FACU	35	May-Jun	no	N/N
BLS	<i>Impatiens balfourii</i>	Kashmir balsam	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Golden Gate Park (Stow Lake).	h	p	Naturalized. Shores, streambanks; Elevation: < 1000 m.	1	Apr-Sep	no	N/N
ALL	<i>Ipheion uniflorum</i>	spring star flower	Previously included in the Liliaceae. Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Ft. Mason, the Presidio (Doyle Dr. Natural Area) and the Sunset Dist.; expected elsewhere.	gp	p	Naturalized. Bulb-forming. Disturbed places; Elevation: generally < 300 m.	2	Feb-Mar	no	N/N
CNV	<i>Ipomoea indica</i>	ocean-blue morning-glory	[<i>I. mutabilis</i>] Reported historically (c. 1957) from the Presidio (Lobos Cr. Valley; Howell, <i>et al.</i>); there are no historic SF records in CCH. Reported from Corona Hts., Ft. Mason, Hayes Valley, Laurel Hts., Lone Mt., Mission Bay, Mission Dist., and Sutro Hts. Potentially invasive.	h	p	Urban weed. Twining, trailing. Disturbed places; Elevation: +/- 50 m. WET: FAC	6	lsp-fall	no	N/N
IRI	<i>Iris douglasiana</i>	Douglas iris	Recorded historically (1887) from Brotherhood Way, Laguna Honda Valley, Lake Merced, Land's End, McLaren Park, Mt. Davidson, Mt. Sutro, Oceanview, the Presidio, San Miguel Hills, Sutro Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	gp	p	Rhizomatous. Grassy places, especially near coast; Elevation: generally < 200 m.	46	May-Jul	no	Y/Y
IRI	<i>Iris foetidissima</i>	stinking iris	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Sutro Forest.	h	p	Naturalized. Rhizomatous. Damp areas in light shade; Elevation: 300-1400 m.	1	Jun-Jul	no	N/N
IRI	<i>Iris germanica</i>	German bearded iris	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Alcatraz Is., Alemany Farm, Balboa Natural Area, and Golden Gate Park (Oak Woodland).	h	p	Naturalized. Rhizomatous. Roadsides, old homesteads in open or light shade; Elevation: 100-1000 m.	4	Apr-May	no	N/N

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IRI	<u><i>Iris longipetala</i></u>	coast iris	Recorded historically (1869) from Bayview Hills, Bernal Hts., Laguna Honda Valley, McLaren Park, Mt. Sutro, Oceanview, Potrero Hills, the Presidio (Ft. Point, Golf Course), San Miguel Hills, Twin Peaks, and Visitación Valley (Howell, <i>et al.</i> , CCH). Reported from Bayview Hts., Bernal Hts. Park, Billy Goat Hill, Corona Hts., Dorothy Erskine Park, Glen Cyn., Golden Gate Hts., Kite Hill, Laguna Honda Valley, McLaren Park, Mt. Davidson, O'Shaughnessy Hollow, Pine Lake, the Presidio (Crissy Bluffs, Inspiration Pt., sw. dunes, Tennessee Hollow, WWII Memorial), Starr King, and Twin Peaks; reintroduced at City College. RARITY STATUS: --/--/4.2	gp	p	Rhizomatous. Moist, coastal prairie or open coastal forest; Elevation: < 600 m. WET: FACW	20	Mar-May	CA	Y/Y
IRI	<i>Iris macrosiphon</i>	ground iris	Known from a single 1852 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1852. There are no contemporary reports from SF.	gp	p	Rhizomatous. Common. Open to partly shaded slopes in oak or pine woodland; Elevation: generally < 1000 m.	0	Mar-May	no	Y/Y
IRI	<i>Iris missouriensis</i>	western blue flag	Recorded historically (1881) from Mission Hills, Potrero Hills, and Twin Peaks (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1955. There are questionable reports from Bayview Hill, McLaren Park, and Sutro Forest (iNaturalist); likely confused with <i>I. longipetala</i> .	gp	p	Rhizomatous. Vernal moist grassy or rocky areas; Elevation: 900-3400 m. WET: FACW	0	May-Jul	CA	Y/Y
IRI	<i>Iris pseudacorus</i>	yellow water iris	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Golden Gate Park (Chain-of-Lakes, Mallard Lake, Stow Lake), Pine Lake, SF Zoo, above Sutro Baths, w. Sunset Playground. INVASIVE STATUS: L/-/B/-	gp	p	Naturalized. Rhizomatous. Pond margins, estuaries; Elevation: 100-1400 m. WET: OBL	5	Apr-Jun	no	N/N
IRI	<i>Iris × hybrida</i>	bearded iris	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Duncan-Castro and Yerba Buena Is.	gp	p	Ornamental; not naturalized.	2	sp	no	N/N
IRI	<i>Iris xiphium</i>	Dutch iris	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Yerba Buena Is.	gp	p	Ornamental; not naturalized.	1	sp	no	N/N
AST	<i>Isocoma menziesii</i> var. <i>vernonioides</i>	coastal goldenbush	[<i>Haplopappus venetus</i> var. <i>g.</i>] Known from two 1891 collections at Ft. Mason (Black Pt.; CCH); not included in Howell, <i>et al.</i> Reported (as full species) from Golden Gate Hts. (CCH). This represents the northernmost station for the taxon.	s	p	Protected sites on dunes, lagoon shores, marshes, dry slopes in grassland and coastal scrub; Elevation: < 400 m. WET: FAC	1	Apr-Nov	no	Y/Y
ISO	<u><i>Isoetes nuttallii</i></u>	Nuttall's quillwort	Known from two 1938 collections at the Presidio (near the Golf Course; Howell, <i>et al.</i> , CCH). Reported from the Presidio (Doyle Dr. Natural Area, Tennessee Hollow).	g	p	Seasonally wet soil, temporary streams; Elevation: generally < 1500(2760) m. WET: OBL	2	n/a	no	Y/Y
ISO	<i>Isoetes orcuttii</i>	Orcutt's quillwort	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Rob Hill. Given a lack of historic collections from the SF Peninsula, its status as an indigenous species here is questionable.	g	p	Vernal pools; Elevation: < 1700 m. WET: OBL	1	n/a	no	?/Y
CYP	<i>Isolepis carinata</i>	keeled bulrush	[<i>Scirpus kaitilepis</i>] Known from a single report (c. 1890) from "SF" (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1890.	g	a	Often drying wet places in grassland, rock barrens, open woodland; Elevation: < 800 m. WET: OBL	0	sp	no	Y/Y
CYP	<i>Isolepis cernua</i>	low bulrush	[<i>Scirpus cernuus</i> var./ssp. <i>californicus</i>] Recorded historically (1891) from Bayview Hills, Brotherhood Way, Golden Gate Park, Lake Merced, Land's End, McLaren Park, Pine Lake, the Presidio (Ft. Point, Mountain Lake), San Miguel Hills, Sunset Dist. Dunes, and Sutro Hts. (Howell, <i>et al.</i> , CCH). Reported from McLaren Park, the Presidio (Crissy Field, Ft. Point, Mountain Lake, Presidio Bluffs, Presidio Hills, Tennessee Hollow), the Sea Cliff Dist., and Sutro Baths.	g	a	Sandy, sometimes brackish sea shores, bluffs, sand dunes, creeks, marshes; Elevation: < 800 m. WET: OBL	8	lsp-win	no	Y/Y
AST	<i>Iva axillaris</i>	povertyweed	Recorded historically (1868) from near City College and se. SF (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1930. SF is the northernmost station for the species.	h	p	Rhizomatous. Seasonally wet, saline habitats, road-sides; Elevation: < 2500 m. WET: FACU	0	Apr-Oct	no	Y/Y
IRI	<u><i>Ixia maculata</i></u>	spotted African corn-lily	Recorded historically (c. 1957) from the Sunset Dist. (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	gp	p	Ornamental; not naturalized.	0	Apr	no	N/N
AST	<u><i>Jaumea carnosa</i></u>	fleshy jaumea	Recorded historically (1890) from the Presidio (Crissy Field?) and se. SF (Howell, <i>et al.</i> , CCH). Reported from Candlestick Pt., Heron's Head Park, Hunters Pt., Land's End, Mission Cr., Pier 94, the Presidio (Crissy Field), Sutro Baths, Treasure Is., Yerba Buena Is., and Yosemite Slough.	h	p	From stolons and slender rhizomes. Coastal salt marshes, bases of sea cliffs; Elevation: < 70 m. WET: OBL	10	Apr-Dec	no	Y/Y
JUG	<i>Juglans hindsii</i>	Northern Cal. black walnut	[<i>J. californica</i> var. <i>h.</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Crissy Field) and Starr King; presumably planted. Not considered indigenous to SF.	t	dp	Along streams, disturbed slopes; Elevation: < 300 m. WET: FAC	2	Apr-May	CA	N/Y
JUN	<i>Juncus acuminatus</i>	sharp-fruited rush	Known from a single 1865 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1865.	g	p	Cespitose, with short rhizomes. Shores, swales; Elevation: generally < 1300 m. WET: OBL	0	Jul-Aug	no	Y/Y
JUN	<i>Juncus balticus</i> ssp. <i>ater</i>	Baltic rush	Recorded historically (1927) from SF (CCH); also recorded (as full species) from Lake Merced, McLaren Park, and San Miguel Hills (Howell, <i>et al.</i>) Reported (as full species) from Glen Cyn., Grandview Park, McLaren Park, Pine Lake, the Presidio (Crissy Bluffs, Crissy Field, Ft. Point, Inspiration Pt., Presidio Hills, Tennessee Hollow), Sutro Baths, and Yerba Buena Is.	g	p	Rhizomatous. Moist to more-or-less dry sites; Elevation: generally < 2200 m. WET: FACW	12	Jul-Nov	no	Y/Y
JUN	<i>Juncus bufonius</i> var.	common toad-rush	Recorded historically (as full species) from Bayview Hills, Golden Gate Park, Lake Merced, Land's End (Pt. Lobos), Lone Mt., Potrero Hills, the Presidio (Mountain Lake), and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported (as full species) from multiple sites throughout the city and Presidio; needs id. <i>J.b.</i> var. <i>b.</i> more common; also in range for <i>J.b.</i> var. <i>congestus</i> .	g	a	WET: FACW	15	Apr-Sep	no	Y/Y

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JUN	<i>Juncus bufonius</i> var. <i>bufonius</i>	common toad-rush	Recorded historically (1896: as full species) from Bayview Hills, Golden Gate Park, Lake Merced, Lone Mt., Potrero Hills, the Presidio (Mountain Lake), Pt. Lobos, and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Crissy Bluffs, Crissy Field, Doyle Dr. Natural Area, Ft. Point, Ft. Scott, Horse Stables, Mountain Lake, Presidio Bluffs, Presidio Hills, Rob Hill, Tennessee Hollow, WWII Memorial), and Yerba Buena Is.; expected elsewhere.	g	a	Damp sunny ground, generally disturbed; Elevation: < 3200 m. WET: FACW	13	May-Sep	no	Y/Y
JUN	<i>Juncus bufonius</i> var. <i>congestus</i>	common toad-rush	[<i>J. ranarius</i> , pending; <i>Lh. var. fasciculatus</i>] Recorded historically (1917) from Bayview Hills, Laguna Honda Valley, Lake Merced, and the Presidio (Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from the Presidio (Crissy Field, Doyle Dr. Natural Area, Dragonfly Cr., Ft. Point, Horse Stables, Presidio Bluffs, Presidio Hills, Tennessee Hollow, WWII Memorial), and Yerba Buena Is.; expected elsewhere.	g	a	Drying pools, shores, disturbed ground, generally saline; Elevation: < 2500 m. WET: FACW	10	Apr-Aug	no	Y/Y
JUN	<i>Juncus capitatus</i>	leafy bracted dwarf rush	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Doyle Dr. Natural Area, Ft. Scott).	g	a	Naturalized. Vernal pools, swales, damp meadows, creeks, disturbed dunes; Elevation: < 1000 m. WET: FACU	2	Apr-Jun	no	N/N
JUN	<i>Juncus effusus</i> ssp. <i>pacificus</i>	Pacific rush	Recorded historically (1852) from "SF" and Twin Peaks (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1934.	g	p	Cespitose, with stout rhizomes. Seeps, shores, marshes, generally damp sunny ground; Elevation: < 2500 m. WET: FACW	0	Jun-Aug	no	Y/Y
JUN	<i>Juncus falcatus</i> ssp. <i>falcatus</i>	sickle-leaf rush	Recorded historically (1866) from Golden Gate Park, Lone Mt., and the Presidio (Presidio Bluffs; Howell, <i>et al.</i> , CCH). Reported from the Presidio (Doyle Dr. Natural Area, Inspiration Pt., Lobos Cr. Valley, Mountain Lake, Presidio Hills, Rob Hill, sw. dunes, Tennessee Hollow). SF is the type locality (possible type of <i>J.f.</i>).	g	p	Rhizomatous. Peatland, moist sandy coastal areas; Elevation: generally < 100 m. WET: FACW	8	Jun-Sep	no	Y/Y
JUN	<i>Juncus hesperius</i>	coast rush	[<i>J. effusus</i> var. <i>brunneus</i>] Recorded historically (1866) from Bayview Hills, Brotherhood Way, Golden Gate Park, Laguna Honda Valley, Land's End (Pt. Lobos), Lone Mt., the Presidio (Lobos Cr. Valley), San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. SF is the type locality Isolectotype, isosyntype of <i>J. effusus</i> var. <i>brunneus</i> .	g	p	Cespitose. Damp ground, bogs, shores, upper edges of salt marshes; Elevation: generally < 100 m.	24	Jun-Nov	no	Y/Y
JUN	<i>Juncus kelloggii</i>	Kellogg's dwarf rush	Known from a single 1866 collection from near Jefferson Square (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1866.	g	a	Cespitose. Damp sandy or clay soils, vernal pools, seeps, fields, meadows; Elevation: < 800 m. WET: FACW	0	Apr-Jun	no	Y/Y
JUN	<i>Juncus lescarii</i>	San Francisco rush	[<i>J. lesueurii</i>] Recorded historically (1881) from Bayview Hills, Golden Gate Park, Lake Merced, Land's End (Pt. Lobos), Lone Mt., Mt. Davidson, the Presidio, San Miguel Hills, se. SF, Twin Peaks, and Visitación Valley (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. SF is the type locality (lectotype of <i>J.L.</i>)	g	p	Rhizomatous. Salt or freshwater marshes, shores of creeks and lakes; Elevation: < 100 m. WET: FACW	25	Aug-Sep	no	Y/Y
JUN	<i>Juncus mexicanus</i> (r)	Mexican rush	Known from a single collection (c. 1956) from the Embarcadero (Howell, <i>et al.</i>); there are no historic SF records in CCH. SF lies within the expected range and the species occurs in San Mateo and Marin cos.; presumed indigenous to SF. Extirpated; last collected in 1956. Reintroduced at the Presidio (Doyle Dr. Natural Area, Inspiration Pt., Mountain Lake, Presidio Hills, Tennessee Hollow).	g	p	Rhizomatous. Coast to montane meadows; Elevation: < 3800 m. WET: FACW	5	Aug-Nov	no	Y/Y
JUN	<i>Juncus occidentalis</i>	western rush	[<i>J. tenuis</i> var. <i>congestus</i>] Recorded historically (1878) from Bayview Hills, Hunters Pt., McLaren Park, Mt. Davidson, the Presidio, and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Corona Hts., McLaren Park, and the Presidio (Doyle Dr. Natural Area, Ft. Point, Ft. Scott, Inspiration Pt., Presidio Bluffs, Presidio Hills, Res. Cultural Plantation, Rob Hill, Tennessee Hollow, WWII Memorial).	g	p	Cespitose. Moist generally sunny areas; Elevation: < 2400 m. WET: FACW	13	May-Sep	no	Y/Y
JUN	<i>Juncus patens</i>	common Cal. Rush	Recorded historically (1866) from Golden Gate Park, Laguna Mt., Lone Mt., Pacific Hts., the Presidio (Lobos Cr. Valley), San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	g	p	Densely cespitose. Marshy places, creeks, seeps; Elevation: < 1600 m. WET: FACW	31	Jun-Sep	no	Y/Y
JUN	<i>Juncus phaeocephalus</i> var.	brown-headed rush	Recorded historically (1860, as full species) from Bayview Hills, Lake Merced, Land's End, Lone Mt., the Presidio (Mountain Lake), and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported (as full species) from Alemany Blvd, Glen Cyn, Grandview Park, Lake Merced, McLaren Park, and the Presidio (Baker Beach n., Crissy Field, Doyle Dr. Natural Area, Dragonfly Cr., Ft. Scott, Golf Course Natural Area, Mountain Lake, Presidio Bluffs, Presidio Hills, sw. dunes, Tennessee Hollow, WWII Memorial); needs id. Both vars. <i>paniculatus</i> and <i>phaeocephalus</i> have been recorded historically in SF. SF is the type locality (syntype of <i>J.p.</i> , <i>J.p.</i> var. <i>glomeratus</i>).	g	p	WET: FACW	17	Apr-Jun	no	Y/Y
JUN	<i>Juncus phaeocephalus</i> var. <i>paniculatus</i>	brown-headed rush	Recorded historically (1881) from SF (CCH) and (as full species) from Bayview Hills, Lake Merced, Land's End, Lone Mt., the Presidio (Mountain Lake), Pt. Lobos, and San Miguel Hills (Howell, <i>et al.</i>) There are no contemporary reports from SF for the variety, but there are numerous reports for the full species (see above).	g	p	Cespitose. Wet places, coastal, inland; Elevation: < 2200 m. WET: FACW	0	Jun-Sep	no	Y/Y
JUN	<i>Juncus phaeocephalus</i> var. <i>phaeocephalus</i>	brown-headed rush	Recorded historically (1866) from Cliff House, Golden Gate Park, Lone Mt., the Presidio (Mountain Lake), Sutro Hts., and Twin Peaks (CCH). Also recorded historically (as full species) from Bayview Hills, Lake Merced, Land's End, Lone Mt., the Presidio (Mountain Lake), Pt. Lobos, and San Miguel Hills (Howell, <i>et al.</i>) There are no contemporary reports from SF for the variety, but there are numerous reports for the full species (see above).	g	p	Rhizomatous. Coastal meadows, dune hollows, marsh edges; Elevation: generally < 200 m. WET: FACW	0	Apr-Jun	no	Y/Y
JUN	<i>Juncus</i> sp.	rush	Reported (to genus) from Lake Merced, and McLaren Park; needs id.	g	a-p	n/a	2	n/a	no	n/a

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FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon Underlined = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonymy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFW / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ^g	# OCCURRENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC SF/Bay Area/CA	NATIVE - SF / CA
JUN	<u><i>Juncus tenuis</i></u>	common path rush	Recorded historically (1974) from Golden Gate Park (Stow Lake) where it was presumed to have been introduced (Howell, <i>et al.</i> , CCH); there are no historic SF records in CCH. Reported from Glen Cyn. and the Presidio (Mountain Lake). Status as an indigenous SF species is uncertain.	g	p	Cespitose. Damp places; Elevation: generally < 1500 m. WET: FACW	2	Jun-Sep	no	?/Y
JUN	<u><i>Juncus sphaicoides</i></u>	iris-leaved rush	Recorded historically (c. 1890) from Brotherhood Way (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Grandview Park, the Presidio (Baker Beach, Baker Beach n., Crissy Field, Doyle Dr. Natural Area, Ft. Scott, Presidio Hills, Tennessee Hollow, WWII Memorial). SF is the type locality (syntype of <i>J.x. var. littoralis</i>). Voucher specimen needed.	g	p	Rhizomatous, creeping. Wet places; Elevation: < 2100 m. WET: OBL	9	Jul-Oct	no	Y/Y
PTG	<i>Kickxia elatine</i>	sharp-leaved fluellin	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from McLaren Park, the Presidio (Lobos Cr. Valley, Presidio Hills, WWII Memorial).	h	p	Naturalized. Disturbed, open places; Elevation: < 1000 m. WET: UPL	4	Apr-Oct	no	N/N
ASP	<u><i>Kniphofia uvaria</i></u>	red-hot poker	Previously included in the Liliaceae. Recorded historically (c. 1957) from Lake Merced and San Miguel Hills (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Alcatraz, Bernal Hts. Park, Billy Goat Hill, Glen Cyn., Golden Gate Park (Lily Pond, Oak Woodland), Land's End, McLaren Park, Mt. Davidson, and the Presidio (Doyle Dr. Natural Area, Infantry Terrace, Liggett St. Housing, Lobos Cr. Valley, Main Post, Presidio Hills, Tennessee Hollow); expected elsewhere. INVASIVE STATUS: W/-/-/-	h	p	Naturalized. Rhizomatous. Marsh, creek margins, chaparral, canyons, disturbed places, often sandy; Elevation: < 100 m.	16	Apr-Jul	no	N/N
CHN	<u><i>Kochia scoparia</i></u> ssp.	red sage	[<i>Bassia</i> s., pending; <i>Ks. ssp. culta</i> ; Amaranthaceae, pending] Recorded historically (1956, as full species) from Mission Bay (Howell, <i>et al.</i> , CCH). Presumably <i>Ks. ssp. scoparia</i> . There are no contemporary reports from SF. INVASIVE STATUS: L/-/-/-	h	a	Naturalized. Disturbed places, fields, road-sides; Elevation: < 2300 m.	0	Aug-Nov	no	N/N
POA	<i>Koeleria gerardii</i>	annual June-grass	[<i>K. philloides</i>] Recorded historically (c. 1955) from Bayview Hills and McLaren Park (Howell, <i>et al.</i> , CCH). Has not been reported in SF in recent years.	g	a	Naturalized. Open, disturbed sites; Elevation: < 600 m.	0	Apr-Jul	no	N/N
POA	<i>Koeleria macrantha</i>	crested June-grass	[<i>K. cristata</i> ; <i>K. gracilis</i>] Recorded historically (c. 1860) from Bayview Hills, Bernal Hts., Brotherhood Way, Laguna Honda Valley, Lake Merced, Lone Mt., McLaren Park Mt. Davidson, Mt. Sutro, the Presidio, San Miguel Hills, Sunset Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	g	p	Cespitose. Dry, open sites, clay to rocky soils, shrubland, woodland, conifer forest; Elevation: < 3840 m.	24	May-Jul	no	Y/Y
CYP	<i>Kyllinga brevifolia</i>	short-leaf spike-sedge	[<i>Cyperus brevifolius</i> , pending] Recorded historically (1925) from Golden Gate Park (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	g	p	Naturalized. Rhizomatous. Pond edges, moist disturbed areas; Elevation: < 300 m. WET: FACW	0	May-Sep	no	N/N
AST	<u><i>Lactuca saligna</i></u>	willow-leaved lettuce	Recorded historically (1956) from Bayview Hills, Hunters Pt., Islais Cr., Lone Mt., Mission Bay, Potrero Hills, and the Presidio (Ft. Point; Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., McLaren Park, the Presidio (Tennessee Hollow) and Starr King; expected elsewhere.	h	a	Naturalized. Road-sides, grassland; Elevation: < 750 m. WET: UPL	4	Jul-Nov	no	N/N
AST	<u><i>Lactuca scariola</i></u>	common prickly lettuce	[incl. <i>Ls. var. integra</i>] Recorded historically (1956) from Bayview Hills, the Embarcadero, Golden Gate Park, Hunters Pt., near Islais Cr., Lake Merced, Lone Mt., Mission Bay, se. SF, and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a	Naturalized. Disturbed places; Elevation: < 2700 m. WET: FACU	19	May-Oct	no	N/N
AST	<i>Lactuca</i> sp.	prickly lettuce	Reported (to genus) from Ft. Funston and Twin Peaks; needs id.	h	a	n/a	2	n/a	no	N/N
AST	<u><i>Lactuca virosa</i></u>	bitter lettuce	Recorded historically (1955) from Lake Merced (Howell, <i>et al.</i> , CCH). Reported from the Embarcadero and SOMA; expected elsewhere.	h	b	Naturalized. Disturbed, shrubby and wooded slopes; Elevation: < 600 m.	0	Jun-Aug	no	N/N
AST	<i>Lagophylla ramosissima</i>	common hareleaf	Known from a single 1868 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1868.	h	a	Grassland, openings in scrub, woodland, forest; Elevation: < 1800 m.	0	Apr-Oct	no	Y/Y
POA	<u><i>Lagurus ovatus</i></u>	hare's-tail grass	Recorded historically (1891) from throughout SF (Howell, <i>et al.</i> , CCH). Reported from Balboa Natural Area, Brotherhood Way, Cliff House, the Embarcadero, Ft. Funston, Lake Merced, Land's End, Lone Mt., Ocean Beach, the Presidio (Baker Beach, Crissy Field, Ft. Point, Lobos Cr. Valley, Mountain Lake, Presidio Hills, Rob Hill, sw. dunes, Tennessee Hollow, WWII Memorial), the Sunset Dist., and Sutro Hts.	g	a	Naturalized. Tufted. Disturbed places; Elevation: generally < 200 m.	19	May-Jul	no	N/N
POA	<u><i>Lamarckia aurea</i></u>	goldentop grass	Recorded historically (c. 1900) from se. SF (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Bayview Hill.	g	a	Naturalized. Cespitose. Open ground, moist seeps, rocky hillsides, sandy soil; Elevation: < 1250 m. WET: FACU	1	Feb-May	no	N/N
LAM	<u><i>Lamium amplexicaule</i></u>	common henbit	Recorded historically (1957) from Golden Gate Park, Lake Merced, Laurel Hts., the Mission Dist., the Presidio, and the Richmond Dist. (Howell, <i>et al.</i> , CCH). Reported from Hilltop Park, Ingleside, the Presidio (Main Post, Presidio Hills, sw. dunes), and Visitación Valley; expected elsewhere.	h	a	Naturalized. Disturbed sites, cultivated or abandoned fields; Elevation: < 800 m.	4	Apr-Sep	no	N/N
LAM	<i>Lamium purpureum</i>	purple dead-nettle	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from City College, Golden Gate Park (Chain-of-Lakes, Oak Woodland, misc.), Laguna Honda Valley, and the Presidio (Crissy Field, Mountain Lake, Officer's Row), and the Sunset Dist.	h	a	Naturalized. Disturbed sites, meadows; Elevation: < 300 m.	7	Apr-Sep	no	N/N
AIZ	<i>Lampranthus</i> sp.	redflush iceplant	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported (to genus) from Sutro Baths; needs id.	h	p	Ornamental, possibly naturalized., Succulent ground cover.	1	n/a	no	N/N
VRB	<i>Lantana camara</i>	lantana	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported Ft. Mason. INVASIVE STATUS: W/-/-/-	s	p	Waif or garden escape. Prostrate to erect. Disturbed slopes, abandoned fields; Elevation: < 200 m. WET: FACU	1	Jan-Dec	no	N/N

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VRB	<i>Lantana montevidensis</i>	trailing lantana	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported naturalized at Starr King.	s	p	Waif or garden escape. Prostrate to erect. Disturbed slopes, abandoned fields; Elevation: < 200 m.	1	Jan-Dec	no	N/N
AST	<i>Lapsana communis</i>	nipplewort	Recorded historically (1956) from Golden Gate Park and Stern Grove (Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park and Pine Lake.	h	a-b	Naturalized. Shady places, disturbed areas; Elevation: < 1600 m. WET: FAC	2	Jun-Sep	no	N/N
PIN	<i>Larix kaempferi</i>	Japanese larch	[<i>L. leptolepis</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Mountain Lake).	t	p	Ornamental; not naturalized.	1	n/a	no	N/N
AST	<i>Lasthenia californica</i> ssp. <i>californica</i>	Cal. goldfields	[<i>L. chrystostoma</i> ; <i>Baeria chrystostoma</i> ; <i>B.c. var. gracilis</i> ; <i>B. hirsutula</i>] Recorded historically (1877) from Alemany Blvd., Bayview Hills, Hunters Pt., Lake Merced, Land's End (Pt. Lobos), McLaren Park, Mt. Davidson, Potrero Hills, the Presidio (Presidio Hills), San Miguel Hills, Sutro Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, Corona Hts., Duncan-Castro Open Space, Hunters Pt. Ridge, Mt. Davidson, Palou-Phelps, the Presidio (Doyle Dr. Natural Area, Inspiration Pt., Presidio Bluffs, Tennessee Hollow, WWII Memorial), Starr King, Tank Hill, and Twin Peaks.	h	a	Grasslands, flats, slopes, sand, clay; Elevation: < 1500 m. WET: FACU	15	Feb-Jun	no	Y/Y
AST	<i>Lasthenia californica</i> ssp. <i>macrantha</i>	perennial goldfields	[<i>L.m. ssp. m</i>] Known from a single 1882 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1882. RARITY STATUS: -/-/IB.2	h	a	Grassland, dunes along immediate coast; Elevation: < 500 m. WET: FACU	0	Jan-Nov	no	Y/Y
AST	<i>Lasthenia glabrata</i> ssp.	yellow-rayed goldfields	[<i>L. glabrata</i>] Recorded historically (1890, as full species) from Potrero Hills and Visitation Valley (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1892. Presumably <i>L.g. ssp. g.</i>	h	a	WET: FACW	0	Feb-Jun	CA	Y/Y
AST	<i>Lasthenia glabrata</i> ssp. <i>coulteri</i>	Coulter's goldfields	Known from a single 1866 collection from SF (CCH); not included in Howell, <i>et al.</i> SF lies far outside of the range of this taxon; not considered to have been indigenous here. RARITY STATUS: -/-/IB.1	h	a	Saline places, vernal pools; Elevation: < 1000 m. WET: FACW	0	Apr-May	no	N/Y
AST	<i>Lasthenia glabrata</i> ssp. <i>glabrata</i>	yellow-rayed goldfields	Recorded historically (1868) from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1903.	h	a	Saline places, vernal pools; Elevation: < 550 m. WET: FACW	0	Feb-Jun	CA	Y/Y
AST	<i>Lasthenia gracilis</i>	needle goldfields	[<i>L. chrystostoma</i> var. <i>gracilis</i>] Recorded historically (c. 1890) from Bayview Hills, Brotherhood Way, Lake Merced, Mt. Davidson, Potrero Hills, the Presidio, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1901.	h	a	Grasslands, flats, slopes; Elevation: < 1500 m.	0	Feb-Jun	no	Y/Y
AST	<i>Lasthenia maritima</i>	seaside goldfields	Not included in Howell, <i>et al.</i> and there are no historic records from mainland SF in CCH. May have occurred in SF based on shoreline collections from San Mateo and Marin cos. Extant on the Farallon Islands.	h	a	Seabird nesting, roosting areas, generally offshore rocks and islands; Elevation: < 100 m.	0	May-Jul	no	Y/Y
AST	<i>Lasthenia microglossa</i>	small rayed goldfields	[<i>Baeria m.</i>] Known from a single 1888 report from "SF" (possibly Mission Hills; Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1888.	h	a	Shaded slopes of woodland, chaparral, desert scrub; Elevation: < 1000 m.	0	Mar-May	CA	Y/Y
AST	<i>Lasthenia minor</i>	coastal goldfields	[<i>Baeria m.</i> ; <i>B. uliginosa</i>]. Recorded historically (1878) from Brotherhood Way, Lake Merced, Nob Hill, the Presidio (Golf Course, Presidio Hills), and Visitation Valley (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1963.	h	a	Grassland; Elevation: < 700 m. WET: FACW	0	Mar-Jun	no	Y/Y
FAB	<i>Lathyrus jepsonii</i> var. <i>californicus</i>	Cal. tulle pea	Recorded historically (1956) from the Embarcadero where it was presumed to have been introduced (Howell, <i>et al.</i> , CCH). Potentially indigenous to SF based on collections from Crystal Springs Res. Presumed extirpated; last collected in 1956. However, there is a suspect 1981 collection from Glen Cyn. (CCH); needs verification. Larval host plant for the Eastern and Western Tailed Blue and Orange Sulphuric butterflies.	h	p	Climbing. Forest, open areas; Elevation: < 1500 m. WET: OBL	0	May-Jul	CA	Y/Y
FAB	<i>Lathyrus latifolius</i>	perennial sweet pea	Recorded historically (c. 1955) from Bayview Hills, Golden Gate Park, and Hunters Pt. (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Alcatraz Is., Bernal Hts. Park, Billy Goat Hill, Corona Hts., Ft. Mason, Glen Cyn., Golden Gate Park (Mallard Lake, misc.), Land's End, McLaren Park, the Presidio (Baker Beach, Doyle Dr. Natural Area, Dragonfly Cr., Ft. Point, Infantry Terrace, Inspiration Pt., Presidio Bluffs, Simond's Loop, Tennessee Hollow), and Treasure Is. INVASIVE STATUS: W/-/-/-	h	p	Naturalized. Disturbed areas, especially roadsides; Elevation: generally < 2000 m.	19	Apr-May	no	N/N
FAB	<i>Lathyrus littoralis</i>	silky beach pea	Recorded historically (1887) from Lake Merced and Sutro Hts. (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, Lake Merced, Lakeview/Ashton Mini Park, Ocean Beach; attempted reintroductions at the Presidio (Baker Beach, Crissy Field) have not been successful. Host plant for the Painted Lady, Silvery Blue, Eastern and Western Tailed Blue and Orange Sulphur butterflies.	h	p	Prostrate or ascending. Open coastal dunes; Elevation: < + 5 m.	6	Apr-Jul	no	Y/Y
FAB	<i>Lathyrus odoratus</i>	sweet pea	Recorded historically (c. 1955) from Bayview Hills (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF; to be expected.	h	a	Naturalized. Sprawling or climbing. Disturbed areas; Elevation: especially < 1000 m.	0	Apr-Jun	no	N/N
FAB	<i>Lathyrus</i> sp.	pea	Reported (to genus) from Bernal Hts. Park; needs id.	h	a-p	n/a	1	n/a	no	n/a
FAB	<i>Lathyrus tingitanus</i>	Tangier pea	Recorded historically (1955) from se. SF (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Corona Hts., near Islais Cr., and Yerba Buena Is.	h	a	Naturalized. Generally disturbed areas, especially coastal; Elevation: generally < 500 m.	3	Apr-Jul	no	N/N
FAB	<i>Lathyrus vestitus</i> var. <i>ochropetalus</i>	common Pacific pea	[<i>L.v. ssp. bolanderi</i> , in part] Recorded historically (1895) from Bayview Hills, Laguna Honda Valley, Lake Merced, McLaren Park, Mt. Davidson, the Presidio (Baker Beach), Rocky Outcrop, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Presidio Bluffs). Larval host plant for the Eastern and Western Tailed Blue and Orange Sulphuric butterflies.	h	p	Sprawling. Conifer or mixed forest; Elevation: generally < 150(400) m.	1	Feb-Jul	no	Y/Y
FAB	<i>Lathyrus vestitus</i> var. <i>vestitus</i>	hillside pea	[<i>L.v. ssp. bolanderi</i> , in part] Recorded historically (1895) from Lake Merced, Mt. Davidson, and the Presidio (CCH); not included in Howell, <i>et al.</i> Reported from throughout the city and the Presidio. Larval host plant for the Eastern and Western Tailed Blue and Orange Sulphuric butterflies.	h	p	Sprawling. Conifer forest in north to chaparral and oak woodland in south; Elevation: < 1500 m. SERP: 1.8	33	Feb-Jul	no	Y/Y

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LAU	<i>Laurus nobilis</i>	sweet bay-laurel	Recorded historically (1957) from Golden Gate Park where it was a common volunteer (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	t	ep	Garden escape; not naturalized.	0	Feb-Apr	no	N/N
LAM	<i>Lavandula stoechas</i>	French lavender	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Glen Cyn., Golden Gate Park, and the Presidio (Lobos Cr. Valley).	s	p	Waif or garden escape; not naturalized.	3	sp	no	N/N
MLV	<i>Lavatera trimestris</i>	annual mallow	[<i>Malva t.</i> , pending] Recorded historically (1914) from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF.	h	a	Waif or garden escape; not naturalized.	0	May-Jun	no	N/N
AST	<i>Layia carnos</i>	beach layia	Known from a single 1904 collection from "SF" (CCH) and Pine Lake (SFRPD, 2006); not included in Howell, <i>et al.</i> Extirpated; last collected in 1904. RARITY STATUS: FE/SE/IB.1	h	a	Coastal dunes; Elevation: < 70 m.	0	Mar-Jul	CA	Y/Y
AST	<i>Layia chrysanthemoides</i> (r)	smooth tidy-tips	Known from a single collection (c. 1860) from Visitación Valley, SF (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1860. Reintroduced at Heron's Head Park and India Basin Shoreline Park.	h	a	Grassy or open heavy soil, sometimes more-or-less alkaline; Elevation: < 800 m. WET: FACW	2	Mar-Jun	CA	Y/Y
AST	<i>Layia gaillardoides</i>	woodland tidy-tips	Recorded historically (c. 1860) from Mission Hills and se. SF (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1925.	h	a	Open or semi-shaded slopes, in sandy or clayey soil (including serpentine); Elevation: < 1300 m.	0	Apr-May	CA	Y/Y
AST	<i>Layia hieracioides</i>	tall tidy-tips	Recorded historically (1868) from Laguna Honda Valley, Lake Merced, Land's End, Mt. Sutro, Potrero Hills, and the Presidio (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Rob Hill).	h	a	Open, semi-shady, or disturbed sites, in light soil; Elevation: < 1200 m.	1	Apr-Jul	CA	Y/Y
AST	<i>Layia platyglossa</i>	common tidy-tips	Recorded historically (1867) from Hunters Pt., Lake Merced, Land's End, Potrero Hills, the Presidio (above Baker Beach), Rocky Outcrop, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park, India Basin Shoreline Park, Laurel Hts., the Presidio (Doyle Dr. Natural Area, Ft. Scott, Inspiration Pt., Liggett St. Housing, Presidio Bluffs, Pygmy Forest, Tennessee Hollow, Washington/Armature Housing, WWII Memorial), the Richmond Dist., the Sunset Dist., and Yerba Buena Is.; many of these occs. are presumably reintroductions.	h	a	Grasslands, clay, sand; Elevation: < 2000 m.	12	Feb-Jul	no	Y/Y
ARA	<i>Lemna gibba</i>	gibbous duckweed	Previously included in the Lemnaceae. Recorded historically (1893) from the Presidio (Lobos Cr. mouth, Mountain Lake; Howell, <i>et al.</i> , CCH). Reported (to genus) from McLaren Park and the Presidio (Lobos Cr.)	h	p	Floating aquatic. Fresh or brackish water; Elevation: generally < 1500 m. WET: OBL	0	sum	no	Y/Y
ARA	<i>Lemna minor</i>	common little duckweed	Previously included in the Lemnaceae. Recorded historically (1956) from Lake Merced and the Presidio (Lobos Cr. Valley; Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park, the Presidio (Mountain Lake) and Sutro Baths. Also reported (to genus) from McLaren Park and the Presidio (Lobos Cr.)	h	p	Floating aquatic. Freshwater; Elevation: < 2000 m. WET: OBL	3	Aug	no	Y/Y
ARA	<i>Lemna minuta</i>	dinky duckweed	[<i>L. minima</i> ; <i>L. minuscula</i>] Previously included in the Lemnaceae. Recorded historically (1897) from Golden Gate Park, Lake Merced, McLaren Park, Pine Lake, and the Presidio (Lobos Cr.; Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park (Mallard Lake) and the Presidio (Mountain Lake). Also reported (to genus) from McLaren Park and the Presidio (Lobos Cr.)	h	p	Floating aquatic. Freshwater; Elevation: < 2200 m. WET: OBL	2	Aug	no	Y/Y
ARA	<i>Lemna</i> sp.	duckweed	Previously included in the Lemnaceae. Reported (to genus) from McLaren Park and the Presidio (Lobos Cr.); needs id.	h	p	n/a	2	n/a	no	n/a
ARA	<i>Lemna trisulca</i>	star duckweed	Previously included in the Lemnaceae. Recorded historically (c. 1880) from SF (Howell, <i>et al.</i>); there are no SF records in CCH. SF lies outside of the bioregional range for the species and its status as an indigenous SF species is questionable. Extirpated; last collected in 1880.	h	p	Floating aquatic. Meadows, mountain streams; Elevation: < 3000 m. WET: OBL	0	May-Jun	no	?/Y
ARA	<i>Lemna valdiviana</i>	Valdivia duckweed	Previously included in the Lemnaceae. Known from a single 1956 collection from Lake Merced (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1956.	h	p	Floating aquatic. Freshwater; Elevation: < 1500 m. WET: OBL	0	May-Jun	no	Y/Y
FAB	<i>Lens culinaris</i>	lentil	Recorded historically (c. 1955) from SF as a sidewalk weed (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	h	a	Agricultural, garden or urban weed. Disturbed areas; Elevation: < 2000 m.	0	July	no	N/N
AST	<i>Leontodon saxatilis</i> ssp.	lesser hawkbit	[<i>L. taraxacoides</i> ; <i>L. nudicaulis</i>] Recorded historically (c. 1955) from Golden Gate Park, Lake Merced, Lincoln Park, Lone Mt., and the Sunset Dist. (Howell, <i>et al.</i>); and there are no SF records in CCH. Reported from the Presidio (Doyle Dr. Natural Area). Presumably <i>L.s.</i> ssp. <i>saxatilis</i> .	h	a	Naturalized. Disturbed areas; Elevation: < 1000 m. WET: FACU	1	Jun-Oct	no	N/N
LAM	<i>Lepechinia calycina</i>	white pitcher sage	Recorded historically (1897) from "vicinity of SF" (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1901.	s	p	Aromatic shrub. Rocky slopes; chaparral, woodland; Elevation: 150-900 m.	0	Mar-Jun	CA	Y/Y
BRA	<i>Lepidium coronopus</i>	swine cress	[<i>Coronopus squamatus</i>] Recorded historically (c. 1900) from Telegraph Hill (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF. INVASIVE STATUS: -/-/NW/-	h	a	Disturbed areas, fields, pastures; Elevation: < 300 m.	0	Mar-Jun	no	N/Y
BRA	<i>Lepidium densiflorum</i>	common pepper-grass	[<i>L.d.</i> var. <i>d.</i> ; <i>L. virginicum</i> var. <i>californicum</i>] Recorded historically (1957) from Golden Gate Park (Stow Lake; Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h	a-b	Fields, pastures, meadows, disturbed sites, floodplains, chaparral; Elevation: < 3500 m. WET: UPL	0	May-Jul	no	N/Y
BRA	<i>Lepidium didymum</i>	lesser swine-cress	[<i>Coronopus didymus</i> ; <i>Senebiera pinnatifida</i>] Recorded historically (1877) from Bayview Hills, Cliff House, the Embarcadero, Golden Gate Park, Hunters Pt., Lake Merced, Land's End, Laurel Hts., Lone Mt., Mt. Sutro, Nob Hill, the Presidio, Russian Hill, and San Miguel Hills (Howell, <i>et al.</i> , CCH, Eastwood [1898]). Reported from throughout the city and the Presidio.	h	a	Naturalized. Foul smelling. Disturbed areas, fields, pastures; Elevation: < 1000 m.	19	Mar-Jul	no	N/N
BRA	<i>Lepidium draba</i>	whitewort	[<i>Cardaria d.</i>] Recorded historically (1956) from the Embarcadero (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF. INVASIVE STATUS: M/-/NW/B/-	h	p	Naturalized. Rhizomatous. Disturbed areas, saline soils, pastures, fields; Elevation: < 3300 m.	0	Mar-Aug	no	N/N

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FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon Underlined = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonymy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFW / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ^g	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC SF/Bay Area/CA	NATIVE - SF / CA
BRA	<i>Lepidium latifolium</i>	perennial pepperweed	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Candlestick Pt., Hunters Pt., Mission Bay, Pier 94, the Presidio (Crissy Field, Lobos Cr. Valley, Presidio Bluffs), Treasure Is., and Yerba Buena Is. INVASIVE STATUS: H/3/NW,B/–	h	p	Naturalized. Rhizomatous. Pastures, disturbed areas, fields, grassland, saline meadows, stream-banks, sagebrush scrub, pinyon/juniper woodland, edge of marshes; Elevation: < 2500 m. WET: FAC	8	Jun-Sep	no	N/N
BRA	<i>Lepidium nitidum</i>	shining pepper-grass	[<i>L.n. var. n.</i>] Recorded historically (1912) from Bernal Hts., Corona Hts., Hunters Pt., McLaren Park, Mt. Davidson, Potrero Hills, and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Bernal Hts. Park, Glen Canyon, Hunters Pt., Pier 94, Potrero Hill, the Presidio (Inspiration Pt., Presidio Bluffs, Tennessee Hollow, WWII Memorial), the Richmond Dist., Starr King, and Yerba Buena Is.	h	a	Alkaline soils, meadows, pastures, dry vernal pools, fields, beaches; Elevation: < 1000 m. WET: FAC	11	Feb-Mar	no	Y/Y
BRA	<i>Lepidium oblongum</i>	wayside pepperweed	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Status as an indigenous SF species is questionable; not recorded from San Mateo or Marin cos. Reported from Glen Cyn.	h	a	Bluffs, slopes, disturbed areas, road-sides, flats, pastures; Elevation: 200-500 m.	1	Mar-Aug	no	?/Y
BRA	<i>Lepidium perfoliatum</i>	clasping pepperweed	Recorded historically (1957) from Islais Cr. (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h	a-b	Naturalized. Road-sides, fields, pastures, meadows, woodland, sagebrush flats; Elevation: < 2450 m. WET: FACU	0	Mar-Jun	no	N/N
BRA	<i>Lepidium pinnatifidum</i>	featherleaf pepper-grass	Recorded historically (1956) from the Embarcadero, Islais Cr. (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Ft. Point)	h	a-p	Naturalized. Disturbed areas; Elevation: < 200 m.	1	Mar-Jun	no	N/N
BRA	<i>Lepidium</i> sp.	pepperweed	Reported (to genus) from Brotherhood Way and Lake Merced; needs id.	h-s	a-p	n/a	2	n/a	no	n/a
BRA	<i>Lepidium strictum</i>	prostrate pepper-grass	Recorded historically (1882) from Bayview Hills, Hunters Pt., Lake Merced, O'Shaughnessy Hollow, Potrero Hills, and the Presidio (Crissy Field, Mountain Lake; CCH); not included in Howell, <i>et al.</i> Once considered native to Cal., it has been determined to be native to Chile. Reported from the Presidio (Presidio Bluffs).	h	a	Naturalized. Disturbed areas, woodland, slopes; Elevation: < 1700 m.	1	Apr-Jun	no	N/N
BRA	<i>Lepidium virginicum</i> ssp. <i>merziesii</i>	Robbinson's pepper-grass	[<i>L.v. var. robbinsonii</i> ; <i>L. pubescens</i>] Recorded historically (1899) from Bayview Hills, the Embarcadero, Hunters Pt., near Islais Cr., Lake Merced, Potrero Hills, the Presidio, San Miguel Hills, and Telegraph Hill (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF. Status as an indigenous taxon is uncertain.	h	a	Dry, disturbed areas, bottomland, riverbanks, meadows, fields, pastures, cliffs, scrub; Elevation: < 2800 m. WET: FACU	0	Jan-Jul	no	?/Y
POA	<i>Leptochloa fusca</i> ssp. <i>fascicularis</i>	small-flowered beetle-grass	[<i>L.fascicularis</i>] Recorded historically (1933) from SF (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Presidio Hills) and Yerba Buena Is. More common in the Sacramento and San Joaquin valley. Not considered indigenous to SF.	g	a	Marshes, wetlands, often wet disturbed areas, often associated with agriculture; Elevation: < 1200 m.	2	Jun-Oct	no	N/Y
POA	<i>Leptochloa panicea</i> ssp. <i>brachiata</i>	red sprangletop grass	[<i>L.filiformis</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Presidio Hills); needs verification. Native to s. Cal.; not considered indigenous to SF.	g	a	Wet sites, drying ponds; Elevation: < 100 m.	1	Sep-Dec	no	N/Y
PLM	<i>Leptosiphon croceus</i>	false babystars	[<i>Linanthus</i> c.; <i>Linanthus androsaceus</i> ssp. <i>croceus</i>]. Recorded historically (1902) from Lake Merced and the Presidio (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1903.	h	a	Open or shaded areas in woodland, chaparral; Elevation: < 1200 m.	0	Mar-Jun	no	Y/Y
PLM	<i>Leptosiphon grandiflorus</i>	large-flowered leptosiphon	[<i>Linanthus</i> g.l.] Recorded historically (1891) from Lakeview (Ingleside), Oceanview, and the Presidio (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1894. RARITY STATUS: –/–/4.2	h	a	Open, grassy flats, generally sandy soil; Elevation: < 1200 m.	0	Apr-Aug	CA	Y/Y
PLM	<i>Leptosiphon latisectus</i>	broad-lobed leptosiphon	[<i>Linanthus</i> l.] Recorded historically (1892) from Brotherhood Way, Ft. Funston, Lake Merced, Oceanview, and the Presidio (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1956. RARITY STATUS: –/–/4.3	h	a	Open or partially shaded grassy slopes; Elevation: < 1500 m. SERP: 2.0	0	Apr-Jun	CA	Y/Y
PLM	<i>Leptosiphon liniflorus</i>	flax-flowered linanthus	[<i>Linanthus</i> l.] Recorded historically (1882) from Bayview Hills, Hunters Pt., and Potrero Hills (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1941. SF is the northernmost station for the species.	h	a	Woodland, openings, common on serpentine, desert; Elevation: < 1700 m. SERP: 1.7	0	Mar-Jun	no	Y/Y
PLM	<i>Leptosiphon parviflorus</i>	variable linanthus	[<i>Linanthus</i> p.] Recorded historically (c. 1866) from Lake Merced and Mission Dolores (CCH); not included in Howell, <i>et al.</i> Reported from Lake Merced (Ochoa, 2001).	h	a	Open or wooded areas; Elevation: < 1200 m.	1	Mar-Jun	CA	Y/Y
PLM	<i>Leptosiphon rosaceus</i>	rose leptosiphon	Recorded from the San Francisco North USGS quadrangle, which includes SF and Marin cos. (CNPS, 2021). However, the species is not included in Howell, <i>et al.</i> and there are no SF records in CCH. Known from San Mateo and Marin cos.; considered indigenous to SF. Extirpated. RARITY STATUS: –/–/1B.1	h	a	Open, grassy slopes, coastal bluffs; Elevation: + 0 m.	0	Apr-Jul	no	Y/Y
MRT	<i>Leptospermum laevigatum</i>	Australian tea tree	Recorded historically (1957) from Golden Gate Park, Laguna Honda Valley, and the Presidio (Lobos Cr. Valley; Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: W/–/–/–	s-t	ep	Naturalized. Disturbed coastal areas; Elevation: < 50 m.	26	sp	no	N/N
AST	<i>Lessingia arachnoidea</i>	Crystal Springs lessingia	Known from a single 1866 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1866. Endemic to the SF Bay Area. Serpentine endemic. RARITY STATUS: –/–/1B.2	h	a	Serpentine soil in grassland, coastal scrub, chaparral, woodland; Elevation: 40-300 m. SERP: 6	0	Jul-Oct	BA	Y/Y
AST	<i>Lessingia germanorum</i>	San Francisco lessingia	Recorded historically (1868) from Golden Gate Park, Lake Merced, Lone Mt., Oceanview, Pine Lake, and the Presidio (near Baker Beach, Golf Course, Lobos Cr., Mountain Lake, Presidio Hills; Howell, <i>et al.</i> , CCH), and from Pine Lake (SFRPD, 2006). Reported from Ft. Funston (additional reintroductions are underway) and the Presidio (Baker Beach n., Crissy Field, Golf Course Natural Area, Lobos Cr. Valley, Presidio Hills, Rob Hill, sw. dunes, WWII Memorial). Endemic to SF and San Mateo counties. RARITY STATUS: FE/SE/1B.1	h	a	Sandy soil; Elevation: < 100 m.	9	Jun-Nov	BA	Y/Y
AST	<i>Leucanthemum maximum</i>	Shasta daisy	Recorded historically (1956) from Lake Merced (CCH); not included in Howell, <i>et al.</i> Reported from Golden Gate Park.	h	p	Naturalized. Rhizomatous. Disturbed areas, forest, streambanks; Elevation: 600-1500 m.	1	Jun-Aug	no	N/N

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AST	<i>Leucanthemum vulgare</i>	ox-eye daisy	[<i>Chrysanthemum l.</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from McLaren Park, the Presidio (Tennessee Hollow), and the Sea Cliff Dist. INVASIVE STATUS: M/—/—/—	h	a	Naturalized. Disturbed areas, meadows, seeps; Elevation: < 2600 m. WET: UPL	2	Jun-Aug	no	N/N
AML	<i>Leucocymum aestivum</i>	summer snowflake	Previously included in the Liliaceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Bayview Hill and Buena Vista Park.	gp	p	Waif or garden escape; not naturalized. Garden escape in urban areas, persisting at old homesteads; Elevation: < 500 m.	2	Mar-Jun	no	N/N
CPR	<i>Leucesteria formosa</i>	Himalayan honeysuckle	Recorded historically (c. 1957) from Golden Gate Park (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	s	ep	Waif or garden escape; not naturalized.	0	sum	no	N/N
IRI	<i>Libertia formosa</i>	showy libertia	[<i>L. chilensis</i> , pending] Recorded historically (c. 1957) from SF (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from the Presidio.	gp	p	Waif or garden escape; not naturalized. Rhizomatous. Disturbed urban, coastal areas; Elevation: < 50 m.	1	Mar	no	N/N
API	<i>Ligusticum apijfolium</i>	Pacific lovage	Recorded historically (1896) from Bayview Hills, Mt. Davidson, the Presidio, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Dorothy Erskine Park, Glen Cyn., Mt. Davidson, O'Shaughnessy Hollow, the Presidio (Inspiration Pt., sw. dunes), and Twin Peaks. Declining. SF is the type locality (holotype, isotype of <i>L. apiodorum</i> var. <i>helleri</i>).	h	p	Coastal meadows, scrub or woodland; Elevation: < 1850 m.	8	Jun-Jul	no	Y/Y
OLE	<i>Ligustrum japonicum</i>	Japanese waxleaf privet	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Embarcadero, the Marina Dist., Mission Bay, the Presidio (Main Post), and Yerba Buena Is.; expected elsewhere.	s	ep	Naturalized. Canyon slopes; Elevation: < 45 m.	3	May-Sep	no	N/N
OLE	<i>Ligustrum lucidum</i>	glossy privet	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from near Billy Goat Hill, Golden Gate Park, the Presidio (Main Post), SOMA, and Yerba Buena Is.; expected elsewhere. INVASIVE STATUS: L/—/—/—	s-t	ep	Naturalized. Riparian zones; Elevation: < 1100 m.	3	Jun-Sep	no	N/N
OLE	<i>Ligustrum ovalifolium</i>	oval-leaf privet	Recorded historically (c. 1955) from Golden Gate Park (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Bernal Hts. Park, the Presidio (Doyle Dr. Natural Area), and Yerba Buena Is.; expected elsewhere.	s	ep	Naturalized. Alder woodland, thickets, disturbed areas; Elevation: < 300 m.	3	Jul-Aug	no	N/N
OLE	<i>Ligustrum</i> sp.	privet	Reported (to genus) from Laguna Honda Valley; needs id.	s	p	n/a	1	n/a	no	N/N
OLE	<i>Ligustrum vulgare</i>	European privet	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Glen Cyn.; expected elsewhere.	s	dp	Ornamental; not naturalized. WET: UPL	1	sum	no	N/N
LIL	<i>Lilium maritimum</i>	coast lily	Considered as potentially occurring in SF (CNPS, 2021). Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Status as an indigenous species uncertain; SF lies within the bioregion for the species but would represent the southernmost station. RARITY STATUS: —/—/1B.1	gp	p	From bulb-like, scaly rhizomes. Coastal prairie or scrub, peatland, gaps in closed-cone-pine forest; Elevation: < 150 m. WET: FACW	0	May-Aug	CA	Y/Y
LIL	<i>Lilium pardalinum</i> ssp.	leopard lily	Known (as full species) from a single 1868 collection from the Mission Dist. (Howell, <i>et al.</i>); there are no SF records in CCH. SF lies within the bioregion for the taxon, with records from San Mateo and Marin cos.; presumed indigenous to SF. Extirpated; last collected in 1868. Presumably <i>Lp.</i> ssp. <i>p.</i>	gp	p	From bulb-like, scaly rhizomes. Moist places (drier along coast); Elevation: < 1700 m. WET: FACW	0	Jun-Jul	CA	Y/Y
LIL	<i>Lilium</i> sp.	lily	Reported (to genus) from McLaren Park; needs id.	gp	p	n/a	1	n/a	no	n/a
PLB	<i>Limonium californicum</i>	western marsh-rosemary	Recorded historically (1837) from Lake Merced, the Presidio, se. SF, and Visitación Valley (Howell, <i>et al.</i> , CCH). Reported from Heron's Head, Hunters Pt., Pier 94, the Presidio (Crissy Field, Tennessee Hollow), and Yosemite Slough.	h	p	Coastal dunes, salt marshes; Elevation: < 50 m. WET: FACW	6	Jul-Dec	no	Y/Y
PLB	<i>Limonium otolepis</i>	Asian sea-lavender	[<i>L. perfoliatum</i> , misappl.] Recorded historically (1957) from mouth of Islais Cr. (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h	p	Waif or garden escape; not naturalized. Disturbed, coastal areas, salt marshes; Elevation: < 100 m.	0	Sep-Feb	no	N/N
PLB	<i>Limonium perezii</i>	Perez's sea-lavender	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the outer Mission, Park Merced, and SFSU.	h	p	Naturalized. Disturbed coastal areas, cliffs, sand dunes, roadsides; Elevation: < 100 m.	1	Mar-Sep	no	N/N
PLB	<i>Limonium ramosissimum</i> ssp. <i>provinciale</i>	Algerian sea-lavender	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Candlestick Pt., Heron's Head Park, Hunters Pt., Mission Cr., the Mission Dist., Pier 94, the Presidio (Crissy Field, Doyle Dr. Natural Area), and Yosemite Slough. INVASIVE STATUS: L/—/B/—	h	p	Potentially naturalized. WET: FACW	8	Aug-Jun	no	N/N
PLB	<i>Limonium</i> sp.	sea-lavender	Reported (to genus) from Lake Merced; needs id.	h	p	n/a	1	n/a	no	n/a
SCR	<i>Limosella acaulis</i>	broad-leaved mudwort	Previously included in the Plantaginaceae. Recorded historically (1891) from "SF" (1891) and the Presidio (Mountain Lake; CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1905.	h	a	Stoloniferous, partially submersed; cespitose, generally mat-forming. Wet, muddy places, generally fresh water; Elevation: < 3300 m. WET: OBL	0	May-Oct	no	Y/Y
SCR	<i>Limosella aquatica</i>	water mudwort	Previously included in the Plantaginaceae. Recorded historically (c. 1890) from Lone Mt. and the Presidio (Mountain Lake; Howell, <i>et al.</i> , NRDB). Extirpated; last collected in 1892.	h	a	Stoloniferous, partially submersed; tufted. Wet, muddy, periodically flooded places, fresh water; Elevation: < 3200 m. WET: OBL	0	Jun-Sep	no	Y/Y
PTG	<i>Linaria bipartita</i>	split-lip toadflax	Previously included in the Scrophulariaceae. Recorded historically (c. 1953) from Lake Merced (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Glen Cyn.	h	a	Naturalized. Disturbed areas; Elevation: < 550 m.	1	Dec-Jul	no	N/N

ANNOTATED CHECKLIST OF THE VASCULAR PLANTS OF SAN FRANCISCO

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon Underlined = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonymy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFW / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ^g	# OCCURRENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC S/Bay Area/CA	NATIVE - SF / CA
PTG	<i>Linaria maroccana</i>	Moroccan toadflax	Previously included in the Scrophulariaceae. Known from a single 1961 collection from the Sunset Dist. (CCH); not included in Howell, <i>et al.</i> Reported from the Sea Cliff Dist.	h	a	Naturalized. Disturbed areas; Elevation: < 830 m.	0	Mar-Jun	no	N/N
LIN	<i>Linum biemae</i>	narrow-leaf flax	Recorded historically (1957) from Laguna Honda Valley (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Golden Gate Park, Grandview Park, the Presidio (Main Post, Presidio Bluffs), and Yerba Buena Is.; expected elsewhere.	h	b-p	Naturalized. Garden escape; grassland, woodland, disturbed places, especially coastal; Elevation: < 1000 m.	6	Mar-Jun	no	N/N
LIN	<i>Linum lewisii</i> var.	western blue flax	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported (as full species) from the Sea Cliff Dist., the Sunset Dist. and Yerba Buena Is. where it was introduced in a seed mix. Native Cal. taxon but not considered indigenous here.	h	p	Generally dry open areas in mtns, foothills; Elevation: < 3660 m. SERP: 1.3	1	May-Aug	no	N/N
LIN	<i>Linum usitatissimum</i>	common flax	Recorded historically (1956) from the Embarcadero, Mission Rock Terminal, Golden Gate Park, and near Islais Cr. (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h	a	Naturalized. Disturbed areas, abandoned cultivated sites; Elevation: < 1000 m.	0	Apr-May	no	N/N
SAX	<i>Lithophragma affine</i>	San Francisco woodland-star	Recorded historically (1881) from Bayview Hills, Brotherhood Way, Lake Merced, and se. SF (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Billy Goat Hill, Glen Cyn., Rocky Outcrop, and Twin Peaks.	h	p	Rhizomatous, bearing bulblets. Open, grassy slopes; Elevation: < 2000 m.	5	Mar-Apr	no	Y/Y
SAX	<i>Lithophragma heterophyllum</i>	hillside woodland-star	Known from a single 1883 collection from Glen Cyn (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1883.	h	p	Shaded slopes; Elevation: < 1500 m.	0	Apr-Jul	CA	Y/Y
SAX	<i>Lithophragma parviflorum</i> var.	pink woodland-star	Known from a single 1891 collection (as full species) from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1891. Presumably <i>Lp.</i> var. <i>p.</i>	h	p	Open areas; Elevation: < 3000 m.	0	Mar-Jun	no	Y/Y
BOR	<i>Lithospermum arvense</i>	corn gromwell	[<i>Buglossoides arvensis</i> , pending] Recorded historically (1894) from "SF" (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	h	a	Naturalized. Disturbed areas, open meadows; Elevation: 100-1500 m.	0	Apr-Jun	no	N/N
CAM	<i>Lobelia erinus</i>	edging lobelia	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Presidio Hills).	h	p	Waif or garden escape; not naturalized. Disturbed areas; Elevation: < 50 m.	1	Apr	no	N/N
BRA	<i>Lobularia maritima</i>	sweet-alyssum	[<i>Alyssum maritimum</i>] Recorded historically (1904) from Alcatraz Is., Bayview Hills, Brotherhood Way, Cliff House, Golden Gate Park, Lake Merced, Land's End, Lone Mt., Nob Hill, the Presidio, San Miguel Hills, Sunset Dist. dunes, Sunset Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: L/-/-/-	h	a-p	Naturalized. Disturbed areas, fields; Elevation: < 600 m.	41	Mar-Oct	no	N/N
AST	<i>Logfia filaginoides</i>	Cal. cottonrose	[<i>L. californica</i> ; <i>Filago</i> c.] Recorded historically (1920) from Lake Merced and the Presidio (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Presidio Bluffs).	h	a	More or less weedy. Bare, rocky, or grassy sites, drainages; Elevation: < 1800 m.	1	Feb-May	no	Y/Y
AST	<i>Logfia gallica</i>	narrow-leaf filago	[<i>Filago</i> g.] Recorded historically (1930) from Bayview Hills, Brotherhood Way, Glen Cyn., Golden Gate Park, near Islais Cr., Lake Merced, Lone Mt., McLaren Park, Mt. Davidson, Potrero Hills, and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: -/3/-/-	h	a	Naturalized. Bare or grassy openings, burns; Elevation: < 1100 m.	30	Mar-Jul	no	N/N
AST	<i>Logfia</i> sp.	logfia	[<i>Filago</i> sp.] Reported (to genus) from O'Shaughnessy Hollow; needs id.	h	a	n/a	1	n/a	no	n/a
API	<i>Lomatium californicum</i>	Cal. lomatium	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from a single 1984 collection from the Presidio (Inspiration Pt.; CCH.)	h	p	Woodland, brushy slopes; Elevation: 150-1800 m.	1	Apr-Jun	no	Y/Y
API	<i>Lomatium caruifolium</i> var. <i>caruifolium</i>	desert parley	Recorded historically (1891) from Bayview Hills, Corona Hts., Hunters Pt., Laguna Honda Valley, McLaren Park, Mt. Davidson, Mt. Sutro, Potrero Hills, the Presidio, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported (as full species) from Bayview Hill, Bernal Hts. Park, Billy Goat Hill, Duncan-Castro Open Space, Glen Cyn., Hunters Pt. Ridge, Kite Hill, McLaren Park, Palou-Phelps, the Presidio (Inspiration Pt., Presidio Bluffs, Tennessee Hollow, WWII Memorial), Starr King, Tank Hill, and Twin Peaks; presumably <i>Lc.</i> var. <i>c.</i>	h	p	Wet, clay depressions, open grassland; Elevation: 60-600 m. WET: FACW	16	Mar-Apr	CA	Y/Y
API	<i>Lomatium dasycarpum</i> ssp. <i>dasycarpum</i>	woolly-fruited lomatium	Recorded historically (c. 1893) from Bayview Hills, Bernal Hts., Hunters Pt., Laguna Honda Valley, Mt. Davidson, the Presidio (Presidio Bluffs), and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported (as full species) from Bayview Hill, Bernal Hts. Park, Dorothy Erskine Park, Glen Cyn., Mt. Davidson, O'Shaughnessy Hollow, Palou-Phelps, the Presidio (Inspiration Pt.); presumably <i>Ld.</i> ssp. <i>d.</i> Reintroduced at Sutro Forest.	h	p	Rocky (generally serpentine), chaparral, woodland; Elevation: < 1600 m. SERP: 3.6	9	Feb-May	no	Y/Y
API	<i>Lomatium macrocarpum</i>	large-fruited lomatium	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Glen Cyn. Voucher specimen needed.	h	p	Generally serpentine rocky slopes in chaparral or woodland; Elevation: 150-3000 m. SERP: 2.7	1	Feb-Mar	no	Y/Y
API	<i>Lomatium utriculatum</i>	bladder parsnip	Recorded historically (1929) from Bayview Hills, Mt. Davidson, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, Billy Goat Hill, Corona Hts., Dorothy Erskine Park, Duncan-Castro Open Space, Glen Cyn., Hunters Pt. Ridge, Kite Hill, Laguna Honda Valley, McLaren Park, Mt. Davidson, O'Shaughnessy Hollow, Palou-Phelps, the Presidio (Inspiration Pt.), Starr King, Tank Hill, and Twin Peaks.	h	p	Open grassy slopes, meadows, woodland; Elevation: 50-1550 m. SERP: 1.7	18	Mar-Apr	no	Y/Y
CPR	<i>Lonicera hispidula</i>	Cal. hairy honeysuckle	[<i>Lh.</i> var. <i>vacillans</i>] Known from two 1852 collections at Sunset Hts. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	v-s	p	Spreading to twining. Canyons, stream-sides, woodland; Elevation: < 1100 m. WET: FACU	29	May-Jun	no	Y/Y
CPR	<i>Lonicera involucrata</i> var. <i>involucrata</i>	twinberry honeysuckle	Recorded historically (1868) from a single SF record (CCH); not included in Howell, <i>et al.</i> SF lies far outside of the bioregion; presumed to have been introduced. There are no contemporary reports from SF.	v-s	p	Moist places; Elevation: 600-2900 m. WET: FAC	0	Jun-Aug	no	N/Y
CPR	<i>Lonicera involucrata</i> var. <i>ledebourii</i>	coast twinberry	Recorded historically (1852) from Golden Gate Park, Laguna Honda Valley, Lake Merced, Mission Hills, the Presidio (Lobos Cr. Valley, Mountain Lake, Presidio Bluffs), and Sunset Hts. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio; commonly planted.	s	dp	Moist places; Elevation: < 1500 m. WET: FAC	32	May-Jul	no	Y/Y

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CPR	<i>Lonicera japonica</i>	Japanese honeysuckle	Recorded historically (1927) from Golden Gate Park, Lake Merced, McLaren Park, Mt. Davidson, the Presidio, and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported as naturalized at Alcatraz Is., Bernal Hts. Park, Glen Cyn., Golden Gate Park (Stow Lake), Interior Greenbelt, Land's End, Mt. Davidson, Pine Lake, the Presidio (Lobos Cr. Valley, Mountain Lake, Officer's Row, Tennessee Hollow), the Richmond Dist., SFSU, the Sunset Dist., Suto Forest, and Yerba Buena Is.	v	ep	Naturalized. Twining. Disturbed places; Elevation: generally < 1000 m. WET: FACU	15	May-Jul	no	N/N
FAB	<i>Lotus angustissimus</i>	slender bird's-foot trefoil	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Tennessee Hollow); possibly confused with <i>L. corniculatus</i> .	h	a	Naturalized. Disturbed grassland, road-sides; Elevation: < 1000 m.	1	Jun-Aug	no	N/N
FAB	<i>Lotus corniculatus</i>	common bird's-foot trefoil	Recorded historically (1956) from Bayview Hills, the Embarcadero, Golden Gate Park, near Islais Cr., Lake Merced, Laurel Hts., and the Marina Dist. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	p	Naturalized. Open, disturbed areas; Elevation: < 1000 m. WET: FAC	27	Jun-Sep	no	N/N
FAB	<i>Lotus sp.</i>	lotus	[<i>Acmispon sp.?</i>] Reported (to genus) from Interior Greenbelt, McLaren Park, Rocky Outcrop, and Twin Peaks.	h	a-p	n/a	4	n/a	no	n/a
FAB	<i>Lotus tenuis</i>	narrow-leaf bird's-foot trefoil	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Glen Cyn.	h	p	Naturalized. Open, disturbed areas; Elevation: < 600 m. WET: FACU	1	Jun-Sep	no	N/N
ONA	<i>Ludwigia hexapetala</i>	six-petal water-primrose	[<i>Jussiaea uruguayensis</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Golden Gate Park (Elk Glen Lake), Pine Lake, the Presidio (Presidio Bluffs), and Suto Baths. INVASIVE STATUS: H/1/NW,C/-	h-ss	p	Naturalized. Emergent aquatic. Lake margins, wetlands; Elevation: < 300 m.	4	May-Dec	no	N/N
ONA	<i>Ludwigia peploides ssp. montevidensis</i>	floating water primrose	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Golden Gate Park (Stow Lake) and Suto Baths. INVASIVE STATUS: H/-/-/-	h	p	Naturalized. Lakeshores, stream-banks, floodplains, seasonal wetlands; Elevation: < 500 m. WET: OBL	2	May-Jul	no	N/N
ONA	<i>Ludwigia peploides ssp. peploides</i>	yellow water-primrose	[<i>Jussiaea repens var. peploides</i>] Known from a single 1903 collection from Lake Merced (Howell, <i>et al.</i> , CCH). Reported (as full species) from Golden Gate Park (Chain-of-Lakes), Pine Lake and Suto Baths; needs id. INVASIVE STATUS: H/-/-/-	h	p	Matted, floating or creeping. Lakeshores, stream-banks, seasonal wetlands; Elevation: < 900 m. WET: OBL	3	Jun-Oct	no	Y/Y
MRT	<i>Luna apiculata</i>	temu	[<i>Eugenia a.</i>] Reported historically (c. 1957) from Golden Gate Park (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	s-t	p	Waif or garden escape; not naturalized. Cool coastal, urban areas; Elevation: 100 m.	0	sum	no	N/N
BRA	<i>Lunaria annua</i>	annual moonwort	Recorded historically (1957) from Lone Mt. and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bernal Hts. Park, Brooks Park, the Presidio (Golf Course Natural Area, Res. Cultural Plantation), the Richmond Dist., and Suto Forest.	h	b	Naturalized. Disturbed areas; Elevation: < 1000 m.	5	Apr-Jun	no	N/N
FAB	<i>Lupinus albilfrons var. albilfrons</i>	silver bush-lupine	Recorded historically (1872) from "SF" and Twin Peaks (CCH); not included in Howell, <i>et al.</i> Believed extirpated; last collected in 1975. There is an unconfirmed report of this taxon at Twin Peaks.	ss-s	dp	Chaparral, foothill woodland; Elevation: < 1500 m.	0	Apr-Jul	no	Y/Y
FAB	<i>Lupinus albilfrons var. collinus</i>	silver bush-lupine	Recorded historically (1892) from Bayview Hills, Duncan-Castro Open Space, Mt. Davidson, the Presidio, San Miguel Hills, se. SF, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, Billy Goat Hill, Everson/Digby Open Space, Glen Cyn., McLaren Park, O'Shaughnessy Hollow, and Twin Peaks; reintroduced at Mt. Suto. Also reported from Ft. Funston and the Presidio (Golf Course Natural Area, Lobos Cr. Valley, Presidio Bluffs) where it was possibly confused with <i>L. chamissonis</i> .	ss	dp	Cliffs, forest openings; Elevation: < 2000 m.	9	Mar-Jun	no	Y/Y
FAB	<i>Lupinus arboreus</i>	yellow bush-lupine	Recorded historically (1881) from Bayview Hills, Golden Gate Park, Islais Cr., Lake Merced, Lone Mt., Mt. Davidson, Potrero Hills, the Presidio (Lobos Cr. Valley, Mountain Lake), Pt. Lobos, Sunset Dist. dunes, and Suto Hts. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	s	dp	Coastal bluffs, dunes, or more inland; Elevation: < 100 m.	69	Apr-Jul	no	Y/Y
FAB	<i>Lupinus benthamii</i>	spider lupine	Known from a single 1882 collection from "SF" (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF. Status as an indigenous species here is doubtful based on geographical distribution.	h	a	Rocky slopes, open areas; Elevation: < 1500 m.	0	Mar-Jun	CA	N/Y
FAB	<i>Lupinus bicolor</i>	miniature dove lupine	[Incl. <i>Lb. vars. microphyllus, pipersmithii, trifidus, and umbellatus</i> ; <i>L. sabulosus</i> ; <i>L. micranthus</i> , misappl.] Recorded historically (1884) from Bayview Hills, Corona Hts., Hunters Pt., Lake Merced, Land's End (Pt. Lobos), Laurel Hts., Lone Mt., McLaren Park, Mt. Davidson, Nob Hill, Potrero Hills, the Presidio (Baker Beach, Ft. Point, Presidio Hills), Rocky Outcrop, San Miguel Hills, se. SF, Sunset Dist. dunes, Suto Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and Presidio. SF is the type locality (isotype of <i>L. sabulosus</i>).	h	a	Open or disturbed areas; Elevation: < 1600 m.	35	Mar-Jun	no	Y/Y
FAB	<i>Lupinus chamissonis</i>	silver beach lupine	Recorded historically (1864) from Golden Gate Hts., Golden Gate Park, Islais Cr., Lake Merced, Laurel Hill Cemetery, Lone Mt., Oceanview, the Presidio (Baker Beach, Presidio Hills), and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio; reintroduced at numerous sites.	s	ep	Coastal strand, dunes; Elevation: < +/- 10 m.	34	Mar-Jul	CA	Y/Y
FAB	<i>Lupinus formosus var. formosus</i>	summer bush-lupine	[<i>Lf. var. bridgesii</i> , possible minor variant of <i>Lf.</i> ; unresolved] Recorded historically (1913, as full species) from Bayview Hills, Twin Peaks, and Visitación Valley (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, and Twin Peaks; reintroduced at Suto Forest. Presumably <i>Lf. var. f.</i>	h	p	Dry clay soils, grassland, open areas under pines, generally in valleys; Elevation: < 1000(3000) m.	4	Apr-Sep	no	Y/Y
FAB	<i>Lupinus littoralis</i>	seashore lupine	Known from a single 1892 collection from the Presidio (Mountain Lake; Calflora); not included in Howell, <i>et al.</i> and there are no SF records in CCH. Extirpated; last collected in 1892.	h-ss	p	Coastal sand; Elevation: < 100 m.	0	May-Aug	no	Y/Y

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FAB	<i>Lupinus microcarpus</i> var. <i>microcarpus</i>	chick lupine	[Incl. <i>L. subvexus</i> vars.] Known from a single 1893 collection from "SF" (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1893. Potentially rediscovered at Bayview Hill in 2021 by Robert Hall; needs confirmation. Reported from Buena Vista Park and Yerba Buena Is. where it was presumably introduced.	h	a	Open or disturbed areas, occasionally seeded on road-banks; Elevation: < 1600 m.	3	Mar-Jun	no	Y/Y
FAB	<i>Lupinus nanus</i>	annual sky lupine	Recorded historically (1882) from Bayview Hills, Hunters Pt., Lake Merced, Lone Mt., McLaren Park, Mt. Davidson, Potrero Hills, the Presidio, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a	Open or disturbed areas; Elevation: < 1300 m.	20	Mar-Jun	no	Y/Y
FAB	<i>Lupinus pachylobus</i>	big pod lupine	Recorded historically (c. 1956) from Bayview Hills (Howell, <i>et al.</i>); there are no SF records in CCH. SF does not lie within the bioregion of the species. Nearest records are from the East Bay. Status as an indigenous SF species unclear. Extirpated; last collected in 1956.	h	a	Open or disturbed areas; Elevation: < 600 m.	0	Mar-May	CA	?/Y
FAB	<i>Lupinus polyphyllus</i> var. <i>grandifolius</i>	meadow lupine	Known from a single 1882 collection from Lake Merced (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1882.	h	a	Moist areas to bogs; Elevation: < 3000 m. WET: FACU	0	May-Jul	no	Y/Y
FAB	<i>Lupinus</i> sp.	lupine	Reported (to genus) from Ft. Funston and Kite Hill; needs id.	h-s	a-p	n/a	2	n/a	no	n/a
FAB	<i>Lupinus sparsiflorus</i> var.	loose-flowered annual lupine	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported (as full species) from Glen Cyn.; needs id. SF is outside of the bioregion; species is presumed to have been introduced.	h	a	Washes, sandy areas; Elevation: < 1300 m.	1	Mar-May	no	N/Y
FAB	<i>Lupinus succulentus</i>	arroyo lupine	Recorded historically (1954) from Hunters Pt., Islais Cr., and McLaren Park (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Hunters Pt., the Presidio (Crissy Field, WWII Memorial), and Starr King; reintroduced at the Sunset Dist., Suto Forest, Treasure Is., and Yerba Buena Is.	h	a	Open or disturbed areas, often seeded on road-banks; Elevation: < 800 m.	7	Feb-May	no	Y/Y
FAB	<i>Lupinus variicolor</i>	coastal prairie perennial lupine	[<i>L. littoralis</i> var. <i>varicolor</i> ; <i>L. franciscanus</i>] Recorded historically (1882) from Bayview Hills, Corona Hts., Hunters Pt., Mt. Davidson, Potrero Hills, the Presidio (Presidio Bluffs), and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h-ss	p	Coastal terraces, beaches; Elevation: < 500 m.	24	Apr-Jul	CA	Y/Y
JUN	<i>Luzula comosa</i> var.	Pacific wood-rush	[<i>L. multiflora</i> ; <i>L. comosa</i> var. <i>congesta</i>] Recorded historically (1882, as full species) from Bayview Hills, Corona Hts., e. of Lake Merced, Land's End, Laurel Hill Cemetery, Lone Mt., the Presidio, San Miguel Hills, se. SF, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported (as full species) from throughout the city and Presidio. Presumably <i>L.c.</i> var. <i>c.</i> ; but some plants possibly confused with <i>L. subsessilis</i> ; needs id.	g	p	Cespitose, with short rhizomes. Meadows, open woodland, conifer forest; Elevation: generally < 1500 m. WET: FAC	28	Mar-Jun	no	Y/Y
JUN	<i>Luzula subsessilis</i>	Pacific wood-rush	[<i>L. comosa</i> var. <i>s.</i> ; <i>L.c.</i> var. <i>macrantha</i>] Recorded historically (1860) from Bayview Hills, Bernal Hts. Park, Brotherhood Way, Corona Hts., Lake Merced, Lakeview/Ashton Mini Park, Laurel Hill Cemetery, Lone Mt., the Presidio (above Baker Beach, Ft. Point), and Twin Peaks (CCH); not included in Howell, <i>et al.</i> Reported from Mt. Davidson.	g	p	Cespitose, with short rhizomes. Open, drier woodland; Elevation: < 2600 m.	1	Mar-Jun	no	Y/Y
CRY	<i>Lycium coronaria</i>	rose campion	[<i>Silene c.</i> , pending] Recorded historically (c. 1957) from the Richmond Dist. (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Golden Gate Park, Ingleside, and the Richmond Dist.	h	p	Naturalized. Disturbed areas, open slopes, redwood/Douglas-fir forests; Elevation: 100-1220 m.	1	sum	no	N/N
SOL	<i>Lycopersicon esculentum</i>	tomato	[<i>Solanum lycopersicum</i> , pending] Recorded historically (1956) from Golden Gate Park, the Marina Dist. and Mission Bay (Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park, Mission Bay, Potrero Hill, the Richmond Dist., and SOMA; expected elsewhere.	h	a-p	Naturalized. Disturbed areas, abandoned fields, road-sides; Elevation: < 100 m.	3	Jun-Aug	no	N/N
LAM	<i>Lycopus americanus</i>	American water horehound	Known only from two 1892 reports from the Presidio (Mountain Lake; Howell, <i>et al.</i> , Calflora); there are no SF records in CCH. Extirpated; last collected in 1892.	h	p	Rhizomatous. Moist areas, marshes, stream-banks; Elevation: < 1000 m. WET: OBL	0	Jun-Jul	no	Y/Y
ROS	<i>Lyonothamnus floribundus</i> ssp.	Catalina ironwood	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Buena Vista Park and Hunters Pt. (India Basin Shoreline Park) where it was undoubtedly planted.	t	ep	n/a	2	May-Jun	no	N/Y
ROS	<i>Lyonothamnus floribundus</i> ssp. <i>aspleniifolius</i>	Santa Cruz Island ironwood	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Golden Gate Park where it was undoubtedly planted; not indigenous to SF. RARITY STATUS: —/—/1B.2	t	ep	Rocky slopes, canyons, oak woodland, chaparral; Elevation: 20-500 m.	1	May-Jul	no	N/Y
MRS	<i>Lysimachia arvensis</i>	scarlet pimpernel	[<i>Anagallis a.</i> ; incl. <i>A.a. forma azurea</i>] Previously included in the Primulaceae. Recorded historically (1924) from Bayview Hills, Golden Gate Park (Stow Lake), Laguna Honda Valley, Lake Merced, Land's End (Pt. Lobos), Lone Mt., McLaren Park, Mt. Davidson, the Presidio (Ft. Point), the Richmond Dist., Russian Hill, San Miguel Hills, and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a	Naturalized. Disturbed areas, abandoned fields, road-sides; Elevation: < 100 m. WET: FAC	62	Mar-May	no	N/N
MRS	<i>Lysimachia maritima</i> (r)	sea milkwort	[<i>Claux m.</i>] Previously included in the Primulaceae. Recorded historically (1892) from the Presidio (Ft. Point, Presidio Bluffs; Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1897. Reintroduced at the Presidio (Crissy Field, Tennessee Hollow).	h	p	Fleshy, tufted. Coastal salt marshes, saline meadows; Elevation: < 2100 m. WET: FACW	2	May-Jul	no	Y/Y
MRS	<i>Lysimachia minima</i>	mud pimpernel	[<i>Centunculus minimus</i> ; <i>Anagallis m.</i>] Previously included in the Primulaceae. Recorded historically (1866) from Land's End (Pt. Lobos) and the Presidio (Ft. Point, Presidio Bluffs; Howell, <i>et al.</i> , CCH). Reported from the Presidio (Ft. Scott, Presidio Bluffs, Rob Hill).	h	a	Vernal pools, moist places; Elevation: < 950 m. WET: FACW	3	Mar-May	no	Y/Y
LYT	<i>Lythrum californicum</i>	lesser loosestrife	Known from a single 1970 collection from the Presidio (near Lover's Lane; CCH); not included in Howell, <i>et al.</i> Status as an indigenous species here is doubtful. There are no contemporary reports from SF.	h	p	Marshes, pond and stream margins; Elevation: < 2200 m. WET: OBL	0	May-Oct	no	N/Y

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LYT	<i><u>Lythrum hyssopifolia</u></i>	lesser loosestrife	[<i>L. hyssopifolium</i> ; incl. <i>L. adsurgens</i>] Recorded historically (1935) from Bayview Hills, Golden Gate Park, Lake Merced, the Marina Dist., McLaren Park, Pine Lake, the Presidio (Mountain Lake), the Richmond Dist., and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Candlestick Pt., Glen Cyn., McLaren Park, O'Shaughnessy Hollow, the Presidio (Doyle Dr. Natural Area, Lobos Cr. Valley, Mountain Lake, Presidio Bluffs, Presidio Hills, Tennessee Hollow, WWII Memorial), and Yerba Buena Is. INVASIVE STATUS: M/-/-/-	h	a-p	Naturalized. Marshes, drying pond margins, disturbed ground; Elevation: < 1600 m. WET: OBL	12	Apr-Oct	no	N/N
AST	<i>Madia elegans</i>	showy tarweed	Known from a single 1933 collection from Ocean Beach (CCH); not included in Howell, <i>et al.</i> Reported from the Presidio (Tennessee Hollow) and Suto Forest. Planted at the Sunset Dist.	h	a	Grassy, open, or disturbed sites, in coarse or clayey soils, including serpentine; Elevation: < 3400 m.	2	Apr-Nov	no	Y/Y
AST	<i>Madia exigua</i>	little tarweed	Known from a single 1912 collection from Laurel Hill Cemetery (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1912.	h	a	Grassy, open, or disturbed sites, in sandy or clay soils, including serpentine; Elevation: 30-2500 m. SERP: 1.8	0	Apr-Jun	no	Y/Y
AST	<i>Madia gracilis</i>	slender tarweed	Recorded historically (1926) from Bayview Hills, City College, Lake Merced, Lone Mt., the Presidio (Lobos Cr. Valley), and San Miguel Hills (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1957. There is an unverified record from the Presidio (Golf Course E.)	h	a	Open, semi-shaded, or disturbed sites, many habitats, including serpentine; Elevation: < 2500 m.	0	Apr-Jul	no	Y/Y
AST	<i>Madia sativa</i>	coast tarweed	[<i>M. capitata</i>] Recorded historically (1852) from Bayview Hills, Golden Gate Park (Strawberry Hill), Laguna Honda Valley, Lake Merced, Land's End (Pt. Lobos), Mt. Davidson, Mt. Sutro, Nob Hill, the Presidio (Crissy Bluffs, Ft. Point), San Miguel Hills, se. SF, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a	Grassy, open, or disturbed sites; Elevation: < 1000 m.	30	May-Oct	no	Y/Y
AST	<i>Madia</i> sp.	tarweed	Reported (to genus) from Interior Greenbelt and Laguna Honda Valley; needs id.	h	a	n/a	3	n/a	no	n/a
RUS	<i>Maianthemum racemosum</i>	large false Solomon's seal	[<i>M.r. ssp. amplexicaule</i> ; <i>Smilacina racemosa</i>] Previously included in the Liliaceae. Known from a single 1931 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Reported from Mt. Davidson (possible mis-id), Golden Gate Park, O'Shaughnessy Hollow; reintroduced at Suto Forest. Common on the SF Peninsula; presumed indigenous to SF.	h	p	Rhizomatous. Moist, open woodland, stream-banks; Elevation: < 2000 m. WET: FAC	3	Mar-Jul	no	Y/Y
RUS	<i>Maianthemum stellatum</i>	little false Solomon's seal	[<i>Smilacina stellata</i> ; <i>S.s. var. sessilifolia</i> ; <i>S. sessilifolia</i>] Previously included in the Liliaceae. Recorded historically (c. 1890) from Brotherhood Way, Golden Gate Park (Strawberry Hill), Lake Merced, and Pine Lake (Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way, Glen Cyn., Golden Gate Park (Strawberry Hill), Lake Merced, Mt. Davidson, and Suto Forest. Common on the SF Peninsula; presumed indigenous to SF.	h	p	Rhizomatous. Moist woodland, stream-banks, open slopes; Elevation: < 2400 m. WET: FACU	6	Apr-Jun	no	Y/Y
MLV	<i>Malacothamnus</i> sp.	malacothamnus	No members of this genus are listed in Howell, <i>et al.</i> and there are no SF records in CCH. Reported (to genus) from Interior Greenbelt; needs id. Presumably planted.	s	p	n/a	1	n/a	no	N/N
ROS	<i>Malus floribunda</i>	Japanese flowering crabapple	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Russian Hill (CCH).	t	dp	Ornamental; not naturalized.	1	sp	no	N/N
ROS	<i>Malus punila</i>	apple	[<i>M. domestica</i> ; <i>M. sylvestris</i> , misappl.] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Laguna Honda Valley, the Presidio (Crissy Bluffs), and Yerba Buena Is.	t	dp	Naturalized. Disturbed places; Elevation: < 2080 m.	3	sp	no	N/N
MLV	<i>Malva arborea</i>	European tree-mallow	[<i>Lavatera a.</i>] Recorded historically (1927) from Ft. Funston, Golden Gate Park, Hunters Pt., near Islais Cr., Land's End, the Presidio, Sunset Dist. dunes, and Suto Hts. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h-ss	b-p	Naturalized. Disturbed places on coastal bluffs, dunes; Elevation: < 200 m.	24	Apr-May	no	N/N
MLV	<i>Malva assurgentiflora</i>	Channel Is. malva rosa	[<i>Lavatera a.</i>] Recorded historically (1877) from Golden Gate Park, Lake Merced, Land's End, Lone Mt., the Presidio (Lobos Cr. Valley), and Suto Hts.; presumed to have been introduced from s. Cal. (Howell, <i>et al.</i> , CCH). Reported from Alemany Farm, Brooks Park, Buena Vista Park, Colledge Hill, Golden Gate Park (Strawberry Hill, misc.), the Presidio (Lobos Cr. Valley), Suto Forest, and Yerba Buena Is. Not considered indigenous to SF.	s	p	Coastal bluffs; Elevation: < 350 m.	10	Feb-Jul	CA	N/Y
MLV	<i>Malva neglecta</i>	dwarf cheeseweed	Recorded historically (c. 1957) from near Islais Cr. (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Land's End, the Presidio (Baker Beach, Mountain Lake, Presidio Hills, Tennessee Hollow), Suto Forest, and Yerba Buena Is.; expected elsewhere.	h	a-b	Naturalized. Disturbed places; Elevation: < 3000 m.	7	May-Oct	no	N/N
MLV	<i>Malva nicaensis</i>	bull mallow	Recorded historically (1924) from Bayview Hills, Cliff House, the Embarcadero, Ft. Mason, Golden Gate Park, Lake Merced, Lone Mt., the Presidio, Russian Hill, San Miguel Hills, and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from Candlestick Pt., Corona Hts., Duncan-Castro Open Space, Glen Cyn., Golden Gate Park (Oak Woodland, misc.), Laguna Honda Valley, Land's End, McLaren Park, Pier 94, Starr King, Suto Forest, and Yerba Buena Is., and from throughout the Presidio.	h	a-b	Naturalized. Disturbed places; Elevation: < 1200 m.	36	Mar-Jun	no	N/N
MLV	<i>Malva parviflora</i>	little cheeseweed	Recorded historically (1887) from Bayview Hills, Golden Gate Park, Hunters Pt., near Islais Cr., Lone Mt., Nob Hill, and Russian Hill (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a	Naturalized. Prostrate. Disturbed places; Elevation: < 2500 m.	48	Mar-May	no	N/N
MLV	<i>Malva pseudolavatera</i>	Cornish mallow	[<i>M. multiflora</i> , pending; <i>Lavatera cretica</i>] Recorded historically (1928) from Bayview Hills, the Embarcadero, Golden Gate Park, Laurel Hts., Lone Mt., the Marina Dist., Mt. Davidson, Pine Lake, the Presidio, Russian Hill, the Sea Cliff Dist., and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, Glen Cyn., Hunters Pt., Pier 94, the Presidio (Inspiration, Presidio Hills, sw. dunes), Rocky Outcrop, and Starr King.	h-ss	a-b	Naturalized. Disturbed places on coastal bluffs, dunes, occasionally inland; Elevation: < 50 m.	12	Apr-Jun	no	N/N

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MLV	<i>Malva</i> sp.	mallow	Reported (to genus) from Bernal Hts. Park, Buena Vista Park, Hawk Hill, Kite Hill, Lake Merced, and McLaren Park; needs id.	h-s	a-p	n/a	6	n/a	no	N/N
MLV	<i>Malva subvata</i>	sea mallow	[<i>Lavatera maritima</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Brotherhood Way, Buena Vista Park, Candlestick Pt., College Hill, Corona Hts., Crocker-Amazon, Golden Gate Park, Interior Greenbelt, Land's End, Lone Mt., the Marina Dist., Mission Bay, the Richmond Dist., SFSU, Telegraph Hill, and Visitation Valley.	s	p	Ornamental; not naturalized.	13	sp-fall	no	N/N
MLV	<i>Malva sylvestris</i>	common high mallow	Recorded historically (1909) from the Marina Dist., Nob Hill, and Russian Hill (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a-p	Naturalized. Disturbed places; Elevation: generally < 300 m.	30	Apr-Jun	no	N/N
MLV	<i>Malvastrum arborescens</i>	Turk's cap	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Golden Gate Hts., Golden Gate Park, Pacific Hts., and the Presidio (Julius Kahn Playground).	s	p	Ornamental; not naturalized.	3	sum-fall	no	N/N
MLV	<i>Malva leprosa</i>	alkali mallow	[<i>Sida hederacea</i> ; <i>S. leprosa</i> var. <i>h.</i>] Recorded historically (c. 1957) from the Embarcadero (Howell, <i>et al.</i>); there are no SF records in CCH. Status as an indigenous SF species is questionable; likely introduced. There are no contemporary reports from SF. However, this common weed of disturbed sites is to be expected.	h	a-p	Valleys, generally saline; Elevation: < 1500(2500) m. WET: FACU	0	Apr-Oct	no	N/Y
CUC	<i>Marah fabacea</i>	Cal. man-root	[<i>M. fabaceus</i>] Recorded historically (1882) from Bayview Hills, Ft. Funston Golden Gate Park (Oak Woodland, Stow Lake, Strawberry Hill), Laguna Honda Valley, Lake Merced, Land's End, Lone Mt., Mission Dolores, Mt. Davidson, Mt. Sutro, the Presidio (Baker Beach, Ft. Point, Lobos Cr. Valley, Presidio Bluffs), Russian Hill, San Miguel Hills, Sunset Dist. dunes, Twin Peaks, and Visitation Valley (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	p	Vining, from a large tuber. Stream-sides, washes, shrubby open areas; Elevation: < 1600 m.	66	Feb-Apr	CA	Y/Y
CUC	<i>Marah oregana</i>	coastal man-root	[<i>M. oreganus</i>] Recorded historically (1855) from Mission Dolores and Visitation Valley (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Bayview Hill, Golden Gate Park, Lake Merced, and McLaren Park. Voucher specimen needed.	h	p	Vining, from a large tuber. Shrubby or open areas, forest edges; Elevation: < 1800 m.	5	Mar-May	no	Y/Y
LAM	<i>Marrubium vulgare</i>	common horehound	Recorded historically (c. 1955) from Bayview Hills, the Embarcadero, Golden Gate Park, near Islais Cr., Lake Merced, Lone Mt., and the Richmond Dist. (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from near Laguna Honda Valley, the Presidio, and the Sunset Dist. INVASIVE STATUS: L/-/-/-	h	p	Naturalized. Disturbed sites, generally overgrazed pastures; Elevation: < 600 m.	2	Mar-Nov	no	N/N
MSL	<i>Marsilea vestita</i> ssp. <i>vestita</i>	hairy watercress	Recorded historically (1888, as full species) from SF and the Presidio (Ft. Point, Mountain Lake; Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1888.	f	p	Floating and emergent aquatic. Creek beds, flood basins, vernal pools; Elevation: < 2200 m. WET: OBL	0	n/a	no	Y/Y
AST	<i>Matricaria discoides</i>	common pineapple-weed	[<i>Chamomilla suaveolens</i> . Recorded as <i>M. matricarioides</i> , a taxon not occurring in Cal. (JFP, 2021). All historic records in CCH have been reclassified as <i>M. discoides</i> , a native species.] Recorded historically (1896) from Bayview Hills, Golden Gate Park, Islais Cr., Lake Merced, Lone Mt., Mt. Davidson, Marina Dist., Nob Hill, the Presidio (Mountain Lake), Russian Hill, San Miguel Hills, and the Sea Cliff Dist. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a	Disturbed sites, riverbanks; Elevation: < 2250 m. WET: FACU	32	Mar-Sep	no	N/Y
AST	<i>Matricaria occidentalis</i>	valley mayweed	[<i>Chamomilla o.</i>] Recorded historically (1888) from near Islais Cr. and w. SF where it occurred on vacant lots and waste places (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF. SF is the sole record from the Central Coast; not considered to have been indigenous to SF.	h	a	Undisturbed alkali flats, vernal pools, edges of salt marshes; Elevation: < 2400 m. WET: FACW	0	Mar-Aug	no	N/Y
BRA	<i>Matthiola incana</i>	tenweeks stock	Recorded historically (1954) from Cliff House, Land's End and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Cliff House, Glen Cyn., Land's End, Ocean Beach, and Sutro Baths.	h	p	Naturalized. Sandy areas, beaches, ocean bluffs; Elevation: < 300 m.	5	Mar-Jun	no	N/N
CEL	<i>Maytenus boaria</i>	Chilean mayten tree	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Bernal Hts. Park, Buena Vista Park, Glen Cyn., Golden Gate Park (Oak Woodlands), Land's End (Lincoln Park), the Presidio (Crissy Field), and the Richmond Dist. INVASIVE STATUS: W/-/-/-	t	p	Naturalized. Scrub regrowth; Elevation: 130-400 m.	6	Apr-May	no	N/N
PAP	<i>Meconella californica</i>	Cal. fairypoppy	Recorded historically (1866) from Bayview Hills, Cliff House, hills s. of Golden Gate Park (Mt. Sutro?), se. SF, and Sutro Baths (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1950.	h	a	Open, rocky areas; Elevation: < 1000 m. WET: FAC	0	Mar-May	CA	Y/Y
FAB	<i>Medicago arabica</i>	spotted bur-clover	Recorded historically (1908) from Golden Gate Park, Laguna Honda Valley, the Marina Dist., Mt. Sutro, and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Golden Gate Park (Chain-of-Lakes, Oak Woodland, Stow Lake, Strawberry Hill, misc.), Land's End, Lone Mt., McLaren Park, the Presidio (Crissy Field, Dragonfly Cr., Ft. Scott, Golf Course Natural Area, Inspiration Pt., Lover's Lane, Main Post, Mountain Lake, Presidio Hills, Tennessee Hollow), the Richmond Dist., the Sunset Dist., Sutro Forest, and Sutro Hts.; expected elsewhere.	h	a	Naturalized. Disturbed and agricultural areas, fields, woodland; Elevation: < 2000 m.	21	Mar-Jun	no	N/N
FAB	<i>Medicago lupulina</i>	black medick	Recorded historically (1924) from Alcatraz Is., the Embarcadero, Golden Gate Park, near Islais Cr., Lake Merced, Lone Mt., Mt. Davidson, Nob Hill, Pacific Hts., and the Sea Cliff Dist. (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Golden Gate Park, Lake Merced, McLaren Park, Mission Bay, and the Presidio (Crissy Bluffs, Crissy Field, Ft. Scott, Lobos Cr. Valley, Presidio Bluffs, Simond's Loop, Tennessee Hollow, WWII Memorial); expected elsewhere.	h	a	Naturalized. Disturbed and agricultural areas, forest, mtns; Elevation: < 2500 m. WET: FAC	13	Apr-Jul	no	N/N

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FAB	<i>Medicago polymorpha</i>	common bur-clover	[<i>M. hispida</i> var. <i>confinis</i> and var. <i>apiculata</i> ; <i>M. denticulata</i>] Recorded historically (1891) from Bayview Hills, the Embarcadero, Golden Gate Park, Hunters Pt., near Islais Cr., Lake Merced, Lone Mt., Nob Hill, the Presidio, Russian Hill, San Miguel Hills, the Sea Cliff Dist., the Sunset Dist., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: L/2/-/-	h	a	Naturalized. Chaparral, oak woodland, stream-banks, road-sides, disturbed areas; Elevation: < 1500 m. WET: FACU	66	Mar-Jul	no	N/N
FAB	<i>Medicago sativa</i>	cultivated alfalfa	[incl. <i>M.s.</i> ssp. <i>falcata</i> and ssp. <i>sativa</i>] Recorded historically (c. 1953) from the Embarcadero, Lake Merced, Lone Mt., Nob Hill, Potrero Hills, the Presidio, and Rincon Hill (Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park, the Presidio, and Yerba Buena Is.; expected elsewhere.	h	p	Naturalized. Disturbed, agricultural areas; Elevation: < 2450 m. WET: UPL	4	Apr-Oct	no	N/N
FAB	<i>Medicago</i> sp.	bur-clover, medick	Reported (to genus) from McLaren Park; needs id.	h	a-p	n/a	1	n/a	no	N/N
MRT	<i>Melaleuca citrina</i>	crimson bottlebrush	[<i>Callistemon citrinus</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Inspiration Pt.)	s	ep	Ornamental.	1	Jan-Dec	no	N/N
MRT	<i>Melaleuca nesophila</i>	showy honey-myrtle	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from McLaren Park and the Richmond Dist.	t	p	Ornamental; not naturalized.	1	lsp-sum	no	N/N
POA	<i>Melica californica</i>	Cal. melic-grass	Recorded historically (1891) from Bayview Hills, Bernal Hts., Corona Hts., Hunters Pt., Mt. Davidson, Potrero Hills, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, Billy Goat Hill, Corona Hts., Glen Cyn., Interior Greenbelt, Kite Hill, Laguna Honda Valley, McLaren Park, Mt. Davidson, O'Shaughnessy Hollow, Palou-Phelps, Potrero Hill, the Presidio (near Arguello Gate, Crissy Bluffs, Inspiration Pt., Presidio Hills), Sutro Forest, and Twin Peaks.	g	p	Densely caespitose, not rhizomatous. Open or rocky hillsides, oak woodland, conifer forest; Elevation: < 2200 m.	18	Apr-May	CA	Y/Y
POA	<i>Melica geyeri</i>	Geyer's onion grass	Known from a single 1961 collection from Mt. Sutro (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1961.	g	p	Cespitose, rhizomatous. Dry open slopes, oak woodland, conifer forest; Elevation: < 2200 m. SERP: 1.2	0	Apr-Jul	no	Y/Y
POA	<i>Melica imperfecta</i>	Coast Range melic-grass	[incl. <i>M.i.</i> var. <i>refracta</i>] Recorded historically (1866) from Grandview Park, Hunters Pt., Laguna Honda Valley, Lake Merced, Land's End (Pt. Lobos), the Presidio (Lobos Cr. Valley), and the Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Brooks Park, Ft. Funston, Glen Cyn., Hawk Hill, the Presidio (Baker Beach, Baker Beach n., Crissy Bluffs, Crissy Field, Lobos Cr. Valley, Presidio Hills, sw. dunes WWII Memorial), and Yerba Buena Is.	g	p	Densely caespitose, not rhizomatous. Dry rocky hillsides, chaparral, woodland; Elevation: < 1500 m.	13	Apr-May	no	Y/Y
POA	<i>Melica torreyana</i>	Torrey's melic-grass	Recorded historically (1865) from Bayview Hills, Hunters Pt., Laguna Honda Valley, Laurel Hill Cemetery, and the Presidio (above Baker Beach; Howell, <i>et al.</i> , CCH). Reported from Corona Hts., Glen Cyn., Interior Greenbelt, the Presidio (Crissy Bluffs, Ft. Point, Inspiration Pt., Mountain Lake, Presidio Bluffs, Tennessee Hollow, WWII Memorial), and Sutro Forest. SF is the Type Locality.	g	p	Densely caespitose, not rhizomatous. Chaparral, conifer forest; Elevation: < 1600 m.	11	Mar-Jun	CA	Y/Y
FAB	<i>Melilotus albus</i>	white sweet-clover	Recorded historically (c. 1953) from Alcatraz Is., Bayview Hills, the Embarcadero, near Islais Cr., Lake Merced, the Marina Dist. (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Heron's Head Park, Hunters Pt., Mission Bay, and the Presidio (Crissy Bluffs, Crissy Field, Golf Course Natural Area, Presidio Bluffs, Presidio Hills, Tennessee Hollow) and Yerba Buena Is.; expected elsewhere.	h	a-b	Naturalized. Pastures, open disturbed sites; Elevation: < 1900 m.	11	May-Sep	no	N/N
FAB	<i>Melilotus indicus</i>	India sour-clover	[<i>M. indica</i>] Recorded historically (1916) from Bayview Hills, Cliff House, the Embarcadero, Golden Gate Park, Lake Merced, Land's End (Pt. Lobos), Lone Mt., Mission Dist., Mt. Davidson, Nob Hill, Pacific Hts., Russian Hill, San Miguel Hills, and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a-b	Naturalized. Open, disturbed areas; Elevation: < 1700 m. WET: FACU	36	Apr-Oct	no	N/N
FAB	<i>Melilotus officinalis</i>	biennial yellow sweet-clover	Recorded historically (1956) from the Embarcadero, near Islais Cr., and Mission Bay (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Heron's Head Park, the Presidio (Crissy Bluffs, Crissy Field, Doyle Dr. Natural Area, Dragonfly Cr., Golf Course Natural Area, Horse Stables, Inspiration Pt., Oak Study Area, Presidio Bluffs, sw. Dunes) and Yerba Buena Is.	h	b	Naturalized. Open fields, disturbed sites, cultivated; Elevation: < 2300 m. WET: FACU	13	May-Aug	no	N/N
FAB	<i>Melilotus</i> sp.	sweet-clover	Reported (to genus) from Heron's Head, Ocean Beach, and Pier 94; needs id.	h	a-b	n/a	3	n/a	no	N/N
LAM	<i>Mentha xpiiperita</i>	true peppermint	[<i>M. citrata</i>] Recorded historically (c. 1955) from Golden Gate Park, Lake Merced, Land's End, McLaren Park, and Pine Lake (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from the Presidio (Mountain Lake) and Sutro Baths.	h	p	Naturalized. Rhizomatous. Moist places, fields; Elevation: < 1700 m. WET: FACW	2	Jul-Oct	no	N/N
LAM	<i>Mentha arvensis</i>	European field mint	[incl. <i>Ma.</i> var. <i>lanata</i>] Recorded historically (1900) from Lake Merced (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from the Presidio.	h	p	Naturalized. Rhizomatous. Moist places, fields; Elevation: < 550 m. WET: FACW	1	Jul-Oct	no	N/N
LAM	<i>Mentha pulegium</i>	European pennyroyal	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Brotherhood Way, the Presidio (Lobos Cr. Valley, Mountain Lake), and the Richmond Dist. INVASIVE STATUS: M/-/-/-	h	p	Naturalized. Rhizomatous. Decumbent to ascending. Moist places, fields; Elevation: < 1400 m. WET: OBL	3	Jul-Oct	no	N/N
LAM	<i>Mentha spicata</i>	spearmint	[<i>M.s.</i> var. <i>s.</i>] Recorded historically (c. 1955) from the Embarcadero, Golden Gate Park, Lake Merced, Pine Lake, the Presidio (near Baker Beach), and the Richmond Dist. (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Golden Gate Park (Oak Woodland, Strawberry Hill) and Land's End.	h	p	Naturalized. Rhizomatous. Moist places, marshes, lakeshores, fields; Elevation: < 2350 m. WET: FACW	3	Jul-Oct	no	N/N
LAM	<i>Mentha suaveolens</i>	apple mint	Known from a single 1970 collection from the Presidio (near Lover's Lane; CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF.	h	p	Naturalized. Rhizomatous. Moist places, fields; Elevation: < 950 m. WET: FACW	0	Jul-Oct	no	N/N

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MEN	<i>Menyanthes trifoliata</i>	bogbean	Known from a single 1863 collection from "SF" (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF. Potentially indigenous here, but SF is the southernmost station on the coast.	h	p	Rhizomatous. Ponds, bogs, swamps, wet meadows, seeps, margins of shallow lakes; Elevation: 900-3200 m. WET: OBL	0	Apr-May	no	Y/Y
EUP	<i>Mercurialis annua</i>	annual mercury	Recorded historically (1933) from Golden Gate Park (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Golden Gate Park (Stow Lake), the Presidio (Tennessee Hollow), and the Sunset Dist.	h	a	Naturalized. Open, disturbed areas; Elevation: < 200 m.	2	Feb-Oct	no	N/N
MRT	<i>Metrosideros excelsa</i>	New Zealand Christmas tree	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported naturalized at Yerba Buena Is. This common street tree is widely planted in SF.	t	p	Ornamental; not naturalized.	1	lsp-esum	no	N/N
SAX	<i>Micranthes californica</i>	Cal. saxifrage	[<i>Saxifraga</i> L.] Recorded historically (1877) from Bayview Hills, Laguna Honda Valley, and Mission Hills (Howell, <i>et al.</i> , CCH). Reported from Billy Goat Hill and Palou-Phelps, where it is extremely threatened; it is believed to have recently been extirpated at Bayview Hill.	h	p	Caudex generally with long slender rhizomes and bulbets. Moist, shady places; Elevation: < 1200 m. WET: FACW	2	Feb-May (Jun)	no	Y/Y
AST	<i>Micropus californicus</i> var. <i>californicus</i>	slender cottonweed	Recorded historically (1868) from Oceanview and Visitación Valley (Howell, <i>et al.</i> , CCH). Extirpated; last collected c. 1890.	h	a	Clearings, often disturbed, dry or seasonally moist soils; Elevation: 10-1600 m. WET: FACU	0	Apr-May	no	Y/Y
AST	<i>Microseris bigelovii</i>	coast silverpuffs	Recorded historically (1882) from Bayview Hills, Bernal Hts., Corona Hts., Hunters Pt., Lake Merced, Land's End (Pt. Lobos), Lone Mt., Mt. Davidson, Potrero Hills, and the Presidio (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, Corona Hts., Hawk Hill, and the Presidio (Baker Beach, Golf Course Natural Area, Inspiration Pt., Lobos Cr. Valley, Presidio Bluffs, Presidio Hills, Public Health Service Area, Res. Cultural Plantation, sw. dunes, WWII Memorial).	h	a	Open sandy soil, or soil pockets on rocky coastal headlands; Elevation: < 525 m.	14	Apr-Jul	no	Y/Y
AST	<i>Microseris douglasii</i> ssp. <i>douglasii</i>	Douglas' silverpuffs	Recorded historically (1882) from "SF" and Hunters Pt. (Howell, <i>et al.</i> , CCH). Reported (as full species) from Hunters Pt., the Presidio (Crissy Bluffs, Inspiration Pt.), and Starr King. Could be <i>M.d.</i> ssp. <i>tenella</i> or <i>M.d.</i> ssp. <i>douglasii</i> ; needs id.	h	a	Inland clay soils, grassland, often near vernal pools or serpentine outcrops (coastal in southern Contra Costa Co.); Elevation: < 1100 m. WET: FACU. SERP: 1.3	4	Mar-Jun	no	Y/Y
AST	<i>Microseris douglasii</i> ssp. <i>tenella</i>	Douglas' silverpuffs	Recorded historically (1886) from Hunters Pt., the Presidio, and "SF" (CCH; and as full species in Howell, <i>et al.</i>) There are no contemporary reports from SF at the level of ssp.; may be present at Hunters Pt., the Presidio (Crissy Bluffs, Inspiration Pt.), and Starr King.	h	a	Inland clay soils, grassland, often near vernal pools or serpentine outcrops (coastal in southern Contra Costa Co.); Elevation: < 500 m. WET: FACU	0	Mar-Jun	no	Y/Y
AST	<i>Microseris paludosa</i>	marsh microseris	Recorded historically (1905) from the Presidio (e. end, Lobos Cr. Valley) and "SF" (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1956. RARITY STATUS: —/—/1B.2	h	p	Moist grassland, open woodland; Elevation: < 300 m.	1	Apr-Jul	CA	Y/Y
AST	<i>Microseris</i> sp.	microseris	Reported (to genus) from Corona Hts. and Duncan-Castro; needs id.	h	a	n/a	2	n/a	no	n/a
AST	<i>Microseris sylvatica</i> (r)	sylvan microseris	Known from a single 1892 collection from the Presidio (Mountain Lake; Calflora); not included in Howell, <i>et al.</i> Extirpated; last collected in 1892. Reintroduced at the Presidio (Mountain Lake). RARITY STATUS: —/—/4.2	h	p	Grassland, open woodland; Elevation: < 1700 m.	1	Mar-Jun	CA	Y/Y
PLM	<i>Microsteris gracilis</i>	slender phlox	[<i>Phlox</i> L.] Recorded historically (c. 1890) from Mission Hills and Sunset Hts. (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1903.	h	a	Dry to moist areas; chaparral, grasslands, woodlands; Elevation: <3300 m. WET: FACU	0	Feb-Jun	no	Y/Y
CRY	<i>Minuartia californica</i>	Cal. sandwort	[<i>Sabulina</i> C., pending; <i>M. pusilla</i> var. <i>diffusa</i> ; <i>Arenaria</i> L.] Recorded historically (1892) from Golden Gate Park, Lake Merced, and Potrero Hills (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1933.	h	a	Gravelly, sandy slopes, grassy ridges, chaparral, serpentine or not; Elevation: < 1500 m. WET: FACU. SERP: 1.7	0	Feb-Apr	no	Y/Y
CRY	<i>Minuartia douglasii</i>	Douglas' sandwort	[<i>Sabulina</i> L., pending; <i>Arenaria</i> L.] Known from a single 1863 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Reported from Corona Hts.	h	a	Rocky, sandy slopes, flats in chaparral, oak and pine woodland, often serpentine; Elevation: 100-1800 m. SERP: 3.0	1	sp-esum	no	Y/Y
CRY	<i>Minuartia pusilla</i>	annual sandwort	[<i>Sabulina</i> P., pending; <i>Arenaria</i> L.] Known from a single 1949 collection from the Presidio (above Baker Beach; Howell, <i>et al.</i>); there are no SF records in CCH. Rediscovered at the Presidio (Presidio Bluffs) by M. Chasse in 2019. Voucher specimen needed.	h	a	Plains, open pine forest, chaparral slopes; Elevation: < 2400 m.	1	Mar-Apr	no	Y/Y
NYC	<i>Mirabilis jalapa</i> var. <i>jalapa</i>	Marvel of Peru	Recorded historically (1956, as full species) from the Embarcadero, Lone Mt., and Mission Bay (Howell, <i>et al.</i> , CCH). Reported from near Bernal Hts. Park, and the Castro Dist.; expected elsewhere.	h	p	Naturalized. Disturbed places with mild winters; Elevation: < 300 m. WET: UPL	0	May-Oct	no	N/N
MLV	<i>Modiola caroliniana</i>	Carolina bristle-mallow	Recorded historically (1951) from Golden Gate Park and the Marina Dist. (Howell, <i>et al.</i> , CCH). Reported from Candlestick Pt., Crocker-Amazon Playground, Golden Gate Park (Lily Pond), Land's End, Pine Lake, the Presidio (Ft. Scott, Lover's Lane, Lyon St. Plantation, Mountain Lake, Officer's Row, Presidio Hills, Tennessee Hollow, and WWII Memorial), the Sunset Dist., and Sutro Hts.	h	a-p	Naturalized. Prostrate to decumbent or creeping. Grassland, disturbed areas; Elevation: generally < 400 m. WET: FAC	14	Mar-Nov	no	N/N
LAM	<i>Monardella douglasii</i>	Douglas' monardella	Known from a single 1866 collection from "near SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1866.	h	a	Grassland, openings in woodland and chaparral, serpentine, occasionally vertic clay; Elevation: 50-1100 m.	0	May-Jul	CA	Y/Y
LAM	<i>Monardella simata</i> ssp. <i>nigrescens</i>	northern curly-leaved monardella	Recorded historically (1913) from near Lake Merced (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1933. RARITY STATUS: —/—/1B.2	h	a	Dunes, openings in coastal scrub; Elevation: < 300 m.	0	May-Jul	CA	Y/Y
LAM	<i>Monardella undulata</i> ssp.	San Luis Obispo monardella	Recorded historically (1905, as full species) from Lake Merced (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1933. Presumably <i>M.u.</i> ssp. <i>u.</i>	h	a	Stabilized dunes, coastal scrub, stabilized sandy soils; Elevation: < 200 m.	0	May-Sep	CA	Y/Y

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LAM	<u><i>Monardella villosa</i></u> ssp.	coastal coyote-mint	Recorded historically (1868, as full species) from Bayview Hills, Bernal Hts., Corona Hts., Golden Gate Park, Lake Merced, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported (as full species) from Bayview Hill, Bernal Hts. Park, Corona Hts., Glen Cyn., McLaren Park, the Presidio (Ft. Point), and Suro Forest; needs id. Both <i>M.v.</i> var. <i>franciscana</i> and var. <i>villosa</i> have been recorded from SF.	ss	p	n/a	7	May-Aug	no	Y/Y
LAM	<i>Monardella villosa</i> ssp. <i>franciscana</i>	coastal coyote-mint	[<i>M.v.</i> var. <i>f.</i>] Recorded historically (1891) from Bayview Hills, Brotherhood Way, Lake Merced, Mt. Davidson, and Potrero Hills (Howell, <i>et al.</i> , CCH). Reported from Laguna Honda Valley, Mt. Davidson, O'Shaughnessy Hollow, the Presidio (Crissy Bluffs, Inspiration Pt., Tennessee Hollow, WWII Memorial), Twin Peaks, and Yerba Buena Is. Also reported (as full species) from Bayview Hill, Bernal Hts. Park, Corona Hts., Glen Cyn., the Presidio (Ft. Point), and Suro Forest; needs id.	ss	p	Matted to erect. Coastal scrub, woodland; Elevation: < 400 m.	9	May-Aug	no	Y/Y
LAM	<i>Monardella villosa</i> ssp. <i>villosa</i>	coastal coyote-mint	[<i>M.v.</i> var. <i>v.</i>] Known from a single 1933 collection from Lake Merced (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF of this ssp. Reported (as full species) from Bayview Hill, Bernal Hts., Corona Hts., Glen Cyn., the Presidio (Ft. Point), and Suro Forest; needs id.	ss	p	Matted to erect. Rocky slopes, ephemeral drainages, oak woodland, chaparral, montane forest; Elevation: < 1300. SERP: 6	9	May-Aug	no	Y/Y
CHN	<u><i>Monolepis nuttalliana</i></u>	Nuttall's poverty weed	[<i>Blitum nuttallianum</i> , pending; Amaranthaceae, pending] Recorded historically (c. 1955) from Islais Cr. where it was presumed to have been introduced (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF. SF lies within the bioregion for the species but the nearest record on the coast is from Santa Cruz Co. Not regarded as indigenous to SF.	h	a	Generally moist, more-or-less alkaline clay soils in disturbed areas; Elevation: < 3700 m. WET: FAC	0	Apr-May	no	N/Y
MON	<i>Montia fontana</i>	annual water miner's lettuce	[<i>M. halii</i>] Previously included in the Portulacaceae. Recorded historically (1879) from Mission Hills, se. SF, and w. SF. (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Doyle Dr. Natural Area, Ft. Scott).	h	a	Prostrate to erect, floating or not, often tufted or matted. Ponds, streams, vernal pools, seeps; Elevation: < 3200 m. WET: OBL	2	Jul-Aug	no	Y/Y
MYR	<i>Morella californica</i>	Cal. wax myrtle	[<i>Myrica</i> c.] Recorded historically (1926) from Brotherhood Way, Buena Vista Park, Golden Gate Park, Lake Merced, Land's End, Mt. Sutro, Oceanview, the Presidio (Lobos Cr. Valley, Mountain Lake), and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio; reintroduced at Suro Forest and presumably elsewhere.	s	ep	Coastal dunes and scrub, closed-cone pine, redwood forest; Elevation: < 150 m near coast, < 500+ m inland. WET: FACW	31	Mar-Apr	no	Y/Y
PLG	<u><i>Muehlenbeckia complexa</i></u>	maidenhair wire-vine	Recorded historically (1941) from Brotherhood Way, Golden Gate Park, and the Presidio (Howell, <i>et al.</i> , CCH). Reported from Balboa Natural Area, Buena Vista Park, Douglas Park, Ft. Funston, Golden Gate Park (Quarry Lake/Lily Pond, misc.), Land's End, the Presidio (Baker Beach, Doyle Dr. Natural Area, Dragonfly Cr., Ft. Point, Ft. Scott, Inspiration Pt., Liggett St. Housing, Lobos Cr. Valley, Lyon St. Plantation, Officer's Row, Tennessee Hollow), Suro Baths, Suro Hts., Telegraph Hill, Treasure Is., and Yerba Buena Is.; expected elsewhere. Potentially invasive.	s	p	Naturalized. Straggling or climbing, in dense tangles. Disturbed areas, coastal bluffs, sandy and rocky places; Elevation: < 500 m.	22	Jul-Sept	no	N/N
POA	<i>Muhlenbergia rigens</i>	deergrass	Known from a single 1975 collection from the Presidio (Mountain Lake; CCH); not included in Howell, <i>et al.</i> Not considered indigenous to SF. Reported from City College and Golden Gate Park, where it was planted; expected elsewhere in native landscaping.	g	p	Densely clumped. Sandy to gravelly places, canyons, stream bottoms; Elevation: < 2150 m. WET: FAC	1	May-Jun	no	N/Y
THE	<u><i>Muilla maritima</i></u>	coastal muilla, sea golden-star	[<i>Bloomeria m.</i>] Previously included in the Liliaceae. Recorded historically (1885) from Brotherhood Way, Corona Hts., Lake Merced, Mt. Davidson, Mt. Sutro, Oceanview, Potrero Hills, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bernal Hts. Park, Corona Hts., Kite Hill, Mt. Davidson, Tank Hill, and Twin Peaks.	gp	p	Corm-forming. Coastal scrub, grassland, woodland, valleys; Elevation: < 2300 m. SERP: 2.0	6	Mar-Jun	no	Y/Y
HYC	<u><i>Muscari botryoides</i></u>	common grape hyacinth	Previously included in the Liliaceae. Recorded historically (c. 1955) from the Richmond Dist. and the Sea Cliff Dist. (Howell, <i>et al.</i> , CCH). Reported from McLaren Park.	h	p	Waif or garden escape; not naturalized.	1	sp	no	N/N
SCR	<i>Myoporum laetum</i>	ngaio	Previously included in the Myoporaceae. Recorded historically (1974) from Golden Gate Park and the Presidio (near Crissy Field; CCH); not included in Howell, <i>et al.</i> Reported from throughout the city and the Presidio. INVASIVE STATUS: M/3/-/-	s-t	p	Naturalized. Open areas in grassland, scrub, riparian habitats, generally coastal; Elevation: < 460 m. WET: FACU	45	esp	no	N/N
BOR	<i>Myosotis discolor</i>	changing forget-me-not	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Golf Course Natural Area, Mountain Lake).	h	a-b	Naturalized. Road-sides, moist ground, wet meadows; Elevation: < 1650 m. WET: FAC	2	Apr-Jul	no	N/N
BOR	<i>Myosotis latifolia</i>	broad-leaved forget-me-not	[<i>M. sylvatica</i> , misappl.] Recorded historically (1908) from Golden Gate Park, Mt. Davidson, Mt. Sutro, the Presidio, Russian Hill, and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Golden Gate Park (AIDS Memorial Grove, Chain-of-Lakes, Mallard Lake, Stow Lake, Strawberry Hill, misc.), Interior Greenbelt, Laguna Honda Valley, Mt. Davidson, the Presidio (Crissy Bluffs, Golf Course Natural Area, Lobos Cr. Valley, Mountain Lake), the Richmond Dist., SFSU, Suro Forest, and Twin Peaks; expected elsewhere. INVASIVE STATUS: L/-/-/-	h	p	Naturalized. Moist, disturbed, shady places; Elevation: < 460 m.	16	Feb-Jul	no	N/N
BOR	<u><i>Myosotis sylvatica</i></u>	woodland forget-me-not	[Misappl.; not occurring in Cal. (JFP, 2021)] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Mt. Davidson and Suro Forest; needs id. INVASIVE STATUS: -/2/-/-	h	p	WET: FACU	2	lsp-esum	no	N/N
RAN	<i>Myosurus minimus</i>	little mouse tail	[<i>Mun. var. filiformis</i>] Recorded historically (1866) from Laurel Hill Cemetery (Howell, <i>et al.</i> , CCH). Extirpated; last collected c. 1880.	h	a	Tufted. Wet fields, vernal pools, stream-banks, lake shores; Elevation: < 2100 m. WET: OBL	0	Apr-May	no	Y/Y
HAL	<i>Myriophyllum aquaticum</i>	parrot's feather water-milfoil	[<i>M. brasiliense</i>] Recorded historically (1954) from Lake Merced and Pine Lake (Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park (Chain-of-Lakes, Mallard Lake), the Presidio (Tennessee Hollow), and Suro Baths. INVASIVE STATUS: H/-/C/-	h	p	Naturalized. Ponds, streams, lakes; Elevation: < 500 m. WET: OBL	4	Jul-Sep	no	N/N

ANNOTATED CHECKLIST OF THE VASCULAR PLANTS OF SAN FRANCISCO

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HAL	<i>Myriophyllum hippuroides</i>	western water-milfoil	Not included in Howell, <i>et al.</i> and there are no SF records in CCH; considered to have historically occurred in the Presidio (NRDB). SF lies within the taxon's bioregion but there are no records for it occurring on the Central Coast s. of SF. Status as a SF indigenous species is questionable. There are no contemporary reports from SF.	h	p	Aquatic, submersed, from rhizomes. Ponds, small streams; Elevation: < 1100 m. WET: OBL	0	Jul-Sep	no	?/Y
HAL	<i>Myriophyllum sibiricum</i>	Siberian water-milfoil	<u>[<i>M. exalbescens</i>]</u> Recorded historically (1893) from Golden Gate Park, Lake Merced, Pine Lake, and the Presidio (Mountain Lake, Presidio Hills; Howell, <i>et al.</i> , CCH). Reported from Laguna Honda Valley; extirpated from the Presidio.	h	p	Aquatic, submersed, from rhizomes. Ponds, streams, lakes; Elevation: < 2600 m. WET: OBL	1	Jun-Sept	no	Y/Y
HAL	<i>Myriophyllum spicatum</i>	Eurasian water-milfoil	[<i>M. exalbescens</i>] Recorded historically (1897) from the Presidio (Mountain Lake; CCH); not included in Howell, <i>et al.</i> Reported from the Presidio (Mountain Lake). INVASIVE STATUS: H/—/C/—	h	p	Naturalized. Ditches, lake margins; Elevation: < 2080 m. WET: OBL	1	Jul-Sep	no	N/N
MRT	<i>Myrtus communis</i>	myrtle	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Golden Gate Park.	s	ep	Waif or garden escape; not naturalized. Disturbed wet areas; Elevation: 740 m.	1	sum	no	N/N
HDC	<i>Najas guadalupensis</i> ssp.	southern water-nymph	Recorded historically (1897, as full species) from the Presidio (Mountain Lake; Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1928.	h	a	Aquatic, submersed. Ponds, lakes; Elevation: < 1200 m. WET: OBL	0	Jun-Aug	no	Y/Y
AML	<i>Narcissus papyraceus</i>	paperwhite	Previously included in the Liliaceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Alcatraz Is., the Marina Dist., and the Presidio (Simond's Loop).	gp	p	Ornamental; not naturalized. Bulb-forming.	2	sp	no	N/N
AML	<i>Narcissus pseudonarcissus</i>	common daffodil	Previously included in the Liliaceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Glen Cyn., Tank Hill, Twin Peaks, and Yerba Buena Is.; expected elsewhere.	gp	p	Naturalized. Bulb-forming. Disturbed places; Elevation: < 350 m.	4	sp	no	N/N
AML	<i>Narcissus tazetta</i>	cream narcissus	Previously included in the Liliaceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Yerba Buena Is.; expected elsewhere.	gp	p	Naturalized. Bulb-forming. Disturbed places, former home sites; Elevation: < 600 m.	1	sp	no	N/N
BRA	<i>Nasturtium officinale</i>	common water-cress	[<i>Rorippa nasturtium-aquaticum</i>] Recorded historically (1897) from Alemany Blvd., Brotherhood Way, Lake Merced, Land's End, McLaren Park, the Presidio (Lobos, Cr.), San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End, McLaren Park, the Presidio (Baker Beach, Doyle Dr. Natural Area, Dragonfly Cr., Lobos Cr. Valley, Lover's Lane, Mountain Lake, Presidio Bluffs, Pygmy Forest, Tennessee Hollow), the Sea Cliff Dist., and Sutro Baths. INVASIVE STATUS: —/2/—/—	h	p	Rhizomatous. Streams, springs, marshes, lake margins, swamps; Elevation: < 3000 m. WET: OBL	16	Mar-Nov	no	Y/Y
PLM	<i>Navarretia linearifolia</i> ssp. <i>pimatisecta</i>	pinnate-leaved navarretia	Known from a single 1903 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Native Cal. taxon but not considered indigenous here; SF occ. represents an extreme range extension. There are no contemporary reports from SF. RARITY STATUS: —/—/4.3	h	a	Openings in sagebrush scrub, chaparral, or forest, serpentine or red volcanic soils; Elevation: 300-2200 m. SERP: 3.8	0	Jun-Aug	CA	N/Y
PLM	<i>Navarretia squarrosa</i>	striped skunkweed	Recorded historically (1852) from Golden Gate Park, Laguna Honda Valley, Lake Merced, Mt. Davidson, the Presidio (Lobos Cr. Valley to Ft. Point), San Miguel Hills, and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Hawk Hill, Laurel Hts., McLaren Park, the Presidio (Crissy Bluffs, Crissy Field, Doyle Dr. Natural Area, Dragonfly Cr., Ft. Point, Ft. Scott, Horse Stables, Infantry Terrace, Inspiration Pt., Lobos Cr. Valley, Officer's Row, Presidio Bluffs, Presidio Hills, Rob Hill, sw. dunes, Tennessee Hollow, WWII Memorial); recently seen at Yerba Buena Is. where it may be an incidental introduction.	h	a	With skunk-like odor. Open, wet, gravelly flats, slopes; Elevation: < 1100 m. WET: FACU	21	Jun-Aug	no	Y/Y
BOR	<i>Nemophila heterophylla</i>	small baby blue eyes	Previously included in the Hydrophyllaceae. Recorded historically (1880) from "SF" and Visitación Valley (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1880.	h	a	Forest, chaparral, road-sides, slopes, stream-banks, talus; Elevation: 30-1700 m.	0	Apr-Jun	no	Y/Y
BOR	<i>Nemophila maculata</i>	five-spot baby blue eyes	Previously included in the Hydrophyllaceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Bernal Hts. Park, Golden Gate Park, the Richmond Dist., the Sunset Dist., Yerba Buena Is., and other urban gardens; introduced. SF lies outside of the taxon's bioregion and there is only one other record from the Bay Area. Not regarded as indigenous to SF.	h	a	Meadows, road-banks, woodland; Elevation: 60-3100 m.	3	May-Jul	CA	N/Y
BOR	<i>Nemophila menziesii</i> var.	Menzies' baby blue eyes	Previously included in the Hydrophyllaceae. Recorded historically (c. 1890, as full species) from Bayview Hills, Lake Merced, Land's End (Pt. Lobos), Mission Dolores, Mt. Davidson, Potrero Hills, the Presidio, San Miguel Hills, and Visitación Valley (Howell, <i>et al.</i> , CCH). Reported (as full species) from Bernal Hts., Glen Cyn., the Presidio (Ft. Point), and Tank Hill; needs id.	h	a	n/a	4	Feb-Jun	no	Y/Y
BOR	<i>Nemophila menziesii</i> var. <i>atomaria</i>	Menzies' baby blue eyes	Previously included in the Hydrophyllaceae. Known from a single 1862 collection from Mission Dolores (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF of this variety.	h	a	Coastal bluffs, grassy slopes; Elevation: 15-1500 m.	0	Feb-Jun	no	Y/Y
BOR	<i>Nemophila menziesii</i> var. <i>menziesii</i>	Menzies' baby blue eyes	Previously included in the Hydrophyllaceae. Recorded historically (1891) from Bayview Hills, Lake Merced, and "SF" (CCH); not included in Howell, <i>et al.</i> Recorded historically (as full species) from Bayview Hills, Lake Merced, Mission Dolores, Mt. Davidson, Potrero Hills, the Presidio, Pt. Lobos, San Miguel Hills, and Visitación Valley (Howell, <i>et al.</i> , CCH). Reported from the Sunset Dist. and other urban gardens where it was introduced. Also reported (as full species) from Bernal Hts., Glen Cyn., the Presidio (Ft. Point), and Tank Hill; needs id.	h	a	Meadows, grassland, chaparral, woodland, slopes, desert washes; Elevation: 15-1600 m.	0	Feb-Jun	no	Y/Y
BOR	<i>Nemophila parviflora</i> var.	smallflower blue eyes	Previously included in the Hydrophyllaceae. Known from a single collection (c. 1890) at Mt. Sutro (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1890. Presumably <i>N.p.</i> var. <i>parviflora</i> .	h	a	Woodland, forest, road-sides, slopes; Elevation: < 1600 m.	0	Mar-Jul	no	Y/Y

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BOR	<u><i>Nemophila pedunculata</i></u>	littlefoot nemophila	Previously included in the Hydrophyllaceae. Recorded historically (1902) from Lake Merced, Land's End (Pt. Lobos), Lone Mt., McLaren Park, and Visitación Valley (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston and the Presidio (Inspiration Pt., Lobos Cr. Valley, Presidio Hills, Pygmy Forest, Rob Hill, Tennessee Hollow, Western Pacific Natural Area). SF is the type locality (syntype of <i>N.p. forma chandleri</i> ; holotype of <i>N. humifusa</i>).	h	a	Ocean bluffs, grassland, slopes, meadows, sandbars, fields, woodland, stream-banks; Elevation: < 2400 m. WET: FAC	8	Feb-Jul	no	Y/Y
SOL	<u><i>Nicotiana glauca</i></u>	tree tobacco	Recorded historically (1913) from Golden Gate Park (Chain-of-Lakes) and the Mission Dist. (Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park, Heron's Head Park, and Ocean Beach; expected elsewhere. INVASIVE STATUS: M/-/-/-	s-t	p	Naturalized. Open, disturbed flats or slopes; Elevation: < 1100 m. WET: FAC	3	Jun-Aug	no	N/N
SOL	<i>Nicotiana quadrialveis</i>	Indian tobacco	[<i>N. bigelovii</i>] Recorded (c. 1900) historically from se. SF (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Golden Gate Park.	h	a	Naturalized. Open, well-drained washes, slopes; Elevation: < 1500 m. WET: FACU	1	May-Oct	no	N/N
SOL	<i>Nicotiana</i> ^s <i>sanderorum</i>	(no common name)	[<i>N. sanderi</i> , pending; <i>N. sanderae</i> , Horticultural hybrid between <i>N. alata</i> and <i>N. forgetiana</i> .] Recorded historically (c. 1955) from Golden Gate Park (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	h	p	Waif or garden escape; not naturalized.	0	sum-fall	no	N/N
RAN	<i>Nigella damascena</i>	love-in-a-mist	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Golden Gate Park, the Mission Dist., the Presidio (Doyle Dr. Natural Area, Horse Stables), SFSU, and numerous urban gardens.	h	a	Naturalized.	4	sp	no	N/N
AML	<i>Nothoscordum bivalve</i>	crowpoison	Previously included in the Liliaceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Ina Coolbrith Park.	gp	p	Waif or garden escape; not naturalized	1	sp	no	N/N
NYM	<i>Nuphar polysepalum</i>	Rocky Mt. pond lily	[<i>N. polysepalum</i> ; <i>N. lutea</i> ssp. <i>p.</i>] Known from a single 1899 collection from the Presidio (Mountain Lake; Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1899.	h	p	Aquatic, rhizomatous. Ponds, slow streams; Elevation: < 2500 m. WET: OBL	0	Mar-May	no	Y/Y
PTG	<i>Nuttallanthus texanus</i>	large blue toadflax	[<i>Linaria canadensis</i> var. <i>t.</i>] Previously included in the Scrophulariaceae. Recorded historically (1927) from Lake Merced, the Presidio (Baker Beach), and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported [as <i>N. canadensis</i> , a taxon not occurring in Cal. (JFP, 2021)] from Ft. Funston, Grandview Park, Hawk Hill, the Presidio (Baker Beach, Baker Beach n., Golf Course Natural Area, Lobos Cr. Valley, Presidio Hills, sw. dunes, WWII Memorial), and Yerba Buena Is.	h	a-b	Sand or gravel; Elevation: < 1800 m.	11	Mar-May	no	Y/Y
NYM	<i>Nymphaea mexicana</i>	yellow waterlily	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Lake Merced.	h	p	Naturalized. Rhizomatous. Lakes, ponds, slow streams; Elevation: < 100 m. WET: OBL	1	Apr-Jul	no	N/N
ROS	<u><i>Oenleria cerasiformis</i></u>	oso berry	[<i>Osmaronia</i> c.] Recorded historically (1862) from Bayview Hills, Brotherhood Way, Laguna Honda Valley, Land's End, McLaren Park, Mission Dolores, Mt. Davidson, Mt. Sutro, the Presidio (Baker Beach, Ft. Point), and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio, Treasure Is., and from Yerba Buena Is.	s-t	dp	Chaparral, canyons, stream-banks, lowland wet to dry open woodland, coast to shaded conifer forest; Elevation: < 1850 m. WET: FACU	38	Feb-Apr	no	Y/Y
API	<u><i>Oenanthe sarmentosa</i></u>	Pacific water parsley	Recorded historically (1891) from Brotherhood Way, Golden Gate Park, Lake Merced, Land's End, McLaren Park, Mt. Davidson, the Presidio (Ft. Point, Lobos Cr. Valley, Mountain Lake), San Miguel Hills, and Visitación Valley (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio; reintroduced at Sutro Forest.	h	p	Streams, marshes, ponds, generally aquatic; Elevation: < 1800 m. WET: OBL	23	Jun-Oct	no	Y/Y
ONA	<i>Oenothera biennis</i>	common evening-primrose	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Golden Gate Park (Strawberry Hill, misc.)	h	b	Naturalized. Disturbed places; Elevation: generally < 300 m. WET: FACU	2	Jun-Sep	no	N/N
ONA	<i>Oenothera elata</i> ssp. <i>hirsutissima</i>	hairy evening-primrose	Known from a single 1936 collection from Lake Merced (CCH); not included in Howell, <i>et al.</i> Extirpated	h	b	Moist places, generally inland; Elevation: < 2800 m. WET: FACW	0	Jun-Sep	no	Y/Y
ONA	<i>Oenothera elata</i> ssp. <i>hookeri</i>	Hooker's evening-primrose	[<i>Oh.</i> ; <i>Oh.</i> ssp. <i>montereyensis</i>] Recorded historically (1900) from Lake Merced and Land's End (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, Golden Gate Park (Strawberry Hill), and the Presidio (Mountain Lake, Presidio Hills, sw. dunes). Reported from Brook Park, Brotherhood Way, Ft. Funston, Glen Cyn., Golden Gate Park (Strawberry Hill, misc.), Hunters Pt., Lake Merced, McLaren Park, Palou-Phelps, the Presidio (Mountain Lake, Presidio Hills, sw. dunes), Rocky Outcrop, the Sunset Dist., Sutro Hts, and Yerba Buena Is.; reintroduced at the Presidio (WWII Memorial).	h	b	Moist, coastal, slightly inland, sandy bluffs; Elevation: < 200 m. WET: FACW	17	Jun-Sep	no	Y/Y
ONA	<i>Oenothera glazioviana</i>	red-sepaled evening-primrose	[<i>Oh.</i> ^s <i>erithrosepala</i>] Recorded historically (1914) from Golden Gate Park (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Heron's Head, Golden Gate Park, and Lake Merced; known from San Mateo and Alameda cos.	h	b	Naturalized. Disturbed places; Elevation: < 500 m.	3	Jun-Sep	no	N/N
ONA	<u><i>Oenothera rosea</i></u>	pink evening-primrose	Recorded historically (c. 1955) from Russian Hill (Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park.	h	p	Waif or garden escape; not naturalized. Disturbed places; Elevation: generally < 500 m. WET: FACW	1	May-Jul	no	N/N
ONA	<i>Oenothera speciosa</i>	Mexican evening-primrose	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Alemany Farm, Candlestick Pt., Corona Hts, Golden Gate Park (Strawberry Hill, misc.), Laurel Hts., and McLaren Park.	h	p	Naturalized. Disturbed places; Elevation: generally < 500 m.	6	May-Sep	no	N/N
OLE	<i>Olea europaea</i>	Mediterranean olive	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported naturalized at Buena Vista Park, Candlestick Pt., City College, the Embarcadero, North Beach, Potrero Hill, the Presidio (Liggett St. Housing, Presidio Bluffs, Simond's Loop, Tennessee Hollow), the Sunset Dist., the Tenderloin, and Yerba Buena Is.; expected elsewhere. INVASIVE STATUS: L/-/-/-	t	p	Naturalized. Generally waif, persisting from cultivation; Elevation: < 200 m.	8	Feb-Jun	no	N/N

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CAC	<i>Opuntia ficus-indica</i>	mission cactus, tuna cactus	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from near Corona Hts., Mission Bay (Central Waterfront, Mission Cr.)	s	ep	Naturalized. Dry coastal habitats; Elevation: 6-450 m.	3	Jul-Aug	no	N/N
CAC	<i>Opuntia littoralis</i>	coastal prickly pear	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Balboa Natural Area where it was presumably planted.	s	ep	Coastal-sage scrub, chaparral; Elevation: 8-400 m.	1	Apr-Jun	no	N/Y
API	<i>Osmorhiza berteroi</i>	western sweet cicely	[<i>O. chilensis</i>] Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Interior Greenbelt, Mt. Davidson, the Presidio (Inspiration Pt., Tennessee Hollow), and Suto Forest. Presumed indigenous to SF.	h	p	Conifer forest, woodland, disturbed areas; Elevation: < 2800 m. WET: FACU	5	Apr-Jul	no	Y/Y
OXL	<i>Oxalis articulata</i> ssp. <i>rubra</i>	jointed wood-sorrel	[<i>O. rubra</i>] Recorded historically (c. 1955) from the Embarcadero, Golden Gate Park, the Richmond Dist., the Sea Cliff Cliff Dist., Sunset Dist. dunes, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Alcatraz Is, Bayview Hill, Bernal Hts. Park, Golden Gate Park, Laurel Hts., North Beach, Pine Lake, the Richmond Dist., the Sunset Dist., Telegraph Hill, and Yerba Buena Is.	h	p	Naturalized. Rhizomatous with bulb-like tubercles. Disturbed places; Elevation: < 800 m.	7	Apr-Oct	no	N/N
OXL	<i>Oxalis corniculata</i>	creeping wood-sorrel	Recorded historically (1957) from Bayview Hills, Golden Gate Park, Lake Merced, Lone Mt., the Marina Dist., McLaren Park, Nob Hill, the Presidio, Russian Hill, the Sunset Dist., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	p	Naturalized. Tap-rooted, roots at nodes, lacking bulbs. Disturbed areas; Elevation: generally < 1900 m. WET: FACU	21	Jan-Dec	no	N/N
OXL	<i>Oxalis incarnata</i>	crimson wood-sorrel	Recorded historically (1956) from Golden Gate Park, Mt. Suto, Pine Lake, the Richmond Dist., the Sea Cliff Dist., the Sunset Dist., and Telegraph Hill (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	p	Naturalized. Rhizomatous, with bulbs. Shady woodland; Elevation: < 400 m.	37	Mar-Jun	no	N/N
OXL	<i>Oxalis latifolia</i>	broadleaf wood-sorrel	[<i>O. martiniana</i> ; <i>O. vallicola</i>] Recorded historically (1977) from the Sunset Dist. (CCH); not included in Howell, <i>et al.</i> Reported from Billy Goat Hill, the Presidio (Lobos Cr. Valley), and the Sunset Dist.	h	p	Waif or garden escape; not naturalized.	2	lwin-esp	no	N/N
OXL	<i>Oxalis oregana</i>	redwood sorrel	Recorded historically (c. 1957) from Golden Gate Park, where it was planted (Howell, <i>et al.</i>); there are no historic SF records in CCH. Reported from Golden Gate Park and the Presidio where it is presumed to have been planted.	h	p	From creeping rhizomes, without bulbs. Moist conifer forest; Elevation: < 1000 m. WET: FACU	3	Feb-Aug	no	N/Y
OXL	<i>Oxalis pes-caprae</i>	Bermuda buttercup	Recorded historically (1929) from Bernal Hts., the Embarcadero, Golden Gate Park, near Islais Cr., Lake Merced, Land's End (Pt. Lobos), Lone Mt., Mt. Davidson, Pine Lake, the Presidio, the Richmond Dist., San Miguel Hills, Telegraph Hill, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: M/1/-/-	h	p	Naturalized. Rhizomatous, producing numerous bulbs. Disturbed areas, road-sides, grassland, dunes; Elevation: < 820 m.	84	Jan-May	no	N/N
OXL	<i>Oxalis pilosa</i>	coastal native oxalis	[<i>O. albicans</i> ssp. <i>p.</i> ; <i>O. corniculata</i> ssp. <i>p.</i>] Recorded historically (1933) from Bayview Hills, Golden Gate Park, Laguna Honda Valley, Lake Merced, Mt. Davidson, San Miguel Hills, Suto Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, Brooks Park, Laguna Honda Valley, McLaren Park, Suto Forest, and Twin Peaks; extirpated from the Presidio.	h	p	From a more or less woody taproot. Coastal grassland, scrub, chaparral; Elevation: < 1800 m.	7	Feb-Sep	no	Y/Y
OXL	<i>Oxalis purpurea</i>	purple wood-sorrel	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Lone Mt., Park Merced, the Richmond Dist., and the Sunset Dist.	h	p	Waif. Bulb-forming. Disturbed places, especially near gardens; Elevation: < 160 m.	1	Jan-Feb	no	N/N
OXL	<i>Oxalis</i> sp.	oxalis	Reported (to genus) from Mt. Davidson; needs id.	h	a-p	n/a	1	n/a	no	n/a
BIG	<i>Pandorea jasminoides</i>	bower vine	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Glen Cyn. and Golden Gate Park (Strawberry Hill).	v	p	Ornamental; not naturalized.	2	sp-sum	no	N/N
POA	<i>Panicum capillare</i>	witchgrass	Recorded historically (1957) from Golden Gate Park where it was likely introduced (Howell, <i>et al.</i> , CCH). Native to Cal. but not considered indigenous to SF. There are no contemporary reports from SF.	g	a	Open places, fields, road-sides; Elevation: < 1500 m. WET: FACU	0	Feb-Dec	no	N/Y
POA	<i>Panicum miliaceum</i> ssp.	broomcorn millet	Recorded historically (1954, as full species) from SF (Howell, <i>et al.</i> , CCH). Reported (as full species) from the Presidio (Crissy Bluffs and Presidio Hills); needs id. Presumably <i>P.m.</i> ssp. <i>m.</i>	g	a	Naturalized. Disturbed areas, fields, road-sides; Elevation: < 1000 m.	2	Feb-Nov	no	N/N
POA	<i>Parapholis incurva</i>	curved sickle-grass	Recorded historically (1891) from SF (Howell, <i>et al.</i> , CCH). Reported from Heron's Head Park, Pier 94, the Presidio (Crissy Field, Doyle Dr. Natural Area, Ft. Point, Presidio Bluffs, WWII Memorial), Suto Baths, and Yerba Buena Is.	g	a	Naturalized. Disturbed, well drained soils of salt marshes, generally above highest tide level; Elevation: < 100 m. WET: FACU	9	Apr-Jun	no	N/N
ORO	<i>Parentucellia viscosa</i>	yellow glandweed	[<i>Bellardia v.</i> , pending] Previously included in the Scrophulariaceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Tennessee Hollow [El Polin Springs]). INVASIVE STATUS: L/-/-/-	h	a	Naturalized. Damp, grassy places; Elevation: generally < 700 m. WET: FAC	1	Apr-Jun	no	N/N
URT	<i>Parietaria judaica</i>	spreading pellitory	Recorded historically (1942) from the Embarcadero, Golden Gate Park, Mission Dist., the Presidio (Main Post), Russian Hill, and many other SF locations (Howell, <i>et al.</i> , CCH). A common weed found throughout the city and the Presidio.	h	p	Naturalized. Road-sides, disturbed areas on coastal bluffs; Elevation: < 125 m.	35	Nov-Aug	no	N/N
CRY	<i>Paronychia franciscana</i>	Chilean nailwort	Recorded historically (1887) from Bernal Hts., Glen Cyn., Lake Merced, Nanny Goat Hill, Mt. Davidson, the Presidio (Mountain Lake), the Richmond Dist., San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. SF is the type locality.	h	p	Naturalized. Mat-forming, Grassy hills; Elevation: < 250 m.	22	sp	no	N/N
POA	<i>Paspalum dilatatum</i>	dallis-grass	Recorded historically (1927) from SF (Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park (Mallard Lake) and the Presidio (Presidio Bluffs); expected elsewhere. INVASIVE STATUS: -/1/-/-	g	p	Naturalized. Cespitose, with short rhizomes. Disturbed areas; Elevation: < 1160 m. WET: FAC	2	May-Nov	no	N/N

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POA	<i>Paspalum distichum</i>	knotgrass	Recorded historically (1956) from the Embarcadero and Golden Gate Park (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF; to be expected.	g	p	Creeping or cespitose. Edges of lakes, ponds, rice fields, wet roadside ditches; Elevation: < 1770 m. WET: FACW	0	Aug-Sep	no	N/N
PAS	<i>Passiflora manicata</i>	red passionflower	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Golden Gate Park, Land's End, and the Mission Dist.	v	p	Waif or garden escape; not naturalized.	2	sum-fall	no	N/N
PAS	<i>Passiflora mixta</i>	passion vine	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Golden Gate Park and Tank Hill.	v	p	Waif or garden escape; not naturalized.	2	May-Sep	no	N/N
PAS	<i>Passiflora tarminiana</i>	northern banana passionfruit	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Golden Gate Park, Mt. Davidson, and the Presidio (Lobos Cr. Valley, Mountain Lake, Res. Cultural Plantation, Transfer Station Plantation). INVASIVE STATUS: W/-/-/-	v	p	Naturalized. Pine, oak, or riparian woodland; Elevation: < 100 m.	6	Jun-Dec	no	N/N
API	<i>Pastinaca sativa</i>	parsnip	Recorded historically (1956) from San Miguel Hills (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h	b	Naturalized. Road-sides, disturbed areas; Elevation: < 1600 m.	0	Jul-Aug	no	N/N
BOR	<i>Pectocarya penicillata</i>	winged combseed	Recorded historically (1901) from Brotherhood Way and Lake Merced (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1956.	h	a	Open places, fields, road-sides; Elevation: < 1500 m.	0	Mar-Jun	no	Y/Y
GER	<i>Pelargonium peltatum</i>	ivy geranium	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Yerba Buena Is.; expected elsewhere.	h-s	p	Waif or garden escape; not naturalized.	1	Jan-Dec	no	N/N
GER	<i>Pelargonium vitifolium</i>	grape-leaved geranium	Reported historically (1947) from Land's End, Sutro Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h	p	Waif or garden escape; not naturalized.	0	Apr-Aug	no	N/N
GER	<i>Pelargonium</i> * <i>domesticum</i>	regal pelargonium	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Ft. Funston.	s	p	Ornamental; not naturalized.	1	sp	no	N/N
GER	<i>Pelargonium</i> * <i>hortorum</i>	garden geranium	Recorded historically (1951) from the Sea Cliff Dist. (Howell, <i>et al.</i> , CCH). Reported from Yerba Buena Is.	h-ss	p	Naturalized. Disturbed sites; Elevation: < 300 m.	1	Jan-Dec	no	N/N
GER	<i>Pelargonium zonale</i>	horseshoe geranium	Recorded historically (c. 1956) from the Sea Cliff Dist. (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	h	a-p	Waif or garden escape; not naturalized.	0	Jan-Dec	no	N/N
PTR	<i>Pellaea andromedifolia</i>	coffee fern	Known from a single collection (c. 1890) from Sunset Hts. (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Clarendon Hts., Laguna Honda Valley, Mt. Davidson, Treasure Is., and Yerba Buena Is. Voucher specimen needed.	f	p	From long-creeping, branched rhizomes. Generally rocky or dry areas; Elevation: 30-1800 m.	4	n/a	no	Y/Y
PTR	<i>Pellaea mucronata</i> var.	birdfoot cliffbrake	Recorded historically (1879, as full species) from Bayview Hills (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1900. Presumably <i>P.m.</i> var. <i>m.</i> SF is the type locality (holotype of <i>P.m.</i>)	f	p	From short-creeping, branched rhizomes. Rocky or dry areas; Elevation: 20-2400 m.	0	n/a	no	Y/Y
POA	<i>Pennisetum claudetinum</i>	Kikuyu-grass	Recorded historically (1957) from Golden Gate Park and the Presidio (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: L/3/NW,C/NW	g	p	Naturalized. Mat-forming from stolons and rhizomes. Disturbed areas; Elevation: < 100 m.	24	Jan-Dec	no	N/N
POA	<i>Pennisetum setaceum</i>	fountain grass	[<i>Cenchrus setaceus</i> , pending] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Richmond Dist.; expected elsewhere. INVASIVE STATUS: M/-/C/-	g	a-p	Naturalized. Cespitose. Disturbed areas; Elevation: < 100 m.	0	Mar-Dec	no	N/N
POA	<i>Pennisetum villosum</i>	feathertop	[<i>Cenchrus longisetus</i> , pending] Recorded historically (c. 1953) from Lake Merced (Howell, <i>et al.</i> , CCH). Reported from the Marina Dist.; expected elsewhere. INVASIVE STATUS: W/-/-/-	g	p	Naturalized. Cespitose from elongated rhizomes. Disturbed areas; Elevation: < 200 m.	0	Jun-Aug	no	N/N
AST	<i>Pentachaeta alsinoides</i>	tiny pygmy daisy	Recorded historically (1890) from Bayview Hills, Hunters Pt., McLaren Park, Mission Hills, and Potrero Hills (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1957.	h	a	Grassy areas, open woodland, chaparral openings; Elevation: < 550 m.	0	Mar-Jun	CA	Y/Y
AST	<i>Pentachaeta exilis</i> ssp. <i>exilis</i>	meager pygmy daisy	Known (1868, as full species) from a single collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated	h	a	Grassland, foothill woodland; Elevation: < 900 m.	0	Mar-May	no	Y/Y
BOR	<i>Pentaglottis sempervirens</i>	evergreen bugloss	[<i>Anchusa</i> s.] Recorded historically (1954) from Golden Gate Park (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Golden Gate Park (AIDS Memorial Grove, Lily Pond, Oak Woodland, misc.), and the Presidio (Lobos Cr. Valley).	h	p	Waif or garden escape; not naturalized.	5	Apr-Jul	no	N/N
PTR	<i>Pentagramma triangularis</i> ssp. <i>triangularis</i>	goldback fern	[<i>Pityrogramma</i> f.] Recorded historically (1894) from Bayview Hills, Brotherhood Way, Lake Merced, Lone Mt., and the Presidio (Howell, <i>et al.</i> , CCH). Reported from Alcatraz Is., Bayview Hill, Bernal Hts. Park, Billy Goat Hill, Corona Hts., Glen Cyn., O'Shaughnessy Hollow, Palou-Phelps, Tank Hill, Twin Peaks, and Yerba Buena Is. Also reported (as full species) from throughout the city and the Presidio; all SF occs. are presumably <i>P.t.</i> ssp. <i>t.</i> SF is the type locality (holotype of <i>Gymnopteris</i> f.)	f	p	Rhizomatous. Generally shaded, sometimes rocky or wooded areas; Elevation: < 2300 m.	35	n/a	no	Y/Y
AST	<i>Pericallis</i> * <i>hybrida</i>	garden or florist's cineraria	[<i>Senecio hybridus</i> ; <i>S. cruentus</i>] Recorded historically (1957) from Golden Gate Park and Russian Hill (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Corona Hts., Crocker-Amazon Natural Area, Golden Gate Park, Interior Greenbelt, Lone Mt., McLaren Park, Pacific Hts., the Presidio (Lobos Cr. Valley, Mountain Lake, Simond's Loop), the Richmond Dist., SFSU, the Sunset Dist., Sutro Forest, and Yerba Buena Is.	h	a-p	Ornamental; not naturalized.	13	lwin-esp	no	N/N
API	<i>Perideridia kelloggii</i>	Kellogg's yampah	Recorded historically (1932) from Bayview Hills, Hunters Pt., Laguna Honda Valley, Mt. Davidson, the Presidio (Lobos Cr. Valley to Ft. Point), San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, Hunters Pt. Ridge, Laguna Honda Valley, Palou-Phelps, and the Presidio (Crispy Bluffs, Inspiration Pt., Presidio Bluffs, Tennessee Hollow, WWII Memorial).	h	p	Open grassland, serpentine outcrops; Elevation: < 1800 m. SERP: 2.1	10	Jul-Aug	CA	Y/Y

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PLG	<i>Persicaria amphibia</i>	narrow-leaved pondweed	[<i>Polygonum amphibium</i> var. <i>emersum</i> ; <u><i>P. coccineum</i></u>] Recorded historically (1868) from Brotherhood Way, Lake Merced, Pine Lake, and the Presidio (Mountain Lake, Presidio Hills; Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way, Lake Merced, Pine Lake, and the Presidio (Golf Course Natural Area, Mountain Lake). SF is the type locality.	h	p	From rhizomes or stolons. Shallow lakes, streams, shores; Elevation: < 3000 m. WET: OBL	5	Jun-Nov	no	Y/Y
PLG	<i>Persicaria capitata</i>	pink-head knotweed	[<i>Polygonum capitatum</i>] Recorded historically (1977) from near Corona Hts., the Mission Dist. and Pacific Hts. (CCH); not included in Howell, <i>et al.</i> Reported from Billy Goat Hill, Buena Vista Park, Clarendon Hts., Corona Hts., the Embarcadero, Ft. Mason, Glen Cyn., Golden Gate Park (Strawberry Hill, misc.), Hayes Valley, Laurel Hts., McLaren Park, Merced Hts., the Mission Dist., Mt. Davidson, Nob Hill, the Presidio (Crissy Bluffs), Presidio Hts., the Richmond Dist., SFSU, and the Sunset Dist.; common in urban gardens throughout the city.	h	p	Naturalized. Rhizomatous. Disturbed places; cultivated; Elevation: < 500 m. WET: FACU	20	Jun-Sep	no	N/N
PLG	<i>Persicaria lapathifolia</i>	pale smartweed	[<i>Polygonum lapathifolium</i>] Recorded historically (1894) from Golden Gate Park (Quarry Lake/Lily Pond), Lake Merced, and the Presidio (Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park and the Presidio (Mountain Lake, sw. dunes, Tennessee Hollow).	h	a	Rhizomatous. Moist places, disturbed areas, road-sides, fields; Elevation: < 1500 m. WET: FACW	4	Jun-Oct	no	Y/Y
PLG	<i>Persicaria maculosa</i>	spotted smartweed	[<i>Polygonum persicaria</i>] Recorded historically (1917) from Islais Cr., Lake Merced, Nob Hill, and the Presidio (Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from McLaren Park and the Presidio (Inspiration Pt., Lover's Lane, Mountain Lake).	h	a	Naturalized. Rhizomatous. Moist disturbed areas, fields; Elevation: < 1500 m. WET: FACW	4	Jun-Nov	no	N/N
PLG	<i>Persicaria pensylvanica</i>	pinkweed	[<i>Polygonum pensylvanicum</i>] Recorded historically (c. 1900) from the "n. parts of the city" (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	h	a	Naturalized. Rhizomatous. Moist disturbed places, drying ponds, riverbanks, fields; Elevation: + 30 m. WET: FACW	0	May-Dec	no	N/N
PLG	<i>Persicaria punctata</i>	common water smartweed	[<i>Polygonum punctatum</i>] Recorded historically (1852) from Brotherhood Way, Golden Gate Park, Lake Merced, Pine Lake, and the Presidio (Lobos Cr. Valley, Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way, Glen Cyn., Golden Gate Park (Mallard Lake), and the Presidio (Golf Course Natural Area, Lobos Cr. Valley, Mountain Lake, Presidio Hills, Tennessee Hollow).	h	a-p	Generally rhizomatous. Shallow water, shores, marshes, floodplain forest; Elevation: < 1500 m. WET: OBL	8	Jun-Nov	no	Y/Y
AST	<i>Petasites frigidus</i> var. <i>palmaris</i>	western coltsfoot	Known from a single 1916 collection from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> Although SF lies within the taxon's expected range, it is unlikely to be indigenous here. Reported from Golden Gate Park (AIDS Memorial Grove), and the Presidio (Golf Course Natural Area).	ss	p	Rhizomatous. Forest, stream-banks, generally wet soil; Elevation: < 1400 m. WET: FACW	2	Feb-Jun	no	N/Y
CRY	<i>Petrorhagia dubia</i>	wilding pink	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Crissy Field, Main Post, Presidio Bluffs, Presidio Hills).	h	a	Naturalized. Disturbed areas, woodland savanna; Elevation: < 1800 m.	4	sp-esum	no	N/N
CRY	<i>Petrorhagia nanteuillii</i>	Nanteuil pink	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Presidio Bluffs); possible mis-id of <i>P. dubia</i> .	h	a	Naturalized. Disturbed areas, road-sides; Elevation: 200-550(1417) m.	1	Mar-May	no	N/N
API	<u><i>Petroselinum crispum</i></u>	parsley	Recorded historically (c. 1955) from Land's End (Pt. Lobos), Laurel Hts., and Sutro Hts. (Howell, <i>et al.</i> , CCH). Reported from Noe Valley.	h	p	Waif or garden escape; not naturalized. Disturbed areas; Elevation: < 1000 m.	1	Jul-Aug	no	N/N
BOR	<u><i>Phacelia californica</i></u>	Cal. coast phacelia	Previously included in the Hydrophyllaceae. Recorded historically (1870) from Bayview Hills, Corona Hts., Forest Hill, Golden Gate Hts., Hunters Pt., Laguna Honda Valley, Lake Merced, Land's End (Pt. Lobos), Lone Mt., McLaren Park, Mt. Davidson, Mt. Sutro, the Presidio (Baker Beach), San Miguel Hills, Sunset Dist. dunes, Sunset Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio; reintroduced at Sutro Forest. SF is the type locality (neotype of <i>P.c.</i>)	h	p	Bluffs, open slopes, road cuts, chaparral, woodland; Elevation: < 1000 m. SERP: 1.4	26	Mar-Sep	CA	Y/Y
BOR	<u><i>Phacelia ciliata</i></u>	Great Valley phacelia	Previously included in the Hydrophyllaceae. Recorded historically (1908) from Golden Gate Park, Laguna Honda Valley, Lake Merced, Lone Mt., Mission Dist., San Miguel Hills, and SF State College (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1968.	h	a	Clay or gravelly slopes in grassland, fields; Elevation: < 1850 m.	0	Feb-May	no	Y/Y
BOR	<u><i>Phacelia distans</i></u>	fem-leaved phacelia	Previously included in the Hydrophyllaceae. Recorded historically (1881) from Bayview Hills, Forest Hill, Golden Gate Hts., Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End, Lone Mt., Mt. Davidson, the Presidio (Baker Beach, Doyle Dr., Presidio Hills), Sunset Dist. dunes, and Sutro Hts. (Howell, <i>et al.</i> , CCH). Reported throughout the city and the Presidio.	h	a	Clay to rocky soils, slopes; Elevation: < 2700 m.	33	Mar-May	no	Y/Y
BOR	<i>Phacelia divaricata</i>	divaricate phacelia	Previously included in the Hydrophyllaceae. Known from a single 1890 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1890.	h	a	Open areas, chaparral, woodland, grassland; Elevation: < 1500 m. SERP: 2.3	0	Apr-Jun	CA	Y/Y
BOR	<u><i>Phacelia douglasii</i></u>	Douglas' phacelia	Previously included in the Hydrophyllaceae. Recorded historically (1892) from Lake Merced (Howell, <i>et al.</i> , CCH, Ochoa, 2001); believed extirpated; last collected in 1934. SF is northernmost station on coast.	h	a	Open, generally sandy areas; Elevation: < 1700 m.	0	Mar-May	no	Y/Y
BOR	<i>Phacelia imbricata</i> var.	imbricate phacelia	Previously included in the Hydrophyllaceae. Known from a single 1957 collection from Hunters Pt. (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1957. Presumably <i>P.i.</i> var. <i>i.</i>	h	p	Slopes, road-sides, flats, canyons, chaparral, woodland; Elevation: 50-2300 m. SERP: 1.7	0	Feb-Apr	no	Y/Y
BOR	<u><i>Phacelia malvifolia</i></u> var.	stinging phacelia	Previously included in the Hydrophyllaceae. Recorded historically (1892, as full species) from Bayview Hills, Golden Gate Park, Lake Merced, Land's End, Laurel Hill Cemetery, Mt. Davidson, the Presidio (Lobos Cr. Valley), and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported (as full species) from throughout the city and the Presidio; presumably <i>P.m.</i> var. <i>m.</i> ; needs id.	h	a	Sandy or gravelly soils, slopes, scrub, chaparral, conifer forest; Elevation: < 1400 m.	23	Apr-Jul	no	Y/Y
BOR	<u><i>Phacelia nemoralis</i></u> var. <i>nemoralis</i>	woods phacelia	Previously included in the Hydrophyllaceae. Recorded historically (1889) from Lake Merced, Mt. Davidson, and Stanford Hts. (San Miguel Hills; Howell, <i>et al.</i> , CCH). Extirpated; last collected c. 1957.	h	p	Moist slopes, stream-banks, mixed-evergreen or conifer forest; Elevation: 50-1150 m.	0	Apr-Jul	no	Y/Y

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BOR	<i>Phacelia ramosissima</i>	branching phacelia	Previously included in the Hydrophyllaceae. Recorded historically (1881) from "SF", Mt. Sutro and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from Edgell Hill Mt., Grandview Park, and the Presidio (Presidio Hills, Rob Hill).	h	p	Diverse habitats, including sand dunes, salt marshes, coastal bluffs, canyons, washes, flats, meadows, conifer forest; Elevation: < 3800 m.	3	Apr-Oct	no	Y/Y
POA	<i>Phalaris angusta</i>	Timothy canary-grass	[<i>P. intermedia</i> var. <i>a.</i>] Known from a single 1866 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Native to the Bay Area but the SF occ. represents a potential range extension. Extirpated; last collected in 1866.	g	a	Generally wet areas, marshes, sloughs, edge of chaparral; Elevation: < 1400 m. WET: FACW	0	May-Jun	no	Y/Y
POA	<i>Phalaris aquatica</i>	Harding-grass	[<i>P. tuberosa</i> var. <i>stenoptera</i>] Recorded historically (1956) from Golden Gate Park, Islais Cr., Lake Merced, and Park Merced (Howell, <i>et al.</i> , CCH). Reported from Bernal Hts. Park, Brotherhood Way, Candlestick Pt., Golden Gate Park (Oak Woodland), Land's End, the Presidio (Crissy Bluffs, Ft. Point, Lobos Cr. Valley, Mountain Lake, Presidio Bluffs), the Richmond Dist., and Yerba Buena Is.; expected elsewhere. INVASIVE STATUS: M/2/-/-	g	p	Naturalized. Cespitose, rhizomatous. Disturbed areas, road-sides; Elevation: < 1700 m. WET: FACU	11	Apr-Aug	no	N/N
POA	<i>Phalaris californica</i>	Cal. canary-grass	Recorded historically (1892) from Land's End (Pt. Lobos), Laurel Hill Cemetery, and the Presidio (Baker Beach; Howell, <i>et al.</i> , CCH). Reported from the Presidio (Ft. Point, Inspiration Pt., Presidio Bluffs, Tennessee Hollow, WWII Memorial).	g	p	Cespitose. Coastal open fields, disturbed areas, meadows, woodland; Elevation: < 800 m. WET: FAC	5	Apr-Jun	no	Y/Y
POA	<i>Phalaris canariensis</i>	annual canarygrass	Recorded historically (1954) from Bayview Hills, Brotherhood Way, Golden Gate Park and near Mission Bay (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF; to be expected.	g	a	Naturalized. Disturbed areas; Elevation: < 400 m. WET: FACU	0	Apr-Jul	no	N/N
POA	<i>Phalaris minor</i>	little-seed canary-grass	Recorded historically (1933) from near Bayview Hill, Golden Gate Park (Quarry Lake/Lily Pond), near Islais Cr., Lone Mt., and the Richmond Dist. (Howell, <i>et al.</i> , CCH). Reported from Yerba Buena Is.; expected elsewhere.	g	a	Naturalized. Disturbed areas, cultivated fields; Elevation: < 1000 m.	1	Apr-Jul	no	N/N
POA	<i>Phalaris paradoxa</i>	hooded canary-grass	[incl. <i>P.p.</i> var. <i>praemorsa</i>] Recorded historically (1932) from the Embarcadero, Glen Cyn., Golden Gate Park (Quarry Lake, Strawberry Hill), and Islais Cr. (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Tennessee Hollow [El Polin Spring]); expected elsewhere.	g	a	Naturalized. Disturbed areas, cultivated fields; Elevation: < 300 m. WET: FAC	1	May-Aug	no	N/N
POA	<i>Phleum alpinum</i> (r)	alpine timothy	[<i>P. commutatum</i>] Recorded historically (1862) from the Presidio (Ft. Point; Howell, <i>et al.</i> , CCH) Extirpated; last collected in 1892. Reintroduced at the Presidio (Ft. Point). SF is the southernmost station on the coast.	g	p	Cespitose, occasionally rhizomatous. Wet meadows, stream-banks, conifer forest, alpine; Elevation: < 3700 m. WET:FAC	1	Jul-Aug	no	Y/Y
POA	<i>Phleum pratense</i>	common timothy	Recorded historically (c. 1865) from Golden Gate Park, Lake Merced, and the Richmond Dist. (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF; to be expected.	g	p	Naturalized. Loosely to densely cespitose. Disturbed sites, road-sides, cultivated fields; Elevation: < 2750 m. WET: FACU	0	May-Jun	no	N/N
ARE	<i>Phoenix canariensis</i>	Canary Island palm	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. This widely planted street and park tree has naturalized at Candlestick Pt., Heron's Head Park, Hunters Pt., and Yerba Buena Is.; expected elsewhere. INVASIVE STATUS: L/-/-/-	t	ep	Naturalized. Near development, disturbed areas; Elevation: < 1000 m.	4	Oct-Apr	no	N/N
BOR	<i>Pholistoma auritum</i> var. <i>auritum</i>	common fiesta flower	[<i>Ellisia aurita</i> ; <i>Nemophila aurita</i>] Previously included in the Hydrophyllaceae. Recorded historically (1892) from Bayview Hills and se. SF (Howell, <i>et al.</i> , CCH). Reported from Yerba Buena Is. where the last known natural stands in SF occur; extirpated from mainland SF. Attempts to reintroduce it at the Presidio (Lobos Cr. Valley) have not been successful.	h	a	Ocean bluffs, talus slopes, woodland, stream-banks, canyons; Elevation: < 1900 m.	1	Mar-Jun	no	Y/Y
ROS	<i>Photinia</i> " <i>fraseri</i>	Fraser's photinia	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported naturalized at Billy Goat Hill.	t	ep	Ornamental; not naturalized.	1	esp	no	N/N
POA	<i>Phragmites australis</i>	common reedgrass	[<i>P. communis</i>] Known from a single 1880 collection from se. SF (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Brotherhood Way. Voucher specimen needed. INVASIVE STATUS: -/-/D/-	g	p	From thick rhizomes or stolons, forming dense stands. Pond and lake margins, sloughs, marshes; Elevation: generally < 1600 m. WET: FACW	1	Jul-Nov	no	Y/Y
VRB	<i>Phyla nodiflora</i>	turkey tangle frogfruit	[<i>P.n.</i> vars. <i>canescens</i> , <i>incisa</i> , <i>reptans</i> , and <i>rosea</i>] Recorded historically (c. 1955) from Bayview Hills and Golden Gate Park (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Tennessee Hollow). Previously considered a non-native, it is now regarded as a native Cal. taxon.	h	p	Mat-forming. Wet places, pond margins; Elevation: < 400 m. WET: FACW	1	May-Nov	no	N/Y
ZOS	<i>Phyllospadix torreyi</i>	Torrey's surfgrass	Recorded historically (1896) from Land's End and Ocean Beach (Howell, <i>et al.</i> , CCH). Last collected in 1962. Reported from Ocean Beach and the Presidio (Baker Beach n., Crissy Field)	h	p	Rhizomatous. Surf zones, rocky shores, intertidal, sub-tidal; Elevation: 0-15 m below mean low tide. WET: OBL	3	May-Nov	no	Y/Y
ROS	<i>Physocarpus capitatus</i>	Pacific ninebark	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Golden Gate Park where it was presumably planted.	s	p	Moist banks, n-facing slopes, mixed-conifer forest; Elevation: < 1400 m. WET: FACW	1	May-Jun	no	N/Y
PHY	<i>Phytolacca americana</i> var. <i>americana</i>	American pokeweed	Recorded historically (1954, as full species) from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> Presumably <i>P.a.</i> var. <i>americana</i> . Reported from 15th Ave. Steps, Buena Vista Park, Candlestick Pt., Ft. Mason, Golden Gate Park (Oak Woodland, misc.), Heron's Head Park, Land's End (Lincoln Park), McLaren Park, the Presidio (Doyle Dr. Natural Area, Dragonfly Cr., Golf Course Natural Area, Inspiration Pt., Lobos Cr. Valley, Mountain Lake, Officer's Row, sw. dunes, Tennessee Hollow, WWII Memorial), the Richmond Dist., and the Sunset Dist. INVASIVE STATUS: L/-/-/-	h	p	Naturalized. Disturbed areas, road-sides; Elevation: generally < 1000 m. WET: FAC	19	sum-fall	no	N/N

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FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon Underlined = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonymy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFW / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ^g	# OCCURRENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC SF/Bay Area/CA	NATIVE - SF / CA
PHY	<i>Phytolacca heterotepala</i>	Mexican pokeweed	Recorded historically (1955) from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> Reported from Bernal Hts. Park, Candlestick Pt., Corona Hts., near Ft. Mason, Golden Gate Park (Oak Woodland, Strawberry Hill, misc.), Hunters Pt., Land's End (Lincoln Park), Potrero Hill, the Presidio (Lobos Cr. Valley, Lover's Lane, Lyon St. Plantation, Main Post, Mountain Lake, Officer's Row, Presidio Bluffs), the Richmond Dist., Russian Hill, the Sunset Dist., above Sutro Baths, and Sutro Hts. INVASIVE STATUS: -/-/A/-	h	p	Waif or garden escape; not naturalized. Disturbed areas; Elevation: 10-60 m.	19	sum-win	no	N/N
ARA	<i>Pinellia ternata</i>	crowdipper	Known from a single 1935 collection from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF.	h	p	Agricultural or garden weed.	0	lsp-esum	no	N/N
PIN	<i>Pinus canariensis</i>	Canary Island pine	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Lobos Cr. Valley) and Yerba Buena Is. Not an uncommon park tree.	t	ep	Ornamental; possibly naturalized.	2	n/a	no	N/N
PIN	<i>Pinus contorta</i> ssp.	lodgpole pine	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. This Cal. native species is not indigenous to SF. Reported (as full species) from the Presidio (Tennessee Hollow) where it was undoubtedly planted.	t	ep	Coastal dunes, bluffs lacking clay, hardpan; Elevation: < 150 m. WET: FAC	1	n/a	no	N/Y
PIN	<i>Pinus halepensis</i>	Aleppo pine	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Yerba Buena Is. Not an uncommon park tree.	t	ep	Ornamental, garden escape; not naturalized.	1	n/a	no	N/N
PIN	<i>Pinus muricata</i>	bishop pine	Recorded historically (19931) from the Presidio (Baker Beach; CCH); not included in Howell, <i>et al.</i> This Cal. native species is not indigenous to SF. Reported from Ft. Funston, the Presidio (Baker Beach, Res. Cultural Plantation), the Sunset Dist., and Yerba Buena Is., where it was undoubtedly planted. Presumably <i>P.c.</i> ssp. <i>c.</i>	t	ep	Redwood forest, northern coastal conifer forest, closed-cone-pine forest, chaparral; Elevation: < 300 m.	4	n/a	no	N/Y
PIN	<i>Pinus pinea</i>	Italian stone pine	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Kite Hill and the Presidio (Lobos Cr. Valley).	t	ep	Naturalized ornamental.	2	n/a	no	N/N
PIN	<i>Pinus ponderosa</i> var.	ponderosa pine	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. This Cal. native species is not indigenous to SF. Reported (as full species) from Yerba Buena Is. where it was undoubtedly planted.	t	ep	Generally semi-arid plateaus, low mtns.; Elevation: 1200-1900 m. WET: FACU	1	n/a	no	N/Y
PIN	<i>Pinus radiata</i>	Monterey pine	Recorded historically (1915) from Golden Gate Park, Laguna Honda Valley, McLaren Park, Pine Lake, and the Presidio (Howell, <i>et al.</i> , CCH). This Cal. native species is not indigenous to SF. Commonly found throughout the city and the Presidio. RARITY STATUS: (applies only to native stands) -/-/1B.1. INVASIVE STATUS: -/2/-/-	t	ep	Closed-cone-pine forest, oak woodland; Elevation: < 1300 m.	62	n/a	no	N/Y
PIN	<i>Pinus</i> sp.	pine	Reported (to genus) from Corona Hts. and McLaren Park; needs id.	t	ep	n/a	2	n/a	no	n/a
ORC	<i>Piperia elegans</i> ssp. <i>elegans</i>	coast rein orchid	[<i>Platanthera</i> e. ssp. <i>e.</i> , pending; <i>Habenaria</i> <i>e.</i> ; <i>H. greenii</i>] Recorded historically (1892, as full species) from Brotherhood Way, Golden Gate Park, Laguna Honda Valley, Land's End, Mt. Davidson, Pine Lake, the Presidio (Baker Beach, Ft. Point), Sunset Hts., and se. SF (Howell, <i>et al.</i> , CCH). Reported from Ft. Point. Also reported (as full species) from Bayview Hill, Bernal Hts. Park, Ft. Funston, Glen Cyn., Laguna Honda Valley, Land's End, Mt Davidson, O'Shaughnessy Hollow, the Presidio (Baker Beach, Baker Beach n., Ft. Point, Presidio Bluffs, Res. Cultural Plantation, sw. dunes, Washington/Armatury Housing WWII Memorial), and Twin Peaks (presumably <i>P.e.</i> ssp. <i>elegans</i>).	h	p	From tubers. Generally dry, open sites, scrub, conifer forest; Elevation: < 500 m.	17	May-Sep	no	Y/Y
ORC	<i>Piperia michaelii</i>	Michael's rein orchid	[<i>Platanthera</i> <i>m.</i> , pending] Recorded historically (1912) from Brotherhood Way (CCH); not included in Howell, <i>et al.</i> Reported from Brotherhood Way and Lake Merced. RARITY STATUS: -/-/4.2	h	p	From tubers. Generally dry sites, coastal scrub, woodland, mixed-evergreen or closed-cone-pine forest; Elevation: < 700 m.	2	Apr-Aug	CA	Y/Y
FAB	<i>Pisum sativum</i>	garden pea	Recorded historically (c. 1955) from Bayview Hills and Hunters Pt. (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	h	a	Naturalized. Often climbing. Disturbed areas; Elevation: < 1000 m.	0	Feb-May	no	N/N
PIT	<i>Pittosporum crassifolium</i>	thick-leaved pittosporum	Recorded historically (1957) from Golden Gate Park, Lone Mt., and the Presidio (above Baker Beach, Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	s-t	p	Naturalized. Disturbed areas; Elevation: < 200 m.	21	Nov-May	no	N/N
PIT	<i>Pittosporum eugenioides</i>	tarata	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Golden Gate Park, Sutro Forest, and Yerba Buena Is.; expected elsewhere.	t	p	Ornamental; not naturalized.	3	sp	no	N/N
PIT	<i>Pittosporum</i> sp.	pittosporum	Reported (to genus) from Bernal Hts. Park, Pine Lake, and Tank Hill; needs id.	s-t	p	n/a	3	n/a	no	N/N
PIT	<i>Pittosporum tenuifolium</i>	short-leaf box	Recorded historically (1954) from Golden Gate Park and McLaren Park (CCH); not included in Howell, <i>et al.</i> Reported from Billy Goat Hill, Golden Gate Park, Interior Greenbelt, the Presidio (Armistead Housing, Doyle Dr. Natural Area, Dragonfly Cr., Ft. Point, Mountain Lake), Sutro Forest, and Yerba Buena Is.; expected elsewhere.	t	p	Waif or garden escape; not naturalized. Disturbed areas; Elevation: 10-60 m.	10	Dec-May	no	N/N
PIT	<i>Pittosporum undulatum</i>	Victorian box	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Buena Vista Park, Golden Gate Park, Hawk Hill, Laguna Honda Valley, Ocean Beach, the Presidio (Doyle Dr. Natural Area, Dragonfly Cr., Ft. Point, Lobos Cr. Valley, Res. Cultural Plantation, Rob Hill), Sutro Forest, and Twin Peaks. INVASIVE STATUS: W/2/-/-	s-t	ep	Naturalized. Disturbed urban areas; Elevation: < 200 m.	13	Nov-Jun	no	N/N
BOR	<i>Plagiobothrys bracteatus</i>	bracted popcornflower	[<i>Allocharya bracteata</i>] Known from a single 1922 collection from Golden Gate Park (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1922.	h	a	Vernal pools, wet places in grassland, coastal-sage scrub, chaparral; Elevation: < 2000 m. WET: FACW	0	Apr-May	no	Y/Y

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BOR	<i>Plagiobothrys chorisianus</i> var.	artist's popcornflower	[<i>Allocarya chorisiana</i>] Recorded historically (1862, as full species) from Clarendon Hts., Golden Gate Park, Lake Merced, Mission Hills, Mt. Olympus, Potrero Dist., the Presidio (Lobos Cr. Valley), Twin Peaks, and Visitation Valley (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1921. SF is the type locality (holotype of <i>Eritrichium comatifolium</i>).	h	a	WET: OBL	0	Mar-Jun	CA	Y/Y
BOR	<i>Plagiobothrys chorisianus</i> var. <i>chorisianus</i>	Choris's popcornflower	[<i>Allocarya chorisiana</i>] Recorded historically (1902) from the Presidio (CCH); not included in Howell, <i>et al.</i> . Regarded as occurring in SF in CNPS Inventory. Extirpated; last collected in 1954. RARITY STATUS: —/—/1B.2	h	a	Grassy, moist places, ephemeral drainages, coastal scrub, chaparral; Elevation: < 650 m. WET: OBL	0	Mar-Jun	CA	Y/Y
BOR	<i>Plagiobothrys chorisianus</i> var. <i>hickmanii</i>	Hickman's popcornflower	[<i>Allocarya chorisiana</i> var. <i>h.</i>] Known from a single 1865 collection "near SF" (CCH); not included in Howell, <i>et al.</i> . Extirpated; last collected in 1865. RARITY STATUS: —/—/4.2	h	a	Moist places, vernal pools, sandy deposits over clay pans; Elevation: < 200 m. WET: OBL	0	Apr-Jun	CA	Y/Y
BOR	<i>Plagiobothrys diffusus</i>	San Francisco popcornflower	[<i>P. reticulatus</i> var. <i>rossianorum</i> , pending; <i>Allocarya diffusa</i>] Recorded historically (1886) from the Presidio (Mountain Lake, Presidio Hills; Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1933. Endemic to the SF Bay Area. SF is the type locality (holotype of <i>Allocarya diffusa</i>). RARITY STATUS: —/SE/1B.1	h	a	Moist places, seeps; Elevation: 30-150 m.	0	Mar-Jun	CA	Y/Y
BOR	<i>Plagiobothrys reticulatus</i> var. <i>rossianorum</i>	Fort Ross allocarya	[<i>P. scouleri</i> var. <i>pencilatus</i>] Known from a single 1887 collection from "SF" (CCH); not included in Howell, <i>et al.</i> . Extirpated; last collected in 1887.	h	a	Moist places in coastal grassland, beach deposits, mud flats; Elevation: < 800 m. WET: OBL	0	Apr-Jun	no	Y/Y
BOR	<i>Plagiobothrys scouleri</i>	Scouler's popcornflower	[<i>Allocarya californica</i>] Recorded historically (c. 1890) from Lake Merced and Mission Hills (Howell, <i>et al.</i>); there are no SF records in CCH. Not occurring in Cal. (JFP, 2021). Possibly misidentification of <i>P. bracteatus</i> or <i>P. diffusus</i> .	h	a	n/a	0	n/a	no	N/Y
BOR	<i>Plagiobothrys stipitatus</i> var.	stalked popcornflower	[<i>Allocarya stipitata</i>] Recorded historically (c. 1890, as full species) from Golden Gate Park, Lake Merced, and "SF" (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1890.	h	a	Vernal pools, wet sites in grassland; Elevation: < 400 m. WET: FACW	0	Mar-Jun	no	Y/Y
BOR	<i>Plagiobothrys torreyi</i> var. <i>diffusus</i>	Torrey's popcornflower	Recorded historically (1931) the Presidio (Mountain Lake, Presidio Hills; CCH); not included in Howell, <i>et al.</i> . Native Cal. taxon but not considered indigenous here; historic SF occs. represent an extreme range extension. There are no contemporary reports from SF.	h	a	Moist to dry meadows, flats, forest edges; Elevation: 1200-3400 m.	0	Mar-Jun	no	N/Y
PTG	<i>Plantago arenaria</i>	Indian plantain	[<i>P. indica</i>] Recorded historically (1935) from Lake Merced (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h	a	Naturalized. Sandy disturbed areas; Elevation: < 200 m. WET: UPL	0	Jul-Nov	no	N/N
PTG	<u><i>Plantago coronopus</i></u>	cut-leaf plantain	Recorded historically (1948) from the Embarcadero, Golden Gate Park, near Islais Cr., SFSU, Mission Bay, and the Mission Dist. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a-b	Naturalized. Coastal bluffs, salt marshes, weedy trampled places, chaparral, grassy flats; Elevation: < 300 m. WET: FAC	37	Apr-Jul	no	N/N
PTG	<i>Plantago elongata</i>	annual coastal plantain	[<i>P. bigelovii</i>] Recorded historically (1952) from Land's End (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Crissy Bluffs, Doyle Dr. Natural Area, Presidio Bluffs, sw. dunes). Host plant for the Variable Checkerspot butterfly.	h	a	Saline, alkaline places, beaches, vernal pools; Elevation: < 200 m. WET: FACW	4	Apr-Jun	no	Y/Y
PTG	<u><i>Plantago erecta</i></u>	Cal. dwarf plantain	Recorded historically (1892) from Bayview Hills, Bernal Hts., Corona Hts., Golden Gate Park, Hunters Pt., Laguna Honda Valley, Lake Merced, Laurel Hill Cemetery, Lone Mt., McLaren Park, Mt. Davidson, Pine Lake, Potrero Hills, the Presidio (Baker Beach, Ft. Point, Presidio Hills), Richmond Dist. dunes, San Miguel Hills, Sunset Dist. dunes, Sutro Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. SF is the type locality (neotype of <i>P.e.</i>)	h	a	Sandy, clay, or serpentine substrates, grassy slopes, flats, open woodland; Elevation: < 700 m. SERP: 1.0	34	Mar-May	no	Y/Y
PTG	<i>Plantago eriopoda</i>	redwool plantain	Known from a single 1882 collection from "SF" (CCH); not included in Howell, <i>et al.</i> . Native Cal. taxon but not considered indigenous here; SF occ. represents an extreme range extension. There are no contemporary reports from SF.	h	p	From a stout caudex. Moist, alkaline places; Elevation: < 1000 m. WET: FACW	0	Jun	no	N/Y
PTG	<u><i>Plantago lanceolata</i></u>	lance-leaf English plantain	Recorded historically (1882) from Bayview Hills, the Embarcadero, Golden Gate Park, Hunters Pt. Ridge, Laguna Honda Valley, Lake Merced, Land's End, Lone Mt., the Marina Dist., Mt. Davidson, Nob Hill, the Presidio (Baker Beach, Doyle Dr.), the Richmond Dist., Russian Hill, San Miguel Hills, Sunset Dist. dunes, Twin Peaks, and Visitation Valley (Howell, <i>et al.</i> , CCH, Eastwood [1898]). Reported from throughout the city and the Presidio. INVASIVE STATUS: L/2/—/—	h	p	Naturalized. Disturbed areas; Elevation: < 1600 m. WET: FAC	78	Apr-Aug	no	N/N
PTG	<u><i>Plantago major</i></u>	common Eurasian plantain	Recorded historically (1882) from Ft. Mason, Golden Gate Park, Laguna Honda Valley, Lake Merced, the Marina Dist., McLaren Park, Mt. Davidson, Nob Hill, Pine Lake, the Presidio (Mountain Lake), the Richmond Dist., San Miguel Hills, and Telegraph Hill (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	p	Naturalized. Disturbed areas; Elevation: < 2200 m. WET: FAC	27	Apr-Sep	no	N/N
PTG	<i>Plantago maritima</i>	seaside plantain	[<i>P.m.</i> var. <i>californica</i> ; <i>P.m.</i> var. <i>juncooides</i> ; <i>P. juncooides</i> var. <i>californica</i>] Recorded historically (1887) from Cliff House, Ft. Funston, Land's End, the Presidio (Lobos Cr. Valley, Ft. Point, Presidio Bluffs), and Sutro Hts. (Howell, <i>et al.</i> , CCH). Reported from China Beach, Cliff House, Ft. Funston, Heron's Head Park, Land's End, Ocean Beach, Pier 94, the Presidio (Baker Beach, Crissy Field, Ft. Point, Ft. Scott, Lobos Cr. Valley, Presidio Bluffs, Washington/Armatory Housing), the Sea Cliff Dist., and Sutro Baths.	h	p	From a stout caudex. Coastal bluffs, wet, saline places; Elevation: < 150 m. WET: FACW	15	May-Sep	no	Y/Y

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PTG	<u><i>Plantago submda</i></u>	coastal large-leaf plantain	[<i>P. hirtella</i> var. <i>galottiana</i>] Recorded historically (1904) from Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End, Oceanview, the Presidio (Ft. Point), San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from China Beach, Glen Cyn., Pine Lake, the Presidio (Ft. Point, Ft. Scott, Mountain Lake, Presidio Bluffs, sw. dunes, Tennessee Hollow, WWII Memorial), and SFSU.	h	p	From a stout caudex. Wet meadows, ditches, coastal bluffs, marshes; Elevation: < 300 m. WET: FACW	11	May-Sep	no	Y/Y
ORC	<i>Platanthera dilatata</i> var. <i>leucostachys</i>	tall white rein-orchid	[<i>Elabenaria leucostachys</i> ; <i>P.I.</i>] Recorded historically (c. 1890) from Visitación Bay, near St. Mary's College (Howell, <i>et al.</i>); there are no SF records in CCH. SF lies outside of the species' bioregion and there are no records from the Central Coast; its status as an indigenous species is questionable. There are no contemporary reports from SF.	h	p	From an elongated tuber-like rhizome. Wet, generally open places, meadows, seeps, stream-banks; Elevation: < 3400 m.	0	May-Sep	no	?/Y
PLT	<i>Platanus racemosa</i>	Cal. sycamore	Recorded historically (1837) from a single collection from "SF" (CCH); not included in Howell, <i>et al.</i> Although SF lies within the species' bioregion, its status as an indigenous species here is questionable. Reported from Candlestick Pt., Glen Cyn., and Golden Gate Park; presumably planted.	t	dp	Stream-sides, canyons, arroyos; Elevation: < 2000 m. WET: FAC	3	Feb-Apr	no	?/Y
PAP	<u><i>Platystemon californicus</i></u>	cream cups	Recorded historically (1865) from Brotherhood Way, Golden Gate Park, Ingleside, Lake Merced, Mission Hills, Oceanview, Potrero Hills, the Presidio (Golf Course), and Twin Peaks (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1957. SF is the type locality (holotype of <i>P. communis</i>).	h	a	Open grassland, sandy soil, burns; Elevation: < 1000 m. SERP: 1.7	0	Feb-May	no	Y/Y
AST	<i>Plectostachys serpyllifolia</i>	petite-licorice	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Golf Course Natural Area, Mountain Lake, Tennessee Hollow). INVASIVE STATUS: W/-/-/-	ss	p	Naturalized. Sea bluffs, grassy areas, coastal wetlands, strand, saline or alkaline soils, escaped from cultivation; Elevation: < 350 m.	3	Feb-Jun	no	N/N
VAL	<i>Plectritis congesta</i> ssp. <i>brachystemon</i>	shortspur seablush	[<i>P. aphanoptera</i>] Known from a single 1936 collection from Lake Merced (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1936.	h	a	Coastal bluffs, open, partly shaded slopes; Elevation: < 1900 m. WET: FACU	0	Mar-Jun	no	Y/Y
VAL	<i>Plectritis macrocera</i>	longhorn plectritis	Recorded historically (1890) from Brotherhood Way and Mission Hills (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1890.	h	a	Open, partly shaded slopes; Elevation: < 2000 m. WET: FACU	0	Mar-May	no	Y/Y
POA	<i>Pleuropogon californicus</i> var.	annual semaphore grass	Recorded historically (1866, as full species) from a single collection from the Mission Dist. (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1866. Presumably <i>P.c.</i> var. <i>c.</i>	h	a	Wet places, vernal pools, wet grassland; Elevation: < 650 m. WET: OBL	0	Mar-Jun	CA	Y/Y
POA	<u><i>Poa annua</i></u>	annual bluegrass	Recorded historically (1932) from SF (Howell, <i>et al.</i> , CCH). Ubiquitous.	g	a-b	Naturalized. Disturbed moist ground; Elevation: generally < 2000 m. WET: FAC	44	Feb-Sep	no	N/N
POA	<u><i>Poa compressa</i></u>	Canada bluegrass	Recorded historically (1954) from Golden Gate Park (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF; to be expected.	g	p	Naturalized. From long, stout rhizomes. Moist, often disturbed low ground; Elevation: < 1800 m.	0	Apr-May	no	N/N
POA	<u><i>Poa douglasii</i></u>	Douglas' or maritime bluegrass	Recorded historically (1862) from Cliff House, Forest Hill, Lake Merced, Land's End (Pt. Lobos), Lone Mt., Mission Hills, Oceanview, the Presidio, the Richmond Dist., and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, Grandview Park, Hawk Hill, Lake Merced, the Presidio (Baker Beach, Baker Beach n., Battery Dynamite, Crissy Field, Presidio Hills, sw. dunes), and Rocky Outcrop; reintroduced at Balboa Natural Area.	g	p	From long rhizomes or stolons. Coastal dunes; Elevation: generally < 100 m. WET: FACU	12	Mar-Jul	CA	Y/Y
POA	<i>Poa fendleriana</i> ssp. <i>longiligula</i>	Fendler's bluegrass	Known from a single 1886 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Native Cal. taxon but not considered indigenous here; SF occ. represents an extreme range extension. There are no contemporary reports from SF.	g	p	Densely caespitose, generally with short rhizomes. Slopes, sagebrush scrub to subalpine; Elevation: 2000-3200 m.	0	Feb-Mar	no	N/Y
POA	<i>Poa howellii</i>	Howell's bluegrass	Known from two 1868 collections from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1932.	g	a	Cespitose. Rocky banks, shaded slopes of woodland, chaparral, disturbed places; Elevation: generally < 1700 m.	0	Apr-Jun	no	Y/Y
POA	<u><i>Poa nemoralis</i></u>	wood bluegrass	Recorded historically (1922) from Golden Gate Park (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF; to be expected.	g	p	Naturalized. Cespitose. Disturbed moist places in forest, rocks near streams; Elevation: generally < 2000 m. WET: FAC	0	May-Jun	no	N/N
POA	<i>Poa pratensis</i> ssp. <i>pratensis</i>	Kentucky bluegrass	Recorded historically (1882) from the Embarcadero, Golden Gate Park, near Islais Cr., Lake Merced, Lone Mt., the Presidio, the Richmond Dist. and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from the Bernal Hts. Dist., Golden Gate Park, the Presidio (Ft. Scott), and the Sunset Dist.; expected elsewhere. INVASIVE STATUS: L/-/-/-	g	p	Naturalized. From multiple, long, stout rhizomes, tufted or loosely caespitose. Disturbed habitats, including saline or alkaline soils; Elevation: < 3500 m. WET: FAC	3	Mar-Jul	no	N/N
POA	<i>Poa secunda</i> ssp. <i>secunda</i>	one-sided bluegrass	[<i>P. sabrella</i>] Recorded historically (1865) from Corona Hts., Duncan-Castro Open Space, Ft. Funston, Hunters Pt. Ridge, Lake Merced, the Presidio, and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Corona Hts., Duncan-Castro, Ft. Funston, Hunters Pt., the Presidio (Inspiration Pt., Tennessee Hollow) and Yerba Buena Is.	g	p	Densely caespitose. Dry slopes to saline/alkaline meadows to alpine; Elevation: < 3900 m. WET: FACU	7	Mar-Aug	no	Y/Y
POA	<i>Poa</i> sp.	bluegrass	Reported (to genus) from Twin Peaks; needs id.	g	a-p	n/a	1	n/a	no	n/a
POA	<u><i>Poa trivialis</i></u>	rough bluegrass	Recorded historically (1922) from the Golden Gate Park, near Lake Merced, and Pacific Hts. (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF; to be expected.	g	p	Naturalized. Cespitose or with short stolons. Disturbed moist places; Elevation: < 700 m. WET: FACW	0	Feb-Mar	no	N/N

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POA	<u><i>Poa unilateralis</i></u> ssp. <i>unilateralis</i>	San Francisco bluegrass	Recorded historically (1880) from Bayview Hills, Bernal Hts., Corona Hts., Forest Hill, Golden Gate Hts., Hunters Pt., Lake Merced, Lakeview/Ashton Mini Park, McLaren Park, Mt. Davidson, Potrero Hills, the Presidio, San Miguel Hills, Sunset Dist. dunes, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, Billy Goat Hill, Brooks Park, Corona Hts., Duncan-Castro Open Space, Glen Cyn., Grandview Park, Hawk Hill, Mt. Davidson, O'Shaughnessy Hollow, Palou-Phelps, the Presidio (Doyle Dr. Natural Area, Presidio Bluffs), Rocky Outcrop, Tank Hill, and Twin Peaks. SF is the type locality (isotype of <i>P.u.</i>)	g	p	Densely cespitose. Coastal bluffs, in more-or-less saline soils; Elevation: < 410 m. WET: FACU	17	Mar-Jun	no	Y/Y
LAM	<i>Pogogyne douglasii</i> ssp. <i>parviflora</i>	Douglas' mesa-mint	[Unresolved variant of <i>P.d.</i>] Known from a single 1876 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1876.	h	a	Meadows, freshwater-marsh, vernal-pools. WET: OBL	0	Apr-Jul	CA	Y/Y
LAM	<i>Pogogyne serpylloides</i>	thyme-leaf mesa-mint	Known from a single 1817 collection from Lone Mt. (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1817.	h	a	Grassy, brushy areas; Elevation: < 1200 m. WET: FACW	0	Mar-May	CA	Y/Y
PLM	<i>Polemonium carneum</i>	Oregon polemonium	Recorded from the San Francisco North USGS quadrangle, which includes SF and Marin cos. (CNPS, 2021). However, the species is not included in Howell, <i>et al.</i> and there are no SF records in CCH. Known from San Mateo and Marin cos.; presumed indigenous here. Extirpated. RARITY STATUS: -/-2B.2	h	p	Rhizomatous. Moist to dry, open areas; Elevation: < 1800 m.	0	Apr-Sep	no	Y/Y
CRY	<u><i>Polycarpon tetraphyllum</i></u> var.	four-leaved alseed	Recorded historically (1935, as full species) from Bayview Hills, the Embarcadero, Golden Gate Park, Lake Merced, Land's End, Lone Mt., Pacific Hts., the Presidio (Mountain Lake), Russian Hill, San Miguel Hills, and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported (as full species) from throughout the city and the Presidio; presumably <i>P.t.</i> var. <i>tetraphyllum</i> .	h	a	Naturalized. Disturbed shaded areas, road-sides; Elevation: < 450 m, 1180 m.	36	sp-fall	no	N/N
PGL	<i>Polygala californica</i>	Cal. milkwort	[<i>Rhinotropis c.</i> , pending] Known from a single 1932 collection (to genus only) from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> SF lies within the species' bioregion; presumed indigenous to SF based on its occ. on the SF Peninsula and the historical availability of suitable habitat. Reported from Billy Goat Hill, the Presidio (Oak Study Area), and Rocky Outcrop.	h	p	Rhizomatous. Coastal prairie and forest, chaparral, occasionally on serpentine; Elevation: 10-1400 m.	4	Apr-Jul	no	Y/Y
PLG	<u><i>Polygonum argyrocoleum</i></u>	Persian knotweed	Recorded from near Islais Cr. (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h	a	Naturalized. Disturbed places, often in saline soils; Elevation: < 1000 m. WET: FAC	0	Jun-Oct	no	N/N
PLG	<u><i>Polygonum aviculare</i></u> ssp.	prostrate knotweed	[<i>P. arenastrum</i>] Recorded historically (1937, as full species) from Bayview Hills, the Embarcadero, Islais Cr., Lake Merced, Land's End, Nob Hill, and the Presidio (Howell, <i>et al.</i> , CCH). Reported (as full species) from Ft. Funston, Golden Gate Park, Interior Greenbelt, McLaren Park, the Presidio (Crissy Bluffs, Presidio Bluffs, sw. dunes, Tennessee Hollow, SOMA, the Sunset Dist., and Yerba Buena Is.; needs id.	h	a-p	WET: FAC	9	Jun-Dec	no	N/N
PLG	<i>Polygonum aviculare</i> ssp. <i>aviculare</i>	prostrate knotweed	Recorded historically (1956) from Hunters Pt., near Islais Cr., Laguna Honda Valley, Lake Merced, the Marina Dist. (Yacht Harbor), the Richmond Dist., the Sunset Dist., and Sutro Hts. (CCH); not included in Howell, <i>et al.</i> There are numerous non-specific reports from SF; needs id.	h	a-p	Naturalized. Disturbed places, road-sides, cultivated fields; Elevation: < 2000 m. WET: FAC	0	Jun-Dec	no	N/N
PLG	<i>Polygonum aviculare</i> ssp. <i>depressum</i>	prostrate knotweed	[<i>P. arenastrum</i>] Recorded historically (1937) from Golden Gate Park, Lone Mt. and the Presidio (CCH); not included in Howell, <i>et al.</i> Reported from Bernal Hts. Park, Glen Cyn., Kite Hill, Land's End, Pier 94, the Presidio (Baker Beach, Doyle Dr. Natural Area, Dragonfly Cr., Golf Course Natural Area, Inspiration Pt., Mountain Lake, Presidio Hills, sw. dunes, Tennessee Hollow, WWII Memorial), and Starr King; expected elsewhere. Needs id.	h	a-p	Naturalized. Mat-forming. Disturbed places; Elevation: < 2000 m. WET: FAC	16	May-Dec	no	N/N
PLG	<i>Polygonum aviculare</i> ssp. <i>neglectum</i>	prostrate knotweed	[<i>P. arenastrum</i>] Recorded historically (1957) from near Islais Cr. (CCH); not included in Howell, <i>et al.</i> There are numerous non-specific reports from SF; needs id.	h	a-p	Naturalized. Disturbed places; Elevation: < 1500 m. WET: FAC	0	Jun-Dec	no	N/N
PLG	<i>Polygonum californicum</i>	Cal. knotweed	Known from a single 1900 collection from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> Native Cal. taxon but not considered indigenous here; SF occ. represents a range extension. There are no contemporary reports from SF.	h	a	Open places (including serpentine); Elevation: 40-1200 m.	0	Mar-Oct	no	N/Y
PLG	<u><i>Polygonum paronychia</i></u>	dune knotweed	Recorded historically (1837) from Cliff House, Forest Hill, Ft. Funston, Lake Merced, Land's End, Lone Mt., Laurel Hill Cemetery, Ocean Beach, the Presidio (Baker Beach), Rocky Outcrop, and Sutro Hts. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h-s	p	Coastal dunes, scrub; Elevation: < 50 m.	28	Mar-Sep	no	Y/Y
PLG	<i>Polygonum ramosissimum</i> ssp.	bushy knotweed	Known (1837, as full species) from a single collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1937. Presumably <i>P.r.</i> ssp. <i>r.</i>	h	a	Disturbed places, saline marshes; Elevation: < 200 m. WET: FAC	0	Jul-Sep	no	Y/Y
PLG	<i>Polygonum</i> sp.	knotweed	Reported (to genus) from Lake Merced, McLaren Park, and Twin Peaks; needs id.	h-s	a-p	n/a	3	n/a	no	n/a
PLP	<u><i>Polypodium californicum</i></u>	Cal. polypody	[incl. <i>P.c.</i> var. <i>kaufussii</i>] Recorded historically (1816) from Bayview Hills, Bernal Hts., Brotherhood Way, Cliff House, Glen Cyn., Golden Gate Hts., Golden Gate Park, Hunters Pt. Ridge, Interior Greenbelt, Lake Merced, Land's End, Lone Mt., McLaren Park, the Presidio (above Baker Beach, Ft. Point), Russian Hill, San Miguel Hills, Telegraph Hill, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	f	p	Rhizomatous. Shaded canyons, stream-banks, n-facing slopes, road-cuts, cliffs, coastal bluffs, rocks, often granitic or volcanic, humus, not on plants; Elevation: < 1520 m.	55	n/a	no	Y/Y
PLP	<i>Polypodium calirhiza</i>	nested polypody	Recorded historically (1883) from Bayview Hills, Brotherhood Way, Cliff House, Lone Mt., Mission Hills, Mt. Olympus, and the Presidio (Golf Course; CCH); not included in Howell, <i>et al.</i> Reported from the Presidio (Golf Course Natural Area, Presidio Bluffs, Res. Cultural Area) and Sutro Forest. Potentially overlooked. SF is the type locality (holotype of <i>P. intermedium</i>).	f	p	Rhizomatous. Epiphytic, rocky cliffs or outcrops, road-cuts, often granitic or volcanic, rarely dunes; Elevation: < 1400 m.	4	n/a	no	Y/Y

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PLP	<i>Polypodium glycyrrhiza</i>	sweet-licorice fern	Recorded historically (1956) from McLaren Park and San Miguel Hills (CCH); not included in Howell, <i>et al.</i> Reported from Suto Forest.	f	p	Rhizomatous. Generally near coast. Epiphytic, on rocks, moist rocky banks, mossy logs; Elevation: < 600(1200) m.	1	n/a	no	Y/Y
PLP	<i>Polypodium scolari</i>	leather-leaved polypody	Recorded historically (1879) from Bayview Hills, Clarendon Hts., Golden Gate Hts., Golden Gate Park, McLaren Park, Mt. Davidson, Mt. Suto, the Presidio Golf Course, O'Shaughnessy Hollow, San Miguel Hills, Sunset Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Alcatraz, Brooks Park, Clarendon Hts., Edgehill Mt., Glen Cyn, Golden Gate Hts., Golden Gate Park, Grandview Park, Interior Greenbelt, Laguna Honda Valley, Land's End, the Mission Dist., Mt. Davidson, O'Shaughnessy Hollow, Rocky Outcrop, the Presidio (Baker Beach, Ft. Point, Golf Course Natural Area, Rob Hill, sw. dunes, WWII Memorial), the Richmond Dist., SFSU, the Sunset Dist., Suto Forest, Tank Hill, and Twin Peaks.	f	p	Rhizomatous. Coast, generally in heavy fog-drip or salt-spray zones, Epiphytic (especially Douglas fir, Eucalyptus), dunes, rocky cliffs, bluffs, mountain ridges, granitic or volcanic rocks, mossy logs, or in soil; Elevation: < 600 m.	24	n/a	no	Y/Y
POA	<i>Polypogon interruptus</i>	ditch beard-grass	Recorded historically (1868) from the Embarcadero, Laguna Honda Valley, Lake Merced, Land's End, Lone Mt., McLaren Park, Nob Hill, Pine Lake, the Presidio (Pt. Point, Mountain Lake, Presidio Bluffs), Russian Hill, San Miguel Hills, Suto Forest, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bernal Hts. Park, Golden Gate Park, and the Presidio (Crissy Bluffs, Crissy Field, Ft. Point, Lobos Cr. Valley, Mountain Lake, Presidio Hills, Tennessee Hollow, WWII Memorial); expected elsewhere.	g	p	Naturalized. stream-banks; Elevation: < 1300 m. WET: FACW	10	May-Aug	no	N/N
POA	<i>Polypogon maritimus</i>	Mediterranean beard-grass	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Crissy Bluffs, Doyle Dr. Natural Area, Dragonfly Cr., Lobos Cr. Valley, Presidio Bluffs) and Suto Baths.	g	a	Naturalized. Moist places; Elevation: < 600 m. WET: OBL	6	Jun	no	N/N
POA	<i>Polypogon monspeliensis</i>	annual rabbitsfoot grass	Recorded historically (1865) from Bayview Hills, Brotherhood Way, the Embarcadero, Glen Cyn, Golden Gate Park, near Islais Cr., Laguna Honda Valley, Lake Merced, Land's End, Lone Mt., Mt. Davidson, Ocean Beach, the Presidio, San Miguel Hills, and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: L/-/-/-	g	a	Naturalized. Moist places, along streams; Elevation: < 2100 m. WET: FACW	24	Apr-Aug	no	N/N
POA	<i>Polypogon viridis</i>	water beard-grass	[<i>Agrostis semiarticulata</i> : <i>Agrostis v.</i>] Recorded historically (1866) from the Embarcadero, Golden Gate Park (Lily Pond), Laguna Honda Valley, Lone Mt., McLaren Park, Oceanview, O'Shaughnessy Hollow, Potrero Hill, the Presidio (Pt. Point), Russian Hill, and Suto Forest (Howell, <i>et al.</i> , CCH). Reported from Alcatraz, Glen Cyn., the Presidio (Crissy Bluffs, Crissy Field, Doyle Dr. Natural Area, Dragonfly Cr., Ft. Point, Lobos Cr. Valley, Mountain Lake, WWII Memorial), and Yerba Buena Is.	g	p	Naturalized. Disturbed areas, wet areas, ponds, stream-banks; Elevation: < 3000 m. WET: FACW	11	May-Jun	no	N/N
DRY	<i>Polystichum dudleyi</i>	Dudley's sword-fern	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. SF lies within the species' bioregion; presumed indigenous to SF due to its presence on the SF Peninsula and Marin and the historic availability of suitable habitat. Reported from Corona Hts.; needs confirmation. Voucher specimen needed.	f	p	Rhizomatous. Moist forests; Elevation: < 500 m.	1	n/a	no	Y/Y
DRY	<i>Polystichum munitum</i>	western sword-fern	Recorded historically (1884) from Bayview Hills, Brotherhood Way, Golden Gate Hts., Golden Gate Park, Lake Merced, Land's End (Pt. Lobos), Lone Mt., Mt. Davidson, the Presidio (Pt. Point, Golf Course), San Miguel Hills, Telegraph Hill, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	f	p	Rhizomatous. Wooded hillsides, shaded slopes, rarely cliffs, outcrops; Elevation: < 1600 m. WET: FACU	56	n/a	no	Y/Y
SAL	<i>Populus fremontii</i> ssp. <i>fremontii</i>	Fremont's cottonwood	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Not regarded as indigenous to SF. Reported from Buena Vista Park where it was presumably planted.	t	dp	Alluvial bottomland, stream-sides; Elevation: < 2000 m.	1	Mar-Apr	no	N/Y
SAL	<i>Populus nigra</i>	Italian or Lombardy poplar	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Hunters Pt., Lake Merced and Yerba Buena Is.; presumably planted.	t	dp	Naturalized. Disturbed places near settlements; Elevation: 600-1800 m.	3	Feb-Mar	no	N/N
SAL	<i>Populus</i> sp.	poplar	Reported (to genus) from Bernal Hts. Park and Buena Vista Park; needs id.	t	dp	n/a	2	n/a	no	n/a
SAL	<i>Populus tremuloides</i>	American quaking aspen	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Not regarded as indigenous to SF. Reported from Yerba Buena Is. where it was presumably planted.	t	dp	Highly clonal. Stream-sides, moist openings, slopes in montane, subalpine forest, woodland, sagebrush steppe; Elevation: 900-3150 m. WET: FACU	1	Apr-May	no	N/Y
POR	<i>Portulaca oleracea</i>	common purslane	Recorded historically (1952) from the Embarcadero, Golden Gate Park, Lake Merced, Mission Bay, Russian Hill (Howell, <i>et al.</i> , CCH). Reported from Mission Bay, Pacific Hts., the Presidio (Main Post, Tennessee Hollow), and several urban gardens; expected elsewhere.	h	a	Naturalized. Spreading, prostrate. Disturbed soil; Elevation: < 2100 m. WET: FAC	3	Apr-Oct	no	N/N
POT	<i>Potamogeton alpinus</i>	alpine pondweed	Known from a single 1894 collection from the Presidio (Mountain Lake; CCH); not included in Howell, <i>et al.</i> Native Cal. taxon but not considered indigenous here; SF occ. represents an extreme range extension. There are no contemporary reports from SF.	h	p	Aquatic, rhizomatous. Ponds, lakes, marshes; Elevation: 1300-2350 m. WET: OBL	0	Jul-Sep	no	N/Y
POT	<i>Potamogeton crispus</i>	cut-leaved pondweed	Recorded historically (1954) from Pine Lake (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF. INVASIVE STATUS: M/-/-/-	h	p	Naturalized. Aquatic. Shallow water, ponds, streams; Elevation: < 2100 m. WET: OBL	0	Apr-May	no	N/N
POT	<i>Potamogeton foliosus</i> ssp.	leafy pondweed	Recorded historically (c. 1890, as full species) from Golden Gate Park and "SF" (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1957. Presumably <i>P.f.</i> ssp. <i>f.</i>	h	p	Aquatic, rhizomatous. Ponds, lakes, streams; Elevation: < 2300 m. WET: OBL	0	May-Jun	no	Y/Y
POT	<i>Potamogeton illimensis</i>	shining pondweed	Recorded historically (1893) from Ingleside, Lake Merced, Mission Dolores, and the Presidio (Mountain Lake; Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1920. Not likely indigenous to SF.	h	p	Aquatic, rhizomatous. Lakes, ponds, streams; Elevation: 400-2350 m. WET: OBL	0	Jun-Aug	no	N/Y

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FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon Underlined = nomenclature used in Howell (†) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonymy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFW / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ^g	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC SF/Bay Area/CA	NATIVE - SF / CA
POT	<i>Potamogeton natans</i>	floating pondweed	Recorded historically (1888) from the Presidio (Marine Hospital); not included in Howell, <i>et al.</i> and there are no SF records in CCH. There are no contemporary reports from SF.	h	p	Aquatic, rhizomatous. Shallow, fresh or brackish water, lakes, ponds, bogs, marshes, lagoons, streams; Elevation: < 2700 m. WET: OBL	0	Jul-Aug	no	Y/Y
POT	<i>Potamogeton nodosus</i>	long-leaf pondweed	Known from a single collection (c. 1816) at the Presidio (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1816.	h	p	Aquatic, rhizomatous. Shallow water, lakes, ponds, streams; Elevation: 100-2750 m. WET: OBL	0	Jul-Aug	no	Y/Y
POT	<i>Potamogeton pusillus</i>	small pondweed	[<i>P.p.</i> var. <i>minor</i>] Recorded historically (c. 1890) from Golden Gate Park (Quarry Lake/Lily Pond) and the Presidio (Mountain Lake; Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1957.	h	p	Aquatic, rhizomatous. Shallow water, ponds, lakes, vernal pools, slow streams; Elevation: < 2700 m. WET: OBL	0	May-Jun	no	Y/Y
POT	<i>Potamogeton</i> sp.	pondweed	Reported (to genus) from Sutro Baths (J. Sigg, 1993); needs id. Howell, <i>et al.</i> lists <i>P. crispus</i> , <i>P. foliosus</i> , <i>P. illinoensis</i> , <i>P. nodosus</i> , <i>P. pusillus</i> and <i>Stuckenia pectinata</i> (<i>P. pectinatus</i>).	h	p	n/a	1	n/a	no	n/a
ROS	<i>Potentilla anglica</i>	english cinquefoil	Recorded historically (1947) from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> Reported from Golden Gate Park.	h	p	Naturalized. Tufted from stolons. Stream-banks; Elevation: 40-160 m.	1	May-Sep	no	N/N
ROS	<i>Potentilla anserina</i> ssp. <i>pacifica</i>	common silverweed	[<i>Argentina anserina</i> , pending <i>P. egedii</i> var. <i>grandis</i>] Recorded historically (1891) from Alemany Blvd., Brotherhood Way, Golden Gate Park, Lake Merced, Lone Mt., McLaren Park, Pine Lake, the Presidio (Pt. Point, Mountain Lake), San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Cliff House, Glen Cyn., Golden Gate Park (Mallard Lake, misc.), Land's End, the Presidio (Crissy Field, Doyle Dr. Natural Area, Dragonfly Cr., Ft. Point, Ft. Scott, Golf Course Natural Area, Inspiration Pt., Lover's Lane, Mountain Lake, Presidio Hills, Tennessee Hollow, WWII Memorial), and Sutro Baths.	h	p	Tufted, from stolons. Coastal wetlands, often brackish; Elevation: generally < 150 m. WET: OBL	18	Mar-Oct	no	Y/Y
ROS	<i>Potentilla recta</i>	sulphur cinquefoil	Recorded historically (c. 1953) from SFSU (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Golden Gate Park (Strawberry Hill, misc.), Hayes Valley, the Mission Dist., and Sunnyside. INVASIVE STATUS: -/-/NW/-	h	p	Naturalized. Tufted. Generally disturbed areas; Elevation: 150-1500 m.	2	May-Aug	no	N/N
ROS	<i>Potentilla rivalis</i>	brook cinquefoil	[<i>P.r.</i> var. <i>millegrana</i> ; <i>P. millegrana</i>] Recorded historically (1892) from Golden Gate Park (Chain-of-Lakes), Lake Merced, and Pine Lake (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Mountain Lake). SF is the type locality (possible type of <i>P.r.</i>)	h	a-b	Moist, more-or-less disturbed areas; Elevation: 40-2100 m. WET: FACW	1	Mar-Nov	no	Y/Y
ROS	<i>Poterium sanguisorba</i>	small burnet	[<i>Sanguisorba minor</i>] Recorded historically (1930) from "SF" (Howell, <i>et al.</i> , CCH). Reported from the Sunset Dist.	h	p	Naturalized. Tufted. Open, especially disturbed areas; Elevation: 22-1830 m. WET: FACU	0	Mar-Jul	no	N/N
PRM	<i>Primula clevelandii</i> var. <i>patula</i>	Cleveland's shooting star	[<i>Dodecatheon c. ssp. patulum</i>] Recorded historically (1893) from Bernal Hts., Land's End (Pt. Lobos), and McLaren Park (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, and Hunters Pt. Ridge. SF is the type locality and the northernmost station on the coast.	h	p	Moist places, often on serpentine or in more-or-less alkaline sites; Elevation: generally < 600 m. SERP: 3.0	3	Mar-May	CA	Y/Y
PRM	<i>Primula hendersonii</i>	Pacific shooting star	[<i>Dodecatheon h. ssp. cruciatum</i>] Recorded historically (1888) from Mt. Davidson, Potrero Hills, and se. SF (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, Billy Goat Hill, McLaren Park, Mt. Davidson, the Presidio (Presidio Bluffs), and Twin Peaks.	h	p	Generally in shady sites; Elevation: < 1900 m.	7	Mar-Jul	no	Y/Y
LIL	<i>Prosartes hookeri</i>	Hooker's fairy bells	[<i>Disporum h.</i>] Recorded historically (1880) from the hills s. of Golden Gate Park, Mt. Sutro (Howell, <i>et al.</i> , CCH). Reported from Mt. Davidson and Sutro Forest/Interior Greenbelt where it reportedly is well established.	h	p	Rhizomatous. Montane conifer, mixed-evergreen forest, exposed road-sides; Elevation: < 1600 m.	3	Mar-Jun	no	Y/Y
LAM	<i>Prunella vulgaris</i> var. <i>lancoolata</i>	lance-leaf self-heal	Recorded historically (1866) from Mt. Davidson, Potrero Hills, and the Presidio (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Crissy Field, Inspiration Pt., Presidio Bluffs), and Yerba Buena Is.	h	p	Moist areas, generally conifer forest, woodland; Elevation: < 2500 m. WET: FACU	4	May-Sep	no	Y/Y
LAM	<i>Prunella vulgaris</i> var. <i>vulgaris</i>	common self-heal	[<i>P.v.</i> var. <i>parviflora</i> ; <i>P.v.</i> var. <i>atropurpurea</i>] Recorded historically (1941) from Golden Gate Park, Land's End (Pt. Lobos), the Presidio (Pt. Point, Presidio Bluffs), St. Mary's Hospital and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from Crocker-Amazon Natural Area, Glen Cyn., Golden Gate Park, Ingleside, Land's End (Lincoln Park), Laurel Hts., McLaren Park, O'Shaughnessy Hollow, the Presidio (Crissy Field, Ft. Scott, Lyon St. Plantation, Officer's Row, Tennessee Hollow, Washington/Armaturey Housing WWII Memorial), and SFSU; expected elsewhere.	h	p	Naturalized. Moist, disturbed sites; Elevation: < 2500 m. WET: FACU	14	Jul-Aug	no	N/N
ROS	<i>Prunus cerasifera</i>	wild or cherry plum	Recorded historically (1962) from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> Reported from throughout the city and the Presidio. INVASIVE STATUS: L/-/-/-	t	dp	Naturalized. Road-sides, stream-banks, chaparral as waif; Elevation: < 1000 m.	19	May-Apr	no	N/N
ROS	<i>Prunus dulcis</i>	almond	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from the Mission Dist.	t	dp	Naturalized. Canyons, roadsides, grassland (as waif); Elevation: < 500 m.	0	Feb-May	no	N/N
ROS	<i>Prunus emarginata</i>	western bitter-cherry	Recorded historically (1921) from Glen Cyn. and Golden Gate Park (CCH); not included in Howell, <i>et al.</i> SF lies within the species bioregion. Presumed indigenous to SF based on records from SF Peninsula and Marin Co. Reported from Bayview Hill, Brooks Park, and Glen Cyn.	s-t	dp	Rocky slopes, canyons, chaparral, mixed-evergreen or conifer forest; Elevation: < 3000 m. WET: FACU	3	Apr-Jun	no	Y/Y

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ROS	<i>Prunus ilicifolia</i> ssp. <i>ilicifolia</i>	islay, holly-leaf cherry	Recorded historically (1892, as full species) from Bayview Hills, Golden Gate Park (Strawberry Hill), Hunters Pt., Mission Hills, and se. SF (Howell, <i>et al.</i> , CCH). Bayview Hill is believed to support the last remaining native stand. Reintroduced at Brooks Park, Candlestick Pt., Francisco Park, Glen Cyn., Interior Greenbelt, McLaren Park, the Presidio (Baker Beach n., Battery Dynamite, Ft. Point, Golf Course Natural Area, Mountain Lake, sw. dunes, Tennessee Hollow), Starr King, Suto Forest, and Yerba Buena Is.; recolonizing spontaneously about the Presidio.	s-t	ep	Canyons, slopes, scrubland, woodland; Elevation: < 1600 m.	17	Apr-May	no	Y/Y
ROS	<i>Prunus ilicifolia</i> ssp. <i>lyonii</i>	islay, holly-leaf cherry	Known from a single 1919 collection from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> Reported from Golden Gate Park and Mission Bay where it was undoubtedly planted. SF is the northernmost record on the coast and one of only three records from the Central Coast. Status as an indigenous taxon here is questionable.	s-t	ep	Canyons, chaparral, woodland; Elevation: < 600 m.	2	Apr-May	no	Y/Y
ROS	<i>Prunus laurocerasus</i>	cherry laurel	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Golden Gate Park, the Presidio (Doyle Dr. Natural Area, Dragonfly Cr.), and Yerba Buena Is.	s-t	ep	Ornamental; possibly naturalized.	4	sp-esum	no	N/N
ROS	<i>Prunus</i> sp.	cherry	Reported (to genus) from Bayview Hill, McLaren Park, and the Presidio (Rob Hill); needs id.	s-t	ep	n/a	3	n/a	no	n/a
ROS	<i>Prunus virginiana</i> var. <i>demissa</i>	common choke cherry	[<i>P. demissa</i>] Recorded historically (1920) from Bayview Hills, Brotherhood Way, Lake Merced, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Tank Hill and Twin Peaks; reported (as full species) from Bayview Hill, Brotherhood Way, Lake Merced; needs id. Reintroduced at the Presidio (Mountain Lake), and Suto Forest.	s-t	dp	Rocky slopes, canyons, scrubland, oak/pine woodland, conifer forest; Elevation: < 3000 m. WET: FAC	7	May-Jun	no	Y/Y
AST	<i>Pseudognaphalium beneolens</i>	coastal pearly everlasting	[<i>Gnaphalium b.</i> ; <i>G. canescens</i> ssp. <i>b.</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Bayview Hill, the Presidio (Presidio Hills, Rob Hill, sw. dunes, WWII Memorial), Twin Peaks, and Yerba Buena Is. Voucher specimen needed. SF lies in the species' bioregion. Presumed indigenous to SF based on occ. in San Mateo and Marin cos.	h	a-p	Dry, open slopes and ridges, disturbed sites; Elevation: < 850(1950) m.	7	Jun-Oct	CA	Y/Y
AST	<i>Pseudognaphalium biolettii</i>	bicolor cudweed	[<i>Gnaphalium bicolor</i>] Not included in Howell, <i>et al.</i> , and there are no SF records in CCH. SF lies in the species' bioregion but there are very few records from the San Francisco Peninsula, no of which predate the 1960s. Not considered indigenous to SF. Reported from Yerba Buena Is. where it is likely a recent introduction.	h	p	Sharply scented. Rocky slopes, road-sides, dunes, coastal scrub, chaparral, oak woodland; Elevation: 5-600(1200) m.	1	Apr-Jun	no	N/Y
AST	<i>Pseudognaphalium californicum</i>	coastal cudweed	[<i>Gnaphalium c.</i>] Recorded historically (1893) from Bayview Hills, Laguna Honda Valley, Lake Merced, Land's End (Pt. Lobos), Mt. Davidson, Mt. Suto, the Presidio, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts., Park Billy Goat Hill, Brotherhood Way, Glen Cyn., O'Shaughnessy Hollow, the Presidio (Crissy Field, Presidio Bluffs), Twin Peaks, and Yerba Buena Is.	h	a-p	Sandy canyons, dry hills, coastal chaparral; Elevation: 60-800 m.	10	Apr-Jul	no	Y/Y
AST	<i>Pseudognaphalium luteoalbum</i>	red-tipped cudweed	[<i>Gnaphalium luteoalbum</i>] Recorded historically (1934) from Bayview Hills, the Embarcadero, Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End (Pt. Lobos), Lone Mt., Mt. Davidson, Pine Lake, the Presidio (Lobos Cr. Valley), San Miguel Hills, and Stern Grove (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a	Naturalized. Disturbed sites, fields, streambeds, drying mud; Elevation: < 850 m. WET: FAC	32	Apr-Aug	no	N/N
AST	<i>Pseudognaphalium microcephalum</i>	Wright's cudweed	[<i>Gnaphalium m.</i>] Recorded historically (1956) from Bayview Hills, Lake Merced, O'Shaughnessy Hollow, and Potrero Hills (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1957.	h	p	Grassy hillsides, gravelly canyon bottoms, chaparral, coastal-sage scrub; Elevation: < 2250 m.	0	Jul-Oct	no	Y/Y
AST	<i>Pseudognaphalium ramosissimum</i>	pink everlasting	[<i>Gnaphalium r.</i>] Recorded historically (1852) from Golden Gate Park, Laguna Honda Valley, Lake Merced, Mt. Suto, Pine Lake, and the Presidio (Lobos Cr. Valley; Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Brotherhood Way, Ft. Funston, Glen Cyn., Lake Merced, Mt. Davidson, the Presidio (Baker Beach n., Crissy Field, Crissy Bluffs, Golf Course Natural Area, Inspiration Pt., Lobos Cr. Valley, Presidio Bluffs, Presidio Hills, Rob Hill, sw. dunes, Tennessee Hollow, WWII Memorial), and Twin Peaks.	b	b	Scented. Dry, open slopes, woodland, sandy fields, dunes; Elevation: < 600 m.	19	Jul-Sep	CA	Y/Y
AST	<i>Pseudognaphalium stramineum</i>	cotton-batting cudweed	[<i>Gnaphalium s.</i> ; <i>C. chilense</i>] Recorded historically (1877) from Bayview Hills, Cliff House, the Embarcadero, Golden Gate Park, Ingleside, Lake Merced, Land's End, Lone Mt., Oceanview, the Presidio (Baker Beach, Baker Beach n., Ft. Point, Presidio Bluffs), the Richmond Dist., Sunset Dist. dunes, and Visitación Valley (Howell, <i>et al.</i> , CCH). Reported throughout the city and the Presidio.	h	a-p	Many habitats, dunes, chaparral slopes, road-sides; Elevation: < 2500 m. WET: FAC	23	Mar-Aug	no	Y/Y
POA	<i>Pseudosasa japonica</i>	arrow bamboo	[<i>Arundinaria j.</i>] Recorded historically (c. 1955) from Golden Gate Park (Stow Lake; Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	g	p	Possibly naturalized.	0	n/a	no	N/N
PIN	<i>Pseudotsuga menziesii</i> var. <i>menziesii</i>	Douglas-fir	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Not indigenous to SF. Reported from Ft. Mason, Golden Gate Park, the Presidio (Golf Course Natural Area, Inspiration Pt., Tennessee Hollow) and Twin Peaks.	t	ep	Widespread in mixed-evergreen, mixed-conifer forests; Elevation: < 2200 m. WET: FACU	7	n/a	no	N/Y
AST	<i>Psilocarphus tenellus</i>	slender woolly-marbles	[<i>P.t.</i> var. <i>t.</i>] Recorded historically (1890) from Golden Gate Park, Mt. Davidson, the Presidio, and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn. and the Presidio (Ft. Point, Ft. Scott, Presidio Bluffs, Rob Hill).	h	a	Dry, seasonally moist slopes, flats, burns, trails, rarely vernal pools; Elevation: < 2400 m. WET: OBL	5	Mar-Jul	no	Y/Y
DST	<i>Pteridium aquilinum</i> var. <i>pubescens</i>	western bracken-fern	Recorded historically (1902) from Bayview Hills, Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End, Lone Mt., Mt. Suto, the Presidio (above Baker Beach), San Miguel Hills, SFSU, Sunset Dist. dunes, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	f	p	Rhizomatous. Pastures, woodland, meadows, hillsides, partial to full sun; Elevation: < 3200 m. WET: FACU	54	n/a	no	Y/Y

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PLG	<i>Pterostegia drymarioides</i>	woodland threadstem	Recorded historically (1877) from Brotherhood Way, Ft. Funston, Lake Merced, Mission Hills, Mt. Sutro, and the Presidio (Presidio Bluffs; Howell, <i>et al.</i> , CCH). Reported from Ft. Funston and the Presidio (Baker Beach, Baker Beach n., Presidio Bluffs, Presidio Hills, sw. dunes, Tennessee Hollow).	h	a	Sprawling. Sand or gravel; Elevation: < 1600 m.	7	Mar-Jul	no	Y/Y
POA	<i>Puccinellia distans</i>	European alkali grass	Recorded historically (c. 1955) from near Islais Cr., Potrero Hill, and Russian Hill (Howell, <i>et al.</i> , CCH). Reported from Heron's Head Park (Calflora), where it has also been misidentified as <i>P. maritima</i> ; a taxon not occurring in Cal. JFP, 2021).	g	p	Naturalized. Saline meadows, flats; Elevation: < 2700 m. WET: FACW	1	Jun-Jul	no	N/N
POA	<i>Puccinellia nutkaensis</i>	Nootka alkali grass	Known from a single 1934 collection from "near SF" (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF. Native Cal. taxon but not considered indigenous here; SF represents an extreme range extension.	g	p	Marshes, wet sites; Elevation: < 10 m. WET: OBL	0	Jun	no	N/Y
ROS	<i>Pyracantha angustifolia</i>	firethorn	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Bayview Hill, Glen Cyn., O'Shaughnessy Hollow, Palou-Phelps, the Presidio (Crissy Bluffs, Doyle Dr. Natural Area, Ft. Point, Ft. Scott, Lobos Cr. Valley, Presidio Hills), Starr King, Sutro Forest, and Yerba Buena Is.; expected elsewhere. INVASIVE STATUS: L/-/-/-/-	s	p	Naturalized. Disturbed areas, fencerows, abandoned fields, road-sides; Elevation: < 200 m.	13	Feb-Jun	no	N/N
ROS	<i>Pyracantha coccinea</i>	scarlet firethorn	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Glen Cyn., the Presidio (Officer's Row), the Richmond Dist., Visitation Valley, and Yerba Buena Is.; expected elsewhere. INVASIVE STATUS: L/-/-/-/-	s	p	Waif or garden escape; not naturalized. Mixed-conifer forest, disturbed ground; Elevation: < 1500 m.	3	May-Jun	no	N/N
FAG	<i>Quercus agrifolia</i> var. <i>agrifolia</i>	coast live oak	Recorded historically (1837, as full species) from Bayview Hills, Brotherhood Way, Golden Gate Hts., Golden Gate Park, Laguna Honda Valley, Lake Merced, Laurel Hill Cemetery, Lobos Cr. Valley, McLaren Park, Mt. Sutro, the Presidio (Lobos Cr. Valley), and Visitation Valley (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio; reintroduced at Sutro Forest and at several Presidio sites. Especially well-developed stands of native live oak woodlands occur at Brotherhood Way, Golden Gate Park, Lake Merced, the Presidio (Lobos Cr. Valley) and Yerba Buena Is. (once called "Wood Island" for its abundance of oaks used for ship repair.)	t	ep	Valleys, slopes, mixed-evergreen forest, woodland; Elevation: < 1440 m.	67	Mar-Apr	no	Y/Y
FAG	<i>Quercus chrysolepis</i>	canyon oak	Known from a single 1956 collection from Brotherhood Way (Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way and Lake Merced; reintroduced at Sutro Forest. Host plant for the Cal. Sister butterfly.	t	ep	Canyons, shaded slopes, chaparral, mixed-evergreen forest, woodland; Elevation: 30-2750 m.	3	Apr-May	no	Y/Y
FAG	<i>Quercus garryana</i> var.	Oregon oak	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported (as full species) from Corona Hts. Park where it was presumably planted.	t	dp	Slopes, mixed-evergreen or conifer forest; Elevation: 90-2140 m.	1	Apr-Jun	no	N/Y
FAG	<i>Quercus kelloggii</i>	Cal. black oak	Known from a single 1866 collection from "near SF" (CCH); not included in Howell, <i>et al.</i> Although SF lies within the taxon's range, it is not considered indigenous here. Reported from Golden Gate Park; presumably planted.	t	dp	Slopes, valleys, woodland, conifer forest; Elevation: 30-2660 m.	1	May-Jun	no	N/Y
FAG	<i>Quercus lobata</i>	valley oak	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Corona Hts. where it was presumably planted. Not indigenous to SF.	t	dp	Slopes, valleys, savanna; Elevation: < 1830 m. WET: FACU	1	Mar-Apr	CA	N/Y
FAG	<i>Quercus parvula</i> var. <i>shrevei</i>	Shreve's oak	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Yerba Buena Is. (Coast Guard property). Voucher specimen needed; needs study. Considered indigenous to SF based on records from Marin and the East Bay.	t	ep	Moist woodland, forest; Elevation: < 1190 m.	1	Apr-Jun	no	Y/Y
FAG	<i>Quercus suber</i>	cork oak	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Richmond Dist. and Tank Hill.	t	ep	Ornamental; not naturalized.	1	sp	no	N/N
FAG	<i>Quercus wislizeni</i> var. <i>frutescens</i>	interior live oak	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Glen Cyn. and O'Shaughnessy Hollow. SF does not lie within the taxon's bioregion but there are abundant records from San Mateo and Marin cos. Status as an indigenous taxon here is uncertain.	t	ep	Valleys, chaparral; Elevation: 90-2000 m.	2	Mar-May	CA	?/Y
FAG	<i>Quercus</i> ⁺ <i>morehus</i>	oracle oak	[<i>Q. moreha</i> . Fertile hybrid between <i>Q. kelloggii</i> and <i>Q. wislizeni</i> var. <i>frutescens</i> .] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Lobos Cr. Valley).	t	dp	Oak woodland; Elevation >1800 m.	1	lsp	no	N/Y
AST	<i>Rafinesquia californica</i> (r)	Cal. chicory	Recorded historically (1933) from Golden Gate Park, Lake Merced, Mission Hills, and the Presidio (Lobos Cr. Valley; Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1957. Reintroduced at the Presidio (Lobos Cr. Valley).	h	a	Open sites in scrub, woodland; often common after fire; Elevation: 100-1500 m.	1	Apr-Jul	no	Y/Y
RAN	<i>Ranunculus aquatilis</i> var. <i>diffusus</i>	whitewater crowfoot	[<i>Ra. var. capillaceus</i> : <i>R. longirostris</i>] Recorded historically (c. 1890) from Lake Merced and the Presidio (Mountain Lake; Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1890.	h	p	Aquatic or creeping on mud. Ponds, lakes, streams, river edges; Elevation: < 3200 m. WET: OBL	0	Apr-Jul	no	Y/Y
RAN	<i>Ranunculus californicus</i> var.	Cal. buttercup	Recorded historically (1892, as full species) from Bayview Hills, Bernal Hts., Golden Gate Park, Hunters Pt. Ridge, Laguna Honda Valley, Lake Merced, Land's End, Lone Mt., McLaren Park, Mt. Davidson, the Presidio (Ft. Point), San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio; needs id.	h	p	WET: FACU	41	Mar-Aug	no	Y/Y

ANNOTATED CHECKLIST OF THE VASCULAR PLANTS OF SAN FRANCISCO

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon Underlined = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonymy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFW / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ^g	# OCCURRENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC SF/Bay Area/CA	NATIVE - SF / CA
RAN	<i>Ranunculus californicus</i> var. <i>californicus</i>	Cal. buttercup	Recorded historically (1895) from Bayview Hills, Bernal Hts., Brotherhood Way, Hunters Pt., Lake Merced, Lone Mt., McLaren Park, Oceanview, the Presidio (Golf Course Natural Area, Mountain Lake, Presidio Hills), and San Miguel Hills (CCH); included in Howell, <i>et al.</i> as full species only. Reported from Bernal Hts. Park, Golden Gate Park, the Presidio (Inspiration Pt., Presidio Hills), and Twin Peaks; expected elsewhere based on the number of reports as full species.	h	p	Grassland, open woodland; Elevation: < 2000 m. WET: FACU	5	Mar-Aug	no	Y/Y
RAN	<i>Ranunculus californicus</i> var. <i>cuneatus</i>	Cal. buttercup	Recorded historically (1909) from Land's End, Pt. Lobos, the Presidio (Presidio Bluffs), and Twin Peaks (Howell, <i>et al.</i> , CCH). Rediscovered in 2011 atop the north summit of Twin Peaks (CCH).	h	p	Coastal bluffs, hillsides; Elevation: < 200 m. WET: FACU	1	Mar-Aug	no	Y/Y
RAN	<i>Ranunculus hebecarpus</i>	delicate buttercup	Recorded historically (1895) from hills s. of Golden Gate Park and se. SF (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in around 1900.	h	a	Grassland, open woodland; Elevation: 50-900 m.	0	Mar-May	no	Y/Y
RAN	<i>Ranunculus muricatus</i>	spiny fruit buttercup	Recorded historically (1882) from Bernal Hts., Golden Gate Park, Lake Merced, Lone Mt., the Marina Dist., McLaren Park, the Presidio (Mountain Lake), and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Golden Gate Park, Islais Cr., McLaren Park, Potrero Hill, the Presidio (Doyle Dr, Ft. Point, Ft. Scott, Inspiration Pt., Lyon St. Plantation, Main Post, Mountain Lake, Presidio Hills, Res. Cultural Plantation, Tennessee Hollow), Sutro Forest, and Yerba Buena Is.	h	a-b	Naturalized. Stream-banks, drainages, low meadows; Elevation: < 700 m. WET: FACW	19	Apr-Jun	no	N/N
RAN	<i>Ranunculus orthorhynchus</i> var. <i>bloomeri</i>	Bloomer's buttercup	[<i>R. bloomeri</i>] Recorded historically (1890) from Mt. Davidson, and se. SF (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1890.	h	p	Meadows, marshy areas; Elevation: < 100 m. WET: FACW	0	Mar-May	no	Y/Y
RAN	<i>Ranunculus repens</i>	creeping buttercup	Recorded historically (1957) from Ft. Mason, Golden Gate Park, Pacific Hts., and the Richmond Dist. (Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park (Chain-of-Lakes) and Land's End. INVASIVE STATUS: L/-/-/-	h	p	Naturalized. Decumbent or creeping, rooting at nodes. Meadows, road banks, disturbed places, edges of marshes, streams; Elevation: < 1600 m. WET: FAC	2	Apr-May	no	N/N
BRA	<i>Raphanus raphanistrum</i>	painted charlock	Recorded historically (1893) from Lone Mt. and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from Clarendon Hts., Glen Cyn., Heron's Head Park, Land's End, McLaren Park, Mt. Davidson, the Presidio (Ft. Point, Mountain Lake, Public Health Services Area), the Sunset Dist., and Sutro Forest.	h	a-b	Naturalized. Disturbed areas, fields; Elevation: < 1100 m.	11	Dec-Jul	no	N/N
BRA	<i>Raphanus sativus</i>	garden radish	Recorded historically (1927) from Bayview Hills, the Embarcadero, Golden Gate Park, Lake Merced, Land's End, Lone Mt., the Presidio (Mountain Lake), Russian Hill, San Miguel Hills, and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: L/1/-/-	h	a-b	Naturalized. Disturbed areas, fields; Elevation: < 1500 m.	83	May-Jul	no	N/N
BRA	<i>Rapistrum rugosum</i>	annual bastardcabbage	Recorded historically (1930) from Corona Hts. and Golden Gate Park (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h	a-p	Naturalized. Disturbed areas, fields; Elevation: < 200 m.	0	Apr-Jul	no	N/N
RSD	<i>Reseda alba</i>	white mignonette	Recorded historically (1919) from several now urbanized areas of SF (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	h	p	Naturalized. Disturbed areas, fields, road-sides; Elevation: < 100 m.	0	May-Nov	no	N/N
RHM	<i>Rhamnus alaternus</i>	Italian buckthorn	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Bernal Hts. Park; expected elsewhere. INVASIVE STATUS: W/-/-/-	s	ep	Waif or garden escape; not naturalized. Occasional garden escape; Elevation: 0 m.	1	Feb-Apr	no	N/N
RHM	<i>Rhamnus crocea</i>	spiny redberry	Recorded historically (1892) from Mt. Davidson, Mt. Sutro, and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Laguna Honda Valley, and O'Shaughnessy Hollow; does not appear to be reproducing.	s	ep	Coastal-sage scrub, chaparral, woodland; Elevation: < 1150 m.	3	Jan-Apr	no	Y/Y
ROS	<i>Rhaphiolepis indica</i>	Indian hawthorn	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported naturalized at Yerba Buena Is.; expected elsewhere.	s	ep	Ornamental; not naturalized.	1	lfall-sp	no	N/N
ERI	<i>Rhododendron occidentale</i>	western azalea	Known from a single 1892 collection from Lake Merced (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1892.	s-t	ep	stream-banks, ocean bluffs, moist wooded slopes and canyon bottoms, serpentine ridges; Elevation: < 2700 m. WET: FAC	0	May-Jun	no	Y/Y
ANA	<i>Rhus integrifolia</i>	lemonade berry	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. S. Cal. native not indigenous to SF. Reported from McLaren Park and Yerba Buena Is. where it was undoubtedly planted.	s	ep	Canyons, generally n-facing slopes, chaparral; Elevation: < 900 m.	2	Feb-May	no	N/Y
GRS	<i>Ribes aureum</i> var.	golden current	Previously included in the Saxifragaceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Only <i>Ra.</i> var. <i>gracillimum</i> is known from the SF Peninsula. Reported (as full species) from Sutro Forest where it was introduced and Alamo Square where it was planted.	s	ep	Alluvial areas, forest edges; Elevation: 105-910 m. WET: FAC	1	Apr-May	no	N/Y
GRS	<i>Ribes californicum</i> var. <i>californicum</i>	Cal. or hillside gooseberry	Previously included in the Saxifragaceae. Known from a single 1900 collection from "SF" (CCH); not included in Howell, <i>et al.</i> SF represents a slight range extension. However, based on the abundance of occs. in the Bay Area, the taxon is considered indigenous here. Extirpated; last collected in 1900. Recorded (as full species) at Golden Gate Park where it was undoubtedly planted.	s	p	Forest openings, woodland; Elevation: < 720 m.	1	Feb-Mar	no	Y/Y
GRS	<i>Ribes divaricatum</i> var. <i>pubiflorum</i>	spreading gooseberry	[<i>Grossularia divaricata</i>] Previously included in the Saxifragaceae. Recorded historically (1896) from Brotherhood Way, Laguna Honda Valley, and Visitación Valley (Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way, Glen Cyn., Lake Merced, and Tank Hill.	s	p	Coastal bluffs, forest edges; Elevation: 5-1485 m. WET: FAC	4	Mar-May	no	Y/Y
GRS	<i>Ribes indecorum</i>	white-flowering currant	Previously included in the Saxifragaceae. Known from a single 1861 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Native Cal. taxon but not considered indigenous here; SF occ. represents an extreme range extension. There are no contemporary records from SF.	s	dp	Chaparral, coastal-sage scrub; Elevation: 20-1760 m.	0	Jan-Feb	no	N/Y

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GRS	<i>Ribes malvaecium</i> var.	pink chaparral currant	Previously included in the Saxifragaceae. Recorded historically (1853, as full species) from Masonic Cemetery (Lone Mt.) and the Presidio (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1910.	s	dp	Chaparral, oak woodland; Elevation: 5-1220 m.	0	Oct-Apr	CA	Y/Y
GRS	<i>Ribes menziesii</i> var. <i>menziesii</i>	canyon gooseberry	[<i>Grossularia menziesii</i>] Previously included in the Saxifragaceae. Recorded historically (c. 1890, as full species) from Laguna Honda Valley, se. SF, and Sunset Hts. (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Interior Greenbelt and Twin Peaks; needs confirmation. Voucher specimen needed. Believed to have been recently extirpated from Bayview Hill. Reintroduced at the Presidio (Ft. Point)	s	ep	Forest openings, chaparral; Elevation: < 1820 m.	3	Feb-Apr	no	Y/Y
GRS	<i>Ribes roezlii</i> var. <i>amicium</i>	Sierra gooseberry	Previously included in the Saxifragaceae. Known from a single 1899 collection from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> Native Cal. taxon but not considered indigenous here; SF occ. represents an extreme range extension. RARITY STATUS: -/-/4.3	s	dp	Forest edges, woodland; Elevation: 15-2000 m.	0	Mar-Apr	CA	N/Y
GRS	<u><i>Ribes sanguineum</i></u> var. <u><i>glutinosum</i></u>	red-flowering currant	Previously included in the Saxifragaceae. Recorded historically (1852) from Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End, Lone Mt., and the Presidio (Baker Beach, Ft. Point; Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio; many locations are reintroductions. Host plant for the Tailed Copper butterfly.	s	dp	Many habitats, including scrub, slopes, moist areas; Elevation: < 2320 m. WET: UPL	37	Feb-Apr	no	Y/Y
EUP	<i>Ricinus communis</i>	castor bean	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Candlestick Pt. and Yosemite Slough. Highly toxic. INVASIVE STATUS: L/-/-/-/-	s	p	Naturalized. Disturbed areas; Elevation: < 300 m. WET: FACU	2	Jan-Dec	no	N/N
AST	<i>Rigiopappus leptocladus</i>	false wireweed	Known from a single 1868 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1868.	h	a	Grassy sites, openings among shrubs or trees; Elevation: 100-2200 m. SERP: 1.9	0	Apr-Jul	no	Y/Y
FAB	<u><i>Robinia pseudoacacia</i></u>	black locust	[Also spelled <i>R. pseudo-acacia</i>] Recorded historically (c. 1957) from Golden Gate Park (Chain-of-Lakes; Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF; to be expected. INVASIVE STATUS: L/-/-/-	t	p	Naturalized. Locally common near abandoned houses, road-sides, canyon slopes, stream-banks; Elevation: 50-1900 m. WET: FACU	0	Mar-Jun	no	N/N
BOR	<i>Romanzoffia californica</i>	Cal. mistmaiden	Known from a single 1900 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1900.	h	p	Ocean bluffs, road-banks, wet cliffs, moist rocky areas; Elevation: < 800 m. WET: FAC	0	Mar-May	no	Y/Y
PAP	<i>Romneya coulteri</i>	Coulter's matilija poppy	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Heron's Head Park where it was planted; not indigenous to SF. RARITY STATUS: -/-/4.2	h	p	Rhizomatous. Dry washes, canyons; Elevation: < 1200 m.	1	Mar-Jul	CA	N/Y
PAP	<i>Romneya trichocalyx</i>	bristly matilija poppy	[<i>R. coulteri</i> var. <i>t.</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Native of So. Cal.; not indigenous to SF. Reported from Golden Gate Park and the Presidio; presumably planted.	ss-s	p	Dry washes, canyons; Elevation: < 1500 m.	2	Apr-Jun	no	N/Y
BRA	<u><i>Rorippa curvisiliqua</i></u>	curve-pod yellow-cress	Recorded historically (1901) from Lake Merced, Pine Lake, and the Presidio (Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way. Extirpated from the Presidio.	h	a	stream-banks, marshy ground, seepage areas, lake shores, mud flats, meadows; Elevation: < 3500 m. WET: OBL	1	May-Oct	no	Y/Y
ROS	<u><i>Rosa californica</i></u>	Cal. wild rose	Recorded historically (1956) from Bayview Hills, Brotherhood Way, Mission Hills, and the Presidio (Lobos Cr. Valley; Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Brotherhood Way, Ft. Funston, Golden Gate Park, Hunters Pt. Ridge, Lake Merced, Land's End, the Presidio (Battery Dynamite, Crissy Bluffs, Doyle Dr. Natural Area, Dragonfly Cr., Ft. Point, Golf Course Natural Area, Inspiration Pt., Lobos Cr. Valley, Mountain Lake, Presidio Hills, sw. dunes, Tennessee Hollow, WWII Memorial), and Yerba Buena Is.; reintroduced at Suto Forest.	s	dp	Generally more-or-less moist areas, especially stream-banks; Elevation: < 1800 m. WET: FAC	22	Feb-Nov	no	Y/Y
ROS	<i>Rosa gymnocarpa</i> var.	Cal. wood rose	Recorded historically (1917, as full species) from Bayview Hills, Brotherhood Way, Lake Merced, Mt. Davidson, and St. Francis Wood (Howell, <i>et al.</i> , CCH). Reported (as full species) from Bayview Hill, Brotherhood Way, Glen Cyn., Interior Greenbelt, Mt. Davidson, O'Shaughnessy Hollow, Suto Forest, Twin Peaks, and Yerba Buena Is. Presumably <i>R.g.</i> var. <i>g.</i>	s	dp	Generally in shade of forest, scrub, generally not ultramafic substrates; Elevation: 30-2000 m. WET: FACU	9	May-Jun	no	Y/Y
ROS	<i>Rosa</i> sp.	garden rose	Reported (to genus) from Palou-Phelps; needs id.	s-v	dp	n/a	1	n/a	no	n/a
ROS	<i>Rubus armeniacus</i>	Himalayan blackberry	[<i>R. discolor</i> ; <i>R. praeceus</i> , misappl.] Recorded historically (1956) from Bayview Hills, the Embarcadero, Golden Gate Park, Lake Merced, Land's End (Pt. Lobos), Lone Mt., Mt. Davidson, Pacific Hts., San Miguel Hills, se. SF, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: H/1/-/-	s-v	p	Naturalized. Arched to mounded; prickles stout, many, wide-based, straight or curved. Disturbed areas, road-sides; Elevation: < 1600 m. WET: FAC	74	Apr-Aug	no	N/N
ROS	<i>Rubus parviflorus</i>	western thimbleberry	[Incl. <i>R.p.</i> var. <i>velutinus</i>] Recorded historically (1934) from Brotherhood Way, Golden Gate Park, Laguna Honda Valley, and Lake Merced (Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way, Buena Vista Park, Golden Gate Park (Oak Woodland, misc.), Interior Greenbelt, Laguna Honda Valley, Lake Merced, Potrero Hill, the Presidio (Crissy Bluffs, Dragonfly Cr., Lobos Cr. Valley, Mountain Lake, Tennessee Hollow), SFSU, the Sunset Dist., and Suto Forest.	s	dp	Lacks prickles. Moist semi-shaded areas, especially edges of woodland; Elevation: 20-2500 m. WET: FAC	15	Mar-Aug	no	Y/Y
ROS	<i>Rubus pensilvanicus</i>	Pennsylvania blackberry	Recorded historically (1956) from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF.	s-v	dp	Naturalized. Erect to arched; prickles many, stout, wide-based, straight or generally curved. Disturbed areas; Elevation: < 1500 m. WET: FAC	0	Apr-Jul	no	N/N
ROS	<u><i>Rubus spectabilis</i></u> (†)	salmonberry	Recorded historically (1895) from Golden Gate Park and Suto Forest (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1896. Reintroduced at Suto Forest.	s	p	Few prickles. Moist areas, especially edges of woodland, stream-banks; Elevation: generally < 500 m. WET: FAC	1	Feb-Mar	no	Y/Y

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ROS	<i>Rubus ulmifolius</i> var. <i>anoplothyrsus</i>	elm-leaf blackberry	[<i>R.u.</i> var. <i>inermis</i>] Recorded historically (c. 1955) from near Islais Cr. (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Laguna Honda Valley; expected elsewhere.	s-v	p	Naturalized. Erect to arched; lacks prickles. Moist, disturbed areas; Elevation: <1050 m.	2	May-Jul	no	N/N
ROS	<i>Rubus ursinus</i>	Cal. blackberry	[Incl. <i>R.u.</i> vars. <i>glabratus</i> and <i>sibiricus</i>] Recorded historically (1877) from Bayview Hills, Golden Gate Park, Hunters Pt., Laguna Honda Valley, Lake Merced, Land's End, Laurel Hill Cemetery, Lone Mt., McLaren Park, Mt. Sutro, Pine Lake, the Presidio (above Baker Beach, Lobos Cr. Valley, Mountain Lake), San Miguel Hills, SFSU, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	s-v	dp	Prickles, slender, weak. Open, disturbed areas; Elevation: < 1500 m. WET: FAC	71	Mar-Jul	no	Y/Y
PLG	<i>Rumex acetosella</i>	common sheep-sorrel	Recorded historically (1894) from Bayview Hills, Corona Hts., Golden Gate Park, Hawk Hill, Land's End, Lake Merced, Lone Mt., Mission Dist., Mt. Davidson, Nob Hill, Ocean Beach, the Presidio, San Miguel Hills, SFSU, Sunset Dist. dunes, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: M/2/—/—	h	p	Naturalized. From creeping rhizomes and/or vertical taproots. More or less disturbed, often acidic places; Elevation: < 3000 m. WET: FACU	62	Apr-Jul	no	N/N
PLG	<i>Rumex californicus</i>	Cal. dock	Recorded historically (1953) from Bayview Hills, Golden Gate Park, Hunters Pt., Lake Merced, and San Miguel Hills (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1957.	h	p	Moist places; Elevation: < 3500 m. WET: FACW	0	May-Sep	no	Y/Y
PLG	<i>Rumex conglomeratus</i>	clustered dock	Recorded historically (1894) from Alemany Blvd., Brotherhood Way, Lake Merced, McLaren Park, the Presidio (Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., the Presidio (Baker Beach n., Doyle Dr. Natural Area, Dragonfly Cr., Inspiration Pt., Lobos Cr. Valley, Lover's Lane, Mountain Lake, Presidio Bluffs, Presidio Hills), and Sutro Forest.	h	p	Naturalized. Moist places; Elevation: < 1500 m. WET: FACW	11	May-Aug	no	N/N
PLG	<i>Rumex crassus</i>	seashore willow-dock	[<i>R. salicifolius</i> var. <i>c.</i> ; <i>R.s. forma ecallosus</i> ; easily confused with <i>R. salicifolius</i> and <i>R. transitorius</i>] Recorded historically (1852) from Bayview Hills, Cliff House, Golden Gate Park, Hunters Pt. Ridge, Lake Merced, Land's End, Ocean Beach, se. SF, Sutro Hts., and the Presidio (Baker Beach, Ft. Point, Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, Glen Cyn., O'Shaughnessy Hollow, the Presidio (Baker Beach n., Crissy Field, Crissy Bluffs, Ft. Point, Presidio Bluffs), and Sutro Baths.	h	p	Coastal dunes, sandy shores, marshes; Elevation: < 100 m. WET: FACW	9	Feb-Jul	no	Y/Y
PLG	<i>Rumex crispus</i>	curly-leaved dock	Recorded historically (1894) from Bayview Hills, the Embarcadero, Golden Gate Park, Hunters Pt., Laguna Honda Valley, Land's End, Lone Mt., Mt. Sutro, Nob Hill, the Presidio (Mountain Lake), San Miguel Hills, and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and Presidio. INVASIVE STATUS: L/3/—/—	h	p	Naturalized. Disturbed places; Elevation: < 2700 m. WET: FAC	49	Jan-Dec	no	N/N
PLG	<i>Rumex fucosus</i>	American golden dock	[<i>R. persicarioides</i> ; <i>R. maritimus</i> , misappl.] Recorded historically (1894) from Golden Gate Park, Lake Merced, Pine Lake, Sunset Dist. dunes, and the Presidio (Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park (Strawberry Hill).	h	a-p	Riparian, disturbed places, shores, marshes, bogs, wet meadows; Elevation: < 2000 m. WET: FACW	1	May-Jun	no	Y/Y
PLG	<i>Rumex obtusifolius</i>	blunt-leaved dock	Recorded historically (1894) from Brotherhood Way, the Embarcadero, Golden Gate Park, Laguna Honda Valley, Lake Merced, McLaren Park, Nob Hill, Pine Lake, the Presidio (Lobos Cr. Valley, Mountain Lake), Stern Grove (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Doyle Dr. Natural Area, Dragonfly Cr., Tennessee Hollow) and Yerba Buena Is. INVASIVE STATUS: —/3/—/—	h	p	Naturalized. Moist places; Elevation: < 2000 m. WET: FAC	4	May-Sep	no	N/N
PLG	<i>Rumex occidentalis</i>	western field dock	[incl. <i>R.o.</i> var. <i>procerus</i>] Recorded historically (1894) from Brotherhood Way, Lake Merced, and the Presidio (Ft. Point; Howell, <i>et al.</i> , CCH). Reported from Lake Merced, and the Presidio (Crissy Bluffs, Tennessee Hollow).	h	p	Wet habitats; Elevation: < 2500 m. WET: FACW	3	May-Aug	no	Y/Y
PLG	<i>Rumex pulcher</i>	fiddle dock	Recorded historically (1887) from Bayview Hills, the Embarcadero, Hunters Pt., Golden Gate Park, Laguna Honda Valley, the Presidio (Mountain Lake), San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: —/3/—/—	h	p	Naturalized. Disturbed places, meadows, moist or dry habitats; Elevation: generally < 1500 m. WET: FAC	20	May-Sep	no	N/N
PLG	<i>Rumex salicifolius</i>	willow-leaved dock	[<i>R.s.</i> var. <i>s.</i> ; easily confused with <i>R. crassus</i> and <i>R. transitorius</i>] Recorded historically (1852) from Alemany Blvd., the Embarcadero, Golden Gate Park, Hunters Pt. Ridge, Laguna Honda Valley, Lake Merced, Pine Lake, and the Presidio (Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way, Hunters Pt. Ridge, Laguna Honda Valley, Ocean Beach, and the Presidio (Crissy Bluffs, Ft. Point, Ft. Scott, Inspiration Pt., Mountain Lake, Oak Study Area, Presidio Hills, Pygmy Forest, Res. Cultural Plantation, sw. dunes, Tennessee Hollow, WWII Memorial). SF is the type locality.	h	p	Wet places, margins, rocky slopes; Elevation: < 3500 m. WET: FACW	16	May-Jul	no	Y/Y
PLG	<i>Rumex</i> sp.	dock	Reported (to genus) from McLaren Park; needs id.	h	a-p	n/a	1	n/a	no	n/a
PLG	<i>Rumex transitorius</i>	Pacific willow dock	[<i>R. salicifolius</i> forma <i>transitorius</i> ; easily confused with <i>R. crassus</i> and <i>R. salicifolius</i>] Recorded historically (c. 1885) from waste ground at the Embarcadero (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Ft. Point)	h	p	Coastal dunes, wet margins of meadows; Elevation: < 2250 m. WET: FACW	1	Apr-Jun	no	Y/Y
RUP	<i>Ruppia maritima</i>	beaked ditch-grass	Previously included in the Potamogetonaceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Sutro Baths.	h	a	Submersed aquatic. Brackish or saline waters, often coastal, marshes, ponds, sloughs; Elevation: < 600 m. WET: OBL	1	Mar-Aug	no	?/Y
POA	<i>Rytidosperma penicillatum</i>	hairy oat grass, poverty grass	[<i>Danthonia pilosa</i> , misappl.] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Ft. Funston and the Presidio (Doyle Dr. Natural Area). INVASIVE STATUS: L/—/—/—	g	p	Naturalized. From short rhizomes. Disturbed areas; Elevation: < 800 m.	2	Jun-Jul	no	N/N
CRY	<i>Sagina apetala</i>	dwarf pearlwort	[incl. <i>S.a.</i> var. <i>barbata</i>] Recorded historically (c. 1955) from Lake Merced, Lone Mt., McLaren Park, Mt. Davidson, Potrero Hills, and the Presidio (Howell, <i>et al.</i>); also recorded from Twin Peaks (CCH). Reported from the Presidio (Doyle Dr. Natural Area, Presidio Bluffs), the Sunset Dist., and Yerba Buena Is.	h	a	Naturalized. Sandy disturbed areas, river bars, stream-sides; Elevation: < 700 m. WET: FAC	3	sp-esum	no	N/N

ANNOTATED CHECKLIST OF THE VASCULAR PLANTS OF SAN FRANCISCO

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon Underlined = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonymy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ^g	# OCCURRENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC SF/Bay Area/CA	NATIVE - SF / CA
CRY	<i>Sagina decumbens</i> ssp. <i>occidentalis</i>	decumbent pearlwort	[<i>S. occidentalis</i>] Recorded historically (1924) from Brotherhood Way, Land's End (Pt. Lobos), Lone Mt., Mt. Davidson, and the Presidio (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Inspiration Pt., Rob Hill).	h	a	Dry streams, chaparral, grassy areas, rock outcrops, vernal pools; Elevation: < 2000 m. WET: FAC	2	sp-esum	no	Y/Y
CRY	<i>Sagina maxima</i> ssp. <i>crassicaulis</i>	coast pearlwort	[<i>S. crassicaulis</i>] Recorded historically (1957) from Land's End (Pt. Lobos), and the Presidio (above Baker Beach, Mountain Lake; Howell, <i>et al.</i> , CCH). Previously thought extirpated; last collected in 1957. Rediscovered at the Presidio (Pt. Point, Presidio Bluffs)	h	p	Sandy bluffs, rock crevices; Elevation: < 30 m. WET: FAC	2	sp-efall	no	Y/Y
CRY	<i>Sagina procumbens</i>	procumbent pearlwort	Recorded historically (c. 1955) from SF (Howell, <i>et al.</i>); there are no historic SF records in CCH. Reported from Glen Cyn. Golden Gate Park, Grandview Park, and SFSU.	h	p	Naturalized. Wet, gravelly or sandy soil, roadsides, disturbed areas; Elevation: < 15 m. WET: FAC	4	lsp-efall	no	N/N
ALI	<i>Sagittaria longiloba</i>	longbarb arrowhead	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Mountain Lake).	h	p	Aquatic, emergent. Tuberous. Ponds, rice fields; Elevation: < 300 m. WET: OBL	1	May-Jun	no	N/N
ALI	<i>Sagittaria montevidensis</i> ssp. <i>calycina</i>	Montevideo arrowhead	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Golf Course Natural Area, Mountain Lake). SF does not lie within the taxon's bioregion; the nearest Bay Area record is from Sonoma Co. Status as an indigenous SF taxon is questionable. Voucher specimen needed.	h	p	Aquatic, emergent. Ponds, rice fields; Elevation: < 300 m.	2	Jul-Aug	no	?/Y
CHN	<i>Salicornia pacifica</i>	Pacific pickleweed	[<i>Sarcocornia</i> p.; often recorded as <i>Salicornia virginica</i> or <i>S. europaea</i> , taxa not occurring in Cal. (JFP, 2021); Amaranthaceae, pending] Recorded historically (1956; as <i>S. virginica</i>) from the mouth of Islais Cr., the Presidio, and se. SF (Howell, <i>et al.</i> , CCH). Reported from Candlestick Pt., Heron's Head Park, Hunters Pt., Islais Cr., Pier 94, and the Presidio (Crissy Field), and Yerba Buena Is. (as <i>S. europaea</i>).	ss	p	Salt marshes, alkaline flats; Elevation: < 800 m. WET: OBL	7	Jul-Nov	no	Y/Y
SAL	<i>Salix babylonica</i>	true weeping willow	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Golden Gate Park, Pine Lake, and the Presidio (Tennessee Hollow).	t	dp	Naturalized. Disturbed places, around settlements; Elevation: probably < 50 m. WET: FAC	3	Feb-May	no	N/N
SAL	<i>Salix exigua</i> var. <i>hindsiana</i>	sandbar willow	[<i>S. hindsiana</i>] Recorded historically (1931) from Lake Merced and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported (as full species) from Brotherhood Way; presumably <i>S. e. var. hindsiana</i> .	s-t	dp	Clonal by root shoot. Floodplains, sandy gravel; Elevation: < 640 m. WET: FACW	1	Apr-May	no	Y/Y
SAL	<i>Salix laevigata</i>	smooth red willow	Recorded historically (1931) from Lake Merced (CCH); not included in Howell, <i>et al.</i> Reported from Candlestick Pt., Glen Cyn., Golden Gate Hts., Golden Gate Park (Mallard Lake), Lake Merced, the Presidio (Presidio Hills), and Yerba Buena Is.	t	dp	Riverbanks, seepage areas, lakeshores (sub-alkaline or brackish), canyons; Elevation: < 1700 m. WET: FACW	7	Dec-Jun	no	Y/Y
SAL	<i>Salix lasiandra</i> var. <i>lasiandra</i>	Pacific yellow willow	[<i>S. lucida</i> ssp. <i>lasiandra</i>] Recorded historically (1949) from Bayview Hills, Brotherhood Way, Lake Merced, Land's End (Pt. Lobos), Lone Mt., Potrero Hills, the Presidio (Lobos Cr. Valley, Mountain Lake), and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way, Glen Cyn., Laguna Honda Valley, Lake Merced, and the Presidio (Crissy Bluffs, Crissy Field, Doyle Dr. Natural Area, Dragonfly Cr., Golf Course Natural Area, Lobos Cr. Valley, Lover's Lane, Mountain Lake, Presidio Bluffs, Presidio Hills, Public Health Services Area, Tennessee Hollow, WWII Memorial).	t	dp	Wet meadows, shores, seepage areas; Elevation: < 2715 m. WET: FACW	16	Mar-Jun	no	Y/Y
SAL	<i>Salix lasiolepis</i>	arroyo willow	[Incl. <i>Sl. var. bigelovii</i> ; <i>S. franciscana</i>] Recorded historically (1837) from Alemany Blvd., Bayview Hills, Cliff House, Corona Hts., Crocker Amazon, Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End (Pt. Lobos), Lone Mt., McLaren Park, Mt. Davidson, Pine Lake, the Presidio (Baker Beach, Baker Beach n., Lobos Cr. Valley, Mountain Lake, Presidio Bluffs), San Miguel Hills, and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. SF is the type locality (holotype, isoelectotype of <i>S. bigelovii</i> ; lectotype of <i>S. franciscana</i>).	t	dp	Shores, marshes, meadows, springs, bluffs; Elevation: < 2800 m. WET: FACW	49	Jan-Jun	no	Y/Y
SAL	<i>Salix scouleriana</i>	Scouler's willow	Recorded historically (1919) from Lake Merced and the Presidio (CCH); not included in Howell, <i>et al.</i> Reported from Golden Gate Hts. and McLaren Park.	t	dp	Dry to moist forest, meadows, springs, swamps; Elevation: 1-3400 m. WET: FAC	2	Feb-Jun	no	Y/Y
SAL	<i>Salix sitchensis</i>	Sitka willow	[<i>S. coulteri</i>] Recorded historically (1956) from Brotherhood Way and the Presidio (Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way and Pine Lake.	t	dp	Tidal swamps, marshes, springs, stream-beds; Elevation: < 400 m. WET: FACW. SERP: 1.6	2	Mar	no	Y/Y
SAL	<i>Salix</i> sp.	willow	Reported (to genus) from Brotherhood Way and Lake Merced; needs id.	t	dp	n/a	2	n/a	no	n/a
SAL	<i>Salix</i> [?] <i>rubens</i>	hybrid crack willow	[Unresolved; possible addition to TJM. <i>S. ? fragilis</i> , pending. Hybrid between <i>S. alba</i> and <i>S. fragilis</i> .] Known from a single 1971 collection from Golden Gate Park (Stow Lake; CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF.	t	dp	Possibly naturalized.	0	sp	no	N/N
SOL	<i>Salpichroa origanifolia</i>	lily-of-the-valley vine	[<i>S. rhomboida</i>] Recorded historically (1913) from Golden Gate Park, Land's End, Lincoln Park, the Richmond Dist., Sunset Dist. dunes, and Sutro Hts. (Howell, <i>et al.</i> , CCH). Reported from Buena Vista Park, Clarendon Hts., Golden Gate Park (Oak Woodland, misc.), Ina Coolbrith Park, Interior Greenbelt, Laguna Honda Valley, and Sutro Forest; expected elsewhere. INVASIVE STATUS: W/-/C/-	h	p	Naturalized. Decumbent to climbing. Disturbed places; Elevation: < 100 m.	8	Jul-Oct	no	N/N
CHN	<i>Salsola soda</i>	alkali Russian thistle	[Amaranthaceae, pending] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Candlestick Pt., Heron's Head Park, Hunters Pt., Pier 94, and the Presidio (Crissy Field), and Yerba Buena Is. INVASIVE STATUS: M/3/-/-	h	a-p	Naturalized. Uppermost intertidal zone, saline or muddy flats, open areas in salt marshes; Elevation: < 40 m. WET: FACW	6	Jul-Oct	no	N/N
CHN	<i>Salsola tragus</i>	prickly Russian thistle	[<i>S. kali</i> var. <i>tenuifolia</i> , misappl.; Amaranthaceae, pending] Recorded historically (1956) from Golden Gate Park, Lake Merced, Mission Bay, se. SF (Howell, <i>et al.</i> , CCH). Reported from Heron's Head Park. INVASIVE STATUS: L/-/NW,C/-	h	a-p	Naturalized. Disturbed places; Elevation: < 2800 m. WET: FACU	1	Jun-Oct	no	N/N

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LAM	<i>Salvia leucantha</i>	Mexican bush sage	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Bernal Hts. Park, Golden Gate Park, and Yerba Buena Is.	s	ep	Ornamental; naturalized.	3	fall-sp	no	N/N
LAM	<i>Salvia leucophylla</i>	Cal. purple sage	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Native Cal. taxon but not considered indigenous here. Reported from Everson/Digby Open Space, Ft. Mason, Glen Cyn., Golden Gate Park (Strawberry Hill, misc.), the Presidio (Mountain Lake), Starr King, the Sunset Dist., the Sunnyside Dist., and Sutro Forest; planted.	s	ep	Dry, open hills, sea bluffs; Elevation: 30-1250 m.	8	Apr-Jun	CA	N/Y
LAM	<i>Salvia mellifera</i>	black sage	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Native Cal. taxon but not considered indigenous here. Reported from Alemany Farm, Crocker-Amazon Natural Area, Golden Gate Park, McLaren Park, Mission Bay Cr., and Yosemite Slough where it was undoubtedly planted.	s	ep	Coastal-sage scrub, lower chaparral; Elevation: < 1350 m.	6	Mar-Jun	CA	N/Y
LAM	<i>Salvia microphylla</i>	baby sage	Known from a single 1914 collection from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> Reported from McLaren Park (iNaturalist).	s	ep	Waif or garden escape; not naturalized.	1	Jan-Dec	no	N/N
LAM	<i>Salvia spathacea</i>	Cal. hummingbird sage	Known from a single 1888 collection from Bernal Hts. (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Bernal Hts. Park, Buena Vista Park, Candlestick Pt., Everson/Digby Open Space, Fairmont Plaza, Glen Cyn., Golden Gate Park, Hilltop Park, Laguna Honda Valley, McLaren Park, and Palou-Phelps; introduced at Lone Mt., the Richmond Dist., SFSU, Starr King, Sutro Forest, the Sunset Dist., and Visitación Valley; widely planted. Voucher specimen needed.	h	p	Matted, rhizomatous. Oak woodland, chaparral, coastal-sage scrub, open or shady slopes; Elevation: < 800 m.	16	Mar-May	CA	Y/Y
ADX	<i>Sambucus nigra</i> ssp. <i>caerulea</i>	European black elderberry	[<i>S. caerulea</i> , pending; <i>S. mexicana</i>] Previously included in the Caprifoliaceae. Recorded historically (1953) from Bayview Hills, Brotherhood Way, Golden Gate Park, McLaren Park, Pine Lake, and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts., Buena Vista Park, Edgehill Mt., Ft. Funston, Glen Cyn., Golden Gate Park (Strawberry Hill, misc.), Laguna Honda Valley, McLaren Park, Palou-Phelps, Pine Lake, the Presidio (Crissy Bluffs, Dragonfly Cr., Golf Course Natural Area, Mountain Lake, Res. Cultural Plantation, Tennessee Hollow), Russian Hill, and Yerba Buena Is.	s	dp	stream-banks, open places in forest; Elevation: < 3000 m. WET: FACU	21	Mar-Sep	no	Y/Y
ADX	<i>Sambucus racemosa</i> var. <i>racemosa</i>	red elderberry	[<i>S. callicarpa</i> , <i>S. microbotrys</i>] Previously included in the Caprifoliaceae. Recorded historically (1950) from Laguna Honda Valley, Golden Gate Park (Strawberry Hill, misc.), Mt. Davidson, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	s	dp	Moist places; Elevation: < 3300 m. WET: FACU	32	May-Jul	no	Y/Y
TEO	<i>Samolus parviflorus</i>	water pimpernel	[<i>S. floribundus</i>] Previously included in the Primulaceae. Known from a single 1888 report from SF (Howell, <i>et al.</i>); there are no SF records in CCH. SF would represent the northernmost station on the coast. Known from the East Bay from Suisun Bay and into the Delta. SF does not lie within the species' bioregion; its status as an indigenous SF species is questionable. Extirpated; last collected in 1888.	h	p	Moist sites; Elevation: generally < 1300 m. WET: OBL	0	sp-sum	no	?/Y
API	<i>Sanicula arctopoides</i>	footsteps-of-spring	Recorded historically (1866) from Bayview Hills, Bernal Hts., Corona Hts., Forest Hills, Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End, Lone Mt. (Masonic Cemetery), McLaren Park, Mt. Davidson, Mt. Sutro, the Presidio (above Baker Beach), San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	p	Open coastal bluffs, headlands, dunes; Elevation: < 250 m.	32	Feb-May	no	Y/Y
API	<i>Sanicula bipinnatifida</i>	purple sanicle	Recorded historically (1877) from Bayview Hills, Corona Hts., Hunters Pt. Ridge, Laguna Honda Valley, Lake Merced, McLaren Park, Mt. Davidson, Potrero Hills, the Presidio (above Baker Beach), San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Corona Hts., Dorothy Erskine Park, Glen Cyn., Hunters Pt. Ridge, Laguna Honda Valley, McLaren Park, O'Shaughnessy Hollow, the Presidio (Baker Beach n., Crissy Bluffs, Ft. Point, Inspiration Pt., Presidio Bluffs, Tennessee Hollow, WWII Memorial), Starr King, and Twin Peaks.	h	p	Open grassland, generally on serpentine, or pine/oak woodland; Elevation: 20-1850 m. SERP: 1.8	17	Mar-May	no	Y/Y
API	<i>Sanicula crassicaulis</i>	Pacific snakeroot	Recorded historically (1938) from Bayview Hills, Golden Gate Park, Laguna Honda Valley, Lake Merced, Mt. Davidson, Mt. Olympus, the Presidio, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	p	Open slopes, ravines, woodland; Elevation: < 1500 m.	41	Mar-May	no	Y/Y
API	<i>Sanicula maritima</i>	adobe sanicle	Known from two collections (1891, 1895) from Potrero Hills (Howell, <i>et al.</i> , CCH). Extirpated from the SF Bay Area. SF is the type locality. RARITY STATUS: --SR/1B.1	h	p	Coastal, grassy, open wet meadows, ravines; Elevation: +- 150 m. WET: FACW, SERP: 2.3	0	Feb-May	CA	Y/Y
API	<i>Sanicula tuberosa</i>	tuberous sanicle	Recorded historically (c. 1890) from dry rocky slopes in the e. part of the city, possibly Hunters Pt. Ridge and Potrero Hills (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from the Presidio (Inspiration Pt.). Voucher specimen needed.	h	p	Open gravelly meadows, chaparral, woodland, pine forest; Elevation: 30-2700 m. SERP: 1.3	1	Mar-Jul	no	Y/Y
AST	<i>Santolina chamaecyparissus</i>	lavender cotton	Recorded historically (1956) from Bayview Hills, Glen Cyn., and Golden Gate Park (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	s	ep	Naturalized.	0	May-Jul	no	N/N
CRY	<i>Saponaria officinalis</i>	bouncing-bet soapwort	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (NRDB). INVASIVE STATUS: L/-/-/-	h	p	Waif. Escape from cultivation in disturbed areas; Elevation: < 1200 m. WET: FACU	1	Jun-Sep	no	N/N
DPS	<i>Scabiosa atropurpurea</i>	pincushion flower	[<i>Sisalix a.</i> , pending] Recorded historically (1950) from Alemany Blvd., Corona Hts., Lake Merced, McLaren Park, Mt. Davidson, the Presidio, Russian Hill, and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Bernal Hts. Park, Golden Gate Park, Juvenile Hall, McLaren Park, Mission Dist., O'Shaughnessy Hollow, Palou-Phelps, the Presidio (Doyle Dr. Natural Area, Dragonfly Cr., Ft. Point, Main Post, Tennessee Hollow), the Richmond Dist., and Twin Peaks. INVASIVE STATUS: W/1/-/-	h	a	Naturalized. Disturbed areas; Elevation: < 600 m.	12	Mar-Nov	no	N/N

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API	<u><i>Scandix pecten-veneris</i></u>	shepherd's needle	Recorded historically (1956) from Bayview Hills, Golden Gate Park, Lake Merced, Lone Mt., McLaren Park, Mt. Davidson, the Richmond Dist., San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., McLaren Park, the Presidio (Doyle Dr. Natural Area, Golf Course Natural Area, Main Post, Presidio Hills), and Yerba Buena Is.	h	a	Naturalized. Grassy slopes, road-sides; Elevation: 15-1000 m.	7	Apr-Jun	no	N/N
OPH	<i>Sceptridium multifidum</i>	leather grape-fern	[<i>Botrychium m. var. intermedium</i>] Known from a single collection (c. 1945) at marshes near Sixth and Harrison streets (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1945.	f	p	Wet meadows, edges of lakes and streams, among willows; Elevation: < 2900 m. WET: FAC	0	n/a	no	Y/Y
ANA	<i>Schinus molle</i>	Peruvian peppertree	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Candlestick Pt., Corona Hts., Crocker-Amazon Playground, Hilltop Park, McLaren Park, Mission Bay, the Mission Dist., and the Presidio (Main Post). INVASIVE STATUS: L/-/-/-/-	t	ep	Naturalized. Root-sprouting or not. Washes, slopes, abandoned fields; Elevation: < 700 m. WET: FACU	7	Mar-Jun	no	N/N
ANA	<i>Schinus terebinthifolius</i>	Brazilian peppertree	[<i>S. terebinthifolia</i> , pending] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from near Buena Vista Park, Noe Valley, the Presidio (Tennessee Hollow), and Yerba Buena Is; expected elsewhere. INVASIVE STATUS: MA/-/-/-/-	t	ep	Naturalized. Washes, canyons; Elevation: < 200 m. WET: FAC	3	May-Sep	no	N/N
CYP	<i>Schoenoplectus acutus</i> var. <i>occidentalis</i>	common tule	[<i>Scirpus a. var. o.</i> ; <i>Scirpus rubiginosus</i>] Known from a single 1956 collection near Alemany Blvd. (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Brotherhood Way and the Presidio (Mountain Lake). Voucher specimen needed.	g	p	Rhizomatous, 1-4 m tall. Stems cylindrical. Marshes, shores, fens, shallow lakes, often emergent; Elevation: < 2500 m. WET: OBL	2	sum	no	Y/Y
CYP	<i>Schoenoplectus americanus</i>	American three-square	[<i>Scirpus a.</i> ; <i>S. olneyi</i>] Recorded historically (1888) from the Presidio (Ft. Point, Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from the Presidio (Ft. Point, Mountain Lake).	g	p	Rhizomatous, 0.4-2.5 m tall. Stem sides 3, deep-concave (flat), edges sharp. Mineral-rich or brackish marshes, shores, fens, springs; Elevation: < 2200 m. WET: OBL	2	sum	no	Y/Y
CYP	<i>Schoenoplectus californicus</i>	Cal. bulrush, Cal. tule	[<i>Scirpus c.</i>] Recorded historically (1893) from Brotherhood Way, Golden Gate Park, Lake Merced, Pine Lake, the Presidio (Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way, Ft. Funston, Lake Merced, Pine Lake, and the Presidio (Lobos Cr. Valley, Mountain Lake, Presidio Hills, Tennessee Hollow).	g	p	Rhizomatous, 1-4 m tall. Stems blunt, 3-sided. Brackish to fresh marshes, shores; Elevation: < 1500 m. WET: OBL	8	sp-sum	no	Y/Y
CYP	<i>Schoenoplectus pungens</i> var. <i>longispicatus</i>	common three-square	[<i>S.p. var. badius</i> ; <i>Scirpus p.</i> ; <i>S. americanus var. polyphyllus</i>] Recorded historically (1877) from Bayview Hills, Golden Gate Park (Stow Lake), Lake Merced, McLaren Park, Pine Lake, and the Presidio (Ft. Point; Howell, <i>et al.</i> , CCH). Reported (as full species) from Brotherhood Way, Land's End, McLaren Park, the Presidio (Crissy Field, Crissy Bluffs, Doyle Dr. Natural Area, Dragonfly Cr., Ft. Point, Tennessee Hollow), and Sutro Baths; presumably <i>S.p. var. longispicatus</i> .	g	p	Rhizomatous, 1-2 m tall. Stem sides 3, flat (to deep-concave), edges sharp. Fresh or brackish marshes, shores, fens; Elevation: < 2400 m. WET: OBL	10	lsp-sum	no	Y/Y
CYP	<i>Schoenoplectus tabernaemontani</i>	softstem bulrush	[<i>Scirpus t.</i> ; <i>S. validus</i>] Recorded historically (1922) from the Marina Dist. (Howell, <i>et al.</i>); there are no SF records in CCH. Uncommon in Cal.; SF lies outside of the species' bioregion and there are no records of it occurring south of SF. Not regarded as indigenous to SF.	g	p	Rhizomatous, 0.5-2 m tall. Stems cylindrical. Fresh marshes, shores, stream bars, fens; Elevation: < 2400 m. WET: OBL	0	May-Jun	no	N/Y
CYP	<i>Scirpus microcarpus</i>	small-fruited bulrush	Recorded historically (1888) from Golden Gate Park (Chain-of-Lakes), Lake Merced, Oceanview, the Presidio (Lobos Cr. Valley, Mountain Lake), and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way, Glen Cyn., and the Presidio (Baker Beach n., Crissy Field, Dragonfly Cr. Lobos Cr. Valley, Mountain Lake).	g	p	Rhizomatous, 0.6-2 m tall. Stems 3-angled. Marshes, wet meadows, stream-banks, pond margins, sometimes weedy; Elevation: < 3000 m. WET: OBL	7	Jun-Jul	no	Y/Y
SCR	<i>Scrophularia californica</i>	Cal. figwort or beeplant	[Incl. <i>S.c. ssp. c.</i>] Recorded historically (1902) from Bayview Hills, Golden Gate Park, Hunters Pt. Ridge, Laguna Honda Valley, Lake Merced, Land's End, Lone Mt., Pine Lake, Russian Hill, the Presidio (Baker Beach, Lobos Cr. Valley), Sunset Dist. dunes, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. Host plant for the Variable Checkerspot butterflies.	h	p	Damp places, chaparral, road-sides; Elevation: < 2500 m. WET: FAC	76	Mar-Jul	no	Y/Y
LAM	<i>Scutellaria californica</i>	Cal. skullcap	Recorded from a single 1902 collection from "SF hills" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1902. SF represents the southernmost station.	h	p	Rhizomatous. Open sites, scrub, woodland; Elevation: 50-2200 m.	0	Jun-Jul	CA	Y/Y
LAM	<i>Scutellaria tuberosa</i> (r)	Danny's skullcap	Known from a single collection (c. 1890) from se. SF (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1890. Apparently planted at the Presidio (Mountain Lake Park Playground).	h	p	From tubers. Dry sites, chaparral, oak woodland; Elevation: < 1450 m.	1	Mar-Jul	no	Y/Y
ANA	<i>Searsia lancea</i>	African sumac	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Mission Bay.	t	p	Naturalized. Canyons, alluvial fans in desert, coastal scrub, riparian woodland, disturbed places; Elevation: < 500 m.	1	Mar-Jun	no	N/N
POA	<i>Secale cereale</i>	cereal rye	Recorded historically (1956) from near Mission Bay (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF; to be expected.	g	a-b	Naturalized. Disturbed slopes, road-sides; Elevation: < 1800 m.	0	Feb-Mar	no	N/N
CRS	<i>Sedum album</i>	white stonecrop	Recorded historically (1956) from Golden Gate Hts., Golden Gate Park, Laguna Honda Valley, and Sunset Hts. (Howell, <i>et al.</i> , CCH). Reported from the Mission and Sunset districts.	h	p	Naturalized. Stem creeping or short-ascending. Disturbed sites; Elevation: generally < 1350 m.	0	Jul-Sep	no	N/N
CRS	<i>Sedum dendroideum</i>	stonecrop	Recorded historically (1955) from the Sea Cliff Dist. (Howell, <i>et al.</i>); there are no SF records in CCH. Not occurring in Cal. (JFP, 2021). Reported from Laguna Honda Valley, McLaren Park, and Yerba Buena Is.; needs id. Likely confused with <i>S. praetium</i> .	s	p	Not occurring in Cal.	3	sp-sum	no	N/N

ANNOTATED CHECKLIST OF THE VASCULAR PLANTS OF SAN FRANCISCO

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon Underlined = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonymy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFG / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ^g	# OCCURRENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC SF/Bay Area/CA	NATIVE - SF / CA
CRS	<i>Sedum praelatum</i>	green cock's-comb	Recorded historically (1954) from SF (CCH); not included in Howell, <i>et al.</i> ; likely misidentified as <i>S. dendroideum</i> . Reported from Crocker-Amazon Natural Area, Duncan-Castro Open Space, Golden Gate Hts., Hawk Hill, McLaren Park, and Tank Hill.	ss	p	Naturalized. Stems generally erect. Disturbed sites; Elevation: < 100 m.	6	Mar-Jun	no	N/N
CRS	<i>Sedum spathulifolium</i>	broad-leaved stone-crop	Recorded historically (1896) from Land's End (Pt. Lobos), Mt. Davidson, Mt. Sutro, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Billy Goat Hill, Glen Cyn., Land's End, Mt. Davidson, O'Shaughnessy Hollow, Palou-Phelps, Potrero Hill, Tank Hill, and Twin Peaks; some locations are presumably planted. Larval food plant for the San Bruno Elfyn butterfly.	h	p	Outcrops, often in shade; Elevation: 50-2500 m.	10	Apr-Aug	no	Y/Y
AST	<i>Senecio (Erechtites) sp.</i>	fireweed	[<i>Erechtites sp.</i>] Reported (to genus) from O'Shaughnessy Hollow; needs id.	h	a-p	n/a	1	n/a	no	N/N
AST	<i>Senecio aphanactis</i>	chaparral ragwort	Known from a single 1956 collection near Billy Goat Hill (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1956. SF is the northernmost station. RARITY STATUS: -/-/2B.2	h	a	Alkaline flats, dry open rocky areas; Elevation: 10-550 m.	0	Jan-Apr	no	Y/Y
AST	<i>Senecio aronicoides</i>	Cal. rayless groundsel	Recorded historically (1895) from Bayview Hills, Brotherhood Way, Lake Merced, Mt. Davidson, Mt. Sutro, Oceanview, the Presidio (above Baker Beach, Ft. Point), Sunset Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Mt. Davidson, and the Presidio (Ft. Point, Presidio Bluffs)	h	b-p	Dry or drying sites in open woodland, upper foothill, montane forest; Elevation: 800-3020 m.	4	Apr-Jul	no	Y/Y
AST	<i>Senecio elegans</i>	red-purple ragwort	Recorded historically (1912) from Cliff House, Lake Merced, Land's End, the Presidio (above Baker Beach, Lobos Cr. Valley), Sunset Dist. dunes, and Sutrro Hts. (Howell, <i>et al.</i> , CCH). Reported from Balboa Natural Area, Cliff House, Ft. Funston, Golden Gate Park, Lake Merced, Land's End, Ocean Beach, the Presidio (Baker Beach, Baker Beach n., Lobos Cr. Valley, Presidio Bluffs, sw. dunes, WWII Memorial), Sutro Baths, Sutro Forest, and Sutro Hts. INVASIVE STATUS: -/3/-/-	h	a	Naturalized. Disturbed coastal sites; Elevation: < 100 m.	16	Mar-Jun	no	N/N
AST	<i>Senecio glomeratus</i>	New Zealand fireweed	[<i>Erechtites arguta</i> ; <i>E. glomerata</i> ; <i>E. glomeratus</i>] Recorded historically (1930) from Bayview Hills, Hunters Pt., Lake Merced, Mt. Davidson, the Presidio (Mountain Lake), San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Glen Cyn., Mt. Davidson, the Presidio (Battery Dynamite, Crissy Bluffs, Ft. Point, Inspiration Pt., Mountain Lake, Presidio Bluffs, Tennessee Hollow, WWII Memorial), Sutro Forest, and Yerba Buena Is. INVASIVE STATUS: M/3/-/-	h	a-p	Naturalized. Disturbed sites, mostly coastal; Elevation: < 300 m.	13	Apr-Sep	no	N/N
AST	<i>Senecio jacobaea</i>	tansy ragwort	[<i>Jacobea vulgaris</i> , pending] Known from two 1934 collections at Lake Merced (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF. INVASIVE STATUS: L/-/NW,B/-	h	b-p	Naturalized. Pastures, disturbed areas; Elevation: < 1500 m.	0	Jun-Sep	no	N/N
AST	<i>Senecio minimus</i>	toothed Australian fireweed	[<i>Erechtites prenanthoides</i> ; <i>E. minima</i>] Recorded historically (1935) from Brotherhood Way, the Embarcadero, Hunters Pt., Laguna Honda Valley, Lake Merced, Land's End, Mt. Davidson, Mt. Sutro, Pine Lake, the Presidio (Dragonfly Cr., Ft. Point, Ft. Scott), the Richmond Dist., San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Mt. Davidson, the Presidio (Crissy Bluffs, Doyle Dr. Natural Area, Ft. Point, Inspiration Pt., Presidio Bluffs, Tennessee Hollow, WWII Memorial), the Sea Cliff Dist., Sutro Forest, and Yerba Buena Is. INVASIVE STATUS: M/3/-/-	h	a-p	Naturalized. Disturbed coastal sites; Elevation: < 200 m. WET: FACU	12	Jun-Sep	no	N/N
AST	<i>Senecio sylvaticus</i>	woodland groundsel	Recorded historically (1956) from Bayview Hills and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Presidio Bluffs) and Tank Hill.	h	a	Naturalized. Disturbed woodland, open, sandy sites; Elevation: 100-300 m. WET: UPL	2	Mar-Sep	no	N/N
AST	<i>Senecio vulgaris</i>	common groundsel	Recorded historically (1877) from Bayview Hills, Golden Gate Park, Hunters Pt., Lake Merced, Lone Mt., Mt. Davidson, Nob Hill, the Presidio (Mountain Lake), Russian Hill, San Miguel Hills, se. SF, the Sunset Dist., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a	Naturalized. Disturbed areas; Elevation: < 1300 m. WET: FACU	42	Feb-Jul	no	N/N
FAB	<i>Senna multiglandulosa</i>	glandular cassia	[<i>Cassia tomentosa</i>] Recorded historically (1955) from Golden Gate Park (Howell, <i>et al.</i>); there are no SF records in CCH. Not reported from any natural areas; reported from an urban setting near Bernal Hts. Park, Pacific Hts., and the Presidio (Golf Course, Mountain Lake).	s-t	p	Naturalized. Disturbed areas; Elevation: < 500 m.	3	May-Jun	no	N/N
CUP	<i>Sequoia sempervirens</i>	coast redwood	Previously included in the Taxodiaceae. Recorded historically (1920) from SF (CCH); not included in Howell, <i>et al.</i> Native Cal. species present in SF solely as ornamental plantings.	t	ep	Redwood forest; Elevation: < 1100 m.	16	n/a	no	N/Y
CUP	<i>Sequoiadendron giganteum</i>	giant sequoia	Previously included in the Taxodiaceae. Recorded historically (1879) from SF (CCH); not included in Howell, <i>et al.</i> Reported from Buena Vista Park, Golden Gate Park, and the Presidio (Golf Course, Presidio Hills). Native Cal. species present in SF solely as ornamental plantings.	t	ep	Mixed-conifer forest, especially with favorable soil moisture; Elevation: 825-2700 m.	4	n/a	CA	N/Y
AIZ	<i>Sesuvium verrucosum</i>	western sea purslane	Not included in Howell, <i>et al.</i> and there are no records in CCH. Reported from Candlestick Pt.; expected elsewhere. SF represents a range extension; needs verification. Not considered indigenous to SF.	h	p	Moist or seasonally dry flats, margins of generally saline wetlands; Elevation: < 1400 m. WET: FACW	1	Apr-Sep	no	N/Y
POA	<i>Setaria parviflora</i>	marsh bristlegrass	[<i>S. geniculata</i>] Recorded historically (1957) from Golden Gate Park (Howell, <i>et al.</i> , CCH). Reported from a West of Twin Peaks neighborhood.	g	p	Naturalized. Cespitose from short rhizomes. Moist, disturbed areas, road-sides, stream-banks, canal banks; Elevation: < 1470 m. WET: FAC	0	May-Sep	no	N/N
POA	<i>Setaria verticillata</i>	hooked bristlegrass	Recorded historically (1957) from the Richmond Dist. (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF; to be expected.	g	a	Naturalized. Decumbent to erect. Disturbed places, fields, road-sides; Elevation: < 550 m. WET: FACU	0	May-Nov	no	N/N

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POA	<i>Setaria viridis</i>	green bristlegrass	Recorded historically (1957) from Golden Gate Park (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	g	a	Naturalized. Decumbent to erect. Moist, disturbed areas, road-sides, stream-banks; Elevation: < 1525 m.	0	May-Oct	no	N/N
RUB	<i>Sherardia arvensis</i>	field madder	Recorded historically (1956) from Bernal Hts., Golden Gate Park, Lake Merced, McLaren Park, the Mission Dist., the Presidio (Baker Beach), the Richmond Dist., and Russian Hill (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Glen Cyn, the Presidio (Doyle Dr. Natural Area, Ft. Scott, Inspiration Pt., Main Post), and Yerba Buena Is.; expected elsewhere.	h	a	Naturalized. Matted. Pastures, disturbed areas, grassland, dry meadows, oak woodland; Elevation: 10-1160 m.	7	Mar-Jul	no	N/N
MLV	<i>Sidalcea malvaeflora</i> ssp.	checkerbloom	[<i>S. malvaeflora</i>] Recorded historically (1917, as full species) from Bayview Hills, Glen Cyn., Laguna Honda Valley, Lake Merced, McLaren Park, Mt. Davidson, Mt. Sutro, Potrero Hills, the Presidio (above Baker Beach), San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported (as full species) from throughout the city and the Presidio; needs id. <i>S.m.</i> ssp. <i>laciniata</i> and ssp. <i>m.</i> collected from SF. Also in range of <i>S.m.</i> ssp. <i>purpurea</i> and ssp. <i>rostrata</i> .	h	p	WET: FACW	22	Mar-Jul	no	Y/Y
MLV	<i>Sidalcea malvaeflora</i> ssp. <i>laciniata</i>	checkerbloom	[<i>S. malvaeflora</i>] Recorded historically (1888) from Golden Gate Park, Hunters Pt. Ridge, and Twin Peaks (CCH); not included in Howell, <i>et al.</i> Reported from Bernal Hts. Park. Reported (as full species) from numerous sites; needs id. Host plant for the West Coast Lady, Gray Hairstreak, Rural Skipper, and Common Checkered-Skipper butterflies.	h	p	Grassland, open woodland; Elevation: generally < 700 m. WET: FACW	1	Mar-Jul	no	Y/Y
MLV	<i>Sidalcea malvaeflora</i> ssp. <i>malvaeflora</i>	dwarf checkerbloom	[<i>S. malvaeflora</i> ssp. <i>malvaeflora</i>] Recorded historically (1891) from Lake Merced, Mt. Davidson, Mt. Sutro, the Presidio (above Baker Beach, Presidio Hills), and Twin Peaks (CCH); not included in Howell, <i>et al.</i> Reported from Billy Goat Hill, Duncan-Castro Open Space, the Presidio (Crissy Bluffs, Ft. Scott, Presidio Bluffs, Tennessee Hollow), Starr King, Tank Hill, and Twin Peaks. Voucher specimen needed. Also reported (as full species) from numerous sites. Host plant for the West Coast Lady, Gray Hairstreak, Rural Skipper, and Common Checkered-Skipper butterflies.	h	p	Coastal prairie, scrub, open forest; Elevation: generally < 500 m. WET: FACW	9	Mar-Jul	no	Y/Y
MLV	<i>Sidalcea oregana</i> ssp. <i>spicata</i>	Oregon checkerbloom	Known from a single 1900 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Native Cal. taxon but not considered indigenous here; SF occs. represent an extreme range extension. There are no contemporary reports from SF.	h	p	Meadows, stream-sides; Elevation: 975-3000 m. WET: FACW	0	May-Jul	no	N/Y
CRY	<i>Silene gallica</i>	common catchfly	Recorded historically (1901) from Bayview Hills, Bernal Hts., Brotherhood Way, Golden Gate Hts., Golden Gate Park, Lake Merced, Lone Mt., Mt. Davidson, Nob Hill, the Presidio, San Miguel Hills, Sunset Dist. dunes, Sunset Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: -/2/-/-	h	a	Naturalized. Decumbent to erect. Fields, disturbed areas; Elevation: < 1000 m.	51	sp-enum	no	N/N
CRY	<i>Silene laciniata</i> ssp.	cardinal catchfly	Known (1882, as full species) from a single collection from "SF" (CCH); not included in Howell, <i>et al.</i> <i>S.l.</i> ssp. <i>californica</i> recorded from SF Bay Area. Extirpated; last collected in 1882.	h	p	Chaparral, oak woodland, conifer forest, serpentine or not; Elevation: < 2200 m.	0	Apr-Jul	no	Y/Y
CRY	<i>Silene pseudotiocion</i>	North African catchfly	Known from two 1972 collections from "SF" (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF.	h	a	Waif or garden escape; not naturalized. Clambering to erect. Former gardens, road-sides; Elevation: < 200 m.	0	sp	no	N/N
CRY	<i>Silene scouleri</i> ssp. <i>scouleri</i>	Scouler's campion	[<i>S.s.</i> ssp. <i>grandis</i> ; <i>S. pacifica</i>] Recorded historically (1956) from Bayview Hills (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill; needs study. RARITY STATUS: -/-/2B.2	h	p	Rocky slopes, coastal bluffs; Elevation: < 300 m.	1	sum	no	Y/Y
CRY	<i>Silene verecunda</i>	San Francisco campion	[<i>S.v.</i> ssp. <i>v.</i>] Recorded historically (1868) from Forest Hill, Grandview Park, Land's End, Lake Merced, Laurel Hill, Lone Mt., Mission Dolores, Mt. Davidson, the Presidio (above Baker Beach), San Miguel Hills, and Sunset Dist. Dunes (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Ft. Funston, Mt. Davidson, the Presidio (Baker Beach, Baker Beach n., Crissy Field, Lobos Cr. Valley, Presidio Bluffs, Rob Hill, sw. dunes, WWII Memorial), and Rocky Outcrop. (Note: although <i>S.v.</i> ssp. <i>v.</i> has been subsumed, this taxon continues to be recognized as rare by CNPS and the CNDDB.) RARITY STATUS: (as <i>S.v.</i> ssp. <i>v.</i>) -/-/1B.2	h	p	Open areas, chaparral, sagebrush, oak woodland, pinyon/juniper woodland, conifer forest; Elevation: < 3400 m.	12	Mar-Aug	CA	Y/Y
AST	<i>Silybum marianum</i>	blessed milk-thistle	Recorded historically (1894) from Bayview Hills, Cliff House, Golden Gate Park, Lake Merced, Nob Hill, the Presidio, the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: L/-/-/-	h	a-b	Naturalized. Road-sides, pastures, disturbed areas; Elevation: < 900 m.	32	Feb-Jun	no	N/N
BRA	<i>Sinapis arvensis</i>	charlock mustard	[<i>Brassica kaber</i>] Recorded historically (1921) from the Embarcadero, Ft. Funston, Golden Gate Park (Stow Lake, Strawberry Hill), near Islais Cr., and the Presidio, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park, McLaren Park, and the Presidio (Golf Course Natural Area, Presidio Bluffs, Presidio Hills). INVASIVE STATUS: L/-/-/-	h	a	Naturalized. Disturbed areas; Elevation: < 1800 m.	5	Mar-Oct	no	N/N
BRA	<i>Sisymbrium altissimum</i>	tumble-mustard	Recorded historically (1918) from near Islais Cr., Land's End, the Sea Cliff Dist., and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from Mission Bay and the Presidio (Ft. Point)	h	a	Naturalized. Disturbed areas, fields, pastures; Elevation: < 2700 m. WET: FACU	2	May-Jul	no	N/N
BRA	<i>Sisymbrium irio</i>	London rocket	Recorded historically (1957) from near Islais Cr. (Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park, Lake Merced, the Presidio (Crissy Field, Mountain Lake, Presidio Bluffs), the Richmond Dist., and Twin Peaks. INVASIVE STATUS: L/3/-/-	h	a	Naturalized. Disturbed areas, fields, pastures; Elevation: < 1700 m.	6	Jan-Apr	no	N/N

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BRA	<i>Sisymbrium officinale</i>	hedge-mustard	Recorded historically (1877) from Bayview Hills, Glen Cyn., Golden Gate Park, Lake Merced, Lone Mt., Nob Hill, the Presidio (Mountain Lake), San Miguel Hills, Sunset Dist. dunes, and Telegraph Hill (Howell, <i>et al.</i> , CCH). Reported from Bernal Hts. Park, Buena Vista Park, Glen Cyn., Golden Gate Hts., Golden Gate Park, the Presidio (Mountain Lake, Presidio Gate, Pygmy Forest), and SFSU.	h	a	Naturalized. Disturbed areas, fields, pastures; Elevation: < 2200 m.	9	Apr-Jul	no	N/N
BRA	<i>Sisymbrium orientale</i>	oriental hedge-mustard	Recorded historically (1930) from Bayview Hills, the Embarcadero, near Islais Cr., Lake Merced, Land's End (Pt. Lobos), Laurel Hill, Lone Mt., the Richmond Dist., Sunset Dist. Dunes, Sutro Baths, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Mission Bay, Pier 94, the Presidio (Crissy Bluffs), San Miguel Hills, Starr King, the Sunset Dist., and Yerba Buena Is.	h	a-b	Naturalized. Disturbed areas, fields, road-sides; Elevation: < 1300 m.	5	May-Jun	no	N/N
IRI	<i>Sisyrinchium bellum</i>	Cal. blue-eyed grass	Recorded historically (1912) from Bayview Hills, Brotherhood Way, Golden Gate Hts., Golden Gate Park, Laguna Honda Valley, Laurel Hill, Lone Mt., Mt. Davidson, Mt. Sutro, the Presidio, San Miguel Hills, se. SF, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	gp	p	Rhizomatous (tufted). Open, generally moist, grassy areas, woodland; Elevation: < 2400 m. WET: FACW	49	Mar-May	no	Y/Y
IRI	<i>Sisyrinchium californicum</i>	Cal. yellow-eyed grass	Recorded historically (1887) from Cliff House, Lake Merced, the Presidio (Mountain Lake), and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn. Park, the Presidio (Mountain Lake, Presidio Hills, Tennessee Hollow, Washington/Armature Housing, WWII Memorial), and Sutro Forest; reintroduced at Bernal Hts. Park.	gp	p	Rhizomatous (tufted). Generally moist places near coast; Elevation: generally < 200 m. WET: FACW	8	sp-lsum	no	Y/Y
POA	<i>Sitanion hansenii</i>	(no common name)	[Unresolved; possible synonym of <i>Elymus</i> ⁺ <i>hansenii</i> ; unresolved. Hybrid between <i>Elymus glaucus</i> and either <i>E. elymoides</i> or <i>E. multisetus</i>] Recorded historically (c. 1955) from Bayview Hills (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF.	g	a	Cespitose. Open, sandy to rocky areas, chaparral, woodland, forest; Elevation: < 3800 m.	0	sum	no	?/Y
SOL	<i>Solanum americanum</i>	American black nightshade	[<i>S. nodiflorum</i>] Recorded historically (1837) from Brotherhood Way, Golden Gate Park, Lake Merced, Land's End, Mission Dist., the Presidio (Baker Beach), Stern Grove, and Sunset Dist. Dunes (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, Glen Cyn., Golden Gate Park (Oak Woodland, misc.), Land's End, the Presidio (Baker Beach n., Lobos Cr. Valley, Mountain Lake, Presidio Hills, sw. dunes, WWII Memorial), the Sunset Dist., and Yerba Buena Is. Once regarded as non-native; now considered native to Cal. and indigenous to SF.	h-ss	a-p	Open, often disturbed places; Elevation: < 1000 m. WET: FACU	12	Mar-Nov	no	Y/Y
SOL	<i>Solanum douglasii</i>	Douglas' nightshade	Known from a single 1931 collection from se. SF (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Golden Gate Park, Interior Greenbelt, Lake Merced, Land's End, McLaren Park, O'Shaughnessy Hollow, Pier 94, Pine Lake, the Presidio (Crissy Bluffs, Ft. Point, Golf Course Natural Area, Inspiration Pt., Mountain Lake, Oak Study Area, Presidio Bluffs, Presidio Hills, Public Health Services Area, Res. Cultural Plantation, Tennessee Hollow), Sutro Forest, and Yerba Buena Is.	h-ss	p	Dry scrub, woodland; Elevation: < 1000 m. WET: FAC	22	Jan-Dec	no	Y/Y
SOL	<i>Solanum dulcamera</i>	climbing nightshade	Recorded historically (c. 1955) from Golden Gate Park (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Golden Gate Park (Stow Lake, Strawberry Hill, misc.)	h-ss	p	Naturalized. Climbing. Moist disturbed places, marshes; Elevation: < 1000 m. WET: FAC	3	Jun-Sep	no	N/N
SOL	<i>Solanum elaeagnifolium</i>	silverleaf nightshade	Recorded historically (1956) from the Embarcadero (Howell, <i>et al.</i>); there are no SF records in CCH). There are no contemporary reports from SF. INVASIVE STATUS: -/-/NW/-	h	p	Naturalized. Rhizomatous, forming colonies; prickly. Dry, disturbed places, fields; Elevation: < 1200 m.	0	May-Sep	no	N/N
SOL	<i>Solanum furcatum</i>	S. American black nightshade	[Incl. <i>S. gayanum</i> , misappl, a taxon not occurring in Cal. (JFP, 2021)] Recorded historically (1943) from Lake Merced, Lone Mt. (USF), Mt. Sutro, the Presidio (near Baker Beach), and Russian Hill (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: -/3/-/-	h-s	p	Naturalized. Open, often disturbed places; Elevation: < 200 m.	29	May-Oct	no	N/N
SOL	<i>Solanum laciniatum</i>	kangaroo-apple	[<i>S. aviculare</i> , misappl; not occurring in Cal. (T. Daniel, pers. comm.)] Recorded historically (1902, as <i>S. aviculare</i>) from Cliff House, Golden Gate Park, Land's End, and Sutro Hts. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: W/-/-/-	s	p	Naturalized. Open, generally disturbed places; Elevation: < 100 m.	39	Jan-Dec	no	N/N
SOL	<i>Solanum lanceolatum</i>	lance-leaf nightshade	Known from a single 1927 collection from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF. INVASIVE STATUS: -/-/NW/-	s	p	Naturalized. Sparsely prickly. Disturbed places; Elevation: < 200 m.	0	Apr-Aug	no	N/N
SOL	<i>Solanum marginatum</i>	white-margined nightshade	Recorded historically (1929) from Cliff House, Fisherman's Wharf, Golden Gate Park, Laguna Honda Valley, Land's End (Lincoln Park, Pt. Lobos), Mission Bay, Mt. Sutro, and Sutro Hts. (Howell, <i>et al.</i> , CCH). Reported from Buena Vista Park. INVASIVE STATUS: -/-/NW,B/-	s	p	Naturalized. Prickly. Disturbed places; Elevation: generally < 1000 m.	1	May-Aug	no	N/N
SOL	<i>Solanum nigrum</i>	European black nightshade	Recorded historically (1901) from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> Reported from Corona Hts., Ft. Funston, Glen Cyn., Golden Gate Park, Lake Merced, Land's End, McLaren Park, O'Shaughnessy Hollow, Pine Lake, Presidio (Crissy Bluffs, Crissy Field, Golf Course Natural Area, Inspiration Pt., Lobos Cr. Valley, Mountain Lake, Oak Study Area, Officer's Row, Presidio Bluffs, Presidio Hills, Res. Cultural Plantation, sw. dunes, Tennessee Hollow, WWII Memorial), the Richmond Dist., the Sunset Dist., Sutro Baths, Sutro Forest, and Yerba Buena Is.	h-ss	a	Naturalized. Disturbed places; Elevation: < 200 m. WET: FACU	26	Mar-Oct	no	N/N
SOL	<i>Solanum physalifolium</i> var. <i>nitidibaccatum</i>	hoe nightshade	[Incl. <i>S. saracoides</i> , misappl; a taxon not occurring in Cal. (JFP, 2021)] Recorded historically (1959) from Golden Gate Park (CCH) and (1925, as full species) from Bayview Hills, Mission Bay, and Stern Grove (Howell, <i>et al.</i>) Reported (as full species) from Buena Vista Park, Ft. Funston, and the Presidio (Presidio Hills).	h	a	Naturalized. Decumbent. Disturbed areas; Elevation: generally < 1000 m.	3	May-Oct	no	N/N
SOL	<i>Solanum rostratum</i>	buffalo-bur	Recorded historically (1933) from Golden Gate Park (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from the Presidio (Inspiration Pt., Lobos Cr. Valley).	h	a	Naturalized. Densely prickly. Disturbed places, road-sides, fields; Elevation: < 1400 m.	2	May-Sept	no	N/N

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SOL	<i>Solanum</i> sp.	nightshade	Reported (to genus) from Alcatraz, Ft. Funston, Interior Greenbelt, Lake Merced, Mt. Davidson, the Presidio (Doyle Dr. Natural Area) and Tank Hill; needs id.	h-s	a-p	n/a	7	n/a	no	n/a
SOL	<i>Solanum tuberosum</i>	Irish potato	Recorded historically (c. 1955) from Hunters Pt. and Mission Bay (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Golden Gate Park.	s	p	Cultivated crop; not naturalized.	1	Mar-May	no	N/N
SOL	<i>Solanum umbelliferum</i>	blue-witch nightshade	Recorded historically (1901) from the Embarcadero and the Presidio (Baker Beach, Lobos Cr. Valley; Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Ft. Funston, Glen Cyn., the Presidio (Baker Beach, Baker Beach n., Dragonfly Cr., Ft. Point, Ft. Scott, Golf Course Natural Area, Lobos Cr. Valley, Presidio Bluffs, Presidio Hills, Tennessee Hollow, WWII Memorial).	h-ss	p	Shrubland, mixed-evergreen forest, woodland; Elevation: < 1600 m.	14	Jan-Dec	no	Y/Y
SOL	<i>Solanum xantii</i>	chaparral nightshade	Known from a single 1865 collection from "near SF" (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1865.	h-ss	p	Shrubland, oak/pine woodland, conifer forest; Elevation: < 2700 m.	0	Feb-Jul	no	Y/Y
URT	<i>Soleirolia soleirolii</i>	baby's tears	[<i>Helvina</i> s.] Recorded historically (1954) from the Embarcadero, Land's End (Lincoln Park), Lone Mt., and the Richmond Dist. (Howell, <i>et al.</i> , CCH). Reported from Clarendon Hts., the Embarcadero, Ft. Mason, Golden Gate Park, Haight/Ashbury, the Sea Cliff Dist., the Sunset Dist., west of Twin Peaks neighborhood.	h	a	Naturalized. Prostrate, generally mat-forming. Damp, shaded places; Elevation: < 215 m.	3	Mar-Jun	no	N/N
AST	<i>Solidago confinis</i>	southern goldenrod	Known from a single 1863 collection from "salt marshes near SF" (Howell, <i>et al.</i> , CCH). Extirpated from SF Bay (JFP, 2021). An attempted reintroduction at the Presidio (Crissy Field) was not successful. SF represents an extreme northern outlier for this common s. Cal. species.	h	p	Wet stream-banks, springs, marshes; Elevation: generally < 2500 m. WET: OBL	0	Apr-Oct	no	Y/Y
AST	<i>Solidago elongata</i>	West Coast goldenrod	[<i>S. canadensis</i> var. <i>e.</i> ; <i>S. lepida</i> var. <i>e.</i>] Recorded historically (1852) from Laguna Honda Valley (Alms House), Lake Merced, Lone Mt., and the Presidio (Howell, <i>et al.</i> , CCH). Reported from Bayview Hills, Dorothy Erskine Park, Duncan-Castro Open Space, Glen Cyn., Mt. Davidson, O'Shaughnessy Hollow, and Twin Peaks.	h	p	Meadows, thickets; Elevation: < 2800 m. WET: FACU	7	May-Oct	no	Y/Y
AST	<i>Solidago</i> sp.	goldenrod	Reported (to genus) from Lake Merced; needs id.	h	p	n/a	1	n/a	no	n/a
AST	<i>Solidago spathulata</i>	coastal dune goldenrod	[Incl. <i>S. ssp. spathulata</i>] Recorded historically (1882) from Brotherhood Way, Golden Gate Hts., Lake Merced, Land's End, Lone Mt., Mt. Davidson, Oceanview, Pine Lake, San Miguel Hills, Sunset Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, Glen Cyn., Golden Gate Hts., Grandview Park, Hawk Hill, Mt. Davidson, O'Shaughnessy Hollow, Pier 94, the Presidio (Baker Beach, Baker Beach n., Crissy Field, Lobos Cr. Valley, Oak Study Area, Presidio Bluffs, Presidio Hills, Res. Cultural Plantation, sw. dunes, Tennessee Hollow, WWII Memorial), Rocky Outcrop, and Twin Peaks.	h	p	Dunes, headlands; Elevation: < 600 m. WET: FACU	21	May-Nov	no	Y/Y
AST	<i>Solidago velutina</i> ssp. <i>californica</i>	velvet goldenrod	[<i>S. californica</i>] Recorded historically (1942) from Bayview Hills, Mt. Davidson, O'Shaughnessy Hollow, the Presidio, San Miguel Hills, se. SF, and Stanford Hts. (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Glen Cyn., and Mt. Davidson.	h	p	Woodland margins, grassland, disturbed soils; Elevation: < 2500 m.	3	May-Nov	no	Y/Y
AST	<i>Soliva sessilis</i>	common soliva	[<i>S. daucifolia</i>] Recorded historically (1879) from Bayview Hills, Corona Hts., Ft. Mason, Golden Gate Park, Lake Merced, Lone Mt., the Mission Dist., Mt. Davidson, Potrero Hills, the Presidio (Mountain Lake), the Richmond Dist., San Miguel Hills, the Sea Cliff Dist., and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from Corona Hts., Glen Cyn., McLaren Park, Mission Bay, the Presidio (Doyle Dr. Natural Area, Ft. Scott, Golf Course Natural Area, Inspiration Pt., Mountain Lake, Presidio Bluff, Res. Cultural Plantation, Rob Hill, sw. dunes, WWII Memorial), SFSU, Sutro Forest, and Yerba Buena Is.	h	a	Naturalized. Erect or spreading to mat-forming. Disturbed areas, especially hard-packed paths; Elevation: < 1500 m. WET: FACU	18	Apr-Jul	no	N/N
AST	<i>Sonchus asper</i> ssp. <i>asper</i>	prickly sow-thistle	Recorded historically (as full species) from Brotherhood Way, the Embarcadero, Golden Gate Park, Lake Merced, Land's End, Pacific Hts., and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: -/3/-/-	h	a	Naturalized. Slightly moist disturbed sites, along streams; Elevation: < 1900 m. WET: FAC	38	Jan-Dec	no	N/N
AST	<i>Sonchus oleraceus</i>	common annual sow-thistle	Recorded historically (1877) from Alcatraz Is., Bayview Hills, Brotherhood Way, the Embarcadero, near Islais Cr., Golden Gate Park, Lake Merced, Land's End, Lone Mt., Mt. Davidson, Nob Hill, the Presidio (Lobos Cr. Valley), Russian Hill, San Miguel Hills, Stern Grove, and Sunset Dist. dunes (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: -/3/-/-	h	a	Naturalized. Disturbed places; Elevation: < 2500 m. WET: UPL	70	Jan-Dec	no	N/N
POA	<i>Sorghum bicolor</i>	common sorghum	[<i>S. sudanense</i>] Recorded historically (c. 1955) from near Islais Cr. (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	g	p	Naturalized. Disturbed areas, road-sides; Elevation: < 600 m. WET: FACU	0	Aug-Sep	no	N/N
POA	<i>Sorghum halapense</i>	Johnsongrass	Recorded historically (1956) from the Embarcadero, near Islais Cr., and Mission Bay (Howell, <i>et al.</i> , CCH). Reported from Laguna Honda Valley, Mission Bay, and Yerba Buena Is.; expected elsewhere. INVASIVE STATUS: -/-/NW/-	g	p	Naturalized. Disturbed areas, ditch banks, road-sides; Elevation: < 1160 m. WET: FACU	3	Aug-Sep	no	N/N
IRI	<i>Sparaxis triolor</i>	harlequin flower	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Bernal Hts. Park, Ft. Mason, Land's End, Lone Mt., Mt. Davidson, the Richmond Dist., Potrero Hill, the Presidio (sw. dunes), the Sunset Dist., and Twin Peaks.	h	p	Waif or garden escape; not naturalized. Corm-forming. Disturbed sites; Elevation: < 50 m.	8	Mar-Apr	no	N/N
TYP	<i>Sparganium eurycarpum</i> var. <i>greenei</i>	bur reed	[<i>S. erectum</i> ssp. <i>stoloniferum</i>] Known from a single 1898 collection from Lake Merced (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1898.	h	p	Emergent to more or less terrestrial; not aquatic. Generally coastal; Elevation: < 150 m. WET: OBL	0	Jun-Jul	no	Y/Y

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POA	<i>Spartina alterniflora</i>	salt-water cordgrass	[<i>Sporobolus alterniflorus</i> , pending] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Heron's Head, Hunters Pt., Pier 94, and the Presidio (Crissy Field). INVASIVE STATUS: H/1/NW,B/—	g	p	Naturalized. Rhizomatous; single stems to small clumps. Coastal salt marshes; Elevation: < 10 m. WET: OBL	4	Jul-Sep	no	N/N
POA	<i>Spartina foliosa</i>	Cal. cordgrass	[<i>Sporobolus foliosus</i> , pending] Recorded historically (c. 1890) from the edge of SF Bay and se. SF (Howell, <i>et al.</i> , CCH). Reported from Heron's Head, Hunters Pt., Pier 94, and the Presidio (Crissy Field).	g	p	Rhizomatous. Salt marshes, mudflats, shores; Elevation: < 10 m. WET: OBL	4	Jun-Nov	no	Y/Y
FAB	<i>Spartium junceum</i>	Spanish broom	Recorded historically (1894) from SF (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from the Presidio. INVASIVE STATUS: H/—/NW,C/—	s	p	Naturalized. Disturbed areas; Elevation: < 900 m.	1	Apr-Jun	no	N/N
CRY	<i>Spergula arvensis</i>	stickwort, starwort	[<i>S.a. ssp. a.</i>] Recorded historically (1877) from Bayview Hills, Bernal Hts., Golden Gate Park, near Islais Cr., Lake Merced, Lone Mt., Mt. Davidson, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a	Naturalized. Open slopes, pine woodland, sand dunes, fields, disturbed areas; Elevation: < 200 m.	19	sp-esum	no	N/N
CRY	<i>Spergula</i> sp.	spurrey	Reported (to genus) from Mt. Davidson; needs id.	h	a	n/a	1	n/a	no	n/a
CRY	<i>Spergularia bocconii</i>	Boccon's sand-spurrey	Recorded historically (1933) from Bayview Hills, Golden Gate Park, Hunters Pt., Islais Cr., Lake Merced, Land's End, Laurel Hts., Lone Mt., Potrero Hills, the Presidio (Ft. Point, Lobos Cr. Valley), and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, the Presidio, Tank Hill, and Yerba Buena Is; expected elsewhere.	h	a	Naturalized. Salt marshes, alkaline areas, sandy soils; Elevation: < 400 m. WET: FACW	4	sp	no	N/N
CRY	<i>Spergularia macrotheca</i> var. <i>macrotheca</i>	large-flowered sand-spurrey	[<i>Tissa valida</i>] Recorded historically (1877) from Alcatraz Is., Cliff House, Hunters Pt. Ridge, Islais Cr., Lake Merced, Land's End, the Presidio (Ft. Point; Howell, <i>et al.</i> , CCH). Reported from Heron's Head, Hunters Pt. Ridge, Land's End, Ocean Beach, the Presidio (Crissy Field, Ft. Point, Presidio Bluffs, WWII Memorial), Sutro Baths, and Yerba Buena Is. SF is the type locality (syntype of <i>Tissa macrotheca</i> var. <i>scariosa</i>).	h	p	Salt flats, marshes, dunes, rocky outcrops, sandy or rocky coastal bluffs, gravelly ridges, alkaline fields; Elevation: < 250 m. WET: FAC	10	sp-fall	no	Y/Y
CRY	<i>Spergularia marina</i>	salt-marsh sand-spurrey	Recorded historically (1881) from Cliff House, Islais Cr., and McLaren Park (Howell, <i>et al.</i> , CCH). Reported from Pier 94, the Presidio (Crissy Field, Ft. Point), Rocky Outcrop, and Sutro Baths.	h	a	Mud flats, alkaline fields, sandy river bottoms, sandy coasts, salt marshes; Elevation: < 700 m. WET: OBL	5	Mar-Sep	no	Y/Y
CRY	<i>Spergularia media</i> var.	intermediate sand-spurrey	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported (as full species) from the Presidio (Crissy Field); needs id. Presumably <i>S.m.</i> var. <i>media</i> .	h	a-p	Naturalized. Salt flats, salt marshes, sandy beaches; Elevation: < 2 m. WET: FACW	1	sum-fall	no	N/N
CRY	<i>Spergularia rubra</i>	ruby sand-spurrey	Recorded historically (1898) from Bayview Hills, Golden Gate Park, Hunters Pt., Lake Merced, Lone Mt., the Presidio, the Richmond Dist., San Miguel Hills, Sunset Dist., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Candlestick Pt., Ft. Funston, Glen Cyn., the Presidio (Crissy Field, Ft. Point, Inspiration Pt., Mt. Davidson, Presidio Bluffs, Presidio Hills, sw. dunes, Tennessee Hollow, WWII Memorial) the Richmond Dist., SFSU, and Starr King; expected elsewhere.	h	a-p	Naturalized. Open forest, gravelly glades, meadows, mud flats, disturbed areas; Elevation: < 2400 m. WET: FAC	14	sp-fall	no	N/N
CRY	<i>Spergularia villosa</i>	hairy sand-spurrey	[<i>S. clevelandii</i>] Recorded historically (1880) from Bayview Hills, the Embarcadero, Golden Gate Park, Hunters Pt. Ridge, Lake Merced, Laurel Hill Cemetery, Mission Hills, Nob Hill, the Presidio (Presidio Bluffs; Howell, <i>et al.</i> , CCH). Reported from Lake Merced and the Presidio.	h	p	Naturalized. Sandy slopes, bluffs, clay ridges, plains, disturbed areas; Elevation: < 450 m.	2	sp	no	N/N
ORC	<i>Spiranthes porrifolia</i>	creamy ladies' tresses	Known from a single 1900 collection from "SF" (CCH); not included in Howell, <i>et al.</i> Apparently rediscovered at Twin Peaks in 2012 (CCH); awaiting confirmation by Tom Daniel.	h	p	Wet meadows, freshwater marshes, seeps, grassland, oak woodland; Elevation: < 2500 m. WET: FACW	1	May-Sep	no	Y/Y
ORC	<i>Spiranthes romanzoffiana</i>	ladies' tresses	Recorded historically (1931) from Lake Merced, Mt. Davidson, Pt. Lobos, and the Presidio (Ft. Point, Presidio Bluffs; Howell, <i>et al.</i> , CCH). Reported from Mt. Davidson, and the Presidio (Baker Beach n., Crissy Bluffs, Doyle Dr. Natural Area, Ft. Point, Presidio Bluffs, Rob Hill, WWII Memorial).	h	p	Wet meadows, freshwater marshes, seeps; Elevation: < 3300 m. WET: FACW	8	May-Sep	no	Y/Y
ARA	<i>Spirodela polyrhiza</i>	giant duckmeat	Previously included in the Lemnaceae. Known from two 1903 collections from Lake Merced (CCH); not included in Howell, <i>et al.</i> Reported from Golden Gate Park (Chain-of-Lakes [Middle Lake]); needs verification.	h	p	Floating aquatic. Freshwater; Elevation: < 2500 m. WET: OBL	1	Aug	no	Y/Y
POA	<i>Sporobolus indicus</i>	smutgrass	[<i>S. poiretii</i>] Recorded historically (1950) from Golden Gate Park and the Richmond Dist. (Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park.	g	p	Naturalized. Tufted, erect. Open, disturbed areas, road-sides; Elevation: < 1200 m. WET: FACU	1	Apr-Nov	no	N/N
LAM	<i>Stachys ajugoides</i>	bugle hedge-nettle	[<i>S.a. var. a.</i>] Recorded historically (1980) from Hunters Pt. Ridge, Islais Cr., Lake Merced, Land's End, the Presidio (Mountain Lake), and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. SF is the type locality. Needs id; possible confusion with <i>S. mexicana</i> and <i>S. rigida</i> var. <i>quercetorum</i> .	h	p	Moist, open places, generally remaining wet into summer; Elevation: < 1000 m. WET: OBL	40	Feb-Apr	no	Y/Y
LAM	<i>Stachys albens</i>	cobwebby hedge-nettle	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Golden Gate Park. Native Cal. taxon but not considered indigenous here.	h	p	Swamps, seeps; Elevation: < 3000 m. WET: OBL	1	Jun-Aug	CA	N/Y
LAM	<i>Stachys bullata</i>	Cal. wood mint	Recorded historically (1884) from the Bayview Hills, Golden Gate Park, Lake Merced, Mt. Davidson, Mt. Sutro, Oceanview, the Presidio (Lobos Cr. Valley), and Stern Grove (Howell, <i>et al.</i> , CCH). Reported from Clarendon Hts., Interior Greenbelt, Land's End, Pine Lake/Stern Grove, and the Presidio (Ft. Scott, Lobos Cr. Valley, Valley, Tennessee Hollow), the Richmond Dist., Sutro Forest, Tank Hill, and Twin Peaks.	h	p	Dry slopes near coast; Elevation: < 500 m.	10	Mar-Sep	CA	Y/Y
LAM	<i>Stachys chamissonis</i>	coast hedge-nettle	Recorded historically (1892) from Golden Gate Park (Strawberry Hill), Lake Merced, se. SF (Howell, <i>et al.</i> , CCH), and the Presidio (NRDB). Extirpated; last collected in 1924.	h	p	Wet, swampy places, generally coastal; Elevation: < 150 m.	0	May-Oct	CA	Y/Y

ANNOTATED CHECKLIST OF THE VASCULAR PLANTS OF SAN FRANCISCO

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LAM	<i>Stachys mexicana</i>	Mexican hedge-nettle	[<i>S. ajugoides</i> var. <i>rigida</i> , in part] Recorded historically (1866) from Hunters Pt., Land's End (CCH); also recorded (as full species) from Hunters Pt. Ridge, Islais Cr., the Presidio (Mountain Lake, Presidio Hills), and San Miguel Hills (Howell, <i>et al.</i>) Reported from the Presidio (Armistead, Housing, Battery Dynamite, Crissy Bluffs, Doyle Dr. Natural Area, Dragonfly Cr., Eucalyptus Understory Diversification, Ft. Point, Ft. Scott, Golf Course Natural Area, Inspiration Pt., Lobos Cr. Valley, Lover's Lane, Lyon St. Plantation, Oak Study Area, Presidio Bluffs, Presidio Hills, Res. Cultural Plantation, Rob Hill, sw. dunes, Tennessee Hollow, Transfer Station Plantation, WWII Memorial). Needs id; possible confusion with <i>S. ajugoides</i> and <i>S. rigida</i> var. <i>quercetorum</i> .	h	p	Thickets, damp places, generally coastal; Elevation: < 500 m. WET: FACW	22	Apr-Sep	no	Y/Y
LAM	<i>Stachys rigida</i> var. <i>quercetorum</i>	rough hedge-nettle	[<i>S. ajugoides</i> var. <i>r.</i> , in part; <i>S.r.</i> ssp. <i>q.</i>] Recorded historically (1902) from Bayview Hill, Lake Merced, and the Presidio (above Baker Beach, Mountain Lake; CCH); also recorded (as full species) Hunters Pt. Ridge, Islais Cr., the Presidio (Mountain Lake), and San Miguel Hills (Howell, <i>et al.</i>) Reported from throughout the city and the Presidio. Needs id; possible confusion with <i>S. mexicana</i> and <i>S. ajugoides</i> .	h	p	Moist to more or less dry places; Elevation: < 2500 m. WET: FACW	35	Jul-Aug	no	Y/Y
AST	<i>Stebbinsoseris decipiens</i>	Santa Cruz microseris	[<i>Microseris d.</i>] Recorded from the San Francisco North USGS quadrangle, which includes SF and Marin cos. (CNPS, 2021). However, the species is not included in Howell, <i>et al.</i> and there are no SF records in CCH. Known from San Mateo and Marin cos. Presumed indigenous to SF. Extirpated. RARITY STATUS: -/-/1B.2	h	a	Open, sandy, shale, or serpentine sites, coastal; Elevation: 10-500 m. SERP: 1.8	0	Apr-May	CA	Y/Y
AST	<i>Stebbinsoseris heterocarpa</i>	grassland stebbinsoseris	[<i>Microseris h.</i>] Known from a single 1891 collection from Oceanview (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1891.	h	a	Open, sometimes disturbed sites, rocky to clay soils, generally inland except on the S. Coast; Elevation: < 1700 m.	0	Apr-Jun	no	Y/Y
CRY	<i>Stellaria littoralis</i>	beach starwort	Recorded historically (1887) from Cliff House and Land's End (Howell, <i>et al.</i> , CCH). Extirpated. An attempted reintroduction at the wetland at north Baker Beach was not successful. RARITY STATUS: -/-/4.2	h	p	Sprawling. Coastal marshes, bluffs; Elevation: < 40 m. WET: OBL	0	Mar-Jul	CA	Y/Y
CRY	<i>Stellaria media</i>	garden chickweed	Recorded historically (1877) from Bayview Hills, Brotherhood Way, Golden Gate Park, Hunters Pt., Lake Merced, Lone Mt., Mission Bay, Mt. Davidson, Nob Hill, Pacific Hts., Potrero Hills, the Presidio (Mountain Lake), Russian Hill, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH, Eastwood [1898]). Reported from throughout the city and the Presidio.	h	a	Naturalized. Prostrate to erect. Oak woodland, meadows, disturbed areas; Elevation: < 1500 m. WET: FACU	67	Feb-Sep	no	N/N
CRY	<i>Stellaria nitens</i>	shiny chickweed	Recorded historically (1877) from Bayview Hills, Brotherhood Way, and Mt. Davidson (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1956.	h	a	Sand dunes, stream-banks, open woodland, beneath boulders, disturbed areas; Elevation: < 1500 m.	0	Dec-Feb	no	Y/Y
CRY	<i>Stellaria pallida</i>	pale starwort	(<i>S. apetala</i> , pending) Known from a single 1934 record from Lake Merced (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF.	h	a	Naturalized. Prostrate to erect. Oak woodland, stream-banks, grassy hills, flats, disturbed areas; Elevation: < 450(1500) m.	0	sp	no	N/N
POA	<i>Stenotaphrum secundatum</i>	St. Augustine grass	Recorded historically (1957) from Golden Gate Park (Howell, <i>et al.</i> , CCH). There are no contemporary reports from SF; to be expected.	g	p	Naturalized. From long stolons. Fields, road-sides; Elevation: < 150 m. WET: FAC	0	Jul-Sep	no	N/N
AST	<i>Stephanomeria elata</i>	Santa Barbara wire-lettuce	Known from two 1924 collections from Lake Merced (CCH); not included in Howell, <i>et al.</i> Extirpated; last collected in 1924.	h	a	Chaparral openings, grassy meadows, roadside embankments; Elevation: 100-1400 m.	0	Jul-Nov	no	Y/Y
AST	<i>Stephanomeria virgata</i> ssp. <i>pleurocarpa</i>	virgate wire-lettuce	Recorded historically (c. 1900, as full species) from Golden Gate Park, Lake Merced, the Presidio, and se. SF (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Yerba Buena Is.; apparently extirpated from mainland SF. Voucher specimen needed.	h	a	Chaparral openings, grassland; Elevation: < 1800 m.	1	Jun-Nov	no	Y/Y
POA	<i>Stipa cernua</i>	nodding needlegrass	[<i>Nassella c.</i>] Known from a single 1956 collection from Bayview Hills (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1956.	g	p	Tufted. Grassland, chaparral, juniper woodland; Elevation: 5-1700 m.	0	Feb-Jul	CA	Y/Y
POA	<i>Stipa lepida</i>	foothill needlegrass	[<i>Nassella l.</i>] Recorded historically (1912) from Bayview Hills, Laguna Honda Valley, Lone Mt., Mt. Davidson, the Presidio (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, McLaren Park, the Presidio (Crissy Bluffs, Inspiration Pt., Presidio Bluffs, WWII Memorial), and Yerba Buena Is.; reintroduced at Suro Forest.	g	p	Tufted. Dry slopes, chaparral, grassland, savanna, coastal scrub; Elevation: < 1400 m.	9	Mar-Jun	no	Y/Y
POA	<i>Stipa miliacea</i> var. <i>miliacea</i>	smilo-grass	[<i>Oloptum miliaceum</i> , pending; <i>Piptatherum miliaceum</i> ; <i>Oryzopsis miliacea</i>] Recorded historically (c. 1955) from Bayview Hills, the Embarcadero, Golden Gate Park, near Islais Cr. and Russian Hill (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Bayview Hill, Candlestick Pt., the Presidio (Eucalyptus Understory Diversification), and Yerba Buena Is.; expected elsewhere. INVASIVE STATUS: L/-/-/-	g	p	Naturalized. Salt marshes, dry washes, stream-banks, chaparral, open woodland, disturbed areas; Elevation: < 1550 m.	4	Mar-Sep	no	N/N
POA	<i>Stipa pulchra</i>	Cal. purple needlegrass	[<i>Nassella p.</i>] Recorded historically (1916) from Bayview Hills, Bernal Hts., Corona Hts., Golden Gate Park (Quarry Lake/Lily Pond), Hunters Pt. Ridge, Laguna Honda Valley, Lake Merced, Mt. Davidson, Nanny Goat Hill, Potrero Hills, the Presidio, San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. Larval host plant for the Cal. Ringlet butterfly.	g	p	Tufted. Oak woodland, chaparral, grassland; Elevation: < 1700 m.	42	Mar-Jun	no	Y/Y
POA	<i>Stipa purpurata</i>	bristly spear-grass	[<i>Piptochaetium fuscum</i> , pending; <i>Piptochaetium setosum</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Glen Cyn.	g	p	Naturalized. Meadows, grassland, open woodland, disturbed areas; Elevation: 100-200 m.	1	Apr-Jun	no	N/N

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POA	<i>Stipa tenuissima</i>	Mexican feathergrass	[<i>Nassella l.</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Alcatraz Is., Bernal Hts. Park, Billy Goat Hill, Corona Hts., the Mission Dist., the Presidio (Baker Beach, Doyle Dr. Natural Area, Dragonfly Cr., Inspiration Pt., Tennessee Hollow), and SFSU. INVASIVE STATUS: W/-/-/-	g	p	Waif or garden escape; not naturalized.	10	sp-sum	no	N/N
POT	<i>Stuckenia pectinata</i>	sago pondweed	[<i>Potamogeton pectinatus</i>] Recorded historically (1891) from Golden Gate Park (Quarry Lake/Lily Pond), Lake Merced, and the Presidio (Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from the Presidio (Tennessee Hollow [El Polin Spring]) and Sutro Baths; reintroduced at the Presidio (Mountain Lake).	s	ep	Tuberous, rhizomes matted. Ponds, lakes, marshes, streams; Elevation: < 2400 m. WET: OBL	3	May-Jul	no	Y/Y
CHN	<u><i>Suaeda californica</i></u> (r)	Cal. seablite	[<i>Amaranthaceae</i> , pending] Recorded historically (c. 1870) from se. SF (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1870. Reintroduced at Heron's Head and the Presidio (Crissy Field); appears to have naturalized at Hunters Pt. and Pier 94. Host plant for the Western Pygmy Blue butterfly. SF is the type locality (syntype of <i>S.c.</i>) RARITY STATUS: FE/-/1B.1	s	ep	Mounded. Margins of coastal salt marshes; Elevation: < 5 m. WET: FACW	4	Jul-Oct	CA	Y/Y
CPR	<i>Symphoricarpos albus</i> var. <i>laevigatus</i>	white snowberry	[<i>S. rivularis</i>] Recorded historically (1898) from Brotherhood Way, Golden Gate Park, Laguna Honda Valley, Lake Merced, Mt. Sutro, and Sunset Hts. (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Glen Cyn., Golden Gate Park (Strawberry Hill), Interior Greenbelt, Laguna Honda Valley, Land's End, Mt. Davidson, O'Shaughnessy Hollow, Pine Lake, the Presidio (Dragonfly Cr., Ft. Point, Ft. Scott, Golf Course Natural Area, Horse Stables, Lobos Cr. Valley, Mountain Lake, Park Blvd. Plantation, Presidio Hills, Tennessee Hollow, WWII Memorial), Seward Mini Park, Sutro Forest, Twin Peaks, and Yerba Buena Is. Host plant for the Variable Checkerspot butterfly.	s	dp	Shady woodland, stream-banks, northern slopes; Elevation: < 1200 m. WET: FACU	24	May-Jul	no	Y/Y
CPR	<i>Symphoricarpos mollis</i>	Cal. creeping snowberry	[<i>S. acutus</i> , <i>S. hesperius</i>] Recorded historically (1956) from Bayview Hills and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Glen Cyn., Interior Greenbelt, and O'Shaughnessy Hollow.	s	dp	Ridges, slopes, open places in woodland; Elevation: 9-3000 m. WET: FACU	4	Apr-May	no	Y/Y
AST	<i>Symphotrichum chilense</i>	common Pacific aster	[<i>Aster chilensis</i> , vars.] Recorded historically (1800) from Bayview Hills, Brotherhood Way, Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End, Lone Mt., Mt. Sutro, Nanny Goat Hill, Oceanview, Pine Lake, the Presidio (Baker Beach n., Ft. Point, Presidio Hills), San Miguel Hills, Twin Peaks, and Visitation Valley (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. Larval host plant for the Field Crescent and Northern Checkerspot butterflies.	h	p	Rhizomatous. Grassland, salt marshes, disturbed places; Elevation: < 500 m. WET: FAC	48	Jun-Oct	no	Y/Y
AST	<i>Symphotrichum subspicatum</i>	Douglas aster	[<i>Aster subspicatus</i>] Recorded historically (1900) from Bayview Hills, Brotherhood Way, Laguna Honda Valley, Lake Merced, Land's End, O'Shaughnessy Hollow, Pine Lake, the Presidio (Baker Beach), San Miguel Hills, and Sutro Hts. (Howell, <i>et al.</i> , CCH). Extirpated; last collected 1961.	h	p	Rhizomatous. Open disturbed places; Elevation: < 1000 m. WET: FACW	0	Jul-Sep	no	Y/Y
AST	<i>Symphotrichum subulatum</i> var.	slimaster	[<i>Aster subulatus</i> ; <i>A. exilis</i>] Recorded historically (1888, as full species) from Islais Cr. and "SF salt marshes" (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Heron's Head, Mission Bay, Mt. Davidson and the Presidio (Golf Course Natural Area, Mountain Lake, Presidio Hills, Tennessee Hollow); needs verification. Possibly <i>S.s.</i> var. <i>parviflorum</i> . Voucher specimen needed.	h	a	Marshes, disturbed places; Elevation: < 1200 m. WET: FACW	7	Jul-Oct	no	Y/Y
AST	<i>Symphytum officinale</i>	common comfrey	Known from a single 1977 collection from O'Shaughnessy Hollow (CCH); not included in Howell, <i>et al.</i> . Presumed extant at O'Shaughnessy Hollow; also reported from Golden Gate Park.	h	p	Waif or garden escape; not naturalized. Disturbed sites; Elevation: < 1150 m.	2	May-Jul	no	N/N
TAM	<i>Tamarix aphylla</i>	Athel tamarisk	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the west end of Golden Gate Park. INVASIVE STATUS: L/-/-/-	s-t	p	Naturalized. Washes, road-sides; Elevation: < 200 m. WET: FAC	1	May-Nov	no	N/N
TAM	<i>Tamarix parviflora</i>	four-stamen tamarisk	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Richmond Dist. INVASIVE STATUS: H/-/NW/-	s-t	p	Naturalized. Washes, stream-banks, slopes, road-sides; Elevation: < 1300 m. WET: FAC	0	Apr-May	no	N/N
TAM	<i>Tamarix</i> sp.	tamarisk	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported (to genus) from Golden Gate Park and Lake Merced; needs id.	s-t	p	n/a	2	n/a	no	N/N
AST	<i>Tanacetum bipinatum</i>	western dune tansy	[<i>T. camphoratum</i>] Recorded historically (1868) from Cliff House, Golden Gate Park, Lake Merced, Land's End, Ocean Beach, Sunset Dist. dunes, Sunset Hts., and Sutro Hts. (Howell, <i>et al.</i> , CCH). Reported from 15th Ave. Steps, Balboa Natural Area, Ft. Funston, Golden Gate Hts., Grandview Park, Hawk Hill, Lake Merced, Land's End, Lone Mt., Ocean Beach, the Presidio (Baker Beach, Baker Beach n., Crissy Field, Lobos Cr. Valley, Mountain Lake, Presidio Hills, sw. dunes, WWII Memorial), the Sea Cliff Dist., Sunset Hts., Sutro Baths, and Sutro Hts.; reintroduced at Golden Gate Park (Oak Woodland).	h	p	Rhizomatous. Coastal dunes; Elevation: < 30 m.	22	Jul-Oct	no	Y/Y
AST	<i>Tanacetum parthenium</i>	feverfew tansy	[<i>Chrysanthemum p.</i>] Recorded historically (1907) from Golden Gate Park, Land's End (Pt. Lobos), the Presidio (Lobos Cr. Valley), Sunset Hts., and Telegraph Hill (Howell, <i>et al.</i> , CCH). Reported from Ft. Mason the Presidio (Lobos Cr. Valley), the Richmond Dist., and the Sunset Dist.	h	p	Naturalized. Disturbed areas, fields, woodland; Elevation: generally < 2100 m.	2	Jun-Aug	no	N/N
AST	<i>Taraxacum erythrospermum</i>	red-seeded dandelion	Recorded historically (1956) from Glen Cyn. and the Sunset Dist. (CCH); not included in Howell, <i>et al.</i> Reported from the Mission Dist. and Park Merced	h	p	Naturalized. Disturbed areas; Elevation: 50-2250 m.	0	Jan-Dec	no	N/N
AST	<u><i>Taraxacum officinale</i></u>	true dandelion	Recorded historically (1914) from the Embarcadero, Forest Hill, Golden Gate Park, Lone Mt., Mission Bay, Nob Hill, Pacific Hts., the Presidio, Russian Hill, San Miguel Hills, the Sunset Dist., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	p	Naturalized. Esp. disturbed areas; Elevation: < 3300 m. WET: FACU	42	Jan-Dec	no	N/N

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ONA	<i>Taraxia ovata</i>	grassland sun-cups	[<i>Camissonia</i> o.; <i>Oenothera</i> o.] Recorded historically (1866) from Bayview Hills, Bernal Hts., Corona Hts., Golden Gate Park, Lake Merced, Mt. Davidson, the Presidio (above Baker Beach, Golf Course, Presidio Bluffs), Pt. Lobos, San Miguel Hills, and Twin Peaks (Howell, et al., CCH). Reported from Bayview Hill, Bernal Hts. Park, Brotherhood Way, Corona Hts., Crocker Amazon, Glen Cyn., Islais Cr., McLaren Park, the Mission Dist., Mt. Davidson, O'Shaughnessy Hollow, the Presidio (Baker Beach n. Battery Dynamite, Doyle Dr. Natural Area, Ft. Point, Ft. Scott, Inspiration Pt., Main Post, Officer's Row, Presidio Bluffs, Res. Cultural Plantation, Rob Hill, sw. dunes, Tennessee Hollow, WWII Memorial), the Sunset Dist., Twin Peaks, and Yerba Buena Is.	h	p	Grassy fields, generally clay soil; Elevation: < 500 m.	25	Mar-Jun	no	Y/Y
API	<i>Tauschia kelloggii</i>	Kellogg's tauschia	Recorded historically (c. 1901) from Mission Hills (Howell, et al.); there are no SF records in CCH. Extirpated; last collected in 1901.	h	p	Scrub, chaparral, woodland, conifer forest; Elevation: 50-1700 m. SERP: 2.6	0	Apr-Jun	no	Y/Y
TXO	<i>Taxus baccata</i>	English yew	Not included in Howell, et al. and there are no SF records in CCH. Reported from Yerba Buena Is.	t	ep	Ornamental; not naturalized.	1	n/a	no	N/N
TXO	<i>Taxus brevifolia</i>	Pacific yew	Known from a single 1957 collection from the Presidio (Lobos Cr. Valley; CCH); not included in Howell, et al. Reported from Buena Vista Park where it was undoubtedly planted. Native Cal. taxon but not considered indigenous here	t	ep	Generally dense, mixed-evergreen forest, lower slopes or canyon bottoms; Elevation: 10-2150 m. WET: FACU	1	n/a	no	N/Y
SAX	<i>Tellima grandiflora</i>	fringe cups	Recorded historically (1891) from Mission Hills, the Presidio (Lobos Cr. Valley), and Sunset Hts. (Howell, et al., CCH). Reported from 15th Ave. Steps, City College, Glen Cyn., Golden Gate Park, Interior Greenbelt, Islais Cr., McLaren Park, Mt. Davidson, Pine Lake, and Sutro Forest.	h	p	Rhizomatous. Moist slopes; Elevation: < 2000 m. WET: FACU	9	Apr-Jul	no	Y/Y
AIZ	<i>Tetragonia tetragonioides</i>	New Zealand spinach	Recorded historically (c. 1900) from Bayview Hills, Ft. Funston, Golden Gate Park, Hunters Pt., near Islais Cr., Lake Merced, Land's End, Ocean Beach, Potrero Hills, the Presidio (Ft. Point), and San Miguel Hills (Howell, et al., CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: L/-/-/-	h	a	Naturalized. Sand dunes, bluffs, margins of coastal wetlands; Elevation: < 100 m.	27	Apr-Sep	no	N/N
RAN	<i>Thalictrum fendleri</i> var. <i>fendleri</i> (r)	Fendler's meadow rue	Not included in Howell, et al. and there are no SF records in CCH. SF represents the northernmost station on the coast. Reported from the Presidio (Mountain Lake); likely planted. Voucher specimen needed.	h	p	Moist, open to shaded places, woodland, forest; Elevation: 500-3200 m. WET: FAC	1	Apr-Jul	no	Y/Y
RAN	<i>Thalictrum fendleri</i> var. <i>polycarpum</i>	Fendler's meadow rue	[<i>T. polycarpum</i>] Recorded historically (c. 1890) from Mission Hills and Telegraph Hill (Howell, et al.); there are no SF records in CCH. Extirpated; last collected in 1891.	h	p	Moist, open to shaded places, woodland, forest; Elevation: < 2600 m. WET: FAC	0	Apr-May	no	Y/Y
POA	<i>Thinopyrum junceiforme</i>	Russian wheatgrass	[Unresolved. <i>Elymus farctus</i> , pending; <i>Aegypytum junceum</i>] Recorded historically (1918) from Lake Merced and Sunset Dist. dunes (Howell, et al., CCH). Reported from Ft. Funston and Lake Merced. INVASIVE STATUS: W/-/-/-	g	p	No data available.	2	Apr-Jul	no	N/N
BRA	<i>Thlaspi arvense</i>	field pennycress	Not included in Howell, et al. and there are no SF records in CCH. Reported from Ft. Funston and the Presidio (sw. dunes).	h	a	Naturalized. Disturbed areas, fields, thickets, bluffs, floodplains, woodland; Elevation: < 2000 m. WET: UPL	2	Mar-Aug	no	N/N
BRA	<i>Thysanocarpus curvipes</i> ssp.	fringe-pod	Recorded historically (1868, as full species) from Mission Hills, Lake Merced, and se. SF (Howell, et al., CCH). Extirpated; last collected in 1903. SF is within the range of both <i>T.c.</i> ssp. <i>c.</i> and <i>T.c.</i> ssp. <i>elegans</i> . Host plant for the Pacific Orange-tip butterfly.	h	a	Slopes, washes, moist meadows, woodland, stream-banks; Elevation: < 2500 m.	0	Feb-Apr	no	Y/Y
BRA	<i>Thysanocarpus laciniatus</i>	narrow-leaved fringe-pod	Recorded historically (c. 1888) from Lake Merced (Howell, et al.); the only SF record in CCH is a 1923 collection from a garden in Golden Gate Park. Extirpated; last collected in 1888.	h	a	Oak woodland, rocky ridges, slopes, chaparral, washes; Elevation: 100-1800 m.	0	Mar-May	no	Y/Y
AST	<i>Tolpis barbata</i>	European milkwort	Not included in Howell, et al. and there are no SF records in CCH. Reported from the Presidio (Ft. Scott, Lover's Lane, Public Health Services Area, Sumner Ave. Grassland, Tennessee Hollow).	h	a	Naturalized. Grassy slopes, disturbed sites; Elevation: < 600 m.	5	May-Aug	no	N/N
API	<i>Torilis arvensis</i>	field hedge-parsley	Not included in Howell, et al. and there are no SF records in CCH. Reported from Alcatraz Is., McLaren Park, the Presidio (Crissy Bluffs, Crissy Field, Doyle Dr. Natural Area, Dragonfly Cr., Lobos Cr. Valley, Main Post, Rob Hill), Starr King, and Sutro Forest. INVASIVE STATUS: M/-/-/-	h	a	Naturalized. Plant erect. Disturbed places; Elevation: < 1600 m.	11	Apr-Jul	no	N/N
API	<i>Torilis nodosa</i>	knotted hedge-parsley	Recorded historically (1882) from the Embarcadero and the Presidio (Howell, et al., CCH). Reported from Glen Cyn. and Yerba Buena Is.	h	a	Naturalized. Plant spreading. Disturbed places; Elevation: < 1800 m.	2	Apr-Jun	no	N/N
POA	<i>Torreyochloa pallida</i> var. <i>pauciflora</i>	mannagrass	[<i>T. pauciflora</i> , <i>Glyceria californica</i> , <i>Puccinelli californica</i> , <i>P. pauciflora</i>] Recorded historically (1866) from SF (Howell, et al., CCH). Extirpated; last collected in 1900.	g	p	Rhizomatous. Wet areas in forest, stream or lake margins; Elevation: < 3500 m. WET: OBL	0	Jul-Sep	no	Y/Y
ANA	<i>Toxicodendron diversilobum</i>	poison oak	[<i>Rhus diversiloba</i>] Recorded historically (1852) from Bayview Hills, Corona Hts., Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End, Lincoln Park, Lone Mt., McLaren Park, Mt. Davidson, the Presidio (Baker Beach, Lobos Cr. Valley, Presidio Hills), Russian Hill, San Miguel Hills, and Twin Peaks (Howell, et al., CCH). Reported from throughout the city and the Presidio.	s-v	dp	Canyons, slopes, chaparral, coastal scrub, oak woodland; Elevation: < 2000 m. WET: FACU	73	Apr-Jun	no	Y/Y
MLN	<i>Toxicoscordium fremontii</i>	chaparral death camas, Fremont star lily	[<i>Zigadenus</i> f.] Previously included in the Liliaceae. Recorded historically (1939) from Bernal Hts., the Presidio (Golf Course, Presidio Bluffs, Presidio Hills), and Visitation Valley (Howell, et al., CCH). Reported from Bernal Hts. Park, Glen Cyn., McLaren Park, and the Presidio (Ft. Point, Presidio Bluffs, WWII Memorial); planted at Sutro Forest.	gp	p	Bulb-forming. Grassy or wooded slopes, outcrops; Elevation: < 1000 m.	7	Feb-Jun	no	Y/Y
CM M	<i>Tradescantia fluminensis</i>	trailing spiderwort	Recorded historically (c. 1955) from Golden Gate Park and the Richmond Dist. (Howell, et al., CCH). Naturalized at Clarendon Hts., Golden Gate Hts., Golden Gate Park, the Presidio (Golf Course Natural Area, Presidio Hills), the Richmond Dist., Sutro Forest, and Yerba Buena Is.	h	p	Naturalized. Shaded woodland, stream-banks; Elevation: 70-255 m. WET: FAC	7	Apr-Jul	no	N/N

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AST	<u><i>Tragopogon porrifolius</i></u>	purple salsify	Recorded historically (1921) from Bayview Hills, the Embarcadero, Lone Mt., Mission Bay, the Mission Dist., the Richmond Dist., and Stern Grove (Howell, <i>et al.</i> , CCH). Reported from Alemamy Farm, Bayview Hill, Crocker-Amazon Natural Area, Glen Cyn., Heron's Head Park, Land's End, McLaren Park, Pier 94, the Presidio (Main Post, Tennessee Hollow), Twin Peaks, and Visitación Valley; expected elsewhere.	h	b	Naturalized. Ligule purple. Disturbed places; Elevation: < 1300 m.	12	Mar-Nov	no	N/N
ZYG	<u><i>Tribulus terrestris</i></u>	puncture vine	Recorded historically (c. 1955) from the Embarcadero and se. SF (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Mission Bay; expected elsewhere. INVASIVE STATUS: L/-/NW/-	h	a	Naturalized. Dry, disturbed areas including road-sides, railways, vacant lots; Elevation: generally < 1000 m.	1	Jun-Oct	no	N/N
FAB	<i>Trifolium albopurpureum</i>	common rancheria clover	[Incl. <i>T.a.</i> var. <i>a.</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Golf Course Natural Area, Inspiration Pt., Lobos Cr. Valley, Tennessee Hollow). Voucher specimen needed.	h	a	Coastal dunes, grassland, wet meadows, open slopes, oak chaparral, pine woodland, road-sides, disturbed areas; Elevation: < 2100 m. WET: FACU	4	Mar-Jun	no	Y/Y
FAB	<u><i>Trifolium barbigerum</i></u>	bearded clover	[Incl. <i>T.b.</i> var. <i>b.</i>] Recorded historically (1853) from Bayview Hills, Clarendon Hts., Lone Mt., McLaren Park, Mt. Davidson, the Presidio (Mountain Lake), and Visitación Valley (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Doyle Dr. Natural Area, Inspiration Pt., sw. dunes, Tennessee Hollow). SF is the type locality (holotype of <i>T.b.</i>)	h	a	Wet meadows, open, disturbed areas; Elevation: generally < 700 m. WET: FACW	4	Apr-Jun	CA	Y/Y
FAB	<i>Trifolium bifidum</i> var. <i>bifidum</i>	pinole clover	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Status as an indigenous taxon here is questionable. Reported from the Presidio (Golf Course Natural Area and Inspiration Pt.) Voucher specimen needed.	h	a	Open, grassy areas, oak chaparral, forest; Elevation: < 760 m.	2	Apr-Jun	no	?/Y
FAB	<u><i>Trifolium bifidum</i> var. <i>decipiens</i></u>	notch-leaf clover	Recorded historically (c. 1890) from Bayview Hills, Hunters Pt., Mt. Davidson, and Visitación Valley (Howell, <i>et al.</i> , CCH). Extirpated; Last collected in 1928. Possibly rediscovered at Rob Hill; needs verification.	h	a	Open, grassy areas, oak chaparral, forest; Elevation: < 1000 m.	1	Apr-Jun	no	Y/Y
FAB	<u><i>Trifolium campestre</i></u>	field hop-clover	Recorded historically (1957) from Lake Merced, Lone Mt., Mt Davidson, and the Presidio (Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way, Ft. Funston, Golden Gate Park, Land's End, McLaren Park, Pier 94, the Presidio (Baker Beach n., Crissy Bluffs, Crissy Field, Ft. Point, Ft. Scott, Horse Stables, Inspiration Pt., Lobos Cr. Valley, Main Post, Mountain Lake, Presidio Hills, Rob Hill, Tennessee Hollow, WWII Memorial), Starr King, the Sunset Dist., Suto Forest, and Yerba Buena Is.; expected elsewhere.	h	a	Naturalized. Disturbed areas, road-sides; Elevation: especially < 300 m.	23	Apr-May	no	N/N
FAB	<i>Trifolium depauperatum</i> var. <i>amplectans</i>	purple sack clover	[<i>T.amplectans</i>] Recorded historically (c. 1890) from Bayview Hills, Corona Hts., Golden Gate Park, Hunters Pt. Ridge., Lake Merced, Lone Mt., Mt. Davidson, Potrero Hill, the Presidio, San Miguel Hills, se. SF, and Visitación Valley (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, Corona Hts., Palou-Phelps, Potrero Hill, and the Presidio (Inspiration Pt., Tennessee Hollow, WWII Memorial).	h	a	Grassland, coastal woodland; Elevation: < 800 m. WET: FAC	8	Apr-Jun	CA	Y/Y
FAB	<i>Trifolium depauperatum</i> var. <i>truncatum</i>	dwarf sack clover	[<i>T.amplectans</i> ; <i>T.franciscanum</i>] Recorded historically (1892) from Bayview Hills, Mt. Davidson, and the Presidio (Howell, <i>et al.</i> , CCH). Reported from Bernal Hts. Park, the Presidio (Inspiration Pt., Presidio Bluffs, Rob Hill). SF is the type locality (holotype of <i>T.franciscanum</i>).	h	a	Grassy flats, disturbed slopes, openings in woodland; Elevation: < 800 m. WET: FAC	4	Apr-Jun	no	Y/Y
FAB	<i>Trifolium dichotomum</i>	white-tip rancheria clover	[<i>T.albopurpureum</i> ssp. <i>d.</i>] Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Presumed indigenous to SF based on collections from San Mateo and Marin cos. Reported from the Presidio (Inspiration Pt.) Voucher specimen needed.	h	a	Coastal dunes, open slopes, meadows, oak woodland, disturbed areas; Elevation: < 1300 m.	1	Apr-Jun	no	Y/Y
FAB	<u><i>Trifolium dubium</i></u>	least hop-clover	Recorded historically (1931) from Ft. Mason, Ft. Funston, Golden Gate Park, near Islais Cr., Lake Merced, Land's End (Pt. Lobos), Lone Mt., the Presidio, Russian Hill, San Miguel Hills, SF State College, and St. Francis Wood (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Golden Gate Park, McLaren Park, Pier 94, the Presidio (Crissy Field, Doyle Dr. Natural Area, Ft. Scott, Inspiration Pt., Lobos Cr. Valley, Mountain Lake, Presidio Hills, Rob Hill, Tennessee Hollow), the Richmond Dist., Starr King, the Sunset Dist., Twin Peaks, and Yerba Buena Is.; expected elsewhere.	h	a	Naturalized. Agricultural, disturbed areas; Elevation: < 500 m. WET: UPL	16	Apr-Jul	no	N/N
FAB	<i>Trifolium fragiferum</i>	strawberry clover	Recorded historically (1978) from the Presidio (Doyle Dr.) and urban settings (CCH); not included in Howell, <i>et al.</i> Reported from the Presidio (Crissy Field, Doyle Dr. Natural Area, Tennessee Hollow, WWII Memorial) and Starr King; expected elsewhere.	h	p	Naturalized. Creeping and rooting or caespitose. Road-sides, generally in saline soil; Elevation: < 1500 m. WET: FAC	5	May-Aug	no	N/N
FAB	<u><i>Trifolium fucatum</i></u>	bull clover	[<i>T.flavulum</i>] Recorded historically (1897) from Bayview Hills, Hunters Pt. Ridge, Potrero Hills, the Presidio (Howell, <i>et al.</i> , CCH). Reported from Potrero Hill, the Presidio (Inspiration Pt., Mountain Lake, Presidio Bluffs, Tennessee Hollow, WWII Memorial), and Starr King.	h	a	Moist, open grassland, marshes, road-sides, occasionally saline or serpentine soils; Elevation: < 1100 m. WET: FACU. SERP: 1.3	7	Apr-Jun	no	Y/Y
FAB	<i>Trifolium glomeratum</i>	clustered clover	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from the Presidio (Crissy Field, Rob Hill) and Yerba Buena Is.	h	a	Naturalized. Disturbed areas; Elevation: < 300 m.	3	Mar-May	no	N/N
FAB	<u><i>Trifolium gracilentum</i></u>	pinpoint clover	[<i>T.g.</i> var. <i>g.</i>] Recorded historically (1882) from Bayview Hills, Hunters Pt. Ridge, Lake Merced, McLaren Park, Mt. Davidson, Nob Hill, Potrero Hills, the Presidio (Golf Course), San Miguel Hills, Twin Peaks, and Visitación Valley (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., the Presidio (Crissy Bluffs, Lobos Cr. Valley, Mountain Lake, Presidio Hills, Rob Hill, Tennessee Hollow, WWII Memorial), Starr King, and Yerba Buena Is.	h	a	Open, disturbed, moist or dry places, occasionally serpentine; Elevation: < 1800 m. SERP: 1.0	10	Mar-Jun	no	Y/Y
FAB	<u><i>Trifolium grayi</i></u>	Gray's clover	Recorded historically (c. 1860; as <i>T.barbigerum</i> var. <i>andrewsii</i>) from Potrero Hills, the Presidio (Mountain Lake), and se. SF (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1944.	h	a	Wet meadows, foothill slopes, pine woodland; Elevation: < 600 m. WET: FACW	0	Apr-Jun	CA	Y/Y

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FAB	<i>Trifolium hirtum</i>	rose clover	Recorded historically (1974) from the Presidio (Ft. Point; CCH); not included in Howell, et al. Reported from Bayview Hill, Bernal Hts. Park, Candlestick Pt., Glen Cyn., Land's End, McLaren Park, the Presidio (Crissy Bluffs, Crissy Field, Ft. Scott, Lobos Cr. Valley, Presidio Hills, Res. Cultural Plantation, Public Health Services Area, Rob Hill, Tennessee Hollow, WWII Memorial), SFSU, Starr King, and Yerba Buena Is. INVASIVE STATUS: L/-/-/-	h	a	Naturalized. Disturbed areas, road-sides; Elevation: < 2060 m.	19	Apr-May	no	N/N
FAB	<i>Trifolium hybridum</i>	alsike clover	Recorded historically (c. 1953) from near Islais Cr. and Lake Merced (Howell, et al., CCH). Reported from the Presidio (Crissy Field) and Starr King.	h	a-p	Naturalized. Disturbed areas; Elevation: < 1500 m. WET: FAC	2	May-Oct	no	N/N
FAB	<i>Trifolium incarnatum</i>	crimson clover	Recorded historically (c. 1974) from the Presidio (CCH); not included in Howell, et al. Reported from Bernal Hts. Park, Golden Gate Park, Mission Bay, the Mission Dist., the Presidio (Mountain Lake, Tennessee Hollow), the Richmond Dist., Starr King, and Yerba Buena Is.	h	a	Naturalized. Disturbed areas; Elevation: especially < 300 m.	7	May-Aug	no	N/N
FAB	<i>Trifolium macraei</i>	twin-head clover	[<i>T. mercedense</i>] Recorded historically (1878) from Clarendon Hts., Hunters Pt., Lake Merced, Lone Mt., McLaren Park, Mt. Davidson, the Presidio (Golf Course), Twin Peaks, and Visitation Valley (Howell, et al., CCH). Reported from Ft. Funston, the Presidio (Inspiration Pt., Presidio Bluffs, Presidio Hills, sw. dunes, WWII Memorial), and Starr King.	h	a	Disturbed areas, dunes; Elevation: < 600 m.	7	Mar-May	no	Y/Y
FAB	<i>Trifolium microcephalum</i>	small-headed clover	Recorded historically (1936) from Bayview Hills, Lake Merced, Lone Mt., Mt. Davidson, O'Shaughnessy Hollow, and the Presidio (Howell, et al., CCH). Reported from Glen Cyn. and the Presidio (Presidio Hills, Rob Hill).	h	a	Stream-banks, moist, disturbed areas, road-sides, serpentine, conifer forest; Elevation: 0-2700 m. WET: FACU. SERP: 1.4	3	Apr-Aug	no	Y/Y
FAB	<i>Trifolium microdon</i>	Valparaiso clover	Recorded historically (1882) from Bayview Hills, Hunters Pt. Ridge, Lake Merced, Lone Mt., Mt. Davidson, Potrero Hills, the Presidio (Howell, et al., CCH). Reported from Palou-Phelps and the Presidio (Golf Course Natural Area, Inspiration Pt., Tennessee Hollow, WWII Memorial).	h	a	Open, moist or dry, generally disturbed areas; Elevation: 10-1100 m.	5	Mar-Jun	CA	Y/Y
FAB	<i>Trifolium oliganthum</i>	few-flowered clover	Known from a single 1956 collection from Bayview Hills (Howell, et al.); there are no SF records in CCH. Extirpated; last collected in 1956.	h	a	Woody or shrubby slopes, road-sides; Elevation: < 1000 m.	0	Apr-May	no	Y/Y
FAB	<i>Trifolium pratense</i>	common red clover	Recorded historically (c. 1953) from the Embarcadero, Golden Gate Park, near Islais Cr., Laguna Honda Valley, Lake Merced, Land's End (Pt. Lobos), Nob Hill (Howell, et al.); there are no SF records in CCH. Reported from Golden Gate Park (Strawberry Hill), the Presidio (Crissy Field, Tennessee Hollow), and the Sunset Dist.; expected elsewhere.	h	p	Naturalized. Disturbed areas; Elevation: 0-2900 m. WET: FACU	3	Apr-Oct	no	N/N
FAB	<i>Trifolium repens</i>	common white clover	Recorded historically (1895) from the Embarcadero, Golden Gate Park, near Islais Cr., Lake Merced, Lone Mt., Mt. Davidson, the Presidio, the Richmond Dist., and San Miguel Hills (Howell, et al., CCH). Reported from throughout the city and the Presidio.	h	p	Naturalized. Disturbed areas; Elevation: 0-2500 m. WET: FACU	33	Feb-Dec	no	N/N
FAB	<i>Trifolium</i> sp.	clover	Reported (to genus) from Kite Hill and McLaren Park; needs id.	h	a-p	n/a	2	n/a	no	n/a
FAB	<i>Trifolium subterraneum</i>	subterranean clover	Not included in Howell, et al. and there are no historic SF records in CCH. Reported from Glen Cyn. and the Presidio (Crissy Bluffs, Doyle Dr. Natural Area, Ft. Point, Ft. Scott, Lobos Cr. Valley, Tennessee Hollow, WWII Memorial).	h	a	Naturalized. Prostrate or creeping, rooting. Meadows, road-sides, disturbed areas; Elevation: < 1000 m.	8	Mar-Apr	no	N/N
FAB	<i>Trifolium tomentosum</i>	cottonball clover	Not included in Howell, et al. and there are no SF records in CCH. Reported from Candlestick Pt., the Presidio (Baker Beach, Baker Beach n., Main Post, Presidio Bluffs, Rob Hill), Treasure Is., Yerba Buena Is., and Yosemite Slough.	h	a	Naturalized. Grassland, road-sides; Elevation: < 400 m.	8	Apr-Jun	no	N/N
FAB	<i>Trifolium variegatum</i> var. <i>variegatum</i>	variegated clover	Recorded historically (1913) from Visitation Valley (CCH) and (as full species) from Bayview Hills and McLaren Park (Howell, et al., CCH). Extirpated; last collected in 1913.	h	a	Open generally moist fields, wet forest meadows, road-sides; Elevation: 0-2500 m. WET: FAC	0	Mar-Jul	no	Y/Y
FAB	<i>Trifolium willdenovii</i>	tomcat clover	[<i>T. tridentatum</i>] Recorded historically (1893) from Bayview Hills, Corona Hts., Golden Gate Park, Hunters Pt., Laguna Honda Valley, Lake Merced, Lone Mt., Mt. Davidson, Potrero Hills, the Presidio, Sunset Hts., and Visitation Valley (Howell, et al., CCH). Reported from throughout the city and the Presidio.	h	a	Disturbed, generally spring-moist, heavy soils, occasionally serpentine; Elevation: 0-2500 m. WET: FACW. SERP: 1.3	26	Mar-Jun	no	Y/Y
FAB	<i>Trifolium wormskioldii</i>	cow clover, coast clover	Recorded historically (1865) from Bayview Hills, Cliff House, Forest Hill, Laguna Honda Valley, Lake Merced, Land's End (Pt. Lobos), Lone Mt., the Presidio (Presidio Hills), San Miguel Hills, Sunset Dist., and Visitation Valley (Howell, et al., CCH). Reported from Land's End and the Presidio (Crissy Field, Ft. Point, Mountain Lake, Presidio Bluffs, Presidio Hills, Tennessee Hollow, WWII Memorial).	h	p	Rhizomatous. Beaches to mountain meadows, ridges, generally open moist or marshy places; Elevation: < 3200 m. WET: FACW	8	May-Oct	no	Y/Y
JCG	<i>Triglochin concinna</i> var. <i>concinna</i>	creeping sea arrow-grass	Not included in Howell, et al. and there are no SF records in CCH. Known from bay-shore marshes in Alameda, Marin and San Mateo cos. and s. Cal. Status as an indigenous SF taxon is uncertain. Reported from the Presidio (Crissy Field); possibly introduced. Voucher specimen needed.	g	p	Rhizomatous, loose tufted to mat-forming. Coastal salt marshes; Elevation: < 10 m. WET: OBL	1	Mar-Aug	no	?/Y
JCG	<i>Triglochin maritima</i>	common arrow-grass	Known from a single 1932 collection from the bay shore of se. SF (Howell, et al., CCH). Reported from Pier 94 and the Presidio (Crissy Field).	g	p	Rhizomatous, dense-tufted. Coastal salt marshes, interior saline, brackish, alkaline marshes; Elevation: < 2800 m. WET: OBL	2	Apr-Aug	no	Y/Y
JCG	<i>Triglochin scilloides</i>	flowering quillwort	[<i>Lilaea</i> s.] Recorded historically (1891) from Golden Gate Park, Lake Merced, the Presidio, and Stanford Hts. (San Miguel Hills; Howell, et al., CCH). Reported from McLaren Park and the Presidio (Inspiration Pt.)	g	a	Tufted, emergent. Vernal pools, streams, ponds, lake margins; Elevation: < 1700 m. WET: OBL	2	Mar-Oct	no	Y/Y

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MLN	<i>Trillium albidum</i>	giant white wake-robin	Previously included in the Liliaceae. Recorded historically (1862) from "SF" and Suto Forest (CCH); not included in Howell, <i>et al.</i> Reported from Suto Forest where it has recently been rediscovered. Voucher specimen needed.	gp	p	Rhizomatous. Edges of redwood or mixed-evergreen forest, coastal scrub, chaparral, moist canyon slopes, ravine banks; Elevation: < 2000 m. WET: FACU	1	Feb-Jun	no	Y/Y
MLN	<i>Trillium chloropetalum</i>	giant wake-robin	[incl. <i>T.c. var. c.</i> and <i>T.c. var. giganteum</i>] Previously included in the Liliaceae. Recorded historically (c. 1900) from Lake Merced, Mt. Suto, Pine Lake, Stanford Hts. (San Miguel Hills), and Sunset Hts. (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1940.	gp	p	Rhizomatous. Edges of redwood forest, chaparral, generally moist slopes, canyon banks in alluvial soils; Elevation: 100-2000 m.	0	Apr-May	no	Y/Y
CAM	<i>Triodanis biflora</i>	Venus' looking glass	[<i>Specularia h.</i>] Recorded historically (c. 1860) from Lake Merced and Lone Mt. (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1892.	h	a	Disturbed areas; Elevation: < 2000 m.	0	Apr-Jun	no	Y/Y
ORO	<i>Triphysaria eriantha</i> ssp.	butter-and-eggs owl's-clover, Johnny-tuck	[<i>Orthocarpus erianthus</i>] Previously included in the Scrophulariaceae. Recorded historically (1882, as full species) from Laguna Honda Valley, Lake Merced, and the Presidio (Howell, <i>et al.</i>); CCH records for SF identified to subspecies (<i>T.e. ssp. e.</i> or <i>T.e. ssp. rosea</i>) Reported (as full species) from Bayview Hill, Glen Cyn. and McLaren Park.	h	a	n/a	3	Mar-May	no	Y/Y
ORO	<i>Triphysaria eriantha</i> ssp. <i>eriantha</i>	butter-and-eggs owl's-clover, Johnny-tuck	[<i>Orthocarpus erianthus</i> var. <i>gratiosus</i>] Previously included in the Scrophulariaceae. Recorded historically (1882) from "SF" (CCH) and the Presidio (NRDB); not included in Howell, <i>et al.</i> Extirpated; last collected in 1882.	h	a	Facultative root parasite. Grassland, foothills; Elevation: < 1600 m.	0	Mar-May	no	Y/Y
ORO	<i>Triphysaria eriantha</i> ssp. <i>rosea</i>	butter-and-eggs owl's-clover, Johnny-tuck	[<i>Orthocarpus erianthus</i> var. <i>roseus</i> ; <i>O.e.</i> var. <i>r.</i>] Previously included in the Scrophulariaceae. Recorded historically (1867) from Bernal Hts., Brotherhood Way, Ingleside, Lake Merced, Oceanview, Sunset Dist. dunes, and Visitación Valley (Howell, <i>et al.</i> , CCH), and the Presidio (NRDB). Reported from McLaren Park in 2012 but believed recently extirpated; last collected in 1956.	h	a	Facultative root parasite. Coastal fields, bluffs; Elevation: < 300 m.	0	Feb-Apr	CA	Y/Y
ORO	<i>Triphysaria floribunda</i>	San Francisco owl's-clover	[<i>Orthocarpus floribundus</i>] Previously included in the Scrophulariaceae. Reported historically (1868) from Bayview Hills, Hunters Pt., Lake Merced, Mission Dolores, Potrero Hills, the Presidio (above Baker Beach, Doyle Dr. Natural Area, Ft. Point, Golf Course, WWII Memorial), San Miguel Hills, and se. SF (Howell, <i>et al.</i> , CCH), and from Pine Lake (SFRPD, 2006). Extirpated. Endemic to SF Bay Area. RARITY STATUS: -/-/1B.2	h	a	Facultative root parasite. Coastal grassland, serpentine slopes; Elevation: < 200 m. SERP: 2.3	0	Apr-Jun	BA	Y/Y
ORO	<i>Triphysaria pusilla</i>	dwarf owl's-clover	[<i>Orthocarpus pusillus</i>] Previously included in the Scrophulariaceae. Recorded historically (1933) from Bayview Hills, Corona Hts., Golden Gate Park, Hunters Pt. Ridge, Lake Merced, Lone Mt., Mt. Davidson, Nanny Goat Hill, the Presidio (Baker Beach), se. SF, Sunset Dist. dunes, Twin Peaks, and Visitación Valley (Howell, <i>et al.</i> , CCH). Recorded from Bayview Hill, Bernal Hts. Park, Corona Hts., Glen Cyn., McLaren Park, Mt. Davidson, the Presidio (Inspiration Pt., Lobos Cr. Valley, Presidio Bluffs, Rob Hill, sw. dunes, Tennessee Hollow, West Pacific Natural Area), Tank Hill, Twin Peaks, and Yerba Buena Is.	h	a	Facultative root parasite. Grassland; Elevation: < 1200 m.	16	Apr-Jun	no	Y/Y
ORO	<i>Triphysaria versicolor</i> ssp. <i>faucibarbatata</i>	yellowbeak owl's-clover	[<i>Orthocarpus faucibarbatatus</i>] Previously included in the Scrophulariaceae. Known from a single 1882 collection from "SF" (CCH) and the Presidio (NRDB); not included in Howell, <i>et al.</i> Reported from the Presidio (Eucalyptus Diversification Area. Voucher specimen needed.	h	a	Facultative root parasite. Grassland; Elevation: < 500 m.	1	Feb-May	no	Y/Y
ORO	<i>Triphysaria versicolor</i> ssp. <i>versicolor</i>	yellow owl's-clover	[<i>Orthocarpus faucibarbatatus</i> ssp. <i>albidus</i>] Previously included in the Scrophulariaceae. Recorded historically (1800) from Mission Hills, Potrero Hills, the Presidio, "SF", and Visitación Valley (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1917.	h	a	Facultative root parasite. Grassland; Elevation: < 100 m.	0	Feb-May	no	Y/Y
POA	<i>Trisetum canescens</i>	nodding oatgrass	Recorded historically (1865) from Laguna Honda Valley, Ocean Beach and "SF" (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1954.	g	p	Open to shaded sites, meadows, chaparral, conifer forest; Elevation: < 2830 m.	0	Jun-Aug	no	Y/Y
THE	<i>Triteleia hyacinthina</i>	white brodiaea	[<i>Brodiaea h.</i>] Previously included in the Liliaceae. Recorded historically (c. 1890) from near Lake Merced, Mt. Davidson, and Visitación Valley (Howell, <i>et al.</i> , CCH). Reported from McLaren Park; there is an unconfirmed report from the Presidio (near Arguello/golf course, Crissy Bluffs, Inspiration Pt.)	gp	p	Corm-forming. Grassland, vernal wet meadows, occasionally drier slopes; Elevation: < 2000 m. WET: FAC	4	Mar-Jul	no	Y/Y
THE	<i>Triteleia laxa</i>	Ithuriel's spear	[<i>Brodiaea l.</i>] Previously included in the Liliaceae. Recorded historically (1868) from Bayview Hills, Bernal Hts., Hunters Pt. Ridge, Lone Mt., McLaren Park, Mt. Davidson, Nanny Goat Hill, Ocean Beach, the Presidio (Baker Beach, Lobos Cr. Valley), San Miguel Hills, and Sunset Dist. Dunes (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	gp	p	Corm-forming. Open forest, conifer or foothill woodland, grassland on clay soil; Elevation: < 1500 m.	39	Apr-Jun	CA	Y/Y
POA	<i>Triticum aestivum</i>	cultivated wheat	Recorded historically (1954) from the Embarcadero, Golden Gate Park (Quarry Lake/Lily Pond), near Islais Cr., the Presidio (Lobos Cr. Valley, Presidio Hills), and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Laguna Honda Valley, and the Presidio (Horse Stables, Tennessee Hollow, Transfer Station Plantation), and Yerba Buena Is.	g	a	Naturalized. Cespitose. Escaped cereal crop along road-sides and in disturbed places; Elevation: generally < 500 m.	6	Feb-Mar	no	N/N
TRP	<i>Tropaeolum majus</i>	garden nasturtium	Recorded historically (1957) from Golden Gate Park, Hunters Pt., Land's End, Lone Mt., Mt. Suto, Pine Lake, the Presidio (Lobos Cr. Valley), Russian Hill, Telegraph Hill (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: -/3/-/-	h	a	Naturalized. Disturbed areas, moist or shaded areas in coastal scrub, wooded flats or slopes; Elevation: < 450 m. WET: UPL	75	Mar-Jun	no	N/N

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BRA	<i>Turritis glabra</i>	tower rock-cress	[<i>Arabis glabra</i>] Recorded historically (1895) from Bayview Hills, Brotherhood Way, Laguna Honda Valley, Lake Merced, Land's End, Mt. Davidson, Mt. Sutro, Oceanview, the Presidio (Baker Beach, Presidio Bluffs), Sunset Dist. dunes, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Brotherhood Way, Lake Merced, Lone Mt., and the Presidio (Baker Beach, Baker Beach n., Crissy Field, Inspiration Pt., Lobos Cr. Valley, Presidio Bluffs, Presidio Hills, Rob Hill, sw. dunes, Tennessee Hollow, WWII Memorial).	h	p	Open fields, meadows, slopes; Elevation: < 2800 m.	14	Apr-Jul	no	Y/Y
TYP	<i>Typha angustifolia</i>	narrow cattail	Recorded historically (1922) from Golden Gate Park, the Marina Dist., and Sunset Dist. dunes (Howell, <i>et al.</i>); there are no historic SF records in CCH. Reported from Alemany Farm, Glen Cyn., Golden Gate Park (Mallard Lake), and Lake Merced.	h	dp	Rhizomatous; shoots to 3 m tall. Nutrient-rich freshwater to brackish marshes, wet disturbed places; Elevation: < 2000 m. WET: OBL	4	Jun-Jul	no	Y/Y
TYP	<i>Typha domingensis</i>	southern cattail	Recorded historically (1956) from Alemany Blvd, Bayview Hills, and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from McLaren Park.	h	dp	Rhizomatous; shoots to 4 m tall. Nutrient-rich freshwater to brackish marshes, wet disturbed places; Elevation: < 1500 m. WET: OBL	1	Mar-Aug	no	Y/Y
TYP	<i>Typha latifolia</i>	broad-leaved cattail	Recorded historically (1837) from Alemany Blvd., Bayview Hills, Brotherhood Way, Golden Gate Park, Lake Merced, the Presidio (Mountain Lake), and Sunset Dist. Dunes (Howell, <i>et al.</i> , CCH). Reported from Alemany Farm, Glen Cyn., Golden Gate Park (Mallard Lake), Laguna Honda Valley, Lake Merced, McLaren Park, the Presidio (Crissy Bluffs, Crissy Field, Ft. Point, Golf Course Natural Area, Mountain Lake, Presidio Hills, Tennessee Hollow), St. Mary's Playground, and Sutro Baths.	h	dp	Rhizomatous; shoots to 3 m tall. Unpolluted to nutrient-rich freshwater (brackish) marshes; Elevation: < 2300 m. WET: OBL	14	Jun-Jul	no	Y/Y
FAB	<i>Ulex europaeus</i>	European gorse	[<i>U. europaea</i>] Recorded historically (1927) from near Bayview Hill, near Islais Cr., Pine Lake, the Presidio (Golf Course), se. SF, Sunset Hts., and Visitation Valley (Howell, <i>et al.</i> , CCH). Reported from Alemany Farm, Ft. Mason, Golden Gate Hts., Heron's Head Park, Ingleside, the Presidio (Baker Beach, Lobos Cr. Valley, Tennessee Hollow), Sutro Forest, and Twin Peaks. INVASIVE STATUS: H/3/NW/B/—	s	ep	Naturalized. Disturbed places, especially old fields, pastures; Elevation: < 400 m. WET: UPL	9	Apr-Jul	no	N/N
ULM	<i>Ulmus minor</i>	English elm	[<i>U. procera</i> , <i>U. campestris</i>] Recorded historically (1954) from Golden Gate Park (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn. and Golden Gate Park.	t	dp	Naturalized. Spreading by root suckers near old plantings; Elevation: 10-1000 m.	2	Feb-Mar	no	N/N
ULM	<i>Ulmus pumila</i>	Siberian elm	Recorded historically (1954) from near Golden Gate Park (CCH); not included in Howell, <i>et al.</i> Reported from Yerba Buena Is.	t	dp	Naturalized. Stream-banks, washes, bottomland, road-sides, disturbed areas; Elevation: 20-1500 m. WET: UPL	1	Mar-Apr	no	N/N
LAU	<i>Umbellularia californica</i>	Cal. bay-laurel	Recorded historically (1837) from the Presidio (Ft. Point) and "SF" (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Candlestick Pt., Glen Cyn., Golden Gate Park (AIDS Memorial Grove, Oak Woodland, misc.), Hunters Pt. the Presidio (Presidio Bluffs, Tennessee Hollow), the Richmond Dist., SFSU, and Sutro Forest; SF populations are likely reintroductions and not remnant natural stands.	t	ep	Canyons, valleys, chaparral; Elevation: < 1600 m. WET: FAC	10	Nov-May	no	Y/Y
AST	<i>Uropappus lindleyi</i>	Lindley's silverpuffs	[<i>Microseris l.</i> ; <i>M. linearifolia</i>] Recorded historically (1877) from Laguna Honda Valley, Lake Merced, Lone Mt. (Catholic Cemetery), Mt. Sutro, Pine Lake, the Presidio (Lobos Cr. Valley, Presidio Hills), and Sunset Dist. Dunes (Howell, <i>et al.</i> , CCH). Reported from Corona Hts., Ft. Funston, the Presidio (Baker Beach, Crissy Bluffs, Crissy Field, Golf Course Natural Area, Inspiration Pt., Lobos Cr. Valley, Mountain Lake, Park Blvd. Plantation, Presidio Hills, Pygmy Forest, Rob Hill, and sw. dunes).	h	a	Open grassland, woodland, chaparral, deserts, generally in loose soils; Elevation: < 2300 m.	14	Mar-May	no	Y/Y
AST	<i>Urospermum picroides</i>	bristly tail seed	Not included in Howell, <i>et al.</i> and there are no historic SF records in CCH. Reported from Candlestick Pt., near City Hall, College Hill (Bernal Hts. Dist.), Ingleside, the Marina Dist., Mission Bay, Pine Lake, the Presidio (Lobos Cr. Valley, Presidio Hills), SOMA, Sutro Forest, Twin Peaks, and the West of Twin Peaks neighborhood. INVASIVE STATUS: —/2—/—/—	h	p	Naturalized. Disturbed places; Elevation: < 400 m.	7	Apr-Jul	no	N/N
URT	<i>Urtica dioica</i> ssp.	stinging nettle	Reported (as full species) from Golden Gate Park (Oak Woodland) and the Presidio (Officer's Row).	h	p	n/a	2	Jun-Sep	no	Y/Y
URT	<i>Urtica dioica</i> ssp. <i>gracilis</i>	common perennial stinging nettle	[<i>U. californica</i>] Recorded historically (1933) from Lake Merced and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Pine Lake and the Presidio (Dragonfly Cr., Tennessee Hollow).	h	p	Rhizomatous, with stinging hairs. Moist or riparian areas, willow scrub; Elevation: < 245 m. WET: FAC	3	Mar-Oct	no	Y/Y
URT	<i>Urtica dioica</i> ssp. <i>holosericea</i>	coast nettle	[<i>U. holosericea</i>] Recorded historically (1852) from Brotherhood Way, Lake Merced, Pine Lake, and the Presidio (Baker Beach, Ft. Point, Lobos Cr. Valley, Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	p	Rhizomatous, with stinging hairs. Meadows, seeps, springs, margins of marshes, streams, lakes, moist areas in chaparral, coastal scrub; Elevation: < 3370 m. WET: FAC	24	Jun-Sep	no	Y/Y
URT	<i>Urtica urus</i>	annual dwarf nettle	Recorded historically (1878) from Bayview Hills, Golden Gate Park, Hunters Pt., Lake Merced, Lone Mt., Mission Hills, the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from Buena Vista Park, Crocker-Amazon, Ft. Funston, Glen Cyn., Golden Gate Hts., Golden Gate Park (Stow Lake, Strawberry Hill), Lake Merced, Land's End, McLaren Park, Mission Bay, Pine Lake, the Presidio (Doyle Dr. Natural Area, Dragonfly Cr., Lobos Cr. Valley), Presidio Hills, Pygmy Forest), the Richmond Dist., Rocky Outcrop, SOMA, the Sunset Dist., and Tank Hill; expected elsewhere.	h	a	Naturalized. Lacks stinging hairs. Disturbed areas, stream banks, shaded areas in grassland, oak woodland, chaparral, coastal-sage scrub, riparian woodland; Elevation: < 1000 m.	20	Jan-Jun	no	N/N
CRY	<i>Vaccaria hispanica</i>	cow soapwort	[<i>V. pyramidata</i>] Recorded historically (c. 1900) from the Presidio (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	h	a	Naturalized. Disturbed areas; Elevation: < 2800 m. WET: FACU	0	May-Aug	no	N/N

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ERI	<i>Vaccinium ovatum</i>	Cal. or evergreen huckleberry	Recorded historically (1852) from Lone Mt. and Mt. Davidson (Howell, <i>et al.</i> , CCH). Reported from Golden Gate Park, Lone Mt., Mt. Davidson, O'Shaughnessy Hollow, and Rocky Outcrop; reintroduced at Suto Forest.	s	ep	Edges, clearings in conifer forest; Elevation: 3-800 m. WET: UPL	6	Mar-May	no	Y/Y
VAL	<i>Valerianella locusta</i>	common cornsalad	[<i>V. olitoria</i>] Recorded historically (c. 1890) from the western part of the City (Howell, <i>et al.</i> ; there are no SF records in CCH. There are no contemporary reports from SF.	h	a	Naturalized. Moist, shaded sites; Elevation: < 1400 m.	0	Apr-Jun	no	N/N
SCR	<i>Verbascum blattaria</i>	moth mullein	Recorded historically (1915) from Golden Gate Park (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	h	b	Naturalized. Road-sides, seeps, stream-banks, disturbed grassland, foothill woodland, chaparral, yellow-pine forest; Elevation: 10-1660 m. WET: UPL	0	May-Oct	no	N/N
SCR	<i>Verbascum thapsus</i>	common mullein	Recorded historically (c. 1957) from Golden Gate Park (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Candlestick Pt., Golden Gate Park (AIDS Memorial Grove), the Mission Dist., near Mt. Sutro, SFSU, the Sunset Dist. INVASIVE STATUS: L/-/-/-	h	b	Naturalized. Road-sides, stream-banks, disturbed areas; Elevation: < 2470 m. WET: FACU	4	May-Sep	no	N/N
VRB	<i>Verbena bonariensis</i>	purple-top vervain	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Golden Gate Park (Oak Woodland), Hunters Pt. and the Presidio (Crissy Field, Doyle Dr. Natural Area, Lobos Cr. Valley). INVASIVE STATUS: W/-/-/-	h	a-b	Naturalized. Disturbed, often wet places, fields; Elevation: < 200 m. WET: FACW	5	Jun-Oct	no	N/N
VRB	<i>Verbena lasiostachys</i> var.	western verbena	Recorded historically (c. 1957, as full species) from Golden Gate Park, where it was presumed to have been introduced (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Heron's Head. Within the range of both <i>V.l. var. l.</i> and <i>V.l. var. scabrada</i> .	h	p	Open, dry to wet places; Elevation: < 2500 m. WET: FAC	1	May-Sep	no	N/Y
PTG	<i>Veronica americana</i>	American brooklime	Previously included in the Scrophulariaceae. Recorded historically (1893) from Golden Gate Park, Laguna Honda Valley, Lake Merced, McLaren Park, Mt. Davidson, Pine Lake, the Presidio (Lobos Cr. Valley, Mountain Lake, Presidio Hills), and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Alemany Blvd, Glen Cyn., Golden Gate Park (Lily Pond, Strawberry Hill), Laguna Honda Valley, McLaren Park, the Presidio (Crissy Field, Doyle Dr. Natural Area, Dragonfly Cr., Ft. Point, Lobos Cr. Valley, Mountain Lake, Tennessee Hollow), and Suto Forest.	h	p	Rhizomatous. Moist to wet soil, springs, slow streams, meadows, lakeshores; Elevation: < 3300 m. WET: OBL	14	May-Aug	no	Y/Y
PTG	<i>Veronica anagallis-aquatica</i>	water speedwell	Previously included in the Scrophulariaceae. Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Golden Gate Park, Land's End, and the Mission Dist.	h	p	Naturalized. Rhizomatous. Wet meadows, stream-banks, slow streams; Elevation: < 3000 m. WET: OBL	2	May-Sep	no	N/N
PTG	<i>Veronica arvensis</i>	corn speedwell	Previously included in the Scrophulariaceae. Recorded historically (1957) from Russian Hill (CCH) and Nob Hill (Eastwood, 1898); not included in Howell, <i>et al.</i> Reported from the Embarcadero, Golden Gate Park, Mission Bay, the Presidio (Lobos Cr. Valley, Main Post, Simond's Loop), and the Richmond Dist.	h	a	Naturalized. Meadows; Elevation: < 1500 m. WET: FACU	5	Apr-Jun	no	N/N
PTG	<i>Veronica chamaedrys</i>	germander speedwell	Previously included in the Scrophulariaceae. Recorded historically (1956) from Golden Gate Park (Howell, <i>et al.</i>); there are no SF records in CCH. Not considered to occur in Cal. (erroneous report, misapplication, misidentification). Reported from Mission Bay.	h	p	Not present in Cal. WET: FACU	1	sp-sum	no	N/N
PTG	<i>Veronica filiformis</i>	thread-stalk speedwell	Previously included in the Scrophulariaceae. Recorded historically (1952) from Golden Gate Park and the Sunset Dist. (Howell, <i>et al.</i> , CCH). Reported from Ft. Mason, Golden Gate Park (Oak Woodland, misc.), McLaren Park, the Mission Dist., the Presidio (Golf Course Natural Area, Mountain Lake, Presidio Hills), and the Richmond Dist.	h	p	Waif or garden escape; not naturalized.	7	sp	no	N/N
PTG	<i>Veronica peregrina</i> ssp. <i>xalapensis</i>	purslane speedwell	Previously included in the Scrophulariaceae. Recorded historically (c. 1890) from se. SF (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from the Presidio (Tennessee Hollow); likely an introduced population and not a remnant of a natural stand. Voucher specimen needed.	h	a	Moist places; Elevation: < 3100 m. WET: FAC	1	Apr-Aug	no	Y/Y
PTG	<i>Veronica persica</i>	Persian speedwell	Previously included in the Scrophulariaceae. Recorded historically (1956) from Golden Gate Park, Lone Mt., and "SF" (Howell, <i>et al.</i> , CCH). Reported from Crocker-Amazon, Glen Cyn., Golden Gate Park, Lone Mt., McLaren Park, Pacific Hts., Pine Lake, the Presidio (Arguello Gate, Crissy Bluffs, Crissy Field, Doyle Dr. Natural Area, Ft. Scott, Julius Kahn Playground, Main Post, Mountain Lake, Presidio Hills, Tennessee Hollow), the Richmond Dist., Rocky Outcrop, Russian Hill, SFSU, the Sunset Dist., Suto Hts., Twin Peaks, and Yerba Buena Is.	h	a	Naturalized. Prostrate. Wet, disturbed areas, fields; Elevation: < 1100 m.	22	Feb-May	no	N/N
PTG	<i>Veronica serpyllifolia</i> ssp.	thyme-leaf speedwell	Previously included in the Scrophulariaceae. Recorded historically (1950, as full species) from the Civic Center, Golden Gate Park, Lake Merced, Lone Mt., the Mission Dist., the Presidio (Mountain Lake), the Richmond Dist., Russian Hill (Howell, <i>et al.</i> , CCH); presumably the garden weed <i>V.s. ssp. serpyllifolia</i> . Reported (as full species) from Golden Gate Park, the Richmond Dist., and SFSU.	h	p	Waif or garden escape; not naturalized. WET: FAC	2	Apr-Aug	no	N/Y
PTG	<i>Veronica serpyllifolia</i> ssp. <i>humifusa</i>	thyme-leaf speedwell	Previously included in the Scrophulariaceae. Recorded historically (1961) as a lawn weed in the Sunset Dist. (CCH); not included in Howell, <i>et al.</i> There are no contemporary reports from SF.	h	p	Rhizomatous. Moist stream-banks, lakeshores, meadows; Elevation: < 3200 m. WET: FAC	0	Apr-Aug	no	Y/Y
ADX	<i>Viburnum tinus</i>	lauristinus viburnum	Previously included in the Caprifoliaceae. Recorded historically (c. 1955) from Golden Gate Park (Howell, <i>et al.</i>); there are no SF records in CCH. There are no contemporary reports from SF.	s	p	Waif or garden escape; not naturalized.	0	lwin-sp	no	N/N

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FAB	<i>Vicia americana</i> ssp. <i>americana</i>	American vetch	[Incl. <i>V. a. vars. linearis, organa</i> and <i>truncata</i>] Recorded historically (1882) from Bayview Hills, Brotherhood Way, Forest Hill, Laguna Honda Valley, McLaren Park, Mt. Davidson, Mt. Sutro, the Presidio (Ft. Point), San Miguel Hills, Sunset Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Corona Hts., Glen Cyn., McLaren Park, Sutro Forest, Twin Peaks, Yerba Buena Is., and throughout the Presidio.	h	p	Sprawling, climbing. Generally open, moist forest, along streams, disturbed areas; Elevation: < 2400 m. WET: FAC	23	Mar-Jun	no	Y/Y
FAB	<i>Vicia benghalensis</i>	narrow-leaved purple vetch	Recorded historically (1954) from Lake Merced, Lone Mt., Pacific Hts., the Presidio, se. SF, and Stern Grove (Howell, <i>et al.</i>); there are no historic SF records in CCH. Reported from Bernal Hts. Park, Candlestick Pt., Glen Cyn., McLaren Park, Pier 94, the Presidio (Crissy Bluffs, Ft. Point, Infantry Terrace, Inspiration Pt., Presidio Hills, sw. dunes), Starr King, Twin Peaks, and Yerba Buena Is.	h	a	Naturalized. Sprawling or climbing. Grassland, road-sides, disturbed areas; Elevation: < 1372 m.	15	Mar-Jun	no	N/N
FAB	<i>Vicia faba</i>	broad bean	Recorded historically (1954) from Hunters Pt. and near Islais Cr. (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Golden Gate Park, and SFSU.	h	a	Waif or garden escape; not naturalized. Road-sides, garden escape; Elevation: < 820 m.	3	May-Jun	no	N/N
FAB	<i>Vicia gigantea</i>	giant coastal vetch	Recorded historically (1886) from Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End, the Presidio (Baker Beach, Ft. Point, Lobos Cr. Valley; Howell, <i>et al.</i> , CCH). Reported from Glen Cyn., Laguna Honda Valley, Lake Merced, Land's End., Mt. Davidson, Pine Lake, the Presidio (Baker Beach n., Battery Dynamite, Crissy Bluffs, Doyle Dr. Natural Area, Ft. Point, Lobos Cr. Valley, Mountain Lake, Oak Study Area, Presidio Bluffs).	h	p	Sprawling climbing. Coastal shrub, coastal forest, chaparral; Elevation: < 305 m.	14	Mar-Aug	no	Y/Y
FAB	<i>Vicia hirsuta</i>	hairy vetch	Recorded historically (1915) from SF (Howell, <i>et al.</i> , CCH). Reported from Glen Cyn. and Yerba Buena Is.	h	a	Naturalized. Decumbent or climbing. Open, disturbed sites in scrub, woodland, forest; Elevation: < 1372 m.	2	Apr-Jul	no	N/N
FAB	<i>Vicia ludoviciana</i> ssp. <i>ludoviciana</i>	Louisiana vetch	[<i>V. exigua</i>] Known from a single collection (c. 1890) at Mission Hills (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1890.	h	a	Sprawling, climbing. Slopes, canyons, stream-banks, in grassland, coastal-sage scrub, chaparral, oak woodland, riparian woodland; Elevation: < 1220 m. WET: UPL	0	Mar-Jun	no	Y/Y
FAB	<i>Vicia sativa</i> ssp.	common field vetch	Reported (1892, as full species) from Bernal Hts. Park, Candlestick Pt., Clarendon Hts., Crocker-Amazon Natural Area, Glen Cyn., Golden Gate Park, Hilltop Park, Ina Coolbrith Park, Kite Hill, the Marina Dist., McLaren Park, Mission Bay, the Presidio (Battery Dynamite, Ft. Scott, Main Post, Park Blvd. Plantation, Res. Cultural Plantation, Simond's Loop), Rocky Outcrop, and Treasure Is.; needs id.	h	a	WET: FACU	20	Mar-Jun	no	N/N
FAB	<i>Vicia sativa</i> ssp. <i>nigra</i>	common field vetch	[<i>V. angustifolia</i> var. <i>segetalis</i>] Recorded historically (c. 1955) from Bayview Hills, the Embarcadero, Golden Gate Park, near Islais Cr., Laguna Honda Valley, Lake Merced, Lone Mt., Mt. Davidson, Potrero Hill, the Presidio, San Miguel Hills, se. SF (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a	Naturalized. Decumbent to ascending. Road-sides, disturbed areas, grassland, open areas in oak woodland, riparian woodland; Elevation: < 1608 m. WET: FACU	28	Mar-Jun	no	N/N
FAB	<i>Vicia sativa</i> ssp. <i>sativa</i>	common field vetch	Recorded historically (1892, as full species) from Bayview Hills, Golden Gate Park, near Islais Cr., Lake Merced, Lone Mt., the Presidio, and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h	a	Naturalized. Decumbent to ascending. Road-sides, disturbed areas, grassland, open areas in oak woodland, riparian woodland; Elevation: < 1266 m. WET: FACU	24	Mar-Jun	no	N/N
FAB	<i>Vicia</i> sp.	vetch	Reported (to genus) from Bernal Hts. Park, Dorothy Erskine Park, Grandview Park, Heron's Head Park, Interior Greenbelt, Lake Merced, McLaren Park, and Pier 94; needs id.	h	a-p	n/a	8	n/a	no	n/a
FAB	<i>Vicia villosa</i> ssp.	woolly vetch	Recorded historically (1920, as full species) from the Parkside (Sunset) Dist. (Howell, <i>et al.</i>); there are no SF records in CCH. Reported (as full species) from Candlestick Pt., Ft. Funston, Glen Cyn., Potrero Hills, the Presidio (Crissy Field, Lobos Cr. Valley, Presidio Bluffs, Tennessee Hollow), the Sunset Dist., Twin Peaks, and Yerba Buena Is.; needs id. SF is in the bioregion of <i>V. v. ssp. villosa</i> and ssp. <i>varia</i> [<i>V. dasycarpa</i>].	h	a	n/a	9	May-Jul	no	N/N
FAB	<i>Vicia villosa</i> ssp. <i>varia</i>	smooth vetch	[<i>V. dasycarpa</i>] Recorded historically (1954) from Hunters Pt., Mt. Sutro, and se. SF (Howell, <i>et al.</i>); there are no SF records in CCH.	h-v	a	Naturalized. Sprawling, ascending, or climbing. Grassland, roadside, disturbed areas; Elevation: < 1200(2072) m.	0	Mar-Jul	no	N/N
FAB	<i>Vicia villosa</i> ssp. <i>villosa</i>	woolly vetch	Recorded historically (1920, as full species) from the Parkside (Sunset) Dist. (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from Billy Goat Hill, Land's End, and the Presidio (Ft. Scott, Lobos Cr. Valley, Presidio Hills); expected elsewhere.	h	a	Naturalized. Sprawling, ascending, or climbing. Grassland, roadside, disturbed areas; Elevation: < 2090 m.	5	May-Jul	no	N/N
APO	<i>Viola major</i>	greater periwinkle	Recorded historically (1956) from Golden Gate Park, Laguna Honda Valley, McLaren Park, Mt. Davidson, and the Presidio (Baker Beach; Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: M/3/-/-	h	p	Naturalized. Sprawling. Coastal bluffs, sheltered places, especially along stream beds; Elevation: 2-200 m.	48	Mar-Jun	no	N/N
VIO	<i>Viola adunca</i> ssp.	western dog-violet	Recorded historically (1852, as full species) from Lone Mountain, Mt. Davidson, Potrero Hills, the Presidio (above Baker Beach, Presidio Bluffs, WWII Memorial), San Miguel Hills, se. SF, Sunset Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported (as full species) from the Presidio (Oak Study Area, sw. dunes). Host plant for the endangered Myrtle's Silverspot butterfly (extirpated in SF.)	h	p	WET: FAC	2	Apr-Aug	no	Y/Y
VIO	<i>Viola adunca</i> ssp. <i>adunca</i>	western dog-violet	Recorded historically (1955) from a single collection from Mt. Davidson (CCH). Reported from Glen Cyn., O'Shaughnessy Hollow, the Presidio (Presidio Bluffs, Tennessee Hollow, WWII Memorial), and Twin Peaks. Host plant for the endangered Myrtle's Silverspot butterfly (extirpated in SF.)	h	p	Vernally moist meadows, damp stream-banks, meadow edges in conifer forest, generally shade; Elevation: < 3570 m. WET: FAC	6	Apr-Aug	no	Y/Y

ANNOTATED CHECKLIST OF THE VASCULAR PLANTS OF SAN FRANCISCO

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon Underlined = nomenclature used in Howell (†) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonymy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFW / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ^g	# OCCURRENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC SF/Bay Area/CA	NATIVE - SF / CA
VIO	<i>Viola odorata</i>	English violet	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from City College, Golden Gate Park, and Mt. Davidson.	h	p	Naturalized. Rhizomatous. Garden escape reported in shady, moist areas generally in riparian habitats; Elevation: 30-1255 m.	2	Jan-May	no	N/N
VIO	<i>Viola pedunculata</i>	Cal. Johnny-jump-up, Cal. golden violet	Recorded historically (1862) from Bayview Hills, Bernal Hts., Hunters Pt. Ridge, hills e. of Lake Merced, McLaren Park, Mt. Davidson, Potrero Hills, and San Miguel Hills (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, Corona Hts., Duncan-Castro Open Space, Glen Cyn., McLaren Park, Mt. Davidson, the Presidio (WWII Memorial), Tank Hill, Twin Peaks, and Visitación Valley. Larval food plant for the SF Silverspot butterfly.	h	p	Open, grassy slopes, hillsides, chaparral, oak woodland, generally full sun; Elevation: < 1540 m.	10	Feb-Apr	no	Y/Y
VIO	<i>Viola tricolor</i>	wild pansy	Recorded historically (c. 1955) from Golden Gate Park and the Richmond Dist. (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from the Sunset Dist.	h	a-p	Waif or garden escape; not naturalized.	0	May-Aug	no	N/N
AST	<i>Volutaria muricata</i>	Morocco knapweed	[<i>Centaurea m.</i> ; <i>Cyanopsis m.</i>] Recorded historically (1920) from Golden Gate Park (CCH); not included in Howell, <i>et al.</i> . There are no contemporary reports from SF.	h	a	Naturalized. Disturbed sites; Elevation: < 100 m.	0	Mar-May	no	N/N
CAM	<i>Wahlenbergia marginata</i>	southern rockbell	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported from Alemany Blvd., Brotherhood Way, Candlestick Pt., Clarendon Hts., Glen Cyn., Crocker-Amazon Natural Area, Hunters Pt., near Islais Cr., Laguna Honda Valley, Lake Merced, McLaren Park, Mission Bay, O'Shaughnessy Hollow, Potrero Hill, the Richmond Dist., the Sunset Dist., and Visitación Valley.	h	p	Naturalized. Disturbed sites, waste ground, road-sides.	14	Mar-May	no	N/N
ARE	<i>Washingtonia robusta</i>	Mexican fan palm	Not included in Howell, <i>et al.</i> and there are no SF records in CCH. Reported naturalized from the Presidio (Crissy Field), the Richmond Dist., and Yerba Buena Is.; expected elsewhere. INVASIVE STATUS: MA/-/-/-	t	p	Naturalized. Desert washes, disturbed areas, riparian corridors; Elevation: < 500 m. WET: FACW	2	Apr-Jun	no	N/N
ARA	<i>Wolffiella linguata</i>	mud midget	Previously included in the Lemnaceae. Known from a single collection (c. 1925) from Lake Merced (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1925.	h	p	Unrooted floating aquatic. Coastal, interior valleys; Elevation: < 200 m. WET: OBL	0	Jan-Dec	no	Y/Y
BLE	<i>Woodwardia finbriata</i>	giant chain-fern	Recorded historically (c. 1890) from Brotherhood Way, Lake Merced, Oceanview, the Presidio (Lobos Cr. Valley), San Miguel Hills, and Visitación Valley (Howell, <i>et al.</i> , CCH). Recorded from Bernal Hts. Park, Brotherhood Way, Corona Hts., Glen Cyn., Golden Gate Park (Mallard Lake, Stow Lake, misc.), Hunters Pt., Lake Merced, McLaren Park, the Presidio (Dragonfly Cr., Ft. Point, Ft. Scott, Tennessee Hollow), and. SFSU.	f	p	Rhizomatous. Near streams, springs, seeps; Elevation: + 0-2300 m. WET: FACW	13	n/a	no	Y/Y
AST	<i>Wyethia angustifolia</i>	narrow-leaf mule's-ears	Recorded historically (1920) from Bayview Hills, Corona Hts., McLaren Park, Mt. Davidson, the Presidio (Lobos Cr. Valley), San Miguel Hills, and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from Bayview Hill, Bernal Hts. Park, Corona Hts., Crocker-Amazon Natural Area, Dorothy Erskine Park, Duncan-Castro Open Space, Glen Cyn., Kite Hill, McLaren Park, Mt. Davidson, O'Shaughnessy Hollow, the Presidio (Crissy Bluffs, Ft. Point, Inspiration Pt., Presidio Bluffs, Presidio Hills, Tennessee Hollow, Washington/Armatury Housing, WWII Memorial), and Twin Peaks.	h	p	Grassland; Elevation: < 2050 m. WET: FACU	20	Apr-Aug	no	Y/Y
AST	<i>Wyethia helenioides</i>	gray mule ears	Known from a single collection (c. 1888) at Mission Dolores (Howell, <i>et al.</i>); there are no SF records in CCH. Extirpated; last collected in 1888.	h	p	Open grassland, woodland, scrub; Elevation: < 2000 m. WET: FACW	0	Mar-May	CA	Y/Y
AST	<i>Xanthium spinosum</i>	spiny clotbur	Recorded historically (1876) from Bayview Hills, the Embarcadero, Golden Gate Park, Lake Merced, San Miguel Hills, and se. SF (Howell, <i>et al.</i> , CCH). Considered non-native in Howell, <i>et al.</i> ; currently treated as a Cal. native. There are no contemporary reports from SF; to be expected.	h	a	Disturbed, seasonally wet, often alkaline sites, in grassland, marshes, watercourses; Elevation: < 1350 m. WET: FACU	0	Jul-Oct	no	Y/Y
AST	<i>Xanthium strumarium</i>	common cocklebur	[<i>X. calvum</i> ; <i>X. italicum</i>] Recorded historically (1894) from Golden Gate Park, the Presidio, and se. SF (Howell, <i>et al.</i> , CCH). Reported from the Presidio (Mountain Lake, Presidio Hills); expected elsewhere.	h	a	Disturbed, seasonally wet, often alkaline sites, in grassland, marshes, watercourses; Elevation: generally < 1400 m. WET: FAC	2	Jul-Oct	no	Y/Y
API	<i>Yabea microcarpa</i>	Cal. hedge-parsley	[<i>Caucalis m.</i>] Recorded historically (1901) from Forest Hill, Ft. Funston, Lake Merced, Land's End (Pt. Lobos), Mission Hills, and the Presidio (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1914.	h	a	Grassy slopes, dunes, chaparral, woodland; Elevation: < 1500 m. WET: FACU	0	Apr-Jun	no	Y/Y
ZAN	<i>Zanmichellia palustris</i>	horned pondweed	Recorded historically (1897) from Golden Gate Park, Lake Merced and the Presidio (Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from Candlestick Pt. and the Presidio (Presidio Hills seasonal pond).	h	p	Streams, ponds, lakes; Elevation: < 3090 m. WET: OBL	2	Mar-Nov	no	Y/Y
ARA	<i>Zantedeschia aethiopica</i>	calla lily	Recorded historically (1954) from SF (Howell, <i>et al.</i>); there are no SF records in CCH. Reported from throughout the city and the Presidio. INVASIVE STATUS: L/3/-/-	h	p	Rhizomatous. WET: OBL	50	Mar-Jun	no	N/N
GEN	<i>Zeltnera davyi</i>	Davy's centaury	[<i>Centaureum d.</i>] Recorded historically (1892) from "SF" (CCH) and the Presidio (Mountain Lake; Calflora); not included in Howell, <i>et al.</i> Reported from the Presidio (Inspiration Pt., Tennessee Hollow).	h	a	Moist coastal bluffs, dunes, open forest; Elevation: < 1000 m.	2	May-Aug	CA	Y/Y
GEN	<i>Zeltnera muhlenbergii</i>	Monterey centaury	[<i>Centaureum m.</i> ; <i>C. floribundum</i>] Recorded historically (c. 1890) from Mission Hills and the Presidio (Mountain Lake; Howell, <i>et al.</i> , NRDB). Voucher specimen needed. Reported from Glen Cyn.	h	a	Moist coastal bluffs, forest openings; Elevation: < 1600 m. WET: FAC	1	Jun-Aug	no	Y/Y
ZOS	<i>Zostera marina</i>	common marine eelgrass	Recorded historically (1959) from the edge of Ocean Beach, Pier 39, and se. SF (Howell, <i>et al.</i> , CCH). Recorded from the Embarcadero, Heron's Head Park, the Marina Dist. (Maritime Park), Ocean Beach, Pier 39, the Presidio (Crissy Field), and Yerba Buena Is. (Clipper Cove); presumably widespread along shoreline.	h	p	Rhizomatous; submersed marine aquatic. Shallow water, bays, estuaries; Elevation: rooted generally 1-4 m below mean low tide. WET: OBL	4	Mar-Jun	no	Y/Y