ANNOTATED CHECKLIST OF THE VASCULAR PLANTS OF SAN FRANCISCO^a



View of San Francisco, formerly Yerba Buena, in 1846-7, before the discovery of gold (Library of Congress)

Third Edition June 2021

Compiled by Mike Wood, Co-Chairman, Rare Plants Committee California Native Plant Society - Yerba Buena Chapter

	FOOTNOTES
a	This Checklist covers the extirpated and extant native and non-native plants reported from natural and naturalistic areas within the City and County of San Francisco. These areas include lands falling under the jurisdiction of the City and County of San Francisco (e.g., the Recreation and Parks Department, the Real Estate Division, the San Francisco Public Utilities Commission, the Department of Public Works, and the San Francisco Unified School District); the National Park Service (e.g., the Golden Gate National Recreation Area and the Presidio Trust); the California Department of Parks and Recreation; the University of California, San Francisco; the University of San Francisco; and privately owned parcels. References are listed in APPENDIX 1 .
b	FAMILY: Family codes, family names and all genera mentioned in the Checklist are listed in APPENDIX 3.
c	 SCIENTIFIC NAME: Scientific names and taxonomy conform to the Jepson Flora Project (JFP, 2021). Taxa in BOLD TYPE are listed as endangered, threatened or rare (federal / state / CNPS). Nomenclature used in Howell, <i>et al.</i> (1958) is UNDERLINED. Taxa highlighted in GRAY are indigenous to San Francisco, but which are presumed extirpated (i.e., those which have not been reported here since 1980, other than those that have been reintroduced. Extirpated indigenous taxa that have been reintroduced are indicated with "(r)". COMMON NAME: common names conform to JFP (2021), which includes a range of common names for most species; only a single common name is included in the Checklist. An explanation of abbreviations and acronyms can be found inside the back cover.
d	 NOTES: Synonyms and misapplied names are shown between square brackets [] and conform to JFP (2021), Hrusa (2006), and/or USDA (2021). Where differing from JFP, botanical nomenclature conforming to <i>Plants of the World Online</i> (POWO, 2019), the source utilized by iNaturalist.org, is shown as "pending". Historic Distribution: historic San Francisco occurrences are per Consortium of California Herbaria (CCH), <i>A Flora of San Francisco</i> (Howell, <i>et al.</i>, 1958), and the <i>Inventory of Rare and Endangered Plants</i> (CNPS, 2021). Historical occurrences are those which predate 1980; dates shown indicate earliest known collection or report. Extant Distribution: extant San Francisco occurrences are based on field notes and personal communications with know ledgeable persons; CCH, Calflora.org, iNaturalist.org (research grade observations only), and published and unpublished technical reports. Taxa reported from 1980 or later are presumed to be extant. Place names for all historic collections or records are listed for each taxon. Up to 20 place names for all contemporary reports are also listed. See APPENDIX 2 for a complete list of San Francisco place names cited in the Checklist. RARITY STATUS conforms to CNDDB (2020, 2021a, 2021b), CNPS (2021), and USFWS (2021). INVASIVE STATUS conforms to Cal-IPC (2021), SFWMA (2010), CDFA (2009), and USDA (2021). See the list of abbreviations and acronyms inside the back cover for an explanation of rarity and invasive status codes. Butterfly host plants conform to O'Brien (2009, pers. comm.) and Caldwell (2020). For an explanation of the CNPS ranking system, click here → https://www.onps.org/rare-plants/cnps-rare-plants-ranks
e	LIFE FORM: conforms to JFP (2021): f = fern or other pteridophyte; h = herb; g = grass or graminoid; gp = geophyte; ss = subshrub; s = shrub; t = tree; v = vine
f	DURATION: conforms to JFP (2021): a = annual; b = biennial; p = perennial; e = evergreen; d = deciduous
g	HABIT AND ECOLOGY: growth habit, habitats, and elevational ranges conform to JFP (2021). Wetland Indicator Status (WET) conforms to USACE (2018). Serpentine Affinity Ratings (SERP) conform to Safford and Miller (2020).
h	# OCCURRENCES: Indicates the number of San Francisco places where each taxon is presumed extant.
i	FLOWERING PERIOD: conforms to JFP (2021): sp = spring; sum = summer; fall = fall; win = winter; e = early; l = late
j	ENDEMIC, NATIVE: Endemic and local indigenous status are based on review of Howell, et al. (1958), CCH and JFP (2021).

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INTRODUCTION TO THE CHECKLIST

By Mike Wood, Co-Chairman, Rare Plants Committee California Native Plant Society, Yerba Buena Chapter

Third Edition, June 1, 2021

At the start of 2020 my wife and I were all set to begin exploring the South Pacific. Starting year three of our nomadic life we were headed for New Caledonia (to see the serpentine soils and native stands of *Araucaria*), then to island-hop our way towards Southeast Asia. But after a month and a half of car camping in Japan, two months of the same in New Zealand, and with typhoon season about to start in the South Pacific we decided to take a break in Hawaii before picking up the trail again. Then the world shut down due to the Coronavirus pandemic.

To be sure, there are worse places to get stuck. And we counted our blessings that we weren't in the Solomon Islands when the pandemic hit. But I needed something to fill my days while we waited and hoped for the world to reopen. After encouragement from my colleagues in the Yerba Buena Chapter of the California Native Plant Society (CNPS), and with reliable internet access, updating our chapter's 2nd edition of the *Annotated Checklist of the Vascular Plants of San Francisco* (Checklist) seemed the perfect pandemic project.

When I joined chapter's board of directors in 1994, I was in awe of the stores of knowledge my fellow board members had regarding what grows where. These observations, collected since the late 1970s, were stored in the minds of the "old-timers" and recorded on loose sheets of paper stuffed into files, folders, and cabinets, and tucked into the pages of dog-eared copies of *A California Flora* (Munz and Keck, 1973) and *The Jepson Manual* (Baldwin, et al., 1993).

The last flora of San Francisco County was completed in 1958 (Howell, *et al.*). Other local floras to which we frequently refer include those covering San Bruno Mountain (McClintock, *et al.* 1990) and the Santa Cruz Mountains (Thomas, 1961). Marin County has its updated flora (Howell, *et al.* 2007) as does the East Bay (Ertter and Naumovich, 2013). I asked my colleagues if we shouldn't undertake the effort to compile the species lists that had been amassed. I was "volunteered" for the job. The 1st edition of the Checklist was released in 2010.

It was my intention to compile all that knowledge into a master list of the plant species one might encounter when exploring San Francisco's hills, dunes, meadows, coastal bluffs, and seashores. I'm a big fan of local lists and you can find excellent examples on the websites of our neighboring chapters. By providing a comprehensive guide to native and nonnative plants in the city's natural and naturalized places I hoped to inspire folks to both investigate and protect these remaining pockets of diversity. In addition to the Checklist, I parsed out the occurrence data to produce individual lists for 58 natural areas. All of these lists are available as free, downloadable PDFs¹. These lists will be updated with release of the 3rd edition of the Checklist.

This effort led to three spin-off projects: Checklist of the Extirpated Plants of San Francisco², a list of the rare plants of San Francisco, and a list of the Locally Significant Plants of San Francisco³. Finally, in 2013, I wrote a pair of articles discussing the objectives and methods used in compiling the 2nd edition of the Checklist⁴.

Since release of the 2nd edition of the Checklist in 2014 there have been a lot of boots on the ground surveying and restoring natural areas in the city. Folks with the Presidio Trust and Golden Gate National Recreation Area (GGNRA) have undertaken significant efforts to document and restore natural plant communities found on lands under their jurisdiction. Similarly, the San Francisco Recreation and Parks Department (RPD) has directed hundreds of volunteer work parties to eradicate invasive plants and protect natural stands of native species on cityowned properties. In addition, organizations such as the California Academy of Sciences, Nature in the City, and RPD have hosted many bioblitzes. The bioblitz, a term first coined by the United States National Park Service in 1996, is a focused effort to record all living organisms within a specific area in the span of 24 hours. Bioblitzes are a wonderful way to put citizen scientists in direct contact with scientists and experienced naturalists and increase the coverage of targeted areas.

Another notable change since release of the 2nd edition was the creation of the iNaturalist database⁵. A joint initiative by the National Geographic Society and the California Academy of Sciences, iNaturalist provides a platform for anyone with an interest in the natural world to share their observations with a broad community of experts and novices. Since the first plant was recorded in 2010 in iNaturalist, over 103,000 verifiable plant observations have been recorded for San Francisco County. Considering these facts and the many changes in taxonomy and rarity ratings, it made sense to issue an update to the Checklist.

WHAT'S NEW

Like the 2nd edition, this updated and expanded Checklist is intended to serve as an easy-to-use guide to the floristic diversity of San Francisco County. I wish to emphasize that the Checklist is entirely the result of desktop analysis and is not supported by ground-truthing, collection of voucher specimens, or the review of herbaria records.

¹ <u>https://www.wood-biological.com/san-francisco-plant-checklist/</u>

² <u>http://cnps-verbabuena.org/the-extirpated-plants-of-san-francisco/</u>

³ <u>http://cnps-yerbabuena.org/locally-significant-plants-of-san-fran-cisco/</u>

⁴ Part 1: <u>http://cnps-yerbabuena.org/checklist-of-the-extant-flora-of-san-francisco/</u>

Part 2: <u>http://cnps-yerbabuena.org/annotated-checklist-of-the-vascu-lar-plants-of-san-franciscos-natural-areas-pt-ii/</u>

⁵ <u>www.inaturalist.org</u>

The 3rd edition of the Checklist covers all taxa indigenous to San Francisco, as well as introduced California natives, nonnatives, and naturalized and non-naturalized taxa. Records include both historic and extant reports and include 1,616 distinct taxa. The composition of the 3rd edition differs from that of the 2nd edition. Notably, the total number of extant species has increased from 1,027 to 1,170 and the number of extant indigenous taxa increased from 468 to 508. There has also been a dramatic increase in the number of nonnative taxa, from 417 to 643. A comparison of the taxa included in the 2nd and 3rd editions of the Checklist is presented in Table 1.

Table 1. Comparison of the 2nd and 3rd Editions of the Checklist

		ed.)14		ed.)21
Families	117		105	
Genera	474		498	
Таха	1,027		1,170	
SF Indigenous Taxa	468	45.6%	508	43.4%
Nonnative Taxa	417	40.6%	643	54.9%
Invasive Taxa	103	10.0%	96	8.2%
Reintroduced Taxa	17		30	
Listed Rare Taxa	24	2.3%	25	2.1%

In the 2nd edition of the Checklist, taxa were sorted by family, an arrangement that many users found confounding. In the 3rd edition, taxa are sorted alphabetically by genus, with a threeletter code to indicate families. For those users who think in terms of families, I have created a separate table listing all plant families covered in the Checklist along with each genus to aid in cross-referencing (see Appendix 3). The table also includes a cross-reference to family and genus names that have undergone recent taxonomic changes to aid users not yet familiar with new names. An explanation of abbreviations and acronyms used throughout the Checklist is provided inside the back cover.

Whereas the 2nd edition of the Checklist included only extant plant taxa, with extirpated taxa compiled in a separate list, the 3rd edition includes all plant taxa ever reported from San Francisco, extant and extirpated. For purposes of the Checklist, extirpated taxa are those not seen since 1980. The date 1980 might seem like an arbitrary cutoff between historic and contemporary. But after an informal poll of my fellow board members, it was agreed that it is a reasonable date to mark the beginning of the modern era characterized by renewed efforts to survey and restore San Francisco's natural areas.

In updating the scientific names of our plants, I quickly encountered conflicts between the nomenclature used by the Jepson Flora Project (JFP, 2021) and that found in *Plants of the World Online* (POWO, 2019), the source of names found in the iNaturalist database. In the Checklist, scientific nomenclature and taxonomy conform to JFP. Where they differ, I've included POWO nomenclature in the "notes" field as POWO provides what is arguably the most current nomenclature, and that which may ultimately be adopted by JFP. The names used by iNaturalist are included in the "notes" field followed by the word "pending." Synonyms and misapplied names conform to JFP (2021), Hrusa (2006), Flora of North America (FNA, 1993+), and/or U.S. Department of Agriculture (USDA, 2021) and are shown between square brackets [] in the "notes" field.

For those interested in cross-referencing nomenclature used in the Checklist, scientific names used in *The Flora of San Francisco* (Howell, *et al.*, 1958) have been <u>UNDERLINED</u>. Taxa in **BOLD TYPE** are listed as endangered, threatened or rare by the federal and state governments and CNPS. All extirpated taxa are HIGHLIGHTED, making them easy to spot when scanning the list. Extirpated indigenous taxa that have been reintroduced are indicated with (r).

Common names conform to JFP (2021). While JFP includes a range of common names for most species, only a single common name is included in the Checklist. There will no doubt be disagreement with some of the names chosen for the Checklist. Bear in mind that this list is intended to be dynamic, and changes made to the online version are instantly available.

In compiling occurrence records, I made a careful review of the online records in the Consortium of California Herbaria (CCH), reviewing every collection recorded for San Francisco County. The "notes" field now includes a list of all locations from which each native taxon has been collected or reported historically (i.e., prior to 1980); the earliest year in which each was collected or recorded is noted. For all extirpated indigenous taxa, the date of the most recent collection or report has been included. I have also indicated which indigenous taxa are not represented by herbarium specimens in CCH and for which a voucher specimen is needed. Contemporary plant observations (i.e., 1980 and later) are based on field notes assembled by and personal communications with knowledgeable persons, staff of the Presidio Trust, Golden Gate National Recreation Area (GGNRA), and RPD, as well as published and unpublished lists contained in technical reports and planning documents. I reviewed all San Francisco reports contained in the Calflora database (2020-2021) and over 40,000 "research grade" observations in iNaturalist (2020-2021). The "notes" column lists up to 20 place names of all extant taxa. With the exception of historic references, I have avoided intensively urbanized sites that have little value in terms of biodiversity or habitat preservation or restoration.

For purposes of the Checklist, emphasis has been placed on natural and naturalized areas. Natural areas are defined here as those lands supporting a preponderance of indigenous plant taxa in concentrations that characterize natural plant assemblages. Naturalized areas are those lands that have been adversely impacted by human disturbance or colonization by nonnative plants, but which support abundant naturally occurring indigenous species, examples of natural plant assemblages, or which are in the process of being restored to a more natural condition.

The Checklist covers 67 natural areas, 38 naturalized areas and 17 parks. These lands fall under the jurisdiction of the City and County of San Francisco (including RPD, the Real Estate Division, the San Francisco Public Utilities Commission, the Department of Public Works, and the San Francisco Unified School District); the National Park Service (including GGNRA and the Presidio Trust); the California Department of Parks and Recreation; the University of California, San Francisco; the University of San Francisco; and numerous privately owned parcels. For a map of the natural, naturalized and park lands, see Nature in the City, *et al.* (2018). A list of San Francisco place names used in the Checklist is presented in Appendix 2.

The "notes" field includes current rarity rankings and invasive status. Rarity rankings have been updated and conform to the California Natural Diversity Database (CNDDB, 2020; 2021a, 2021b), CNPS (2021), and the U.S. Fish and Wildlife Service (USFWS, 2021). The invasive status conforms to the California Invasive Plant Council (Cal-IPC, 2021), San Francisco Weed Management Area (SFWMA, 2010), California Department of Food and Agriculture (CDFA, 2009), and USDA (2021). Thanks to input from Liam O'Brien (O'Brien, pers. comm.) and Jeffrey Caldwell (2020), I have also added notes on butterfly host plants.

The 3rd edition of the Checklist includes an expanded discussion of the growth habit and ecological affinities of each taxon, and elevational ranges; this data conforms to JFP (2021). Also included are the Wetland Indicator Status (WET), conforming to the U.S. Army Corps of Engineers (USACE, 2018) and the Serpentine Affinity Ratings (SERP), conforming to Safford and Miller (2020). I have added a column to indicate taxa that are endemic to San Francisco, the Bay Area, and California.

BY THE NUMBERS

As mentioned above, the 3rd edition of the Checklist has been expanded to include not only extirpated taxa previously compiled in a separate list but also a great many taxa from historical data and new discoveries. Based on a tally of the current data set, the Checklist lists 1,616 taxa belonging to 679 genera and 136 families. A total 1,170 taxa are believed extant in the city. Of these, 769 (47.6%) are considered indigenous to San Francisco while 816 (50.5%) are introduced. The composition of the historic and extant flora presented in the 3rd edition of the Checklist is summarized in Table 2.

San Francisco currently supports some 24 taxa listed as Endangered, Threatened, or Rare by the federal and/or state governments or by CNPS. A total of 63 rare taxa have been extirpated from San Francisco (see Table 3).

From a management perspective, it is interesting to consider the species diversity at each natural area. The extant flora is comprised of 508 indigenous taxa; 43.4% of the total number of taxa present occurred in the County at the time of colonization. The sites with the greatest diversity of indigenous taxa include Tennessee Hollow (197 taxa, or 38.8% of all extant indigenous taxa), followed by Presidio Bluffs (196 taxa), Glen Canyon (194 taxa), World War II Memorial (180 taxa), and Inspiration Point (170 taxa). Twelve of the top 20 sites in terms of diversity of indigenous species occur in the Presidio. The top 20 sites with the highest diversity of indigenous plants are listed in Table 4.

Historic Flora		
Total Families:	136	
Total Genera:	679	
Total Taxa:	1,616	
Total SF Indigenous Taxa:	769	47.6%
Total Non-Indigenous Taxa:	816	50.5%
SF Indig. (Status Uncertain):	31	
Extant Flora		
Total Families:	105	
Total Genera:	498	
Total Taxa:	1,170	
Total SF Indigenous Taxa:	507	43.3%
Total Non-Indigenous Taxa:	643	55.0%
SF Indigenous taxa (Status Uncertain):	20	1.7%
Total Invasive* Taxa:	96	8.2%
Total Reintroduced Taxa:	29	
Total SF Endemic Taxa:	2	0.2%
Total Bay Area Endemic Taxa:	10	0.9%
Total CA Endemic Taxa:	102	8.7%
Total Fed Listed Taxa:	6	0.5%
Total State Listed Taxa:	4	0.3%
Total CNPS List 1:	15	1.3%
Total CNPS List 2:	1	0.1%
Total CNPS List 3:	1	0.1%
Total CNPS List 4:	7	0.6%
Total Fed/St/CNPS List 1-3:	17	1.5%
*Cal-IPC High and Moderate ratings		

Table 2. Composition of the Flora of San Francisco

Rarity Status Indigenous Only	Extant	Extirpated	Extirpated but Reintroduced
Federally Listed Endangered	5	3	1
Federally Listed Threatened	1	1	0
Federally Listed Rare	0	2	0
State-Listed Endangered	6	4	1
State-Listed Threatened	0	0	0
State-Listed Rare	0	1	0
Total Federally or State- Listed Taxa	12	12	2
CNPS List 1	15	33	2
CNPS List 2	1	5	0
CNPS List 3	1	2	0
CNPS List 4	7	23	1
Total CNPS-Listed Taxa	24	63	3

Table 3. Rare Species of San Francisco

It is also interesting to look at our natural areas in terms of the diversity of nonnative plants. The extant flora is comprised of 643 introduced taxa; 55% of the total number of taxa present have been introduced since the time of colonization. The sites with the greatest diversity of nonnative taxa include Yerba Buena Island (245 nonnative taxa, 38.1% of all extant nonnative taxa), Glen Canyon (196 taxa), Tennessee Hollow (186 taxa) Lobos Creek Valley (184 taxa) and McLaren Park (176 taxa). The top 20 sites with the highest diversity of nonnative taxa are listed in Table 5.

Table 4. Natural and Naturalized Areas with theHighest Diversity of Indigenous Plant Taxa

	-	
Site Name	Total # Of Indigenous Taxa	% Of All Indige- nous Taxa*
Tennessee Hollow	197	38.9%
Presidio Bluffs	196	38.7%
Glen Canyon Park	194	38.3%
World War II Memorial	180	35.5%
Inspiration Point	170	33.5%
Presidio Hills	159	31.4%
Fort Point	153	30.2%
Bayview Hill	152	30.0%
Twin Peaks	146	28.8%
Lobos Creek Valley	142	28.0%
Mountain Lake	137	27.0%
McLaren Park	134	26.4%
Crissy Field	133	26.2%
SW Dunes	130	25.6%
Mt. Davidson	128	25.2%
Fort Funston	120	23.7%
O'Shaughnessy Hollow	120	23.7%
Yerba Buena Island	120	23.7%
Crissy Bluffs	114	22.5%
Baker Beach North	111	21.9%

* % of all indigenous plant taxa extant in San Francisco

The introduction and spread of invasive plants have had a profoundly damaging effect on native species diversity and natural plant assemblages. It is therefore important to keep track of these invading species. The extant flora of San Francisco

Table 5. Natural and Naturalized Areas with theHighest Diversity of Nonnative Plant Taxa

Site Name	Total # Of Nonnative Taxa	% Of All Nonnative Taxa*
Yerba Buena Island	245	38.1%
Glen Canyon Park	196	30.5%
Tennessee Hollow	186	28.9%
Lobos Creek Valley	184	28.6%
McLaren Park	176	27.4%
Presidio Hills	168	26.1%
Mountain Lake	161	25.0%
Presidio Bluffs	155	24.1%
Land's End	149	23.2%
Doyle Dr. Natural Area	148	23.0%
Crissy Field	136	21.2%
Fort Point	135	21.0%
Sutro Forest	129	20.1%
World War II Memorial	124	19.3%
Golf Course Natural Area	123	19.1%
Inspiration Point	121	18.8%
SW Dunes	116	18.0%
Crissy Bluffs	112	17.4%
Fort Funston	111	17.3%
Lake Merced	111	17.3%

* % of all indigenous plant taxa extant in San Francisco

includes many invasive plant taxa. A total of 96 taxa, or 8.2% of the extant flora, are considered invasive by Cal-IPC (2021). The 20 sites with the highest number of invasive species are listed in Table 6.

Table 6. Natural and Naturalized Areas with the HighestDiversity of Invasive Plant Taxa

Site Name	Total # Of Invasive* Taxa	% Of All Invasive* Taxa**
Yerba Buena Island	52	54.2%
Tennessee Hollow	50	52.1%
Presidio Bluffs	44	45.8%
Lobos Creek Valley	43	44.8%
McLaren Park	41	42.7%
Mountain Lake	38	39.6%
Presidio Hills	38	39.6%
Glen Canyon Park	37	38.5%
Crissy Bluffs	37	38.5%
Crissy Field	36	37.5%
Fort Point	36	37.5%
Doyle Dr. Natural Area	35	36.5%
World War II Memorial	35	36.5%
Sutro Forest	34	35.4%
Inspiration Point	34	35.4%
Land's End	33	34.4%
Lake Merced	30	31.3%
Twin Peaks	30	31.3%
Golf Course Natural Area	30	31.3%
SW Dunes	30	31.3%

* Cal-IPC rated high, moderate, moderate-alert

** % of all indigenous plant taxa extant in San Francisco

As a means of evaluating the plant diversity of San Francisco's natural areas, it can be helpful to look at the frequency with which each indigenous species occurs. California poppy occurs in 84.8% of the 105 natural and naturalistic areas covered in the Checklist. Table 7 lists the most frequently occurring indigenous taxa found in the city.

Table 7. Most Frequently Occurring Indigenous Plant Taxa*

Species	# Of Areas Found	% Of All Areas*
Eschscholzia californica	89	84.8%
Claytonia perfoliata ssp. perfoliata	79	75.2%
Scrophularia californica	76	72.4%
Achillea millefolium	74	70.5%
Baccharis pilularis ssp. pilularis	74	70.5%
Heteromeles arbutifolia	73	69.5%
Toxicodendron diversilobum	73	69.5%
Rubus ursinus	71	67.6%
Lupinus arboreus	69	65.7%
Quercus agrifolia var. agrifolia	67	63.8%
Marah fabacea	66	62.9%
Diplacus aurantiacus	60	57.1%
Eriogonum latifolium	60	57.1%
Galium aparine	60	57.1%
Fragaria chiloensis	56	53.3%
Polystichum munitum	56	53.3%
Bromus sitchensis var. carinatus	55	52.4%
Polypodium californicum	55	52.4%
Chlorogalum pomeridianum var. divaricatum	54	51.4%
Pteridium aquilinum var. pubescens	54	51.4%

*Natural and naturalized areas only

A large number of our extant indigenous taxa occur very infrequently. As shown in Table 8, a total of 94 taxa (18.5%) occur at only a single location, while 170 (33.5%) occur at three or fewer locations. At the opposite end of the spectrum, 214 indigenous taxa, or 42.2% of the total, occur at ten or more locations.

Table 8. Frequency of Extant Indigenous Taxa

# Of Occurrences*	# Of Extant Indigenous Taxa	% Of Extant Indigenous Taxa
1	94	18.5%
2	41	8.1%
3	35	6.9%
1-3	170	33.5%
4	41	8.1%
5	20	3.9%
6	16	3.2%
7	25	4.9%
8	17	3.4%
9	17	3.4%
10-19	99	19.5%
20-39	81	16.0%
40-59	20	3.9%
>60	14	2.8%
10+	214	42.2%

*Natural and naturalized areas only

Of the 1,170 extant plant taxa in San Francisco, 643 (55%) have been introduced. Some non-indigenous taxa (119) are native to other regions of the state but have been introduced here. The majority (643) are not naturally occurring in San Francisco or California. Table 9 lists the most frequently occurring nonnative taxa found in the city.

# Of Areas* % Of All				
Species	Found	Areas*		
Oxalis pes-caprae	84	80.0%		
Raphanus sativus	83	79.0%		
Plantago lanceolata	78	74.3%		
Ehrharta erecta	76	72.4%		
Tropaeolum majus	75	71.4%		
Rubus armeniacus	74	70.5%		
Bromus diandrus	72	68.6%		
Hesperocyparis macrocarpa	72	68.6%		
Hedera helix	71	67.6%		
Hordeum murinum	71	67.6%		
Sonchus oleraceus	70	66.7%		
Eucalyptus globulus	69	65.7%		
Foeniculum vulgare	67	63.8%		
Stellaria media	67	63.8%		
Medicago polymorpha	66	62.9%		
Delairea odorata	63	60.0%		
Carpobrotus edulis	62	59.0%		
Lysimachia arvensis	62	59.0%		
Pinus radiata	62	59.0%		
Rumex acetosella	62	59.0%		

Table 9. Most Frequently OccurringNonnative Plant Taxa

*Natural and naturalized areas only

Considering the threats to the health and vitality of San Francisco's natural areas, it is worthwhile to look at the frequency with which invasive species occur. A total of 194 taxa, or 16.6% of the extant flora found in our natural and naturalized areas, are considered invasive or at risk of becoming invasive (Cal-IPC, 2021). These include taxa rated as "High" (29, 2.5%), "Moderate-Alert" (10, 0.9%), "Moderate" (57, 4.9%), "Limited" (71, 6.1%), and "Watch" (27, 2.3%). The 20 most frequently occurring invasive taxa rated "High" or "Moderate" are listed in Table 10.

The Checklist should prove useful to land managers, weedworkers, habitat restorationists, trail walkers, and anyone who appreciates a natural or semi-natural landscape and enjoys imagining how the San Francisco Peninsula appeared at the time of colonization. It is my hope that readily accessible checklists for individual natural areas will serve to enhance the experience of visitors interested in learning the identities of the plants they encounter along the city's many trails. More importantly, these lists should aid in conducting targeted searches for rare and unusual species, correcting misidentifications, focusing efforts on the eradication of invasive non-indigenous species, assembling a complete collection of voucher specimens for the county, and filling in those data gaps.

The 3rd edition of the Checklist is intended to serve as an easyto-use compilation of information about the current and historical flora of San Francisco. The data set can be readily updated to incorporate new discoveries. As revisions to the

Species	# Of Areas* Found	% Of All Areas*
Oxalis pes-caprae	84	80.0%
Ehrharta erecta	76	72.4%
Rubus armeniacus	74	70.5%
Bromus diandrus	72	68.6%
Hordeum murinum ssp. leporinum	71	67.6%
Hedera helix	71	67.6%
Foeniculum vulgare	67	63.8%
Delairea odorata	63	60.0%
Rumex acetosella	62	59.0%
Carpobrotus edulis	62	59.0%
Genista monspessulana	61	58.1%
Carduus pycnocephalus ssp. pycnocephalus	60	57.1%
Festuca perennis	60	57.1%
Conium maculatum	59	56.2%
Avena barbata	56	53.3%
Hypochaeris radicata	54	51.4%
Vinca major	48	45.7%
Myoporum laetum	45	42.9%
Holcus lanatus	44	41.9%
Avena fatua	42	40.0%

Table 10. Most Frequently Occurring Invasive** Plant Taxa

* Natural and naturalized areas only

** Cal-IPC rated high, moderate, moderate-alert

Checklists are prepared, they will be posted on our chapter website; be sure to check for updates as new discoveries are made. Also available for download are individual checklists for 67 of San Francisco's natural areas; each includes a map of the site and should serve as a handy companion for your next hike.

THE EXTIRPATED PLANTS OF SAN FRANCISCO

Extinction is the loss of a species throughout its range. Extirpation, also referred to as local extinction, is the loss of a species from a portion of its range. If extinction is forever, extirpation can be thought of as one of many nails in a species' coffin. While the loss of a plant or animal species from within some arbitrarily defined geopolitical boundary may not mean much in biological terms, it does serve as an alarm to those tracking such things. If a given locality represents a geographic extreme or discontinuity in a species' distribution, its extirpation there may indeed represent a significant loss of genetic diversity within a given lineage. Known as peripheral populations, these plants may play a critical role in a species' chance of surviving grossor fine-scale climatic changes by possessing greater genetic variability (Leppig and White, 2006). As we are witnessing dramatic shifts in local climates, there has never been a period in human history when this has been so critical. While the natural forces affecting plant and animal populations are profound, it's the unnatural forces that should concern us, especially those over which we have influence such as land use decisions and human-caused climate modification.

Some 99% of all species that ever evolved on Earth have gone extinct, primarily due to natural causes. Shifting continents, geologic uplift and subsidence, volcanism, the advance and retreat of glaciers, rising and falling ocean levels, inundation, desiccation, the formation of new islands and collapse of old ones, and the occasional meteor strike were the primary forces driving extinction before the Industrial Revolution. The resultant shifts in local and regional climatic conditions led to the extirpation of some plant populations and the expansion of others and have driven evolution. California is a perfect example of such forces, supporting a flora with characteristics of three separate geofloras. The Madro-Tertiary, the Arcto-Tertiary and the Neotropical-Tertiary geofloras each left behind remnants from the east, north, and south, respectively. The alternating invasion and retreat of these geofloras, combined with California's terrifically varied geology, topography and micro-climates account for our state's incredible floristic diversity. By last count, California is host to some 7,600 species, subspecies and varieties of plants (Baldwin, *et al.* 2012). Nearly 5,000 taxa (83.4%) of these are native and 1,315 (22%) are endemic, meaning they are found nowhere else in the world.

It is with these thoughts in mind that I started to investigate just what San Francisco has lost, floristically speaking. I began by reviewing and annotating the 1958 flora (Howell, *et al.*, 1958) and the *Flora of Santa Cruz Mountains* (Thomas, 1961), the geographic reach of which extends into the northern San Francisco Peninsula. I reviewed all San Francisco collections in CCH and reviewed other historical accounts (see the list of references in Appendix 1). After cross-referencing all synonyms with the revised nomenclature in JFP, I then compared them with the extant taxa listed in the revised Checklist. Indigenous taxa that have not been reported in the County since 1980 were considered extirpated.

This effort follows that of biologists working with the National Park Service, the Presidio Trust, and the Golden Gate National Parks Conservancy who have worked diligently to document the botanical resources of the Presidio (Frey and Stevenson, 2010; Stevenson and Frey, 2010). And with an eye toward reintroducing long-lost native plants, they produced a guide to the extirpated plants of the Presidio (Pimentel, 2011).

My motivation for starting this effort was two-fold. For the reasons outlined above, I feel it is important to identify what we've lost in the hopes of inspiring decision-makers to take seriously the continued degradation of our remaining natural areas. The other reason is quite simple and practical; just because a species hasn't been seen recently doesn't necessarily mean that it has been lost. Some of the more obscure species or those that are difficult to identify may have just been overlooked. So, by drawing attention to extirpated species, I hope to help focus the efforts of future surveys.

The historic flora included at least 769 indigenous plant taxa, of which 507 are believed extant. Based on this current analysis, 262 indigenous taxa have been extirpated from San Francisco, representing a loss of species diversity of at least 34.1% of the pre-colonial flora. That's a substantial and worrisome loss. A summary of the extant and extirpated flora is presented in Table 11.

A total of 52 plant taxa are listed for San Francisco County in the Inventory of Rare and Endangered Plants (CNPS, 2021). Of these, 33 (66%) have been extirpated. As shown in Table 11, this includes ten federally or state-listed taxa, 26 CNPS List 1B taxa, five on CNPS List 2, two on List 3, and 11 on List 4.

	Historic	Extant	Extirpated	Percent Extirpated
All Taxa	1,616	1,170	446	27.6%
Indigenous	769	507	262	34.1%
Non-indigenous	816	643	173	21.2%
Nativity Uncertain	31	20	11	35.5%
Rare and Endangered Taxa				
Total Fed Listed Taxa:	11	6	5	45.5%
Total State Listed Taxa:	9	4	5	55.6%
Total CNPS List 1:	41	15	26	63.4%
Total CNPS List 2:	6	1	5	83.3%
Total CNPS List 3:	3	1	2	66.7%
Total CNPS List 4:	18	7	11	61.1%
Total Fed/St/CNPS List 1-3:	50	17	33	66.0%

Table 11. Summary of the Extirpated Flora of San Francisco

As mentioned above, there have been a lot of boots on the ground surveying, weeding and planting our natural areas. And those boots are usually connected to a pair of eyes, resulting in the detection of some species previously thought lost to history. In fact, a total of 39 taxa previously thought extirpated have been documented. This is exactly the type of attention I was hoping to draw to our dwindling native plant resources. Increased awareness of the rarity of many of our plant species can inspire a new focus on them, both for finding them and, once found, for preserving the ecological systems in which they evolved. A summary of newly found and rediscovered taxa since release of the 2nd edition of the Checklist is presented in Table 12.

Table 12	. Newly F	ound and	Rediscovered	Taxa*
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Species
Acaena pinnatifida var. californica
Ammannia coccinea
Aphyllon robbinsii
Azolla filiculoides
Castilleja exserta ssp. latifolia
Centromadia pungens ssp. pungens
Chenopodium berlandieri var. zchackei
Chenopodium rubrum var. humile
Drymocallis glandulosa var. wrangelliana
Elymus elymoides var.
Elymus glaucus ssp. virescens
Elymus glaucus ssp. virescens
Elymus pacificus
Epilobium minutum
Epilobium minutum
Equisetum laevigatum
<i>Erysimum capitatum</i> var.
<i>Erysimum capitatum</i> var.
Heterotheca grandiflora
Leptosiphon parviflorus
Lomatium macrocarpum
Lupinus microcarpus var. microcarpus
Luzula subsesilis
Minuartia pusilla
Monardella villosa ssp. villosa
Phyllospadix torreyi
Polypodium glycyrrhiza
Ranunculus californicus var. cuneatus
Rumex transitorius
Sagina maxima ssp. crassicaulis

Spiranthes porrifolia
Spirodela polyrhiza
Stuckenia pectinata
Trifolium bifidum var. decipiens
Trillium albidum
Triphysaria versicolor ssp. faucibarbata
Triteleia hyacinthina
Typha domingensis
Zannichellia palustris

* Since release of the 2nd edition of the Checklist (2014)

With the knowledge of what once occurred here but has been lost, a rational case can be made for reintroducing species into appropriate habitats. In fact, there have been numerous attempts to propagate plants collected elsewhere on the San Francisco Peninsula for out-planting in the city. Staff of the Presidio Trust and GGNRA have been particularly ambitious in this regard, reintroducing rare and unusual plants onto lands under their control. These efforts have met with varying degrees of success.

Attempts at reintroducing a total of 69 taxa have been made throughout the city, four of which have not been successful. Of these, 32 taxa had been completely extirpated from San Francisco while another 37 taxa were still extant at other locations. A summary of attempted and successful reintroductions is presented in Table 13.

Table 13. Rare and Extirpated Taxa Reintroduced to San Francisco

Species	Status			
Acaena pinnatifida var. californica	Extant. Reintroduced at Mt. Sutro.			
Agoseris grandiflora var. grandiflora	Extant. Reintroduced at Sutro Forest.			
Agrostis densiflora	Extirpated. Reintroduced at Presidio (Presidio Bluffs).			
Ambrosia psilostachya	Extirpated. Incidental reintroduction at Pier 94.			
Amsinckia spectabilis var. spectabilis	Extant. Reintroduced at Lake Merced.			
Angelica tomentosa	Extirpated. Reintroduced at Glen Cyn. using seed collected from Crystal Springs.			
Aquilegia formosa	Extant. Reintroduced at Glen Cyn., Islais Cr., Sew- ard Mini Park, and Sutro Forest.			
Arabis blepharophylla	Extant: CNPS List 4.3. Reintroduced at Sutro Forest.			
Arctostaphylos manzanitaExtirpated. Reported from the Richmond Disssp.where it was presumably planted.				
Azolla filiculoides	Extant at McLaren Park. Reintroduced at the Pre- sidio (Golf Course Natural Area, Lobos Cr. Valley, Mountain Lake).			
Baccharis salicifolia ssp.	Extirpated. Reintroduced at Heron's Head and Hunters Pt. (India Basin Shoreline Park).			
Camissonia contorta	Extirpated. Reportedly reintroduced at the Presidio (Presidio Hills, WWII Memorial); status uncertain.			
<i>Carex aquatilis</i> var.	Extirpated. Reintroduced at the Presidio (Lobos Cr. Valley).			
Carex barbarae Extant. Reintroduced at Sutro Forest.				
<i>Castilleja affinis</i> ssp. <i>affinis</i> Extant. Reintroduced at Hawk Hill.				
Castilleja ambigua ssp. ambigua	Extirpated; CNPS List 4.2. An attempted reintro- duction at the Presidio (Crissy Field) was not suc- cessful.			

<i>Ceanothus thyrsiflorus</i> var.	Extant. Reintroduced at Sutro Forest.
Chloropyron maritimum ssp. palustre	Extirpated; CNPS List 1B.2. Reintroduced at the Presidio (Crissy Field).
Cirsium quercetorum	Extant. Reintroduced at Sutro Forest.
Clarkia amoena ssp. amoena	Extirpated. Reintroduced at Bernal Hts. Park.
Clarkia purpurea ssp. quadrivulnera	Extirpated. Reintroduced at the Presidio (Ft. Scott).
Clarkia rubicunda	Extant. Reintroduced at Sutro Forest.
Collinsia corymbosa	Extirpated; CNPS List 1B.2. Reintroduced at the Presidio (Baker Beach n., Crissy Field).
Collinsia heterophylla var. hetrerophylla	Extant. Reintroduced at Yerba Buena Is.
Cornus sericea ssp. occidentalis	Extirpated. Reintroduced at the Presidio (Dragonfly Cr.)
Cornus sericea ssp. sericea	Extant. Reintroduced at Alemany Farm, City Col- lege, Glen Cyn., Golden Gate Park (Lily Pond, Lake Merced, McLaren Park, Mission Bay, SFSU, and Su- tro Forest.
Croton setiger	All extant occurrences likely represent recent inci- dental reintroductions.
Cuscuta californica var. californica	Extirpated. Reintroduced at the Presidio (Baker Beach n., Lobos Cr. Valley, sw. dunes).
Dichondra donelliana	Extant. Reintroduced at Sutro Forest.
Drymocallis glandulosa var. glandulosa	Extant. Reintroduced at Sutro Forest.
Elymus mollis ssp. mollis	Extant. Reintroduced at Balboa Natural Area and the Presidio (Baker Beach, Crissy Field).
Eryngium armatum	Extirpated. Reintroduced at the Presidio (Crissy Field).
Erysimum franciscanum	Extant; CNPS List 4.2. Reintroduced at City College.
Erythranthe cardinalis	Extirpated. Reintroduced at Glen Cyn., Golden Gate Park, Lone Mt., and Sutro Forest.

Erythranthe guttata	Extant. Reintroduced at Sutro Forest.
Garrya elliptica	Extant. Reintroduced at Ft. Funston.
Hesperomecon linearis	Extirpated. Reintroduced at the Presidio (Lobos Cr. Valley).
Hippuris vulgaris	Extirpated. Reintroduced at the Presidio (Mountain Lake).
Horkelia cuneata var. sericea	Extirpated; CNPS List 1B.1. Reintroduced at the Presidio (Baker Beach n., Presidio Bluffs, sw. dunes).
Iris longipetala	Extant; CNPS List 4.2. Reintroduced at City College.
Juncus mexicanus	Extirpated. Reintroduced at the Presidio (Doyle Dr. Natural Area, Inspiration Pt., Mountain Lake, Pre- sidio Hills, Tennessee Hollow).
Lathyrus littoralis	Extant. Attempted reintroductions at the Presidio (Baker Beach, Crissy Field) were not successful.
Layia chrysanthemoides	Extirpated. Reintroduced at Heron's Head Park and India Basin Shoreline Park.
Lessingia germanorum	Extant; FE/SE/CNPS List 1B.1. Reintroduced at Ft. Funston.
Lomatium dasycarpum ssp. dasycarpum	Extant. Reintroduced at Sutro Forest.
Lupinus albifrons var. collinus	Extant. Reintroduced at Mt. Sutro.
Lupinus chamissonis	Extant. Reintroduced at numerous sites.
Lupinus formosus var. formosus	Extant. Reintroduced at Sutro Forest.
Lupinus microcarpus var. microcarpus	Extant. Reported from Buena Vista Park and Yerba Buena Is., where it was presumably introduced.
Lupinus succulentus	Extant. Reintroduced at the Sunset Dist., Sutro For- est, Treasure Is., and Yerba Buena Is.
Lysimachia maritima	Extirpated. Reintroduced at the Presidio (Crissy Field, Tennessee Hollow).
Maianthemum racemosum	Extant. Reintroduced at Sutro Forest.

Microseris sylvatica	Extirpated; CNPS List 4.2. Reintroduced at the Pre- sidio (Mountain Lake).
Morella californica	Extant. Reintroduced at Sutro Forest and presumably elsewhere.
Oenanthe sarmentosa	Extant. Reintroduced at Sutro Forest.
Oenothera elata ssp. hookeri	Extant. Reintroduced at the Presidio (WWII Memo- rial).
Phacelia californica	Extant. Reintroduced at Sutro Forest.
Phleum alpinum	Extirpated. Reintroduced at the Presidio (Ft. Point).
Pholistoma auritum var. auritum	Extant only at Yerba Buena Is. Extirpated on the mainland. Attempted reintroductions at the Pre- sidio (Lobos Cr. Valley) have not been successful.
Poa douglasii	Extant. Reintroduced at Balboa Natural Area.
Prunus ilicifolia ssp. ilicifolia	Extant only at Bayview Hill. Reintroduced through- out the city; recolonizing spontaneously about the Presidio.
Prunus virginiana var. demissa	Extant. Reintroduced at the Presidio (Mountain Lake), and Sutro Forest.
Rafinesquia californica	Extirpated. Reintroduced at the Presidio (Lobos Cr. Valley).
Rubus spectabilis	Extirpated. Reintroduced at Sutro Forest.
Scutellaria tuberosa	Extirpated. Apparently planted at the Presidio (Mountain Lake Park Playground).
Solidago confinis	Extirpated. An attempted reintroduction at the Pre- sidio (Crissy Field) was not successful.
Stellaria littoralis	Extirpated; CNPS List 4.2. An attempted reintro- duction at the wetland at north Baker Beach was not successful.
Suaeda californica	Extirpated; FE/CNPS List 1B.1. Reintroduced at Heron's Head and the Presidio (Crissy Field); ap- pears to have naturalized at Hunters Pt. and Pier 94.
Thalictrum fendleri var. fendleri	Extirpated. Reported from the Presidio (Mountain Lake); likely planted.

It is my hope that the 3rd edition of the Checklist will tide us over until Dr. Tom Daniel, Curator of Botany, Emeritus, at the California Academy of Sciences, completes his revised flora of San Francisco. Dr. Daniel reports that the flora will provide an update of the native and naturalized occurrences of plants in San Francisco County. His flora/field guide will include an introduction to the vegetation and flora of the county; identification keys to all genera and species; accounts of each species that will include scientific and common names; brief description of morphological features, habitats, whether native or naturalized; previous (pre-1957) and more recent collection and observation locales; notes on nomenclature, natural history, and ethnobotany; and many color photos and line drawings.

Until then, I hope this modest effort will continue to be of use to those fans of San Francisco's natural history. Check our chapter website for updates to the Checklist and for the soon to-bereleased list of Locally Significant Species. I look forward to many new discoveries and increasing our knowledge of what grows here. I will be continuously updating the Checklist, so please forward your observations and discoveries to the author at <u>mikeofftraveling@gmail.com</u>.

PLANT COLLECTING

Now that I've drawn so much attention to the native plants of San Francisco I would be remiss in failing to discuss the ethics of plant collecting. Clearly, this project would not have been possible without the skills and dedication of the botanists that collected, pressed, and identified the specimens stored in herbaria around the state and the world. But over-collecting from

small populations of plants, especially peripheral populations or those that are already threatened by human activities or invasive plants, can have dire consequences for their long-term viability. And in a place as densely peopled and as intensively visited as are many of our open spaces, the potential for serious impacts is high. So, a brief discussion of survey etiquette is warranted. First and foremost, remember the adage "take only photos, leave only footprints." But in high traffic areas, even footprints can seriously damage tender annual wildflowers. The collecting of wildflowers from City-owned lands is generally not allowed and on private lands requires the permission of the landowner. Furthermore, without a scientific collector's permit, the collection of plants on federal lands such as the Presidio and GGNRA is prohibited, as is the collection of state or federally listed rare species. Remember, flowers provide the pollen for insects and produce the seeds that will foster next year's crop. And every flower picked is one fewer that others can enjoy. So please, tread carefully and don't pick the posies.

With that out of the way, I wish to point out some data gaps concerning the availability of properly collected and accessed voucher specimens of San Francisco plants. Voucher specimens provide a critical record of plant distribution and are vital for conservation planning. The collection of voucher specimens should never jeopardize the well-being of a population and should conform with conservation ethics. As an aid to qualified botanists and in the hopes that suitable voucher specimens can be collected and submitted to the herbaria at the California Academy of Sciences or the Jepson Herbarium, I have assembled a list of 113 taxa for which San Francisco specimens are lacking. A summary of these taxa is presented in Table 14.

Species	Species	Species	Species
Acmispon brachycarpus	Corallorhiza striata	Juncus mexicanus (r)	Ranunculus aquatilis var. diffusus
Actaea rubra	Cornus nuttallii	Juncus xiphioides	Ranunculus hebecarpus
Agoseris heterophylla var.	Croton setiger (r)	Lasthenia maritima	Ribes menziesii var. menziesii
Alopecurus geniculatus	Cryptantha flaccida	Lasthenia microglossa	Sagittaria montevidensis ssp. calycina
Amaranthus californicus	Cynoglossum grande	Leptosiphon rosaceus	Salvia spathacea
Amelanchier utahensis	Delphinium decorum ssp. decorum	Lilium maritimum	Sanicula tuberosa
Ammannia coccinea	Echinodorus berteroi	Lilium pardalinum ssp.	Sceptridium multifidum
Ammannia robusta	Elatine brachysperma	Limosella aquatica	Schoenoplectus acutus var. occidentalis
Angelica tomentosa (r)	Elymus multisetus	Lomatium macrocarpum	Scutellaria tuberosa (r)
Aphyllon californicum ssp. californicum	Elymus xvancouverensis	Lupinus littoralis	Sidalcea malviflora ssp. malviflora
Aphyllon purpureum	Epilobium minutum	Lycopus americanus	Stebbinsoseris decipiens
Aphyllon robbinsii	Epipactis gigantea	Marah oregana	Stephanomeria virgata ssp. pleurocarpa
Apiastrum angustifolium	Eragrostis pectinacea var. pectinacea	Marsilea vestita ssp. vestita	Suaeda californica (r)
Bidens laevis	Eriophorum gracile	Microseris sylvatica (r)	Symphyotrichum subulatum var.
Callitriche marginata	Eriophyllum lanatum var. arachnoideum	Minuartia pusilla	Tauschia kelloggii
Calystegia occidentalis	Eryngium armatum (r)	Nemophila heterophylla	Thalictrum fendleri var. fendleri (r)
Carex bolanderi	Erythranthe cardinalis (r)	Nuphar polysepala	Thalictrum fendleri var. polycarpum
Carex utriculata	Euphorbia serpillifolia ssp.	Pellaea andromedifolia	Trifolium albopurpureum
Castilleja attenuata	Extriplex joaquiniana	Phragmites australis	Trifolium bifidum var. bifidum
Castilleja foliolosa	Garrya elliptica	Plagiobothrys bracteatus	Trifolium dichotomum
Chenopodium rubrum var. humile	Githopsis specularioides	Plagiobothrys stipitatus var.	Trifolium grayi
Chloropyron maritimum ssp. palustre (r)	Heliotropium curassavicum var. oculatum	Plectritis macrocera	Trifolium oliganthum
Chorizanthe robusta var. robusta	Hemizonella minima	Polemoneum carneum	Triglochin concinna var. concinna
Cicuta douglasii	Heteranthera dubia	Polystichum dudleyi	Trillium albidum
Cirsium remotifolium var.	Heterocodon rariflorum	Potamogeton natans	Trillium chloropetalum
Clarkia purpurea ssp.	Hordeum depressum	Potamogeton nodosus	Veronica peregrina ssp. xalapensis
<i>Claytonia sibirica</i>	Hypericum scouleri	Pseudognaphalium beneolens	Wolffiella lingulata
Collomia heterophylla	Isolepis carinata	Quercus parvula var. shrevei	Wyethia helenioides
* Highlighted taxa are presumed extirpate	ed and have not been reintroduced.		Zeltnera muehlenbergii

Table 14. Taxa* for Which San Francisco Herbarium Voucher Specimens are Needed

* Taxa in **BOLD** font are listed as rare

ACKNOWLEDGEMENTS

This work would not have been possible without the research and publications provided by others (see the references cited in Appendix 1). The indefatigable botanist, Mary Katherine Brandegee (1844-1920), first female curator of botany at the California Academy of Science, collected and published much about our local flora. Other notable contributors include Henry N. Bolander (1831-1897), Hans H. Behr (1818-1904), Edward L. Greene (1843-1915), Willis Linn Jepson (1867-1946), Alice Eastwood (1859-1953), Elizabeth McClintock (1912-2004), John H. Thomas and, of course, Peter H. Raven (1936), Peter Rubtzoff (1920-1995), and John T. Howell (1903-1994), authors of our first complete flora. For a fascinating account of the history of botany at the California Academy of Sciences see the article by Dr. Tom Daniel (2008).

I am indebted to Michael Chassé of the Golden Gate National Parks Conservancy; Brett Stephenson, Lewis Stringer, and Esperanza Pimentel of the Presidio Trust; and Randy Zebell (retired) of RPD's Natural Areas Program for their patient and thoughtful responses to my many queries. Thanks are owed to Dr. Tom Daniel, for his time responding to numerous inquiries even though he is in the midst of completing his much-anticipated revision of the flora of San Francisco. Thanks also to Liza Kachko for her work at Sutro Forest. There are too many folks to list here, but in addition to CNPS fellows Jake Sigg, and Barbara and Roland Pitschel, a few deserve mention for their efforts advocating for the native plants of San Francisco: photographer Margo Bors, Francis and Nancy Baron, Greg Gaar, Susan Smith, Pete Holloran, Adrian and Ludmila Stroganoff, Jo-Ann Ordano, Marck Menke, Wanda Milnes, Mary Butterwick, Mike Vasey, Barbara Deutsch, Susan Floore, and Don Mahoney.

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Although this compendium is based on data gleaned from other sources, I take full responsibility for any mistakes or misrepresentations. Feel free to share with me your comments and corrections.

This work is dedicated to the memory of Barbara and Roland Pitschel. Long-time board members of the CNPS Yerba Buena Chapter, CNPS Fellows, producers of our fabulous quarterly newsletter, and hosts of our monthly board and members' meetings, who dedicated so much of their lives to San Francisco's native plants.

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME [¢]	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ / CA
PIN	Abies grandis	grand fir	Known from a single 1900 collection from "SF" (CCH); not included in Howell, et al. 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	Abronia latifolia.	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	<u>Abronia umbellata</u> var. umbellata	coast sand-verbena	[A. unbellata] Recorded historically (1868, as full species) from Golden Gate Park, Hunters Pt., Ocean Beach, and the Presidio (Crissy Field, Ft. Point; Howell, et al., 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	а	Prostrate. Disturbed sandy areas, coastal dunes and scrub; Elevation: < 100 m.	9	Jan-Dec	no	Y/Y
MLV	Abutilon pictum	Indian mallow	[Callianthe p., pending; A. striatum] Not included in Howell, et al. and there are no SF records in CCH. Reported from Interior Greenbelt, the Presidio (Baker Beach) and Yerba Buena Is.	s	а	Ornamental.	3	Jan-Dec	no	N/N
MLV	Abutilon theophrasti	velvet-leaf abutilon	Not included in Howell, et al. 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	Acacia dealbata	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	Acacia decurrens	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 A. <i>dealbata</i> .	t	ep	Garden escape; not naturalized. Occasionally confused with <i>A. dealbata</i> .	6	Feb-Apr	no	N/N
FAB	Acacia longifolia	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	Acacia mearnsii	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	Acacia melanoxylon	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	Acacia paradoxa	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	Acacia retinodes	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	Acacia sp.	wattle	Reported (to genus) from Ft. Funston; needs id.	s-t	ep	n/a	1	n/a	no	N/N
FAB	Acacia verticillata	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	Acaena novae-zelandiae	New Zealand biddy biddy	[A. sanguisorbac] Recorded historically (1924) from Golden Gate Park and Laguna Honda Valley (Howell, et al., 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	р	Naturalized. Generally more-or-less disturbed areas; Elevation: < 200 m.	8	Mar-May	no	N/N
ROS	Acaena pinnatifida var. californica	pinnnatifid acaena	[<u>A. californica</u>] 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	р	Coastal grassland, open, rocky slopes; Elevation: 50-400 m.	30	Mar-May	CA	Y/Y
ACA	Acanthus mollis	bear's breeches	Not included in Howell, et al. and there are no historic SF records in CCH. Reported from Alcatraz Is.; expected elsewhere.	h	р	Garden escape; not naturalized. Clumping, from tuberous roots.	1	lsp-esum	no	N/N
SAP	Acer macrophyllum	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	Acer negundo	Cal. box-elder	[Incl. A.n. var. californicum] 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, et al.) 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	Achillea millefolium	common yarrow	[A. borealis] 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, et al., CCH). Reported from throughout the city and the Presidio.	h	р	Many habitats; Elevation: < 3650 m. WET: FACU	74	Apr-Sep	no	Y/Y
AST	Achyrachaena mollis	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 (Ft. 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	Acmispon americanus var. americanus	American bird's-foot trefoil	[Lotus purshianus_var. p.] Recorded historically (1935) from Bayview Hills and (1933, as full species) from Golden Gate Park (Howell, et al., 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	Acmispon brachycarpus	foothill bird's-foot trefoil	[Lotus humistratus] Recorded historically (1890) from Land's End (Pt. Lobos) and w. SF (Howell, et al.); 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	Acmispon glaber var. glaber	common deerweed, Cal. broom	[Latus scoparius, var. s.] 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, et al., CCH). Reported from the Presidio (Presidio Hills). Also reported (as full species) from throughout the city and the Presidio.	h-s	р	Chaparral, road-sides, coastal sands; common; Elevation: < 1500 m.	36	Mar-Aug	no	Y/Y
FAB	Acmispon heermannii var. orbicularis	Heermann's bird's-foot trefoil	[Lotus eriophorus; Lh. var. o.; Lh. var. eriophorus] Recorded historically (1888) from Lake Merced, Lone Mt., and Sunset Dist. dunes (Howell, et al., CCH). Reported from Ft. Funston and the Presidio (Mountain Lake, Presidio Bluffs, Presidio Hills).	h	р	Coastal scrub, chaparral; Elevation: < 250 m.	4	Mar-Oct	no	Y/Y
FAB	Acmispon parviflorus	small-flowered trefoil	[Lotus micranthus] Recorded historically (1882) from Bayview Hills, Laguna Honda Valley, and Mt. Davidson (Howell, et al., CCH). Reported from the Presidio (Doyle Dr. Natural Area, Dragonfly Cr.)	h	а	Coastal bluffs to oak/pine or fir woodland, open or disturbed areas; Elevation: < 1300 m.	2	Mar-May	no	Y/Y
FAB	Acmispon strigosus	strigose bird's-foot trefoil	[Ottleya strigosa, pending; <u>Lotus strigosus</u>] 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	Acmispon wrangelianus	Chilean trefoil	[Lotus w.; L_subpinuatus, 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, et al., 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	а	Coastal bluffs, chaparral, disturbed areas; Elevation: < 1500 m.	15	Mar-Jun	no	Y/Y
RAN	Actaea rubra	red baneberry	Not included in Howell, et al. 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	р	Deep soils, moist, open to shaded sites, mixed- evergreen or conifer forests; Elevation: < 2800 m. WET: FAC	1	May-Sept	no	Y/Y
PTR	Adiantum jordanii	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	р	Rhizomatous, short-creeping. Shaded hillsides, moist woodland; Elevation: < 1600 m. WET: FAC	6	n/a	no	Y/Y
CRS	Aeonium arboreum var. arboreum	tree aeonium	Not included in Howell, et al. and there are no SF records in CCH. Reported from Balboa Natural Area, the Embarcadero, Land's End, and Telegraph Hill; expected elsewhere.	ss	р	Naturalized. Fleshy. Bluffs, dunes, or persisting from cultivation; Elevation: < 100 m.	3	Oct-Apr	no	N/N
CRS	Aeonium haworthii	Haworth's aeonium	Not included in Howell, et al. and there are no SF records in CCH. Reported from Hawk Hill and Yerba Buena Is.; likely more common.	ss	р	Naturalized. Fleshy. Sea cliffs, dunes, or persisting from cultivation; Elevation: < 100 m.	2	Apr-Jul	no	N/N
SAP	Aesculus californica	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	Agapanthus africanus	lily-of-the-Nile	Not included in Howell, et al. 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	р	Ornamental; not naturalized.	3	sum	no	N/N
LIL	Agapanthus praecox ssp. orientalis	lily-of-the-Nile	[A. orientalis] Not included in Howell, et al. and there are no SF records in CCH. Reported from Billy Goat Hill; expected elsewhere.	h	р	Garden escape; not naturalized.	1	sum	no	N/N
AGA	Agave americana 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	р	Ornamental. Rhizomatous, fleshy. WET: UPL	9	Mar-Sep	no	N/N

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AST	Ageratina adenophora	sticky eupatorium	[<i>Eupatorium adenophorum</i>] Recorded historically (1878) from Golden Gate Park, Nob Hill, Russian Hill, Telegraph Hill, and Twin Peaks (Howell, et al., CCH). Reported from Clarendon Hts., Golden Gate Park, Lake Merced, Palou-Phelps, Potrero Hill, the Presidio (Ft. Scott, Horse Stables, Rob Hill, Tennessee Hollow), Sutro Forest, Telegraph Hill, Treasure Is., and Yerba Buena Is. INVASIVE STATUS: M/3/ –/NW	h-ss	р	Naturalized. Disturbed places, stream-banks canyons, hill slopes; Elevation: < 1000 m. WET: FACU	12	Jan-Dec	no	N/N
AST	<u>Agoseris apargioides</u> v ar. apargioides	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	р	Coastal dunes, sand hills; Elevation: < 100 m.	23	Apr-May	no	Y/Y
AST	Agoseris apargioides var. eastwoodiae	seaside false-dandelion	Not included in Howell, et al. and there are no SF records in CCH. Reported from Ft. Funston and the Presidio (Baker Beach n., Inspiration Pt.)	h	р	Reclining to prostrate. Coastal dunes, sand hills; Elevation: < 50 m.	3	Apr-May	no	N/Y
AST	<u>Agoseris grandiflora</u> var. grandiflora	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, et al, 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 A.g. var. g.) Reintroduced at Sutro Forest.	h	р	Grassland, scrub, woodland; Elevation: generally 300-2000 m.	10	Apr-Sept	no	Y/Y
AST	<u>Agoseris heterophylla_</u> var.	woodland agoseris	Recorded historically (c. 1890, as full species) from SF (Howell, et al.); there are no SF records in CCH. Possibly A.h. var. h., or A.h. var. cryptopleura. Extirpated; last observed in 1890.	h	а	Many open habitats; Elevation: generally < 2000 m. SERP: 1.4	0	Apr-Jul	no	Y/Y
AST	Agoseris hirsuta	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	р	Grassland, scrub, marshes (rare); Elevation: generally < 500 m.	0	Apr-Jun	no	Y/Y
AST	Agoseris sp.	false-dandelion	Reported (to genus) from Billy Goat Hill, Golden Gate Hts., Mt. Davidson, O'Shaughnessy Hollow, and Rocky Outcrop; needs id.	h	р	n/a	5	n/a	no	n/a
POA	Agropogon ^x littoralis	coast agropogon	[Polypogon l. Hybrid between Agrostis stolonifera and Polypogon monspeliensis; illegitimate name for a sterile hybrid] Recorded historically from Nob Hill (Eastwood 1898). Not included in Howell, et al. and there are no SF records in CCH. Reported from the Presidio (Mountain Lake); need id.	g	р	Naturalized. Open, often disturbed places; Elevation: < 300 m.	1	n/a	no	N/N
POA	Agrostis avenacea	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	р	Naturalized. From stolons or rhizomes. Road- sides, open, disturbed places; Elevation: < 1900 m. WET: FAC	2	Jun-Jul	no	N/N
POA	Agrostis capillaris	colonial bentgrass	[<u>A. tenuis</u>] Recorded historically (1950) from City College, Embarcadero, Golden Gate Park, Lone Mt., McLaren Park, Park Merced (Howell, et al., CCH). Reported from the Presidio and Yerba Buena Is. Larval host plant for the Common Ringlet and Fiery Skipper butterflies.	g	р	Naturalized. From stolons or rhizomes. Road- sides, open, disturbed places; Elevation: < 1900 m. WET: FAC	2	Jul-Sep	no	N/N
POA	Agrostis densiflora (r)	Cal. bentgrass	[<u>A. californica</u>] Known from two 1954 collections from Land's End (Pt. Lobos) and Sutro Baths (Howell, et al., CCH). Extirpated; last collected in 1954. Reintroduced at Presidio (Presidio Bluffs). Larval host plant for the Common Ringlet and Fiery Skipper butterflies.	g	р	Coastal bluffs, sandy soils; Elevation: < 200 m.	1	May-Aug	CA	Y/Y
POA	Agrostis exarata	spike bentgrass	[incl. A.e. var. pacifica] 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 (Ft. Point; Howell, et al., 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	р	Moist or disturbed areas, open woodland, conifer forest; Elevation: < 2000 m. WET: FACW	9	May-Jun	no	Y/Y
POA	Agrostis gigantea	giant bentgrass, giant redtop	[<u>A. alba</u> , misappl.] Recorded historically (c. 1865) from Golden Gate Park and Mission Dolores (Howell, et al., CCH). Reported from the Presidio (Baker Beach n., Presidio Bluffs, WWII Memorial). Larval host plant for the Common Ringlet and Fiery Skipper butterflies.	g	р	Naturalized. Rhizomatous. Road-sides, disturbed areas; Elevation: < 2000 m. WET: FACW	3	Jun-Sep	no	N/N
POA	Agrostis hallii	Hall's bentgrass	Recorded historically (1934) from Bayview Hills, Laguna Honda Valley, Lone Mt., Mt. Sutro, and Twin Peaks (Howell, et al., 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	р	Open oak woodland, conifer forest; Elevation: < 1800 m.	4	May-Jul	no	Y/Y
POA	Agrostis microphylla.	small-leaved bentgrass	Recorded historically (1865) from Hunters Pt. Ridge, Mt. Sutro, and the Presidio (Howell, et al., 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	а	Thin, rocky soils, cliffs, vernal pools, occasionally on serpentine; Elevation: < 200 m. WET: FACW	4	May-Jul	no	Y/Y
POA	Agrostis 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	Agrostis stolonifera	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	р	Naturalized. Matted, from stolons. Ditches, lake margins, marshes; Elevation: < 1000 m. WET: FACW	4	Jun-Sep	no	N/N

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ⁸	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ / CA
POA	<u>Aira caryophyllea</u>	common silver hairgrass	Recorded historically (1932) from SF (Howell, et al., CCH). Reported from throughout the city and the Presidio.	g	а	Naturalized. Sandy soils, open or disturbed sites; Elevation: < 1900 m. WET: FACW	34	Apr-Jun	no	N/N
FAB	Albizia julibrissin	Persian silk tree	Not included in Howell, et al. 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	Albizia lophantha	plume acacia	[Paraserianthes l., pending; A. distachya; Acacia l.] 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 Sutro Hts. (Howell, et al., 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	Alcea rosea	hollyhock	[<u>Allhaea r</u> .] 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	р	Naturalized. Disturbed places; Elevation: especially < 1100 m.	1	Jun-Aug	no	N/N
ALI	Alisma lanceolatum	narrow-leaved water plantain	Not included in Howell, et al. and there are no SF records in CCH. Reported from the Presidio (Mountain Lake).	h	р	Naturalized. Ponds, rice fields, slow streams; Elevation: < 500 m. WET: OBL	1	Jun-Aug	no	N/N
ALI	Alisma triviale	water plantain	[A. subcordatum; <u>A. plantago-aquatica_vars</u> americanum, brevipes, and <u>triviale</u> , misappl.; not occuring in Cal. (JFP, 2021)] Recorded historically (c. 1901; as A.p-a. var. triviale) from SF (Howell, et al.); there are no SF records for this genus in CCH. Status as an indigenous species in SF is uncertain. There are numerous records for A.t. from Alameda, Marin and San Mateo cos. in CCH.	h	р	Aquatic. Ponds; Elevation: < 1600 m. WET: OBL	0	May-Jun	no	?/Y
ALL	Allium dichlamydeum	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. Sutro, Oceanview, the Presidio (Arguello Gate, above Baker Beach, Golf Course), and San Miguel Hills (Howell, et al., 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	р	Bulb-forming. Dry clays on or near sea cliffs; Elevation: 50-150 m.	14	May-Jul	CA	Y/Y
ALL	Allium neapolitanum	Naples garlic	[Nothoscordum inodorum] 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, Sutro Forest, and Yerba Buena Is.; expected elsewhere.	gp	р	Naturalized. Bulb-forming. Disturbed more-or- less urban places; Elevation: < 100 m.	4	Mar-Apr	no	N/N
ALL	Allium triquetrum	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	р	Naturalized. Bulb-forming. Shady more-or-less disturbed places; Elevation: < 100 m.	48	Mar-Apr	no	N/N
ALL	Allium unifolium	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	р	Bulb-forming. Moist clay or serpentine, especially grassy stream-banks; Elevation: < 1100 m. SERP: 1.0	0	May-Jun	CA	Y/Y
ALL	Allium vineale	wild garlic	Previously included in the Liliaceae. Recorded historically (1978) from Golden Gate Park (CCH); not included in Howell, et al. Reported from Golden Gate Park and the Richmond Dist. INVASIVE STATUS: $-/-/-/NW$	gp	р	Naturalized. Bulb-forming. Disturbed places; Elevation: < 100 m. WET: FACU	1	Jun-Aug	no	N/N
BET	Alnus cordata	Italian alder	Not included in Howell, et al. 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	Alnus rhombifolia	western white alder	Not included in Howell, et al. 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	Alnus rubra	red alder	Not included in Howell, et al. 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.		dp	Wet places, especially after logging; Elevation: < 1000 m. WET: FACW	9	Feb-Mar	no	?/Y
BET	Alnus sp.	alder	Reported (to genus) from Laguna Honda Valley; needs id.	t	dp	n/a	1	n/a	no	n/a
ASP	Aloe maculata	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	р	Naturalized. Densely clumped, fleshy. Coastal bluffs; Elevation: < 100 m.	2	sp-sum	no	N/N
ASP	Aloe vera	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	р	Ornamental; not naturalized. Stoloniferous. Sandy areas, road-sides, in full sun; Elevation: <1300 m.	1	Apr	no	N/N
ASP	Aloe ^x schoenlandii	aloe	[Aloe ^x schimperi, pending, Hybrid between A. saponaria and A. striata.] Previously included in the Liliaceae. Not included in Howell, et al. and there are no SF records in CCH. Reported from Hawk Hill and Yerba Buena Is.; expected elsewhere.	h	р	Ornamental; not naturalized.	2	Apr	no	N/N
POA	Alopecurus geniculatus	creeping water foxtail	[<i>A. pallescens</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	р	Cespitose or from stolons. Open, wet meadows, pools, shores, stream-banks; Elevation: < 3200 m. WET: OBL	2	May-Jun	no	Y/Y

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁶	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT/ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	EN DEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ^j /CA
POA	Alopecurus pratensis	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	р	Cespitose or from stolons. Open, damp meadows; Elevation: 20-2400 m. WET: FACW	0	Mar-May	no	N/N
POA	Alopecurus saccatus	Pacific foxtail	[A. howellii; A. californicus] Not included in Howell, et al. 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	Alyssum alyssoides	sweet alyssum	Recorded historically (1894) from SF (Howell, et al.); and there are no SF records in CCH. Reported from Ocean Beach and the Richmond Dist.	h		Naturalized. Disturbed areas, flats, ledges, bluffs; Elevation: < 1800 m.	1	May-Jul	no	N/N
AMA	Amaranthus albus	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	Amaranthus blitoides	prostrate pigweed	[<u>A. graecizans</u>] Recorded historically (c. 1957) from se. SF was considered a waif (Howell, et al.); 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	Amaranthus californicus	Cal. amaranth	Known from a single 1852 collection from "SF" (Howell, et al.); 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	а	Prostrate, mat-forming. Seasonally moist flats, lake margins, disturbed areas; Elevation: < 2800 m. WET: FACW	0	Jun-Aug	no	Y/Y
AMA	Amaranthus deflexus	low amaranth	[incl. <u>A. gracilis</u> , 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	р	Naturalized. Railroad right-of-ways, disturbed areas; Elevation: < 650 m.	4	May-Nov	no	N/N
AMA	Amaranthus hybridus	slender pigweed	Recorded historically (1957) from the Embarcadero, the Presidio (Ft. Point; Howell, et al., 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	Amaranthus powellii	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		Erect. Agricultural fields, disturbed areas; Elevation: < 1500 m.	0	Jun-Oct	no	N/Y
AMA	Amaranthus retroflexus	redroot pigweed	Recorded historically (1957) from Golden Gate Park, near Islais Cr., and Lake Merced (Howell, et al., CCH). Reported from Ft. Funston.	h		Naturalized. Agricultural fields, disturbed areas; Elevation: < 2400 m. WET: FACU	1	Jun-Nov	no	N/N
AML	Amaryllis belladonna	Cape belladona 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	`	Naturalized. Bulb-forming. Disturbed sites, often around abandoned home sites; Elevation: < 750 m.	43	Jul-Sep	no	N/N
AST	Ambrosia artemisiifolia	common ragweed	Recorded historically (1956) from Mission Bay (Howell, et al., CCH). There are no contemporary reports from SF.	h		Naturalized. Disturbed sites; Elevation: < 1050 m. WET: FACU	0	Jul-Oct	no	N/N
AST	Ambrosia chamissonis	beach bur, silver beachweed	[<i>Franseria c.; F.c.</i> var. <i>bipimatisecta</i> ; incl. <i>A.c.</i> var. <i>bipimatisecta</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	р	Mat-forming, Beaches, dunes; Elevation: < 25 m.	19	May-Oct	no	Y/Y
AST	Ambrosia confertiflora	weak leaved burweed	[<i>Franseria 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		From rhizome-like roots. Disturbed areas; Elevation: < 1250 m.	0	May-Nov	no	N/Y
AST	<u>Ambrosia psilostachya (</u> r)	western ragweed	[A.c. var. californica] Recorded historically (1956) from the Embarcadero, Mission Bay, and Telegraph Hill (Howell, et al., CCH). Reported from Pier 94; likely a recent re-introduction.	h		Colonial from rhizome-like roots. Road-sides, dry fields; Elevation: < 1000 m. WET: FACU	1	Jul-Nov	no	Y/Y
ROS	Amelanchier pallida	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		Dry rocky slopes, canyons, chaparral, mountainsides.	2	May-Jun	no	Y/Y
ROS	Amelanchier utahensis	Utah service-berry	Recorded historically (1924) from Mission Hills and Mt. Davidson (CCH); not included in Howell, et al. 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	Ammannia coccinea	redstem ammannia	[A. auriculata] Not included in Howell, et al. 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		Prostrate to erect. Wet places, drying ponds, lake, creek margins; Elevation: < 300 m. WET: OBL	1	Jun-Aug	no	Y/Y
LYT	Ammannia robusta	grand redstem	Not included in Howell, et al. and there are no SF records in CCH. Reported from the Presidio (Tennessee Hollow). Not likely indigenous to SF. Possibly confused with A. coccinea. Voucher specimen needed.	h	а	Wet places, drying ponds, ditch margins; Elevation: < 500 m. WET: OBL	1	Jun-Aug	no	N/Y
POA	Ammophila arenaria	European beach grass	Recorded historically (1896) from SF (Howell, et al., CCH). Reported from Edgehill Mt., Ft. Funston, Lake Merced, Ocean Beach, and the Presidio (Baker Beach, sw. dunes). INVASIVE STATUS: H/2/—/—	g	р	Naturalized. Rhizomatous. Sand dunes; Elevation: < 240 m. WET: FACU	6	May-Aug	no	N/N
POA	Ammophila breviligulata	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		Rhizomatous. Sand dunes, dry sand shores. WET: FACU	1	Mar-May	no	N/N

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BOR	Amsinckia intermedia.	common fiddleneck	[A. menziesii var. i.] Recorded historically (1903) from Bayview Hills, the Embarcadero, Golden Gate Park, Lake Merced, Laurel Hts., McLaren Park, Mt. Davidson, San Miguel Hills, and Visitación Valley (Howell, et al., 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 A. vulgaris and A. franciscana).	h	a	Open, generally disturbed areas; Elevation: < 1750 m.	7	Mar-Jun	no	Y/Y
BOR	Amsinckia lycopsoides	bugloss fiddleneck	Recorded historically (1891) from Land's End and the Presidio (Howell, et al., 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	Amsinckia menziesii	Menzies' fiddleneck	Not included in Howell, et al. 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>Amsinckia spectabilis</u> var. spectabilis	seaside fiddleneck	[A. davyii] 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, et al., 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	Anaphalis margaritacea	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	р	Rhizomatous. Woodland, disturbed places; Elevation: < 3200 m. WET: FACU	31	Jul-Oct	no	Y/Y
API	Angelica hendersonii	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, et al., 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	р	Generally sprawling, Coastal bluffs, scrub; Elevation: < 150 m.	22	Jun-Jul	no	Y/Y
API	Angelica tomentosa (r)	woolly angelica	Not included in Howell, et al. 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	р	Generally wooded areas; Elevation: 30-2400 m.	1	Jun-Aug	no	Y/Y
AST	Anisocarpus madioides	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 iNaturalist; needs verification.	h	а	Moist forest, woodland; Elevation: < 1300 m.	0	Apr-Jul	no	Y/Y
BAS	Anredera cordifolia	mignonette vine	[<u>Boussingaultia gracilis var. pseudo-baseloides</u>] Recorded historically (c. 1955) from Mission Bay (Howell, et al., CCH). There are no contemporary reports from SF.	h-v	р	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	Anthemis cotula	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	а	Naturalized. Disturbed areas, fields, coastal dunes, chaparral, oak woodland; Elevation: < 2600 m. WET: FACU	5	Apr-Aug	no	N/N
POA	Anthoxanthum odoratum	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	р	Naturalized. Cespitose. Meadows, pastures, openings in conifer forest, disturbed sites; Elevation: generally < 1600 m. WET: FAC	2	May-Jun	no	N/N
API	Anthriscus caucalis	bur-chervil	[<u>A. neglecta.var.scandix</u>] Recorded historically (1933) from Golden Gate Park, Lake Merced, and the Presidio (Lobos Cr. Valley; Howell, et al., CCH). Reported from throughout the city and the Presidio.	h	а	Naturalized. Generally shady places; Elevation: < 1500 m.	40	Apr-Jun	no	N/N
PTG	<u>Antirrhinum majus</u>	garden snapdragon	Recorded historically (c. 1955) from Bayview Hills (Howell, et al.); 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	Antirrhinum orontium	Syrian snapdragon	[Misopates o., pending] Not included in Howell, et al. 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	Aphanes occidentalis	western lady's mantle	[Alchemilla o.] 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, et al., 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	Aphyllon californicum ssp. californicum	Cal. broomrape	[<u>Orobanche californica</u> ssp. californica]. Recorded historically (1816, as full species) from Land's End and the Presidio (Presidio Bluffs, sw. dunes; Howell, et al.); there are no SF records in CCH. Reported from the Presidio (Presidio Bluffs). Voucher specimen needed. Typically parasitic on Grindelia; pale form in SF on <i>Eriophyllum staechadifolium</i> is an undescribed species.	h	р	Root parasite. Sandy or heavy soils of coastal bluffs, generally on <i>Grindelia</i> ; Elevation: < 150 m.	1	Jun-Aug	CA	Y/Y

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁶	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM [®]	DURATION ^f	HABIT/ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SP ⁱ /CA
ORO	Aphyllon fasciculatum	clustered broomrape	[Orobanche fasciculata] Recorded (c. 1923) historically from Lake Merced, Laurel Hill Cemetery, and the Presidio (Howell, et al., CCH). Reported from the Presidio (Inspiration Pt., Lobos Cr. Valley, Presidio Bluffs). Parasitic on Eriogonum, Artemisia, Galium.	h	р	Root parasite. Dry, generally more-or-less bare places, generally on shrubs (generally Artemisia, <i>Eriodictyon, Eriogonum, Eriophyllum, Phacelia</i>); Elevation: < 3300 m.	3	Apr-Jul	no	Y/Y
ORO	Aphyllon purpureum	purple broomrape	[Previously considered as Orobanche uniflora, a taxon not occurring in Cal. (JFP, 2021)] Recorded historically (as <u>Out, var, minuta</u> and <u>var, sedi</u> ; 1896) from Potrero Hills, Sunset Hts., and Twin Peaks, growing on Sedum spathulifolium (Howell, et al.); there are no SF records in CCH. Reported from the Presidio; needs confirmation. Voucher specimen needed.	h	а	Root parasite. Generally moist places, on herbs, especially <i>Senecio aronicoides, Antennaria, Sedum,</i> Apiaceae, Saxifragaceae; Elevation: < 3100 m.	1	Mar-Jul	no	Y/Y
ORO	Aphyllon robbinsii	Robbin's broomrape	[Orobanche r.] Recorded historically (1956) from Land's End (CCH); not included in Howell, et al. Recently rediscovered at the Presidio (Presidio Bluffs). Previously believed extirpated; last collected in 1966. SF is the type locality (isotype of Orobanche r.) Voucher specimen needed.	h	а	Root parasite. Sandy or loose soils of coastal bluffs, on <i>Eriophyllum staechadifolium</i> ; Elevation: < 100 m.	1	Apr-Jul	no	Y/Y
ORO	Aphyllon vallicolum	valley broomrape	[Orobanche vallicola] Known from a single 1966 collection from Land's End (CCH); not included in Howell, et al. Extirpated; last collected in 1966.	h	a	Root parasite. Riparian woodland, on <i>Sambucus</i> <i>nigra</i> ; Elevation: < 300 m.	0	Jul-Sep	CA	Y/Y
API	Apiastrum angustifolium	Cal. mock-parsley	Recorded historically (c. 1890) from Land's End (Pt. Lobos), se. SF, and Visitación Valley (Howell, et al.); there are no SF records in CCH. Extirpated; last collected in 1890.	h	а	Chaparral, coastal scrub; Elevation: < 1500 m. WET: UPL	0	Mar-Apr	no	Y/Y
API	Apium graveolens	celery	Recorded historically (1974) from McLaren Park and the Presidio (Howell, et al., 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	Apocynum androsaemifolium	bitter dogbane	Known from a single undated collection from "SF" (CCH); not included in Howell, et al. Extirpated.	h	р	Open slopes, rocky places, with conifers, chaparral; Elevation: 200-2500 m. WET: UPL	0	May-Sep	no	Y/Y
AIZ	Aptenia cordifolia	red-apple iceplant	[Mesembryanthenum cordifolium] 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, et al., 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	р	Naturalized. Prostrate, fleshy. Disturbed places, margins of coastal wetlands; Elevation: < 100 m.	8	Apr-May	no	N/N
RAN	Aquilegia formosa.	crimson columbine	[Incl. A.f. var. truncata] Recorded historically (1895) from Mt. Davidson and Stanford Hts. (Howell, et al., 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	р	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	<u>Arabis blepharophylla</u>	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, et al., 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	р	Rocky outcrops, bluffs, grassy slopes; Elevation: 50-300 m.	13	Feb-May	CA	Y/Y
ARL	Aralia californica	Cal. elk-clover	Not included in Howell, et al. 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	Arbutus menziesii	Pacific madrone	Recorded historically (1837) from "SF" and Golden Gate Park (Howell, et al., 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	Arbutus unedo	strawberry tree	Not included in Howell, et al. and there are no SF records in CCH. reported from the Embarcadero and the Presidio (Lobos Cr. Valley).	t	р	Ornamental; not naturalized.	1	Nov-Dec	no	N/N
AST	Arctium lappa	great burdock	Recorded historically (1916) from Golden Gate Park (CCH); not included in Howell, et al. There are no contemporary reports from SF.	h	b	Naturalized. Disturbed places; Elevation: < 500 m.	0	Jun-Oct	no	N/N
ERI	<u>Arctostaphylos crustacea</u> ssp. crustaceae	brittleleaf manzanita	[A. tomentosa ssp. crustaceae] Recorded historically (1933) from Brotherhood Way (Howell, et al., CCH). Reported from Brotherhood Way.	s	ep	Chaparral, conifer forest; Elevation: < 1100 m.	1	Jan-Apr	CA	Y/Y
ERI	Arctostaphylos crustacea_ssp. rosei	Rose's manzanita	[A. rosei; A. tomentosa ssp. r.] Recorded historically (1907) from Brotherhood Way (Howell, et al., CCH). Reported from Brotherhood Way. SF is the type locality (holotype of A. rosei).	s	ep	Chaparral, conifer forest, coastal bluffs; Elevation: < 500 m.	1	Feb-Apr	CA	Y/Y
ERI	Arctostaphylos franciscana	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	Arctostaphylos manzanita ssp. (r)	common manzanita	Presumably A.m. ssp. m. Known from a single 1891 collection from the Presidio (Ft. Point; CCH); not included in Howell, et al. 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	Arctostaphylos manzanita ssp. elegans	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 in1894. RARITY STATUS: $-/-/1B.3$	s	ep	Woodland, chaparral, conifer forest, generally volcanic soils; Elevation: 220-1850 m.	0	Mar-May	CA	Y/Y

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ERI	Arctostaphylos montana ssp. ravenii	Presidio manzanita	[A. hookeri ssp. r.] Recorded historically (1907) from Laurel Hill Cemetery, Mt. Davidson, and the Presidio (above Baker Beach, WWII Memorial; CCH); not included in Howell, et al. Extant at an undisclosed location in the Presidio. Endemic to SF. SF is the type locality (holotype of A. hookeri ssp. ravenii). RARITY STATUS: FE/SE/IB.1	s	ep	Serpentine chaparral; Elevation: 60-95 m. SERP: 6	1	Feb-Mar	SF	Y/Y
ERI	Arctostaphylos punila	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: $-/-/1B.2$	s	ep	Sandy soils in chaparral, oak woodland; Elevation: < 200 m.	0	Feb-May	CA	Y/Y
ERI	Arctostaphylos sensitiva	glossyleaf manzanita	[incl. A. nummularia var. sensitiva] Known from a single collection (1900, as A. nummularia) from Lone Mt. (CCH); not included in Howell, et al. Extirpated; last collected in 1900.	s	ep	Rocky sites, chaparral, closed-cone conifer forest; Elevation: < 600 m.	0	Jan-Apr	CA	Y/Y
ERI	Arctostaphylos tomentosa ssp. bracteosa	bristly twig manzanita	[A.t. var. trichoclada; A.t. var. hebeclada] Known from a single 1964 collection from Lake Merced (Brotherhood Way?; CCH); not included in Howell, et al. 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	Arctotheca calendula	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	Arctotheca prostrata	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	<u>Arenaria paludicola</u>	marsh sandwort	Known from two collections (1868) at the Presidio (Ft. Point; Howell, et al., CCH). Extirpated; last collected in 1900. RARITY STATUS: FE/SE/1B.1	h	р	Erect to mat-forming. Wet meadows, marshes; Elevation: < 300 m. WET: OBL	0	May-Aug	no	Y/Y
AST	Argyranthemum foeniculaceum	Canary Is. marguerite	Recorded historically (1949) from Lake Merced and Twin Peaks (CCH); not included in Howell, et al. Reported from Ft. Funston and Yerba Buena Is. where it has become invasive on bluffs.	ss	р	Naturalized. Foliage scented. Escape from cultivation in disturbed coastal areas; Elevation: < 100 m.	2	Mar-Aug	no	N/N
AST	Argyranthemum frutescens	marguerite	[<i>Chrysanthemum f.</i>] 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	р	Ornamental; not naturalized.	2	sum	no	N/N
PTR	Argyrochosma limitanea ssp. limitana	southwestern false cloak fern	[Chilanthes l. var. l.] Known from a single 1900 collection from Golden Gate Park (CCH); not included in Howell, et al. There are no contemporary reports from SF. Native Cal. taxon undoubtedly introduced to SF.	f	р	Rhizomatous. In crevices of desert mtns, especially bases of calcareous rocks; Elevation: 1800 m.	0	n/a	no	N/Y
ARS	Aristolochia californica	Cal. pipevine	Recorded historically (1892) from Brotherhood Way, Golden Gate Park (Strawberry Hill), Lake Merced, Pine Lake (Howell, et al., 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	р	Generally climbing, Stream-sides, forest, chaparral; Elevation: < 700 m.	7	Jan-Apr	CA	Y/Y
PLB	<u>Armeria maritima</u> ssp. californica	common sea-pink	[A.m. var. c.] Reported historically (1877) from Golden Gate Hts., Lake Merced, the Presidio (Baker Beach), Sunset Hts., and the Sunset Dist. (Howell, et al., 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	р	Rhizomatous. Ocean bluffs, ridges, coastal strand, sand, exposed grassland; Elevation: < 245 m.	27	Feb-Sept	CA	Y/Y
POA	Arrhenatherum elatius	tall oatgrass	Known from a single 1917 collection from Golden Gate Park (CCH); not included in Howell, et al. There are no contemporary reports from SF.	g	р	Naturalized. Cespitose, sometimes rhizomatous. Disturbed, open sites; Elevation: 30-1800 m. WET: UPL	0	May-Jul	no	N/N
AST	<u>Artemisia californica</u>	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	р	Coastal scrub, chaparral, open woodland; Elevation: < 800 m.	47	Aug-Nov	no	Y/Y
AST	Artemisia douglasiana.	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	р	Rhizomatous. Open to shady areas, often in drainages; Elevation: < 2200 m. WET: FAC	29	May-Nov	no	Y/Y
AST	<u>Artemisia dracunculus</u>	wild tarragon	Recorded historically (c. 1900) from Black Point (Ft. Mason), where it was presumed to have been introduced (Howell, et al.); there are no SF records in CCH. There are no contemporary reports from SF.	h	р	Many habitats, especially disturbed sites; Elevation: < 3400 m. WET: FACU	0	Aug-Oct	no	N/Y
AST	Artemisia pycnocephala	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, et al., CCH). Relatively common on sandy sites throughout the western edge of the city and the Presidio.	h	р	Mounding. Rocky or sandy soils, coastal strand; Elevation: < 200 m.	30	Jun-Sep	no	Y/Y

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ARA	Arum italicum	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	р	Naturalized. Tuberous. Disturbed, generally shaded areas; Elevation: < 500 m.	17	Mar-Jun	no	N/N
POA	Arundo donax	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	р	Naturalized. Rhizomatous. Moist places, seeps, ditch banks; Elevation: < 1500 m. WET: FACW	4	Mar-Sep	no	N/N
ARS	Asarum caudatum	creeping wild ginger	Recorded historically (1870) from "SF" (possibly Lake Merced) and Golden Gate Park (Howell, et al., CCH) Reported from Golden Gate Park and Lake Merced (Ochoa, 2001).	h	р	Rhizomatous. Moist places in forest; Elevation: < 2200 m. WET: FAC	2	Mar-May	no	Y/Y
APO	Asclepias speciosa	showy milkweed	Not included in Howell, et al. 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	р	Many habitats including fields, roadsides; Elevation: < 1900 m.	2	Jun-Jul	no	N/Y
ASG	Asparagus asparagoides	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	р	Naturalized. Tuberous. Disturbed places, fields; Elevation: < 1700 m.	2	Dec-Apr	no	N/N
FAB	Astragalus gambelianus	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	а	Open, grassy areas, scrub; Elevation: < 1450 m.	4	Mar-Jul	no	Y/Y
FAB	Astragalus nuttallii var. nuttallii	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	р	Generally prostrate or decumbent. Rock, sandy areas, bluffs; Elevation: < 250 m.	5	Jan-Nov	CA	Y/Y
FAB	Astragalus nuttallii <u>vər. virgatus</u>	ocean bluff rattle-weed	[A. crotalariae var. v.] 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, et al., CCH). Reported from Ft. Funston; reintroduced at the Presidio (Crissy Field). SF is the type locality (isotype of A. crotalariae var. virgatus).	h	р	Ascending or erect, at coast prostrate or not. Sandy soil, bluffs; Elevation: < 150 m.	2	Jan-Dec	CA	Y/Y
FAB	<u>Astragalus tener</u> var. tener	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, vernally moist meadows; Elevation: < 60 m. WET: FACW	0	Mar-Jun	CA	Y/Y
ATH	Athyrium filix-femina_x ər. cyclosorum	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	р	Rhizomatous. Woodland, along streams, seepage areas; Elevation: < 3200 m. WET: FAC	17	n/a	no	Y/Y
BRA	Athysanus pusillus	common sandweed	Recorded historically (1881) from Lake Merced, Mission Hills, se SF, and Sunset Hts. (Howell, et al., 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	Atriplex argentea var. expansa	Mojave silverscale	[A. expansa var. mohavensis; Amaranthaceae, pending] Recorded historically (1955) from near Islais Cr. where it was presumably introduced (Howell, et al.); 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	Atriplex dioica	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	Atriplex lentiformis	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	р	Alkaline or saline washes, dry lakes, scrub; Elevation: < 1200 m. WET: FAC	4	Apr-Oct	no	N/Y
			[Obione l.; Amaranthaceae, pending] Recorded historically (1891) from Ft. Funston, Land's End (Pt. Lobos),			Prostrate to decumbent. Sandy soils, dunes;			no	Y/Y
CHN	Atriplex leucophylla	beach saltwort	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 1.</i>)	h-ss	р	Elevation: < 60 m. WET: FAC	7	Apr-Oct	110	-/ -
	Atriplex leucophylla Atriplex prostrata	beach saltwort arrowleaf spearscale	Ocean Beach, and the Presidio (Baker Beach, Baker Beach n., Crissy Field, Ft. Point) SF is the type locality		p a	Elevation: < 60 m. WET: FAC Naturalized. Wet places, marshes; Elevation: < 1300 m. WET: FACW Naturalized. Open, disturbed places, fields;		Apr-Oct	no	N/N

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^a Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ / CA
CHN	Atriplex semibaccata	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	р	Naturalized. Disturbed areas, scrub, woodland; Elevation: < 1000 m. WET: FAC	2	Apr-Dec	no	N/N
CHN	<u>Atriplex serenana</u> var.	bractscale	[Amaranthaceae, pending] Recorded historically (1919) from Golden Gate Park and near Islais Cr. (Howell, et al., CCH); presumably A.s. var. s. 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	Atriplex 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	<u>Atropa bella-donna</u>	belladonna	Recorded historically (1957) from Golden Gate Park (Howell, et al.); there are no SF records in CCH. There are no contemporary reports from SF.	h-s	р	Agricultural, garden, or urban weed. Disturbed places.	0	Aug-Sep	no	N/N
POA	<u>Avena barbata</u>	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	<u>Avena fatua</u>	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	Avena sativa	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, 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	Azalla filiculaides.(x)	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	р	Free-floating aquatic. Ponds, slow streams; Elevation: < 1300 m. WET: OBL	4	n/a	no	Y/Y
AZL	Azolla microphylla	Mexican mosquito-fern	[A. mexicana] Known from a single 1923 collection from Lake Merced (CCH); not included in Howell, et al. Extirpated; last collected in. 1923. RARITY STATUS: -/-/4.2	f	р	Free-floating aquatic. Ponds, slow streams; Elevation: < 1200 m. WET: OBL	0	n/a	no	Y/Y
AST	Baccharis glutinosa	marsh baccharis	[B. douglasii] Recorded historically (1868) from Golden Gate Park, Laguna Honda Valley, Lake Merced, the Presidio, San Miguel Hills, Sigmund Stern Grove, and Visitación Valley (Howell, et al., CCH). Reported from Bayview Hill, Ft. Funston, the Presidio (Crissy Field, Inspiration Pt., Presidio Bluffs, Tennessee Hollow), and SFSU.	h	р	Rhizomatous. Coastal freshwater and saltwater marshes, stream-banks; Elevation: < 1200 m. WET: FACW	7	Jul-Oct	no	Y/Y
AST	Baccharis pilularis ssp. consanguinea	prostrate coyote-brush	[<i>B.p.</i> var. <i>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	<u>Baccharis pilularis</u> ssp. pilularis	coyote brush	Recorded historically (1837) from throughout SF (Howell, et al., 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	Baccharis salicifolia ssp. (r)	mule fat	Known (1853, as full species) from a single collection from "SF" (CCH); not included in Howell, et al. Presumably B.s. ssp. s; 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	Bambusa sp.	ornamental bamboo	Reported (to genus) from Glen Cyn.; needs id.	g	р	Ornamental, garden escape; not naturalized.	1	n/a	no	N/N
BRA	Barbarea orthoceras	northern winter-cress	[<u>B. americana</u>] 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	<u>Barbarea verna</u>	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	р	Naturalized. Damp soils, fields, rocky outcrops, disturbed areas; Elevation: < 1600 m.	2	Mar-Jul	no	N/N
CHN	Bassia hyssopifolia.	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	а	Naturalized. Disturbed sites, fields, road-sides; Elevation: < 1200 m. WET: FACU	0	May-Nov	no	N/N
FAB	Bauhinia monandra	Napoleon's plume	Not included in Howell, et al. and there are no SF records in CCH. Reported from Ft. Funston.	t	ep	Ornamental; not naturalized.	1	win-sp	no	N/N
FAB	Bauhinia variegata	purple orchid tree	Not included in Howell, et al. 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	Bellardia trixago	Mediterranean lineseed	Recorded historically (1946) from near City College, Lake Merced, and the Sunset Dist. (Howell, et al., 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	а	Naturalized. Disturbed grassland; Elevation: < 710 m.	8	Apr-Jun	no	N/N

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME [¢]	NOTES ^a Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ⁸	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF $^{\rm i}$ / CA
AST	<u>Bellis perennis</u>	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	р	Naturalized. Rhizomatous. Damp, grassy areas; Elevation: < 900 m.	50	Dec-Sep	no	N/N
BER	Berberis aquifolium var.	creeping Oregon grape	Not included in Howell, et al. 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	<u>Berberis darwinii</u>	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	<u>Berberis pinnata</u> ssp. pinnata	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	Berula erecta	cutleaf water parsnip	Recorded historically (1896) from Brotherhood Way and the Presidio (Ft. Point; Howell, et al., CCH). Extirpated; last collected in 1956.	h	р	Marshy areas, streams; Elevation: < 2000 m. WET: OBL	0	Jul-Aug	no	Y/Y
CHN	<u>Beta vulgaris</u> 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.</i> ssp. <i>maritima</i> which has naturalized in Cal.	h	р	Naturalized. Moist sandy places, disturbed areas; Elevation: < 300 m.	3	Jun-Jul	no	N/N
AST	<u>Bidens cernua</u>	nodding beggartick	Recorded historically (1892) from Lake Merced (Howell, et al., CCH). Extirpated; last collected in 1913.	h	р	Freshwater wetlands; Elevation: < 2000 m. WET: OBL	0	Aug-Sep	no	Y/Y
AST	<u>Bidens laevis</u>	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	р	Freshwater wetlands; Elevation: < 2000 m. WET: OBL	0	Aug-Sep	no	Y/Y
PIT	Billardiera heterophylla	bluebell creeper	Recorded historically (c. 1900) from Clarendon Hts. and Golden Gate Park (CCH); not included in Howell, et al. Reported from SFSU.	v	р	Naturalized. Disturbed areas; Elevation: < 200 m.	1	Apr-Nov	no	N/N
AST	<u>Blennosperma nanum</u> var. nanum	common stickyseed	Recorded historically (1868) from Bayview Hills and se. SF (Howell, et al., CCH). Reported from Bayview Hill.	h	а	Open, grassy areas, often margins of seeps or vernal pools; Elevation: < 1500 m. WET: FACW	1	Jan-May	CA	Y/Y
СҮР	Bolboschoenus maritimus ssp. paludosus	maritime or prairie bulrush	[<i>Scirpus m.</i> ; <u>S. paludosus</u> ; <i>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	р	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
СҮР	Bolboschoenus robustus	sturdy bulrush	[Scirpus r.; Schoenoplectus r.] Known from a single 1860 collection from "near SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1860.	g	р	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	Borago officinalis	common borage	Recorded historically (1894) from the Embarcadero, Golden Gate Park, and the Presidio (Howell, et al.); 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	а	Naturalized. Open, disturbed sites; Elevation: < 550 m.	15	Jun-Aug	no	N/N
API	<u>Bowlesia incana</u>	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	а	Shade of trees, rocks, shrubs; Elevation: < 1400 m. WET: FAC	0	Mar-Apr	no	Y/Y
SAX	Boykinia occidentalis	coastal brookfoam	Known from a single 1893 collection from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1893.	h	р	Rhizomatous. Shady wet banks; Elevation: < 1500 m. WET: FAC	0	Jun-Aug	no	Y/Y
POA	Brachypodium distachyon	purple false-brome	Not included in Howell, et al. 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	Brassica fruticulosa	Mediterranean cabbage	Recorded historically (1952) from the Sunset Dist. dunes (Howell, et al., 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	Brassica juncea	brown mustard	Recorded historically (1956) from the Embarcadero, Golden Gate Park, and Mission Bay (Howell, et al., CCH). There are no contemporary reports from SF.	h	а	Naturalized. Disturbed areas, fields; Elevation: < 300 m. WET: FACU	0	Feb-Mar	no	N/N
BRA	Brassica nigra	annual black mustard	Recorded historically (1852) from the Embarcadero, Golden Gate Park, near Islais Cr. (Howell, et al., CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: $M/-/-/-$	h	а	Naturalized. Disturbed areas, fields; Elevation: < 1500 m.	36	Apr-Sep	no	N/N
BRA	Brassica oleracea	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, et al., CCH). There are no contemporary reports from SF.	h	b-p	Naturalized. Sea cliffs; Elevation: < 400 m.	0	May-Aug	no	N/N

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BRA	Brassica rapa	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	<u>Briza maxima</u>	big quaking-grass	Recorded historically (1953) from Glen Cyn., Golden Gate Park (Howell, et al., 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	Briza minor	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	<u>Brodiaea elegans</u> ssp. elegans	elegant harvest brodiaea	Previously included in the Liliaceae. Recorded historically (1912) as rare from Bayview Hills and the Presidio (Howell, et al., 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 B.e. ssp. elegans.	gp	р	Corm-forming, Grassland, meadows, open woodland, chaparral, occasionally serpentine; Elevation: < 2430 m. WET: FACU	10	Apr-Aug	no	Y/Y
THE	Brodiaea sierrae	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 Sutro Forest. RARITY STATUS: $-/-/4.3$	gp	р	Corm-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	Brodiaea sp.	brodiaea	Previously included in the Liliaceae. Reported (to genus) from Brooks Park, Interior Greenbelt; needs id.	gp	р	Corm-forming.	2	n/a	no	n/a
THE	<u>Brodiaea terrestris</u> ssp. terrestris	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, et al.) 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 B.t. ssp. t.	gp	р	Corm-forming, Coastal prairie, foothill woodland; Elevation: < 450 m.	17	Apr-Jul	no	Y/Y
POA	Bromus arizonicus	Arizona brome	Known from a single 1882 collection from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1882.	g	а	Open, disturbed places, fields; Elevation: < 2200 m.	0	Mar-Jun	no	Y/Y
POA	Bromus berteroanus	Chilean chess	[<u>B. trinii</u>] Recorded historically (1956) from Potrero Hills and "SF" (Howell, et al., CCH). There are no contemporary reports from SF; to be expected.	g	а	Naturalized. Open, sandy or gravelly soils; Elevation: < 1700 m.	0	Mar-Jun	no	N/N
РОА	Bromus carinatus var. carinatus	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., Sutro 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., Ligget St. Housing, Lyon St. Plantation, Oak Study Area, sw. dunes, Tennessee Hollow, WWII Memorial), and the Sunset Dist.	g	р	No data available.	11	Feb-Mar	no	Y/Y
POA	Bromus carinatus var. marginatus	mountain brome	[<i>B. breviaristatus; B. carinatus</i> var. <i>m.; B. luzonensis; <u>B. marginatus;</u> 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	р	Open slopes, meadows, forests; Elevation: < 3500 m.	0	Feb-Mar	no	Y/Y
РОА	<u>Bromus catharticus</u> 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, Sutro Forest, and Twin Peaks.	g	a-p	Naturalized.	15	n/a	no	N/N
POA	Bromus catharticus var. catharticus	rescue grass	Recorded historically (1928, as full species) from Golden Gate Park, Lake Merced, the Mission Dist., the Sunset Dist. (Howell, et al., CCH). Reported from the Presidio (Tennessee Hollow).	g	a-p	Naturalized. Open, disturbed places; Elevation: < 1500 m.	1	Feb-Mar	no	N/N
POA	Bromus catharticus var. elatus	rescue grass	[B. stamineus] 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, et al.) 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, Sutro Forest, and Twin Peaks.	g	a-p	Naturalized. Disturbed areas; Elevation: < 200 m.	1	Apr-Aug	no	N/N
POA	Bromus commutatus	meadow brome	Recorded historically (1956) from Golden Gate Park and near Islais Cr. (Howell, et al., CCH). There are no contemporary reports from SF; to be expected.	g	а	Disturbed areas; Elevation: < 2200 m.	0	May-Jul	no	N/N

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁴	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ^j SF/Bay Area/CA	NATIVE - SF ⁱ / CA
POA	Bromus diandrus	ripgut brome	[<u>B. rigidus</u>] 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	Bromus hordeaceus	soft chess brome	[<u>B. mollis</u> ; <u>B. mollis</u> ; <u>sep. thomine</u>] 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	а	Naturalized. Fields, disturbed areas; Elevation: < 1000(2560) m. WET: FACU	49	Apr-Jul	no	N/N
POA	Bromus laevipes	smooth-stem brome	Known from a single 1866 collection from "SF" (CCH); not included in Howell, et al. Reported from Glen Cyn. and the Presidio (Rob Hill).	g	р	Shrubland, conifer forest, shaded stream-banks, road-sides; Elevation: < 2500 m. SERP: 1.7	2	May-Jul	no	Y/Y
POA	Bromus madritensis	compact brome	[B.m. ssp. m] Recorded historically (1935) from Golden Gate Park and Lake Merced (Howell, et al., CCH). Reported from Pier 94 and the Presidio (Crissy Field, Ft. Point, Presidio Bluffs, WWII Memorial); expected elsewhere.	g	а	Naturalized. Disturbed areas, road-sides; Elevation: < 2200 m. WET: UPL	5	Feb-Jun	no	N/N
POA	Bromus maritimus	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	р	Dunes, coastal meadows; Elevation: < 200 m.	25	Apr-Jul	no	Y/Y
POA	Bromus racemosus	smooth brome	Recorded historically (1896) from Golden Gate Park and the Presidio (CCH); not included in Howell, et al. There are no contemporary reports from SF.	g	а	Naturalized. Disturbed areas, road-sides; Elevation: 60-1850 m.	0	May-Jul	no	N/N
POA	Bromus rubens	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	Bromus sitchensis var. carinatus	Cal. brome	[<u>B. carinatus</u>] 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	р	Coastal prairies, openings in chaparral, plains, open oak and pine woodland; Elevation: < 3500 m.	55	Apr-Aug	no	Y/Y
POA	Bromus sitchensis var. polyanthus	Great Basin brome	[B. polyanthus] Known from a single 1950 collection in Lower Hayes Valley (CCH); not included in Howell, et al. Not indigenous to SF.	g	р	Open slopes, meadows; Elevation: 1200-3100 m.	0	Aug-Dec	no	N/Y
POA	Bromus sterilis	poverty brome-grass	Not included in Howell, et al. 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	Bromus tectorum	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>Bryonia dioica</u>	wild hop	[B. cretica ssp. dioica, pending] Recorded historically (1957) from Golden Gate Park (Howell, et al., CCH). There are no contemporary reports from SF.	h-v	р	Garden escape; not naturalized.	0	sum	no	N/N
SCR	Buddleja davidii	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	Bulbine frutescens	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	р	Garden escape, waif; not naturalized. Low, erect succulent shrub.	1	sp	no	N/N
BRA	Cakile edeutula.	American sea-rocket	[incl. C.e. ssp. californica] Recorded historically (1893) from Cliff House, Ft. Mason, Golden Gate Park, Ocean Beach, and Sunset Dist. dunes (Howell, et al., CCH). Reported from China Beach, Ft. Funston, Heron's Head Park, Lake Merced, Ocean Beach, Pier 94, and the Presidio (sw. dunes).	h	a	Naturalized. Fleshy, ascending to erect. Beach dunes; Elevation: < 50 m. WET: FACU	7	May-Nov	no	N/N
BRA	<u>Cakile maritima</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, et al., 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		Naturalized. Prostrate or mound-forming to erect. Beach dunes; Elevation: < 100 m. WET: FAC	19	May-Nov	no	N/N
POA	Calamagrostis nutkaensis	Pacific reed grass	Recorded historically (1866) from "SF" and Twin Peaks (Howell, et al., 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	р	Wet areas, beaches, dunes, coastal woodland, inland marshes; Elevation: < 1070 m. WET: FACW	10	May-Aug	no	Y/Y

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁽	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ¹	EN DEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ /CA
MON	Calandrinia menziesii	red-maids	[C. ciliata var. menziesii, misappl; not occurring in Cal. (JFP, 2021)] 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, et al, 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	а	Sandy to loamy soil, grassy areas, cultivated fields; Elevation: < 2200 m. WET: FACU	19	Feb-May	no	Y/Y
AST	Calendula arvensis	field marigold	Not included in Howell, et al. 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	<u>Calendula officinalis</u>	pot marigold	Recorded historically (1954) from the Richmond Dist. (Howell, et al., 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	а	Naturalized. Escape from cultivation in disturbed areas, occasionally from seed mixes; Elevation: < 500 m.	9	Mar-May	no	N/N
GER	California macrophylla	round-leaved filaree	[Erodium macrophyllum; E.m. var. californicum] Known from a single 1868 collection from "SF" (CCH); not included in Howell, et al. 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	<u>Callitriche marginata</u>	Cal. water starwort	Previously included in the Callitrichaceae. Known from a single collection (c. 1880) at the Presidio (Howell, et al.); there are no SF records in CCH. Extirpated; last collected in 1880.	h	а	Aquatic, becoming stranded (often in vernal pools); Elevation: < +- 1500 m. WET: OBL	0	Feb-Mar	CA	Y/Y
CUP	Calocedrus decurrens	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 Sutro 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	<u>Calochortus luteus</u>	gold nuggets Mariposa lily	Recorded historically (1868) from Hunters Pt. Ridge and Potrero Hills (Howell, et al., CCH). Reported from Hunters Pt. and McLaren Park, and Starr King.	gp	р	Bulb-forming. Heavy soils in grassland, woodland, mixed-evergreen forest; Elevation: < 700 m.	3	Apr-Jun	CA	Y/Y
RAN	Caltha palustris	marsh-marigold	Not included in Howell, et al. and there are no SF records in CCH. Reported from Golden Gate Park.	h	р	Naturalized. Roadside bogs, edges of marshes, swamps, lakes, streams; Elevation: 900-3300 m. WET: OBL	1	Apr-Jul	no	N/N
CAL	Calycanthus occidentalis ssp.	western sweet-shrub	Not included in Howell, et al. and there are no SF records in CCH; not indigenous to SF. Reported from Glen Cvn. 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	Calystegia macrostegia ssp.	island morning glory	Not included in Howell, et al. and there are no SF records in CCH. Reported (as full species) from Fairmont Park, the Presidio (Ft. Scott), Sutro Forest, and Twin Peaks. Presumably C.m. ssp. cyclostegia. SF is at the northern limits of its range.	h-ss	р	From woody caudex. Coastal scrub; Elevation: < 350 m.	4	Feb-Jul	no	N/Y
CNV	Calystegia occidentalis	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, Sutro Forest, and Twin Peaks; needs id. Presumably <i>C.o.</i> ssp. <i>o</i> . Voucher specimen needed.	h	р	From woody caudex. Dry slopes, chaparral, pine woodland; Elevation: < 1200 m.	7	May-Jul	no	Y/Y
CNV	Calystegia purpurata ssp. purpurata	purple Cal. morning-glory	[Convovlulus occidentalis var. purpuratus] Recorded historically (1892) from Laguna Honda Valley, Lake Merced, Land's End, Mt. Davidson, Mt. Sutro, 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	р	From woody caudex, strongly climbing. Chaparral, coastal scrub; Elevation: < 300 m.	26	May-Jun	CA	Y/Y
CNV	Calystegia soldanella	seashore morning-glory	[<u>Convolvulus s.</u>] Known from a single 1899 collection on the w. shores of the Presidio (Howell, et al., CCH). Reported from Ft. Funston, Ocean Beach, and the Presidio (Baker Beach, Baker Beach n., Crissy Field).	h	р	Rhizomatous. Sandy seashores, coastal strand; Elevation: < 50 m.	5	Apr-Aug	no	Y/Y
CNV	Calystegia subacaulis ssp. subacaulis	stemless morning-glory	[Convolviluis 5.] Recorded historically (1905) from Bayview Hills, Corona Hts., Hunters Pt., McLaren Park, Mt. Davidson, Potrero Hills, and the Presidio (Howell, et al., CCH). Reported from Bayview Hill, Bernal Hts. Park, Billy Goat Hill, Corona Hts., Crocker-Amazon 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		Rhizomatous. Dry, open scrub or woodland; Elevation: < 500 m.	17	Apr-Jun	CA	Y/Y
ONA	<u>Camissonia contort</u> a (r)	contorted sun-cup	[Oenothera c.] 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, et al., CCH). Extirpated; last collected in 1990. Reportedly reintroduced at the Presidio (Presidio Hills, WWII Memorial); status uncertain.	h		Sandy soil, slopes, flats, often disturbed, grassland, chaparral, pinyon/juniper woodland; Elevation: < 2300 m.	2	May-Jun	no	Y/Y
ONA	Camissonia strigulosa	strigose sun-cup	[Oenothera contorta var. s.; Oenothera. s.] 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, et al. 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

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ONA	Camissoniopsis cheiranthifolia ssp. cheiranthifolia	beach sun-cup	[Camissonia c. ssp. c., Oenothera 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, et al., CCH). Reported from Balboa Natural Area, Pt. 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, Ligget St. Housing, Lobos Cr. Valley, Presidio Bluffs, Presidio Hills, Rob Hill, sw. dunes, Tennessee Hollow, WWII Memorial), Rocky Outcrop, and Sutro Baths.	h	р	Sandy slopes, flats, coastal dunes; Elevation: < 100 m.	25	Apr-Aug	no	Y/Y
ONA	Camissoniopsis cheiranthifolia ssp. suffruticosa	beach sun-cup	[Camissonia c. ssp. s.] Not included in Howell, et al. 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	р	Sandy slopes, flats, coastal dunes; Elevation: < 100 m.	4	Apr-Aug	no	N/Y
ONA	Camissoniopsis hirtella	hairy sun cup	[Camissonia h.] Known from a single 1935 collection from Lake Merced (CCH); not included in Howell, et al. Extirpated; last collected in 1935.	h	а	Open shrubby slopes, especially in burns; Elevation: < 2300 m.	0	Apr-Jun	no	Y/Y
ONA	Camissoniopsis micrantha	miniature sun-cup	[Camissonia m.; <u>Qenothera m</u> .] 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	<u>Capsella bursa-pastoris</u>	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, et al., 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	Cardamine californica	milk-maids	[Incl. C. vars., Dentaria c. vars., and <u>Dentaria integrifolia var. c.</u>] 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, et al., 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 Orangetip and Margined White butterflies.	h	р	Rhizomatous. Generally shaded sites, canyons, woodland; Elevation: < 1400 m.	19	Jan-May	no	Y/Y
BRA	Cardamine flexuosa	woodland bittercress	[Pending: probable addition to TJM; C.h. ssp. f.] Not included in Howell, et al. and there are no historic SF records in CCH. Reported from Interior Greenbelt and SFSU. Possibly confused with C. hirsuta.	h	a-b-	Probably naturalized. WET: FACU	2	Apr-Jul	no	N/N
BRA	Cardamine hirsuta	hairy bittercress	Not included in Howell, et al. 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 C. oligosperma.	h	a	Naturalized. Disturbed areas, road-sides, fields; Elevation: < 800 m. WET: FACU	12	Feb-Jul	no	N/N
BRA	Cardamine oligosperma	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	Cardionema ramosissimum	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	р	Prostrate. Sandy beaches, hills, dunes, bluffs; Elevation: < 400 m.	28	sp-esum	no	Y/Y
AST	<u>Carduus pycnocephalus</u> ssp. pycnocephalus	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, et al., 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	Carduus tenuiflorus	slender-flowered thistle	Recorded historically (1932) from Golden Gate Park, Islais Cr., Lake Merced, Mission Bay, San Miguel Hills, and Twin Peaks (Howell, et al., 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
СҮР	Carex aquatilis var. (r)	water sedge	[<u>C. sitchensis</u>] Recorded historically (c. 1890, as full species) from Lake Merced and the Presidio (Lobos Cr. Valley; CCH); not included in Howell, et al. Extirpated; last collected in 1892. Reintroduced at the Presidio (Lobos Cr. Valley). Needs id; within bioregional range of C.a. var. dives.	g	р	Rhizomatous; not cespitose. Wet meadows, shores, fresh water; Elevation: < 1100 m. WET: OBL	1	Jun-Sept	no	Y/Y
СҮР	<u>Carex barbarae</u>	Santa Barbara sedge	Recorded historically (1882) from Bayview Hills, Brotherhood Way, Lake Merced, Mt. Davidson, Oceanview, San Miguel Hills (Howell, et al., CCH). Reported from Brotherhood Way, Glen Cyn. and Yerba Buena Is. (USCG property); reintroduced at Sutro Forest.	g	р	Rhizomatous; not cespitose. Seasonally wet places; Elevation: < 1000 m. WET: FAC	4	May-Aug	no	Y/Y
СҮР	Carex bolanderi	Bolander's sedge	Not included in Howell, et al. 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	р	Densely to loosely cespitose. Moist meadows, springs, shores, forest; Elevation: < 2500 m. WET: FAC	1	May-Aug	no	Y/Y

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СҮР	Carex brevicaulis	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 Sutro Forest.		р	Short-rhizomed, forming dense turf. Coastal dunes, headlands, rocky or sandy soil; Elevation: < 400 m.	15	Apr-May	no	Y/Y
СҮР	<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
СҮР	<u>Carex cusickii</u>	Cusick's sedge	Known from a single undated (c. 1870) collection from "SF" (Howell, et al., CCH). Extirpated; last collected in 1870.	g	р	Cespitose. Shores, peatland, fens; Elevation: < 2100 m. WET: OBL	0	Jun-Sep	no	Y/Y
СҮР	Carex densa	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	р	Cespitose. At least seasonally wet meadows, springs, shores; Elevation: < 1500 m. WET: OBL	4	Apr-Jul	no	Y/Y
СҮР	Carex divulsa ssp. divulsa	gray sedge	Not in Howell, et al. and there are no SF records in CCH. Reportedly planted in Golden Gate Park at Cal. Academy of Sciences.	g	р	Naturalized. Cespitose. Watercourses, road- sides; Elevation: < 200 m. WET: FAC	1	sum	no	N/N
СҮР	<u>Carex glohosa</u>	round fruit sedge	Recorded historically (1937) from the Presidio and Sutro Forest (Howell, et al., CCH). Extirpated; last collected in 1937.	g	р	Loosely cespitose. Well-drained soil of wooded areas, edges; Elevation: < 1800 m.	0	Apr-Jun	CA	Y/Y
СҮР	Carex gracilior	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	р	Densely cespitose. Grassland, creek banks, open forest, at least seasonally moist soil; Elevation: < 850 m.	0	Apr-Jun	CA	Y/Y
СҮР	Carex harfordii	Harford's sedge	[<u>C monterryensis</u>] Recorded historically (1862) from Bayview Hills, Golden Gate Park, Laguna Honda Valley, Lone Mt., Mt. Sutro, and the Presidio (Ft. Point, Mountain Lake; Howell, et al., CCH). Reported from the Presidio (Mountain Lake, Presidio Hills), Sutro Forest, and Yerba Buena Is.	g	р	Densely cespitose. Wet or seasonally wet shores, meadows, open forest; Elevation: < 900 m. WET: OBL	4	Feb-Sep	CA	Y/Y
CYP	Carex lenticularis var. lipocarpa	fat-fruited sedge	Known from a single 1863 collection from "SF" (CCH); not included in Howell, et al. Native Cal. taxon but not considered indigenous here; SF occ. represents an extreme range extension.	g	р	Cespitose. Wet places; Elevation: < 3600 m. WET: OBL	0	May-Jun	CA	N/Y
СҮР	Carex microptera	small-wing sedge	Known from a single 1882 collection from "SF" (CCH); not included in Howell, et al. Native Cal. taxon but not considered indigenous here; SF occ. represents an extreme range extension.	g	р	Densely cespitose. Meadows, open forest; Elevation: 1500-3400 m. WET: FAC	0	May-Jun	CA	N/Y
СҮР	<u>Carex mudata</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	р	Cespitose. Rocky or sandy stream-beds below high-water mark; Elevation: < 1600 m. WET: FACW	0	Apr-Jul	no	Y/Y
СҮР	Carex obnupta	coast slough sedge	Recorded historically (1891) from Golden Gate Park (Chain-of-Lakes), Lake Merced, and the Presidio (Lobos Cr. Valley; Howell, et al., 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	р	Rhizomatous. Moist openings, shores, redwood forest; Elevation: < 1100 m. WET: OBL	12	Jun-Sep	no	Y/Y
СҮР	Carex pachystachya	Chamisso sedge	Recorded historically (1882) from the Presidio (Mountain Lake; CCH); not included in Howell, et al. Extirpated; last collected in 1937.	g	р	Densely cespitose. Dry to wet meadows, shores, open forest; Elevation: 75-3500 m. WET: FAC	0	May-Jun	no	Y/Y
CYP	<u>Carex pansa</u>	sand dune sedge	Known from a single 1938 collection from Bayview Hills (Howell, et al., CCH). Extirpated; last collected in 1938.	g	р	Rhizomatous. Coastal sand; Elevation: < 10 m. WET: FACU	0	Apr-Jul	no	Y/Y
CYP	Carex pendula	hanging sedge	Not included in Howell, et al. and there are no SF records in CCH. Reported from Golden Gate Park and SF Zoo. INVASIVE STATUS: $W/-/-/-$	g	р	Naturalized. Cespitose. Moist forest, waterways; Elevation: < 500 m. WET: FAC	1	Apr-Jun	no	N/N
СҮР	<u>Carex praegracilis</u>	clustered field sedge	Recorded historically (1882) from SF (Howell, et al., CCH). Reported from Glen Cyn.	g	р	Rhizomatous. Often alkaline, more-or-less moist places; Elevation: < 2700 m. WET: FACW	1	Apr-Aug	no	Y/Y
CYP	Carex simulata	short-beaked sedge	Known from a single 1882 collection from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1882.	g	р	Rhizomatous. Moist soil; Elevation: < 3300 m. WET: OBL	0	May-Jun	no	Y/Y
CYP	Carex sp.	sedge	Reported (to genus) from Laguna Honda Valley, McLaren Park, O'Shaughnessy Hollow, and Twin Peaks; needs id.	g	р	n/a	4	n/a	no	n/a
СҮР	Carex subbracteata	small-bracted sedge	Recorded historically (1862) from Bayview Hills, Golden Gate Park, Lake Merced, Lone Mt., Mt. Davidson, Mt. Sutro, the Presidio (Ft. Point, San Miguel Hills, the Sunset Dist., and Twin Peaks (Howell, et al., 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 Sutro Forest.	g	р	Densely cespitose. At least seasonally moist soil, grassland to open forest; Elevation: < 900 m. WET: FACW	16	Apr-Jun	CA	Y/Y
СҮР	Carex subfusca	brown sedge	Recorded historically (c. 1955) from Golden Gate Park where is 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		Densely cespitose. Seasonally wet meadows, creeks, seeps; Elevation: (75)700-3800 m. WET: FAC	0	May-Sep	no	N/Y
СҮР	Carex tumulicola	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	р	Loosely cespitose. Meadows, open woodland; Elevation: < 1800 m. WET: FACU	5	Apr-Jul	no	Y/Y

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СҮР	Carex utriculata	beaked sedge	[<u>C. rostrata</u>] 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	р	Rhizomatous. Wet places, shallow water; Elevation: < 3400 m. WET: OBL	0	Jun-Sep	no	Y/Y
СҮР	Carex zikae	short-stemmed sedge	Not included in. Howell, et al. and there are no records in CCH. Reported from Rocky Outcrop.	g	р	Cespitose or rhizomatous. Stabilized coastal dunes, dry meadows. Elevation: <400 m.	1	Mar-Jun	no	N/N
AIZ	Carpobrotus chilensis	sea-fig iceplant	[Mesembryanthemum chilense] Recorded historically (1897) from Cliff House, Ft. Funston, Land's End, and the Presidio (Baker Beach; Howell, et al., CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: $M/-/-/$	h	р	Naturalized. Trailing, forming mats; leaves fleshy. Common on coastal sandy shores; Elevation: < 100 m. WET: FACU	38	Jan-Dec	no	N/N
AIZ	Carpobrotus edulis	sea fig, iceplant	[<u>Mesembryanthemum edule</u>] 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	р	Naturalized. Trailing, forming mats; leaves fleshy. Many coastal habitats, especially sand; Elevation: < 100 m.	62	Jan-Dec	no	N/N
AST	<u>Carthamus lanatus</u>	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	а	Naturalized. Disturbed ground, grassland, oak woodland; Elevation: < 1100 m.	1	May-Sep	no	N/N
ORO	Castilleja affinis ssp. affinis	Marin coast paintbrush	[<u>C. douglasii</u> ; Howell, et al. lists <u>C. latifolia var. rubra</u> and <u>var. wiphtii</u> : I can find no such names in the literature. However, C. wightii and C.w. var. rubra are synonyms of C. affinis ssp. affinis; 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, et al., CCH). Reported from Balboa Natural Area, Ft. Funston, Land's End, Laurel Hts, and the Presidio (Baker Beach, 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	р	Hemiparasite. Chaparral, coastal scrub; Elevation: < 1800 m. WET: FACW	15	Mar-Jun	no	Y/Y
ORO	Castilleja ambigua ssp. ambigua	Johnny-nip	[Orthocarpus castillejoides; C.a. var. a.] 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 C.a. var. $a.$) $-/-4.2$	h	р	Hemiparasite. Coastal bluffs, grassland; Elevation: < 500 m. WET: FACW	0	Jan-Nov	no	Y/Y
ORO	Castilleja attenuata	narrow-leaved owl's-clover	[Orthocarpus attenuatus] Previously included in the Scrophulariaceae. Recorded historically (c. 1880) from Potrero Hills (Howell, et al.); 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 Bav Area.	h	а	Hemiparasite. Grassland; Elevation: generally < 1600 m.	0	Mar-May	no	Y/Y
oro	Castilleja brevilobata	short-lobed paintbrush	[C. <i>hispida</i> ssp. b.] 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	р	Hemiparasite. Dry, open serpentine, forest edges; Elevation: 200-1850 m. SERP: 6	1	Apr-Jun	no	?/Y
ORO	Castilleja densiflora ssp. densiflora	dense-flowered owl's-clover	[Orthocarpus densifiorus] 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, et al., CCH). Reported (as full species) from Corona Hts., the Presidio (Ft. Point, Inspiration Pt.), and Twin Peaks; presumably C.d. ssp. densiflora.	h	а	Hemiparasite. Grassland; Elevation: < 1600 m.	4	Mar-May	CA	Y/Y
ORO	Castilleja exserta ssp. exserta	purple owl's-clover	[Orthocarpus purpurascens] Previously included in the Scrophulariaceae. Recorded historically (c. 1890) from Golden Gate Park, Lake Merced, Oceanview, and Visitación Valley (Howell, et al.) 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	а	Hemiparasite. Open fields, grassland; Elevation: < 1600 m.	4	Mar-May	no	Y/Y
ORO	Castilleja exserta ssp. latifolia	purple owl's-clover	[Orthocarpus purpurascens, var. latifolius] Previously included in the Scrophulariaceae. Recorded historically (1891) from near Lake Merced and Oceanview; Howell, et al., 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	<u>Castilleja foliolosa</u>	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	р	Hemiparasite. Dry, open, rocky slopes, edges of chaparral; Elevation: < 1800 m. SERP: 2.3	0	Feb-Jun	no	Y/Y
oro	Castilleja latifolia	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, et al., 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		Hemiparasite. Coastal dunes, scrub; Elevation: < 100 m.	6	Mar-Sep	CA	Υ/Υ
ORO	<u>Castilleja miniata</u> 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>Cm</i> . ssp. <i>miniata</i> .	h		Hemiparasite. Wet montane meadows, stream- banks; Elevation: (350)1500-3500 m. WET: FACW	0	Jun-Aug	no	Y/Y
ORO	Castilleja pilosa	scarlet paintbrush	Previously included in the Scrophulariaceae. Known from a single 1868 collection (CCH); not included in Howell, et al. Not considered indigenous to SF. There are no contemporary reports from SF.	h	р	Hemiparasite. Dry sagebrush scrub to alpine barrens; Elevation: 1200-3400 m.	0	Jun-Aug	no	N/Y

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ORO	Castilleja 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	Castilleja subinclusa ssp. franciscana	long-leaf paintbrush	[<u>C. franciscana</u>] 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	р	Hemiparasite. Coastal scrub; Elevation: < 100 m.	1	Mar-Jul	CA	Υ/Υ
ORO	Castilleja wightii	Wight's paintbrush	[C. latifolia var. wightii] Previously included in the Scrophulariaceae. Recorded historically (1891) from Golden Gate Hts., Lake Merced, Mt. Davidson, and Sutro Hts. (Howell, et al., 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	р	Hemiparasite. Coastal scrub; Elevation: < 300 m.	8	Mar-Aug	CA	Y/Y
BRA	Caulanthus lasiophyllus	Cal. mustard	[<i>Guillenia lasiophylla; <u>Thelypodium lasiophyllum</u>] Recorded historically (1877) from Bayview Hills, Brotherhood Way, Golden Gate Hts., Lake Merced, Lone Mt., Mt. Davidson, Mt. Sutro, 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).</i>	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	Ceanothus "species nova"	Cal. lilac	Not included in Howell, et al. Reported (to genus) from Buena Vista Park; needs id.	s	ep	n/a	1	n/a	no	?/?
RHM	Ceanothus dentatus	tooth-leaved ceanothus	Not included in Howell, et al. 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 Sutro 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	Ceanothus foliosus var. medius	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	Ceanothus griseus var. horizontalis	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	Ceanothus incanus	coast white-thorn	Recorded historically (1894) from Brotherhood Way, Lake Merced, and Oceanview (Howell, et al., 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	Ceanothus oliganthus var. sorediatus	Jim brush	Known from a single 1888 collection from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1888.	s	ep	Slopes, ridges, chaparral, conifer forest; Elevation: 60-1220 m.	0	Mar-Apr	CA	Y/Y
RHM	<u>Ceanothus thyrsiflorus</u> 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 C.t. var. t. Reintroduced at Sutro Forest. SF is the type locality (syntype of C. thyrsiflora).	s-t	ep	Bluffs, slopes, canyons, chaparral, coastal scrub, closed-cone-pine forest; Elevation: < 800 m.	49	Mar-May	no	Y/Y
RHM	Ceanothus velutinus var.	snowbrush ceanothus	Not included in Howell, et al. 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	Ceanothus ^x vanrenssaeri	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 C , xv .)	s	ep	No habit or ecology information available.	1	Mar-Jun	CA	Y/Y
LAM	<u>Cedronella canariensis</u>	Herb of Gilead	Recorded historically (1914) from Pine Lake, the Sunset Dist., and Twin Peaks (Howell, et al., CCH). There are no contemporary reports from SF.	h-s	р	Naturalized. No habit or ecology information available.	0	sum	no	N/N
CUP	Cedrus deodara	deodar cedar	Not included in Howell, et al. 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	Centaurea benedicta	blessed thistle	[<u>Cnicus benedictus</u>] Recorded historically (1935) from "SF" and Islais Cr. (Howell, et al., CCH). There are no contemporary reports from SF. INVASIVE STATUS: M/-/-/-	h	а	Naturalized. Road-sides, disturbed places; Elevation: < 1700 m.	1	Jul-Oct	no	N/N
AST	<u>Centaurea calcitrapa</u>	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	<u>Centaurea cyanus</u>	bachelor's buttons	Recorded historically (c. 1900) from SF (Howell, et al.); 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	<u>Centaurea diluta</u>	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	а	Naturalized. Disturbed places; Elevation: < 170 m.	0	Apr-Dec	no	N/N
AST	Centaurea melitensis	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

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁶	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT/ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ /CA
AST	<u>Centaurea solstitialis</u>	yellow star-thistle	Recorded historically (1933) from the Embarcadero, Islais Cr., Lake Merced, Mission Bay, Nob Hill, and the Richmond Dist. (Howell, et al., 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, Sutro 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>Centranthus ruber</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	<u>Centromadia pungens</u> .ssp. pungens	common spikeweed	Recorded historically (1891) from Golden Gate Park, near Islais Cr., Lake Merced, Nob Hill, Potrero Hill, se. SF, and Telegraph Hill (Howell, et al., CCH). Although indigenous here, these records were not believed to represent remnant native stands (Howell, et al.) Reported from a single location at the Presidio (Presidio Bluffs); needs verification.	h	а	Grassland, saltbush scrub, disturbed sites; Elevation: < 1200(1800) m. WET: FAC	1	Apr-Sep	CA	Y/Y
CRY	Cerastium arvense ssp.	western field mouse-eared chickweed	[Presumably <i>Ca</i> . ssp. strictum] 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 <u><i>Ca</i>.var</u> . <u>maximum</u> [=C. viride]) 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 Outrop, Tank Hill, and Twin Peaks; needs id. SF is the southernmost station for this taxon. SF is the type locality (syntype of <i>Ca</i> . var. maximum).	h		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	Cerastium fontanum ssp. vulgare	common mouse-eared chickweed	(<u>C. holosteoides</u>) Recorded historically (c. 1955) from Ft. Mason, Golden Gate Park, McLaren Park, and the Richmond Dist. (Howell, et al., CCH). Reported from the Presidio (Lobos Cr. Valley, Oak Study Area) and the Sunset Dist.	h	р	Naturalized. Disturbed areas, grassy slopes, damp woodland, marshy ground; Elevation: < 2200 m. WET: FACU	2	sp	no	N/N
CRY	<u>Cerastium glomeratum</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	а	Naturalized. Dry hillsides, grassland, chaparral, disturbed areas; Elevation: < 1600 m. WET: UPL	32	sp	no	N/N
FAB	Ceratonia siliqua	carob tree	Not included in Howell, et al. and there are no SF records in CCH. Reported from Mission Bay and Yerba Buena Is.	t	р	Naturalized.	2	sp-sum	no	N/N
СТР	Ceratophyllum demersum	hornwort	Recorded historically (1896) from Lake Merced, the Presidio (Mountain Lake), and Pine Lake (Howell, et al., CCH). Extirpated; last collected in 1956.	h	р	Submersed aquatic. Ditches, lakes, ponds, pools, slow watercourses, generally alkaline; Elevation: generally < 1700 m. WET: OBL	0	Jun-Aug	no	Y/Y
FAB	Cercis occidentalis	western redbud	Not included in Howell, et al. 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	Cercocarpus betuloides var. betuloides	mountain mahogany	Known from a single 1868 collection from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1868.	s-t	ep	Dry, rocky slopes, chaparral; Elevation: < 2500 m.	0	Mar-May	no	Y/Y
ROS	Cercocarpus traskiae	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	Chaenactis glabriuscula var. glabriuscula	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	а	Open sandy slopes, openings in chaparral, woodland; Elevation: 100-2300 m. SERP: 1.7	0	Jan-Aug	no	?/Y
CUP	Chamaecyparis lawsoniana	Port Orford cedar	[<i>Cupressus l.</i>] Not included in Howell, et al. 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	Chamaecyparis pisifera	Sawara cypress	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
IRI	Chasmanthe aethiopica	chasmanthe	[C. floribunda, misappl.] Recorded historically (c. 1955) from the Presidio (Lobos Cr. Valley; Howell, et al.); there are no SF records in CCH. Reported from Glen Cyn. and Yerba Buena Is.; expected elsewhere.	gp	р	Ornamental; not naturalized.	2	Feb-May	no	N/N
IRI	Chasmanthe floribunda	South African corn-flag	Not included in Howell, et al. and there are no SF records in CCH. Reported from throughout the city and the Presidio. INVASIVE STATUS: $W/-/-/-$	gp	р	Naturalized. From corms. Disturbed areas; Elevation: < 50 m.	22	Feb-May	no	N/N
IRI	Chasmathe bicolor	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	р	Ornamental; not naturalized.	9	Jan-Apr	no	N/N

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁶	NOTES ^a Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	EN DEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ /CA
CHN	Chenopodium album	white lamb's-quarters	[incl. <u>Ca.</u> , <u>var</u> . <u>Janceolatum</u> ; 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, <u>et al.</u> , 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 Ca. var. <u>lanceolatum</u>).	h	а	Naturalized. Disturbed areas, fields; Elevation: < 1800 m. WET: FACU	9	Jun-Oct	no	N/N
CHN	Chenopodium berlandieri, var. zchackei	Berlandier's or pitseed goosefoot	[Amaranthaceae, pending; Howell, et al. also includes reference to <u>C.b. var. pinnatum</u> ; 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, et al., 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	Chenopodium californicum	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	р	Generally open sites, sandy to clay soils; Elevation: < 2000 m.	13	Mar-Sep	no	Y/Y
CHN	Chenopodium macrospermum	largeseed goosefoot	[incl. <i>C.m.</i> var. <i>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	а	Naturalized. Wet places, marshes; Elevation: < 100 m. WET: FACW	0	Jul-Oct	no	N/N
CHN	Chenopodium murale	nettle-leaved goosefoot	[Chenopodiastrum m., 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 Sutro Hts; expected elsewhere.	h	a	Naturalized. Disturbed areas, fields; Elevation: < 2900 m. WET: FACU	10	Jan-Dec	no	N/N
CHN	Chenopodium rubrum var. humile	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	Chenopodium 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>Chenopodium strictum var. glaucophyllum</u>	white-leafed goosefoot	[C. betaceum, pending; Amaranthaceae, pending] Recorded historically (c. 1965) from near Islais Cr. (Howell, et al.); there are no SF records in CCH. There are no contemporary reports from SF.	h	а	Naturalized. Open, disturbed places; Elevation: < 1700 m.	0	Aug-Oct	no	N/N
AGA	Chlorogalum pomeridianum yər. divaricatum	wavy-leafed 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, et al., CCH). Widespread, although many reports are to full species; needs id.	gp	р	Bulb-forming. Coastal bluffs, hills; Elevation: generally < 100 m.	54	May-Jul	CA	Y/Y
AGA	Chlorogalum pomeridianum var. pomeridianum	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	р	Bulb-forming. Open grassland, chaparral, woodland; Elevation: < 1500 m.	11	May-Aug	no	?/Y
LIL	Chlorophytum capense	spider plant	Recorded historically (c. 1955) from the Richmond Dist. (Howell, et al.); there are no SF records in CCH. There are no contemporary reports from SF.	h	р	Garden escape; not naturalized.	0	sp-sum	no	N/N
ORO	Chloropyron maritimum ssp. palustre (r)	Point Reyes salty bird's- beak	[Cordulanthus maritimus] ssp. palustris] 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	Chloropyron molle ssp. molle	soft bird's-beak	[Cordylanthus mollis] ssp. mollis] Known from a single collection (1881, as full species) from SF (Howell, et al., 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	Chondrilla juncea	rush skeleton-weed	Not included in Howell, et al. and there are no SF records in CCH. Reported from Bayshore Caltrain Station and Twin Peaks. INVASIVE STATUS: M/3/NW,A/—	h	р	Naturalized. Pastures, disturbed areas; Elevation: < 600 m.	1	Jun-Jan	no	N/N
PLG	<u>Chorizanthe cuspidata</u> var. cuspidata	San Francisco spineflower	[<u>C.c.</u> var. marginata] 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 Sutro 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	а	Decumbent to prostrate. Sand; Elevation: < 300 m.	13	Apr-Jul	BA	Y/Y
PLG	Chorizanthe pungens var. hartwegiana	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	Chorizanthe robusta var. robusta	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	Υ/Υ
GEN	Cicendia quadrangularis	Oregon tim-wort	[Microcala q.] Known from a single 1900 collection from Mission Hills (Howell, et al., CCH). Reported from the Presidio (Ft. Scott, Inspiration Pt., Presidio Bluffs, Rob Hill).	h	а	Open places; Elevation: < 2700 m. WET: FAC	4	Mar-May	no	Y/Y
AST	<u>Cichorium endiva</u>	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	<u>Cichorium intybus</u>	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	р	Naturalized. Road-sides, disturbed places; Elevation: < 1500 m. WET: FACU	5	Jul-Aug	no	N/N
API	<u>Cicuta douglasii</u>	western water hemlock	Known from a single collection (c. 1888) from the Presidio (Howell, et al.); there are no SF records in CCH. Extirpated; last collected in 1888.	h	р	Wet places, generally aquatic; Elevation: < 2800 m. WET: OBL	0	Mar-Jun	no	Y/Y
LAU	Cinnamomum camphora	camphor tree	Not included in Howell, et al. 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	<u>Cirsium andrewsii</u>	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	Υ/Υ
AST	<u>Cirsium arvense</u>	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	р	Naturalized. From runner roots. Disturbed areas; Elevation: < 2450 m. WET: FAC	5	Jun-Sep	no	N/N
AST	<u>Cirsium brevistylum</u>	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, et al., CCH). Reported from Brotherhood Way, Ft. Funston, Glen Cyn., Islais Cr., the Presidio (Ft. Point, Inspiration Pt., Mountain Lake, Presidio Bluffs, Presidio Bluffs, Presidio Hills, Tennessee Hills, WWII Memorial), Sutro Forest, and Twin Peaks.	h	р	Moist places; Elevation: < 500 m.	13	Mar-Aug	no	Y/Y
AST	Cirsium hydrophylum var. vaseyi	Mt. Tamalpais thistle	Known from a single 1890 collection from the Presidio (Golf Course; CCH); not included in Howell, <i>et a</i> l. Endemic to SF Bay Area. Extirpated; last collected in 1890. RARITY STATUS: —/—/1B.2	h	р	Serpentine seeps; Elevation: 300-450 m. WET: OBL. SERP: 6	0	May-Aug	BA	Y/Y
AST	Cirsium occidentale var. compactum	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: -/-/IB.2	h	р	Mounding. Bluffs; Elevation: < 50 m.	0	Apr-Jun	CA	Y/Y
AST	<u>Cirsium occidentale</u> v ar. occidentale	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, et al., 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		Grassland, coastal dunes, oak woodland, scrubland, often disturbed areas; Elevation: generally < 200 m.	16	Mar-Jul	CA	Y/Y
AST	Cirsium occidentale var. venustum	Venus thistle	Recorded historically (1894) at Lake Merced (CCH); not included in Howell, et al., CCH). Extirpated; last collected in 1901.	h	р	Disturbed areas, grassland, woodland; Elevation: < 3600 m.	0	Mar-Jul	CA	Y/Y
AST	<u>Cirsium quercetorum</u>	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 Visitación 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	<u>Cirsium remotifolium</u> var.	few-leaved thistle	Known from a single collection (c. 1955, as full species) from Bayview Hills (Howell, et al.); there are no SF records in CCH. Possibly C.r. var. r. or C.r. var. odontolepis. 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	<u>Cirsium vulgare</u>	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	Cistus incanus	hairy rockrose	[C. creticus] Not included in Howell, et al. 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	Cistus ladanifer	gum rockrose	Not included in Howell, et al. 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	Cistus psilosepalus	rockrose	Not included in Howell, et al. 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	Clarkia amoena ssp. amoena (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

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁶	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT/ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ^j / CA
ONA	<u>Clarkia davyi</u>	Davy's clarkia	Recorded historically (1889) from Brotherhood Way, Lake Merced, and Oceanview (Howell, et al., CCH). Extirpated; last collected in 1956.	h	а	Prostrate to decumbent. Coastal grassland, bluffs; Elevation: < 100 m.	0	Mar-Jun	CA	Y/Y
ONA	<u>Clarkia franciscana</u>	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/1B.1	h	a	Serpentine soil; Elevation: +- 50 m. SERP: 6	2	May-Jul	BA	Υ/Υ
ONA	<u>Clarkia purpurea</u> 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	Clarkia purpurea ssp. purpurea	winecup clarkia	Known from a single 1868 collection from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1868.	h	а	Grassland; Elevation: < 100 m.	0	Apr-Jul	no	Y/Y
ONA	<u>Clarkia purpurea_ssp. quadrivulnera_</u> (r)	winecup clarkia	Recorded historically (1868) from "SF", Lake Merced, and Oceanview (Howell, et al., CCH). Extirpated; last collected in 1906. Reintroduced at the Presidio (Ft. Scott).	h	а	Open, grassy or shrubby places; Elevation: < 1500 m.	1	Apr-Jul	no	Y/Y
ONA	Clarkia purpurea ssp. viminea	winecup clarkia	Known from a single 1901 collection from Lake Merced (CCH); not included in Howell, et al. Extirpated; last collected in 1901.	h	а	Open, grassy or shrubby places; Elevation: < 1500 m.	0	Apr-Jul	no	Y/Y
ONA	<u>Clarkia rubicunda</u>	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	Clarkia sp.	clarkia	Reported (to genus) from Brotherhood Way; needs id.	h	а	n/a	1	n/a	no	n/a
ONA	Clarkia unguiculata	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	Claytonia exigua ssp. exigua	serpentine spring beauty	[Montia spathulata, var. tenuifulia] 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, et al., CCH). Reported from the Presidio (Inspiration Pt., Park Blvd. Plantation, Presidio Bluffs, Presidio Hills) and Yerba Buena Is.	h		Dry or moist, disturbed bare clay to sandy soils, often serpentine; Elevation: < 1000 m. SERP: 3.4	5	Apr-Jul	no	Y/Y
MON	Claytonia gypsophiloides	gypsum spring beauty	[Montia g.] Previously included in the Portulacaceae. Known from a single 1923 collection from Golden Gate Park (CCH); not included in Howell, et al. 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	Claytonia parviflora ssp. parviflora	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	Claytonia perfoliata ssp. mexicana	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	Claytonia perfoliata ssp. perfoliata	miner's lettuce	[<u>Montia p</u> .] 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	Claytonia sibirica	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	р	Generally shady moist woodland, stream-banks, marshes; Elevation: < 1300 m. WET: FAC	2	Feb-Aug	no	Y/Y
RAN	Clematis ligusticifolia	western virgin's bower	Not included in Howell, et al. 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	р	Woody vine. Along streams, wet places; Elevation: < 2400 m. WET: FAC	1	Jun-Aug	no	?/Y
RAN	<u>Clematis vitalba</u>	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	р	Potentially naturalized. WET: FAC	1	sum	no	N/N

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LAM	Clinopodium douglasii	yerba buena	[Satureja d.] Recorded historically (1837) from "SF", Golden Gate Hts., Laguna Honda, Lake Merced, the Presidio (Lobos Cr.), Sunset Dist. dunes, and Twin Peaks (Howell, et al., 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, Sutro Forest, and Twin Peaks.	h	р	Mat-forming. Shady places, chaparral, woodland; Elevation: < 900 m. WET: FACU	25	Apr-Sep	no	Y/Y
PTG	Collinsia bartsiifolia var. bartsiifolia	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	а	Open, sandy places; Elevation: generally < 600 m.	0	Mar-Jun	CA	Y/Y
PTG	<u>Collinsia bartsiifolia_var. hirsuta</u>	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	а	Foothill woodland, valley grassland, closed- cone pine forest, Joshua tree woodland.	0	Mar-Jun	BA	Y/Y
PTG	Collinsia corymbosa (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: —/—/1B.2	h	a	Coastal sand dunes; Elevation: < 20 m.	2	Apr-Jun	CA	Υ/Υ
PTG	<u>Collinsia heterophylla</u> var. hetrerophylla	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	а	Shady places in chaparral, open mixed woodland, oak woodland; Elevation: < 1300 m.	4	Feb-Apr	no	Y/Y
PTG	<u>Collinsia multicolor</u>	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: $-/-/1B.2$	h	a	Moist, more-or-less shady scrub, forest; Elevation: < 300 m. SERP: 1.1	1	Mar-May	BA	Υ/Υ
PTG	Collinsia sparsifolia var. collina	hillside collinsia	[<i>C. paroiflora</i> var. <i>c.</i> ; <u><i>C. solitaria</i></u>] 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	<u>Collinsia tinctoria</u>	sticky Chinese houses	Previously included in the Scrophulariaceae. Recorded historically (1900) from Laguna Honda Valley and Lake Merced (Howell, et al., CCH). Extirpated; last collected in 1903.	h	а	Rocky, dry mixed woodland, conifer forest; Elevation: 100-2500 m. WET: FACU	0	May-Jul	CA	Y/Y
PLM	Collomia grandiflora	large-flowered collomia	Recorded historically (1893) from Golden Gate Park and "SF" (Howell, et al., 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	Collomia heterophylla	variable-leaved collomia	Recorded historically (1955) from a flower bed at Lake Merced, where it was presumably introduced (Howell, et al.); 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	Conicosia pugioniformis	narrow-leaf iceplant	[Mesembryanthemum puginiforme; M. elongatum] 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 Sutro Hts. (Howell, et al., 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	р	Naturalized. Sandy places, especially coastal dunes; Elevation: < 100 m.	14	May-Oct	no	N/N
API	Conioselinum pacificum	hemlock parsley	[<i>C. gmelinii</i> , pending; <u>C. chinense</u>] Recorded historically (c. 1894) from Mission Hills and Twin Peaks (Howell, <i>et al.</i> , CCH). Extirpated; last collected in 1963.	h	р	Tap-rooted or short-rhizomed. Ocean bluffs, generally in coastal scrub; Elevation: < 400 m. WET: FAC	0	Jun-Aug	no	Y/Y
API	<u>Conium maculatum</u>	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	Convolvulus arvensis	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, et al., CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: —/3/NW,C/—	h	р	Naturalized. Road-sides, open areas in many plant communities; Elevation: < 2610 m.	21	Mar-Oct	no	N/N
AST	<u>Conyza bilboana</u>	horseweed	Misidentified; not occurring in Cal. (JFP, 2021). See Erigeron sumatrensis.	h	a-b	Not occurring in Cal.	0	sp	no	N/N
RUB	<u>Coprosina repens</u>	New Zealand mirror plant	Recorded historically (c. 1955) from Golden Gate Park, Lake Merced, Lone Mt., the Presidio (Baker Beach), the Richmond Dist., and Sutro Hts. (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	s	р	Waif. Disturbed places, landscaped coastal bluff; Elevation: < 50 m.	41	Feb-Nov	no	N/N

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ORC	<u>Corallorhiza striata</u>	striped coralroot	Known from a single report (c. 1890) from w. SF (Howell, et al.); there are no SF records in CCH. Extirpated; last collected in 1890.	h	р	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	Cordyline australis	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 Sutro Forest. INVASIVE STATUS: $L/-/-/-$	t	р	Naturalized. Disturbed and/or formerly cultivated areas; Elevation: < 50 m.	3	Apr-Jun	no	N/N
AST	Coreopsis tinctoria	golden tickseed	Not included in Howell, et al. 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	Corethrogyne filaginifolia	common sand-aster	[<u>C. californica</u> ; C. leucophylla; Lessingia f., incl. vars. f., californica, and linifolia] 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	р	Coastal scrub, chaparral, grassland, foothill woodland, forest; Elevation: < 2600 m. SERP: 1.3	5	Jul-Nov	CA	Y/Y
API	Coriandrum sativum	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	<u>Cornus glabrata</u>	brown dogwood	Recorded historically (1844) from SF, although the collection was likely from elsewhere and not from the city limits (Howell, et al.); 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	р	Generally moist places; Elevation: < 1550 m. WET: FACW	0	May-Jun	no	N/Y
COR	<u>Cornus nuttallii</u>	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	р	Forest; Elevation: < 2000 m. WET: FACU	0	Apr-May	no	Y/Y
COR	Cornus sericea ssp. occidentalis (r)	western dogwood	[C. occidentalis] Recorded historically (1867) from Lake Merced, Mission Dolores (CCH); not included in Howell, et al. 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	Cornus sericea ssp. sericea	red osier dogwood	[C. californica; C.c. var. nevadensis] Recorded historically (1901) from Brotherhood Way, Golden Gate Park, and the Presidio (Lobos Cr. Valley; Howell, et al., 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 Sutro Baths; reintroduced at Alemany Farm, City College, Glen Cyn., Golden Gate Park (Lily Pond, Lake Merced, McLaren Park, Mission Bay, SFSU, and Sutro Forest.	s	dp	Generally moist habitats; Elevation: < 2800 m.	18	May-Jul	no	Y/Y
POA	Cortaderia jubata	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	р	Naturalized. Densely clumped. Disturbed sites, many habitats, especially coastal; Elevation: < 800 m. WET: FACU	34	Sep-Feb	no	N/N
POA	<u>Cortaderia selloana</u>	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	р	Naturalized. Densely clumped. Disturbed sites; Elevation: < 300 m. WET: FACU	23	Sep-Mar	no	N/N
BET	Corylus cornuta ssp. californica	western hazelnut	[<u>C. californica</u>] 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	<u>Cotoneaster franchetii</u>	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	Cotoneaster integrifolius	entire-leaved cotoneaster	Recorded historically (1954) from the Sea Cliff Dist. (CCH); not included in Howell, et al. 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	Cotoneaster lacteus	milkflower cotoneaster	[C. coriaceus, pending] Not included in Howell, et al. 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	Cotoneaster pannosus	silver-leaved cotoneaster	[<u>C. paumosa</u>] Recorded historically (1957) from Laguna Honda Valley and Mt. Sutro (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	Cotoneaster sp.	cotoneaster	Reported (to genus) from multiple sites; needs id. INVASIVE STATUS: -/2/-/-	s	ep	n/a	15	n/a	no	N/N
AST	<u>Cotula australis</u>	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, et al., 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., Sutro Forest, Twin Peaks, and Yerba Buena Is.	h	а	Naturalized. Disturbed areas; Elevation: < 1650 m. WET: FAC	13	Jan-May	no	N/N

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME [¢]	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ^j / CA
AST	Cotula coronopifolia	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 (Ft. 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	р	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	Crassula aquatica	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	Crassula connata	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	а	Open areas; Elevation: < 1500 m. WET: FAC	31	Feb-May	no	Y/Y
CRS	Crassula multicava ssp.	Cape Province pygmyweed	Recorded historically (1978) from San Miguel Hills (CCH); not included in Howell, et al. 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 Understory Diversification, Ft. Scott, Ligget St. Housing, Presidio Bluffs, WWII Memorial), the Richmond Dist., SFSU, and Sutro Forest. Presumably C.m. ssp. multicava.	h-s	р	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	Crassula ovata	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	Crassula 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	Crataegus monogyna	one-seed hawthorne	Not included in Howell, et al. 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	Crepis bursifolia	Italian hawk's-beard	Recorded historically (1950) from Golden Gate Park (CCH); not included in Howell, et al. Reported from Starr King and Yerba Buena Is.	h	р	Waif. Lawn weed, disturbed urban places; Elevation: < 100 m.	2	Apr-Sep	no	N/N
AST	Crepis capillaris	smooth hawksbeard	Recorded historically (1947) from SF (CCH); not included in Howell, et al. 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	Crocosmia [*] crocosmiiflora	common montbretia	Not included in Howell, et al. and there are no SF records in CCH. Reported from throughout the city and the Presidio. INVASIVE STATUS: $L/-/-/-$	gp	р	Naturalized. Generally in disturbed coastal areas, road-sides, often from garden waste; Elevation: < 50 m. WET: FACU	19	Jul-Aug	no	N/N
IRI	Crocosmia masoniorum	crocosmia	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	р	Ornamental; not naturalized.	2	sum-efall	no	N/N
EUP	<u>Croton californicus</u>	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	р	Sandy soils, dunes, washes; Elevation: < 900 m.	12	Apr-Jul	no	Y/Y
EUP	Croton setiger (r)	Cal. doveweed, turkey- mullein	[C. setigerus; <u>Eremocarpus setigerus</u>] Recorded historically (c. 1950) from Lake Merced (Howell, et al.) and Ft. Point. (NRDB); there are no SF records in CCH. Reported from Golden Gate Park (Strawberry Hill), the Presidio (Ft. Point), the Sunset Dist. and Yerba Buena Is.; all extant occs. likely represent incidental reintroductions. Voucher specimen needed.	h	а	Dry, open, often disturbed areas; Elevation: < 1000 m.	3	May-Oct	no	Y/Y
POA	Crypsis schoenoides	swamp pricklegrass	[Heleochioa s.] Not included in Howell, et al. 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	Cryptantha clevelandii var. florosa	coastal cryptantha	[<u>C. hispidissima</u>] Recorded historically (1894) from "SF", Golden Gate Park, and Lake Merced (Howell, et al., 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	<u>Cryptantha flaccida</u>	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	а	Semi-barren, gravelly, loose soils, rocky sites, washes, slopes, ridges; Elevation: < 1700(2250) m.	0	Mar-May	no	Y/Y
BOR	<u>Cryptantha leiocarpa</u>	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, et al., 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	Cuphea ignea	cigar plant	Not included in Howell, et al. and there are no SF records in CCH. Reported from Buena Vista Park.	ss	ep	Ornamental; not naturalized.	1	sum-fall	no	N/N

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CNV	<u>Cuscuta californica</u> var. californica (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., Ericameria ericoides). Road-sides, chaparral, grassland, yellow-pine forest; Elevation: generally < 2500 m.	3	May-Sept	no	Y/Y
CNV	Cuscuta occidentalis	Cal. dodder	Previously included in the Cuscutaceae. Known from a single 1901 collection from Lake Merced (CCH); not included in Howell, et al. 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	Cuscuta pacifica var. pacifica	coastal salt-marsh dodder	[<u>C. salima_var. major</u>] 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, Jaumea</i> . Coastal salt marshes, tidal flats; Elevation: +- 0 m.	6	Jul-Oct	no	Y/Y
CNV	Cuscuta subinclusa	canyon dodder	[<u>C. ceanothi</u>] Previously included in the Cuscutaceae. Recorded historically (1854) from SF (Howell, et al.); 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	Cyclospermum leptophyllum	marsh parsley	Not included in Howell, et al. and there are no historic SF records in CCH. Reported from Starr King and Twin Peaks.	h	а	Naturalized. Road-sides; Elevation: < 350 m. WET: FACU	2	Apr-Aug	no	N/N
PTG	Cymbalaria muralis	Kenilworth ivy	[Linaria cymbalaria] 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, et al., 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 (Ft. 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	Cynara cardunculus 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 C.c. ssp. c. INVASIVE STATUS: $M/-/NW$, B/NW	h	р	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, et al., CCH). Ubiquitous. INVASIVE STATUS: $M/-/D/-$	g	р	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	[Adelinia g., pending] Recorded historically (c. 1890) from Mission Hills and Visitación Valley (Howell, et al.); there are no SF records in CCH. Reported from Brotherhood Way. Voucher specimen needed.	g	р	Chaparral, woodland; Elevation: 10-1700 m.	1	Feb-May	no	Y/Y
POA	Cynosurus cristatus	crested dogtail grass	Known only from a 1946 collection from Cow Hollow (CCH); not included in Howell, et al. There are no contemporary reports from SF.	g	р	Naturalized. Cespitose. Fields, disturbed places; Elevation: < 300 m. WET: FACU	0	Jun-Aug	no	N/N
POA	Cynosurus echinatus	hedgehog dogtail grass	Recorded historically (1974) from San Miguel Hills (CCH); not included in Howell, et al. 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, et al., CCH). There are no contemporary reports from SF.	g	а	Naturalized. Ditches, pond shores, rice fields; Elevation: 100-500 m. WET: OBL	0	Jul-Aug	no	N/N
СҮР	<u>Cuperus 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, et al., 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	р	Vernal pools, stream-banks; Elevation: < 700 m. WET: FACW	18	May-Nov	no	Y/Y
СҮР	<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
СҮР	Cyperus involucratus	umbrella plant	[C. alternifolius, misappl.] Recorded historically (c. 1955) from the Presidio and the Sea Cliff Dist. (Howell, et al.); there are no SF records in CCH. Reported from Golden Gate Park (Elk Glen Lake), the Presidio (Lover's Lane), and Sutro Baths.	g	р	Naturalized. Ditches, shores; Elevation: < 200 m. WET: FACW	3	Jan-Dec	no	N/N
СҮР	<u>Cyperus niger</u>	black flatsedge	[C.n. var. capitatus] Recorded historically (1860) from "near SF", Lake Merced and Mission Cr. (Mission Dolores?; Howell, et al., CCH). Extirpated; last collected in 1890.	g	р	Rhizomatous. Marshes, swamps, moist road- sides; Elevation: < 1500 m. WET: FACW	0	Jul-Nov	no	Y/Y
СҮР	Cyperus owanii	Owan's flatsedge	Recorded historically (1957) from Golden Gate Park (CCH); not included in Howell, et al. There are no contemporary reports from SF.	g	р	Agricultural or garden weed; not naturalized. WET: FAC	0	sum	no	N/N
ORC	Cypripedium californicum	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	Cypripedium montanum	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	р	Moist areas, dry slopes, mixed-evergreen or conifer forest; Elevation: 200-2200 m. WET: FACU	0	Mar-Aug	no	Y/Y
DRY	Cyrtomium falcatum	holly fern	Not included in Howell, et al. and there are no SF records in CCH. Reported from Yerba Buena Is.	f	р	Rhizomatous. Generally moist cliffs, banks, crevices; Elevation: < 900 m.	1	n/a	no	N/N
FAB	Cytisus scoparius	Scotch broom	Recorded historically (1954) from Corona Hts., Golden Gate Park, Laguna Honda Valley, Lone Mt., Mt. Sutro, and the Presidio (Howell, et al., 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	р	Naturalized. Disturbed places; Elevation: < 1000 m.	20	Apr-Jul	no	N/N
FAB	Cytisus striatus	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	р	Naturalized. Uncommon but locally abundant. Disturbed places; Elevation: < 300 m.	1	May-Aug	no	N/N
POA	Dactylis glomerata	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	р	Naturalized. Cespitose from short rhizomes. Disturbed, often moist sites; Elevation: < 2410 m. WET: FACU	29	May-Aug	no	N/N
POA	Danthonia californica	Cal. oatgrass	[D.c. var. americana; D.c. var. c.] Recorded historically (1860) from Bayview Hills, Hunters Pt., Lone Mt., McLaren Park, Mt. Davidson, the Presidio, and San Miguel Hills (Howell, et al., CCH). Reported from throughout the city and Presidio.	g	р	Cespitose. Generally moist meadows, open woodland; Elevation: 45-2300 m. WET: FAC. SERP: 3.3	30	Apr-Aug	no	Y/Y
SOL	Datura stramonium	jimsonweed	Recorded historically (1923) from Golden Gate Park (Howell, et al.); there are no SF records in CCH. Reported from Golden Gate Park, the Mission Dist., and the Presidio (Lover's Lane, Tennessee Hollow).	h	а	Naturalized. Sandy soils, open, often disturbed areas; Elevation: < 1500 m.	3	Jun-Aug	no	N/N
SOL	Datura wrightii	sacred datura	[<u>D_metaloides</u>] 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	Daucus carota	Queen Anne's lace	Recorded historically (1974) from Lake Merced and the Presidio (Doyle Dr. Natural Area; Howell, et al., 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	р	Naturalized. Road-sides, disturbed places; Elevation: < 1650 m. WET: UPL	7	May-Sep	no	N/N
API	Daucus pusillus	rattlesnake carrot	Recorded historically (1892) from Lake Merced, Land's End (Pt. Lobos), Mt. Davidson, the Presidio, and Sunset Hts. (Howell, et al., CCH). Reported from throughout the city and the Presidio.	h	a-b	Rocky or sandy places; Elevation: < 1650 m.	25	Apr-Jun	no	Y/Y
AST	Deinandra corymbosa	coastal tarweed	[Hemizonia c.] Recorded historically (1870) from Clarendon Hts., the Presidio, Twin Peaks, and Visitación Valley (Howell, et al., CCH). Extirpated; last collected in 1941.	h	а	Grassland, openings in scrub or woodland, dunes, disturbed sites; Elevation: < 600 m.	0	Mar-Nov	CA	Y/Y
AST	Deinandra fasciculata	clustered tarweed	[Hemizonia f.] Recorded historically (c. 1905) from Black Pt. (Ft. Mason) and Lake Merced (Howell, et al., 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	Deinandra kelloggii	Kellogg's tarweed	[<u>Hemizonia k</u> .] 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	Y/Y
AST	Delairea odorata	Cape-ivy	[<u>Senecia mikanioides</u>] 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	р	Naturalized. Shady, more-or-less disturbed places, riparian woodland, coastal scrub; Elevation: < 1500 m. WET: FAC	63	Nov-Mar	no	N/N
RAN	<u>Delphinium californicum</u> ssp. californicum	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	р	Generally slopes in dense chaparral, western side of coast ranges; Elevation: < 1000 m. WET: FACU	1	Apr-Jun	CA	Y/Y
RAN	<u>Delphinium decorum</u> ssp. decorum	yellow-tinge larkspur	Recorded historically (1868, as full species) from Lake Merced, Mission Hills, Potrero Hills, and Stanford Hts. (San Miguel Hills; Howell, et al., CCH). Reported from Bayview Hill. SF is the type locality (holotype of D.d. var. racemosum). Voucher specimen needed.	h	р	Open coastal grassland, chaparral; Elevation: < 200 m.	1	May-Jun	CA	Y/Y
RAN	Delphinium hesperium ssp.	western larkspur	Known (1882, as full species) from two collections at "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1923. Presumably D.h. ssp. h.	h	р	Oak woodland, western slope coast ranges; Elevation: 10-1100 m. WET: FAC	0	May-Jul	CA	Y/Y
RAN	Delphinium nudicaule	canyon larkspur	Known from a single 1900 collection from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1900. There is a preliminary report from Glen. Cyn.; needs verification.	h	р	Moist talus, wooded, rocky slopes; Elevation: < 2600 m.	1	Mar-Jun	no	Y/Y
POA	Deschampsia cespitosa ssp. beringensis	tufted hairgrass	[D. beringensis] Known from a single 1900 collection from "near SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1900.	g	р	Loosely clumped. Coastal marshes and meadows; Elevation: < 800 m. WET: FACW	0	Jul	no	Y/Y

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁶	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ⁸	# OCCURENCES ^h	FLOWERING SEASON ⁱ	EN DEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ^j /CA
POA	<u>Deschampsia cespitosa</u> ssp. holciformis	coastal tufted hairgrass	Recorded historically (1866) from Bayview Hills, Mt. Davidson, the Presidio (above Baker Beach, Lobos Cr. Valley) and San Miguel Hills (Howell, et al., 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	р	Loosely to densely clumped. Coastal marshes, meadows; Elevation: < 850 m. WET: FACW	12	May-Jul	no	Y/Y
POA	Deschampsia danthonioides	annual wetland hairgrass	[incl. <u>D.d.</u> , var. gracilis] Recorded historically (1865) from Bayview Hills, Hunters Pt., and Lone Mt. (Howell, et al., CCH). Reported from Corona Hts. and Rocky Outcrop.	g	а	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	Deschampsia elongata	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	р	Densely clumped. Wet sites, meadows, lakeshores, shaded slopes; Elevation: < 3100 m. WET: FACW	0	May-Sep	no	Y/Y
BRA	<u>Descurainia sophia</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	а	Naturalized. Disturbed areas, fields, canyon bottoms, desert; Elevation: < 3000 m.	0	May-Aug	no	N/N
POA	Desmazeria rigida	ferngrass	[Catapodium rigidum, pending; Scleropoda r.] Recorded historically (1954) from Lone Mt. and Russian Hill (Howell, et al., CCH). There are no contemporary reports from SF.	g	а	Naturalized. Open, often sandy sites; Elevation: < 700 m.	0	Apr-Sep	no	N/N
PAP	Dicentra formosa.	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	р	Rhizomatous. Damp, shaded areas; Elevation: < 2400 m. WET: FACU	8	Mar-Jul	CA	N/Y
THE	Dichelostemma congestum	ookow blue-dicks	[Brodiaea congesta; B. pulchella, misappl.] Previously included in the Liliaceae. Recorded historically (1977; as B. pulchella) from Mt. Davidson (CCH); not included in Howell, et al. Reported from Glen Cyn., Hunters Pt. Ridge, Laguna Honda Valley, and Twin Peaks. Possibly indigenous based on distribution in the SF Bay Area.	gp		Corm-forming. Open woodland, grassland; Elevation: < 2000 m.	4	Apr-Jun	no	Y/Y
THE	Dichelostemma id-maia	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	р	Corm-forming. Forest edges, grassland; Elevation: < 2000 m.	1	May-Jul	no	N/Y
CNV	Dichondra donelliana	Cal. pony's-foot	Recorded historically (1927) from Bayview Hill, Bernal Hts., Lake Merced (CCH); not included in Howell, et al., 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	р	Matted from creeping stolons. Open slopes, moist fields; Elevation: < 425 m.	28	Mar-Jun	CA	Y/Y
CNV	Dichondra micrantha	Asian pony's-foot	[D. repens] 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	р	Naturalized. Matted from creeping stolons. Disturbed sites, canyons near urban areas; Elevation: < 1000 m. WET: FACW	0	Apr-Jun	no	N/N
CNV	Dichondra sp.	dichondra	Reported (to genus) from Alcatraz; needs id.	h	р	n/a	1	n/a	no	n/a
PTG	Digitalis purpurea.	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	Digitaria ischaemum	smooth crabgrass	Recorded historically (1957) from the Embarcadero and Golden Gate Park (Howell, et al., CCH). There are no contemporary reports from SF.	g	а	Naturalized. Disturbed areas; Elevation: < 300 m. WET: FACU	0	Sep-Nov	no	N/N
POA	Digitaria sanguinalis	red-hair crabgrass	Recorded historically (1954) from SF (Howell, et al., CCH). Reported from the Presidio (Mountain Lake).	g	а	Naturalized. Disturbed areas; Elevation: < 1250 m. WET: FACU	1	Jun-Sep	no	N/N
AST	Dimorphotheca ecklonis	blue-and-white daisybush	Not included in Howell, et al. and there are no SF records in CCH. Reported from the Presidio (Main Post). Hybridizes with D. fruticosa .	ss	р	Naturalized. Disturbed places, beaches; escape from cultivation; Elevation: < 200 m.	1	Mar-Jul	no	N/N
AST	Dimorphotheca fruticosa	Cape or African daisy	[Calendula f; Osteospermum fruticosum]. Not included in Howell, et al. and there are no SF records in CCH. Reported from Duncan-Castro Open Space, Glen Cyn., and Yerba Buena Is. Possibly confused with D. ecklonis; needs verification.	h-ss	р	Naturalized. Disturbed places, beaches, coastal areas; Elevation: < 200 m.	3	Jan-Dec	no	N/N
PHR	Diplacusus aurantiacus	sticky bush monkey-flower	[<u>Mimulus a</u> .] 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		Disturbed areas, coastal cliffs, canyon sides; Elevation: < 800 m. WET: FACU	60	Mar-Jun	no	Y/Y

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Linderlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁶	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT/ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	EN DEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ / CA
BRA	<u>Diplotaxis muralis</u>	annual wall-rocket	Recorded historically (1945) from Golden Gate Park (Howell, et al., 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	Dipsacus fullonum	Fuller's teasel	[<u>D. sylvestris</u>] 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	Dipsacus sativus	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	Dipterostemon capitatus ssp. capitatus	common blue-dicks	[Brodiaea pulchella; B. capitata var. insularis; B. insularis; Dichelostemma capitatum ssp. capitatum; D. insulare, D. lacuma-vernalis; D. pulchellum] 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, et al., CCH). Reported from throughout the city and the Presidio.	gp		Corm-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	Disphyma crassifolium	round-leaved pigface	[<u>Mesembryanthenuan c.</u>] 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	р	Waif or garden escape; not naturalized.	0	Apr-May	no	N/N
POA	Distichlis spicata	coastal saltgrass	Recorded historically (1862) from Golden Gate Park, Hunters Pt., Islais Cr., Ocean Beach, the Presidio (Baker Beach; Howell, et al., 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	р	Rhizomatous. Salt marshes, coastal dunes, moist, alkaline areas; Elevation: < 1550 m. WET: FAC	14	Apr-Sep	no	Y/Y
POA	Distichlis spicata 'Molaté	Molaté saltgrass	Not included in Howell, et al. and there are no SF records in CCH. Reported from the Presidio (Crissy Field); presumably planted.	g	р	Cultivar; not naturalized. WET: FAC	1	Apr-Sep	no	N/N
AST	Dittrichia graveolens	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), Visitación Valley, Yerba Buena I.s., and Yosemite Slough; expected elsewhere. INVASIVE STATUS: MA/ –/INV,B/NW	h	a	Naturalized. Disturbed areas; Elevation: < 700 m.	14	Sep-Nov	no	N/N
AST	Dittrichia viscosa	false yellowhead	Not included in Howell, et al. and there are no SF records in CCH. First reported in Cal. in 2014. Recently reported from Hunters Pt. INVASIVE STATUS: $W/-/A/-$	h	р	Naturalized. Road-sides, disturbed places, creek-sides; Elevation: +- 43 m.	1	Sep-Nov	no	N/N
ARA	Dracunculus vulgaris	common dracunculus	Not included in Howell, et al. and there are no SF records in CCH. Reported from the Presidio (Ft. Point, Presidio Bluffs).	h	р	Agricultural or garden weed; not naturalized.	2	sp	no	N/N
AIZ	Drosanthemum floribundum	rosea iceplant	[Mesembryanthemum f.] Recorded historically (1941) from Ft. Funston, Golden Gate Park, Land's End, Lone Mt., the Presidio (Presidio Bluffs; Howell, et al., 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	р	Naturalized. Mat-forming, Coastal habitats; Elevation: < 35 m.	13	Apr-Jul	no	N/N
ROS	Drymocallis glandulosa var. glandulosa	sticky cinquefoil	[Potentilla 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, et al., 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	•	Tufted. Generally more-or-less shady or moist areas; Elevation: generally 400-2000 m. WET: FAC	16	May-Jul	no	Y/Y
ROS	Drymocallis glandulosa var. wrangelliana	sticky cinquefoil	Recorded historically (1974) from Twin Peaks (CCH); not included in Howell, et al. Reported from Twin Peaks.	h	р	Openings in coastal scrub, moist or more-or-less shaded places; Elevation: < 1000 m. WET: FAC	1	Apr-Sep	no	Y/Y
DRY	Dryopteris arguta	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	р	Rhizomatous. Open, wooded slopes, caves; Elevation: < 2500 m.	24	n/a	no	Y/Y
ROS	Duchesnea indica var. indica	mock-strawberry	[Considered by some authors as <i>Potentilla i.; <u>Fragaria indica</u>,</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	р	Naturalized. Stoloniferous, forming ground cover. Disturbed areas; Elevation: generally < 500 m.	24	May-Aug	no	N/N
CRS	Dudleya caespitosa	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	р	Fleshy, cespitose. Coastal, rock, sand; Elevation: generally < 100 m.	0	Apr-Aug	CA	Y/Y
CRS	Dudleya cymosa ssp. cymosa	coast dudleya	Known from a single 1900 collection from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1900.	h	р	Fleshy, not cespitose. Rocky outcrops, talus slopes, less often shaded canyon slopes; Elevation: 100-2700 m.	0	May-Jun	CA	Y/Y
CRS	Dudleya farinosa	powdery live-forever	[<u>Escheveria</u> 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	р	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	Dysphania ambrosioides	Mexican tea goosefoot	[<u>Chenopodium a</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, et al., 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	Dysphania botrys	Jerusalem oak goosefoot	[Chenopodium b ; Amaranthaceae, pending] Recorded historically (1957) from Laurel Hts. and the Richmond Dist. (Howell, et al.); there are no SF records in CCH. There are no contemporary reports from SF.	h	а	Naturalized. Strongly scented. Disturbed areas; Elevation: < 2100 m. WET: FACU	0	Jun-Oct	no	N/N
CHN	Dysphania multifida	cutleaf goosefoot	[Chenopodium multifidum; Roubieva m.; 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, et al., 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	Echinochloa crus-galli	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	а	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	Echinochloa crus-pavonis var. macera	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	а	Possibly naturalized. WET: FACW	0	Jun-Sep	no	N/N
POA	Echinochloa muricata var. microstachys	common barnyardgrass	[<u>E.crus-galli var. mitis</u>] Recorded historically (1953) from Golden Gate Park, Lake Merced, the Richmond Dist., and Russian Hill (Howell, et al., 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	Echinodorus berteroi	upright burhead	Not included in Howell, et al. 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	Echium candicans	pride-of-Madeira	[<u>E. fustuosum</u>] Recorded historically (c. 1955) from the Presidio (above Baker Beach, Presidio Hills; Howell, et al.); there are no SF records in CCH. Reported from throughout the city and the Presidio. INVASIVE STATUS: L/3/-/-	s	р	Naturalized. Open, dry slopes, bluffs; Elevation: < 500 m.	47	Feb-Oct	no	N/N
BOR	Echium pininana	pine echium	Not included in Howell, et al. 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	р	Naturalized. Disturbed areas, steep slopes; Elevation: < 240 m.	20	May-Aug	no	N/N
BOR	Echium vulgare	common viper's bugloss	Not included in Howell, et al. and there are no SF records in CCH. Reported from the Presidio (Ft. Point)	s	р	Waif or garden escape; not naturalized.	1	sum	no	N/N
HDC	Egeria densa	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	р	Naturalized. Submersed, rooted aquatic. Streams, ponds, sloughs; Elevation: < 2200 m. WET: OBL	0	Jul-Aug	no	N/N
PAP	Ehrendorferia chrysantha	golden eardrops	Known from a single 1868 collection from an unspecified location (CCH); not included in Howell, et al. Extirpated; last collected in 1868.	h	р	Dry slopes, burns, disturbed areas; Elevation: < 2300 m. SERP: 1.1	0	May-Jul	no	Y/Y
POA	Ehrharta calycina	perennial veldtgrass	Not included in Howell, et al. and there are no SF records in CCH. Reported from the Richmond Dist. INVASIVE STATUS: $H/-/-/-$	g	р	Naturalized. Often rhizomatous. Sandy soils; Elevation: generally < 500 m.	0	Mar-May	no	N/N
POA	Ehrharta erecta	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	р	Naturalized. Erect or ascending, not rhizomatous. Disturbed, often shady, moist sites; Elevation: generally < 915 m.	76	Mar-Jun	no	N/N
PON	Eichhornia crassipes	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	р	Naturalized. Free-floating aquatic. Ponds, sloughs, waterways; Elevation: < 200 m. WET: OBL	1	Jun-Nov	no	N/N
ELT	Elatine brachysperma	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	Elatine heterandra	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
СҮР	<u>Eleocharis acicularis</u> var.	needle spike-rush	Known (as full species) from a single 1897 collection from the Presidio (Mountain Lake; Howell, et al., CCH). Possibly E.a. var. a. or E. bella . Extirpated; last collected in 1897.	g	р	Weakly rhizomatous, often forming mats. Meadows, fresh wet soil to submerged. WET: OBL	0	Jul-Aug	no	Y/Y
СҮР	Eleocharis bella	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

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT/ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ /CA
СҮР	Eleocharis macrostachya	longstem spike-rush	[E. palustris] Recorded historically (1860) from Bayview Hills, Golden Gate Park, Land's End, and the Presidio (Mountain Lake; Howell, et al., CCH). Reported from the Presidio (Doyle Dr. Natural Area, Dragonfly Cr., Lobos Cr. Valley, Mountain Lake, Presidio Hills, Tennessee Hollow).	g	р	Rhizomatous. Fresh to brackish wetland; Elevation: 10-2300 m.	6	sp-sum	no	Y/Y
СҮР	Eleocharis palustris	common spike-rush	Recorded historically (1927) from Bayview Hill, the Presidio (Mountain Lake), and se. SF (CCH); not included in Howell, et al. Extirpated; last collected in 1956.	g		Rhizomatous. Fresh ponds, shores, marshes; Elevation: < 3000 m. WET: OBL	0	sum	no	Y/Y
СҮР	Eleocharis radicans	rooted spike-rush	[<i>E. acicularis</i> var. r.] Recorded historically (1904) from Lake Merced and the Presidio (Mountain Lake; Howell, <i>et al.</i> , CCH). Reported from Brotherhood Way.	g		Rhizomatous. Exposed soil or shallow water of shores, streams, marshes, seeps; Elevation: 100- 1400 m. WET: OBL	1	sp-win	no	Y/Y
СҮР	Eleocharis rostellata	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>congdonii</i>).	g	р	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	Elodea canadensis	common waterweed	Recorded historically (1956) from Lake Merced (Howell, et al., CCH). Extirpated last collected in 1956.	h	р	Submersed aquatic. Shallow water, sloughs, ponds, lakes; Elevation: 300-2600 m. WET: OBL	0	Jun-Aug	no	Y/Y
POA	Elymus caput-medusae	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	Elymus condensatus	Cal. giant wildrye	[Leymus c.] Recorded historically (1865) from SF and near the Cliff House (CCH); not included in Howell, et al. 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	р	Cespitose, rhizomes 0 or short. Dry slopes, open woodland; Elevation: < 1830 m.	2	Jun-Aug	no	Y/Y
POA	Elymus elymoides var.	bottlebrush squirreltail	[Sitanion hystrix] Known (as full species) from a single 1865 collection from "SF" (CCH); not included in Howell, et al. Reported from McLaren Park. Potentially <i>E.e.</i> var. <i>brevifolius</i> . Preferred larval host plant for the Woodland Skipper butterfly.	g	р	Cespitose. Dry, open areas; Elevation: 450-3500 m. WET: FACU	1	Apr-May	no	Y/Y
POA	<u>Elymus glaucus</u> ssp. glaucus	blue or western wildrye	[Incl. E.g. var. jepsoni; E. angustifolius] 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, et al., CCH). Reported from throughout the city and the Presidio. SF is the type locality (holotype, syntype of E. angustifolius). Preferred larval host plant for the Woodland Skipper butterfly.	g		Sometimes short-rhizomed. Open areas, chaparral, woodland, forest; Elevation: < 2890 m. WET: FACU	32	Jun-Aug	no	Y/Y
POA	Elymus glaucus ssp. virescens	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	р	Sometimes short-rhizomed. Conifer forest, chaparral, rocky soils, riverbanks; Elevation: < 2800 m. WET: FACU	1	May-Jul	no	Y/Y
POA	Elymus hispidus	intermediate wheatgrass	[Thinopyrum intermedia ssp. intermedia, pending; Elytrigia i. ssp. i.] Known from a single 1925 collection on dunes at Ingleside (CCH); not included in Howell, et al. There are no contemporary reports from SF.	g	р	Naturalized. Rhizomatous. Open areas, slopes; Elevation: < 2500 m.	0	Jun-Aug	no	N/N
POA	<u>Elymus mollis</u> ssp. mollis	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	р	From well developed rhizomes. Sandy beaches; Elevation: generally < 10 m.	7	May-Jul	no	Y/Y
POA	Elymus multisetus	big squirrel-tail grass	[Sitanion jubatum] Recorded historically (1950) from Bayview Hills and McLaren Park (Howell, et al., CCH). Reported from Bayview Hill, Bernal Hts. Park, and McLaren Park. Voucher specimen needed. Preferred larval host plant for the Woodland Skipper butterfly.	g	р	Cespitose. Open, sandy to rocky areas; Elevation: < 3800 m.	3	May-Jul	no	Y/Y
POA	<u>Elymus pacificus</u>	maritime rye	[Leymus p.] 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, et al., 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	р	Strongly rhizomatous. Coastal bluffs; Elevation: < 230 m.	7	May-Jul	CA	Y/Y
POA	Elymus repens	quack grass	[Agropyron r. ; Elytrigia r.] Recorded historically (1947) from the Embarcadero, Golden Gate Park, the Richmond Dist., Rocky Outcrop, Sutro Hts. (Howell, et al., CCH). There are no contemporary reports from SF. INVASIVE STATUS: -/-/NW/-	g		Naturalized. Strongly rhizomatous. Weed of disturbed areas, cultivated fields; Elevation: < 2150 m. WET: FAC	0	Apr-Aug	no	N/N
POA	Elymus triticoides	alkali wildrye	[Leymus t.] Recorded historically (1865) from Bayview Hills, the Embarcadero, near Islais Cr., Lake Merced, Lone Mt., and the Presidio (Howell, et al., 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	р	Rhizomatous. Dry to moist, often saline, meadows; Elevation: < 2500 m.	36	Jun-Jul	no	Y/Y
POA	Elymus ^x gouldii	many flowered wildrye	[Leymus * multiflorus] Sterile hybrid between E. condensatus and E. triticoides. Recorded historically (1954) from Bayview Hills and Lake Merced (CCH); not included in Howell, et al. Extirpated; last collected in 1956.	g	р	Rhizomatous. Open areas, often saline soils; Elevation: < 1615 m.	0	May-Jul	no	Y/Y
POA	Elymus ^x hansenii	Hansen's wildrye	[Unresolved; possible addition to TJM. Sitanion h.] Sterile hybrid between E. elymoides and E. glaucus. Known from a single 1956 collection from Bayview Hill (CCH); not included in Howell, et al. Extirpated; last collected in 1956.	g	р	Cespitose. Open area on dry rocky slope in coniferous forests.	0	sum	no	Y/Y

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POA	Elymus <u>*</u> vancouverensis	Vancouver wildrye	[Leymus * vancouverensis] Sterile hybrid between E. mollis and E. triticoides. Recorded historically (c. 1956) from Lake Merced (Howell, et al.); 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	р	Rhizomatous. Sandy beaches; Elevation: < 100 m.	2	Jul	no	Y/Y
PLG	Emex australis	southern three-cornered jack	[Rumex hypogaeus, pending] Recorded historically (1881) from 'SF" (Howell, et al., CCH). There are no contemporary reports from SF. INVASIVE STATUS: -/-/-/NW	h	а	Naturalized. Coastal, sandy areas; Elevation: < 200 m.	0	May-Dec	no	N/N
PLG	Emex spinosa	Devil's thorn	[Rumex spinosus, pending] Known from two 1881 collections at "SF" (CCH); not included in Howell, et al. 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	Epilobium brachycarpum	tall annual willow-herb	[incl. <u>E. paniculatum forma adenocladon</u> and <u>lacvicaule</u>] 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	а	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	Epilobium canum ssp.	Cal. fuchsia	[Zauschneria cana] Not included in Howell, et al. 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. c. is known from San Bruno Mt., Angel Is, and near the Bay in Alameda Co. where it is presumed indigenous.	h	р	Dry slopes, ridges; Elevation: < 2100 m.	18	Aug-Oct	no	N/Y
ONA	Epilobium ciliatum 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	р	WET: FACW	28	May-Oct	no	Y/Y
ONA	Epilobium ciliatum ssp. ciliatum	fringed willow-herb	[<u>E. adenocaulon var. parishii</u> and var. occidenale] Recorded historically (1933) from Golden Gate Park, Lake Merced, Lone Mt., and Stern Grove (Howell, et al., 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	р	Disturbed places, moist meadows, stream- banks, road-sides; Elevation: < 4100 m. WET: FACW	8	Jun-Oct	no	Y/Y
ONA	Epilobium ciliatum ssp. watsonii	coast willow-herb	[E. watsonii var. franciscanum] 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, et al., CCH). Reported from throughout the city and Presidio. SF is the type locality (isolectotype of E. franciscanum).	h	р	Moist coastal bluffs, stream-sides, more-or-less disturbed sites; Elevation: < 200 m. WET: FACW	32	May-Oct	no	Y/Y
ONA	Epilobium densiflorum	denseflower willowherb	(Boisduvalia densiftera) Known from a single 1956 collection from Bayview Hills (Howell, et al., CCH). Extirpated; last collected in 1956.	h	а	Stream-banks, out-washes, seasonal moist flats; Elevation: < 2600 m. WET: FACW	0	Jun-Aug	no	Y/Y
ONA	<u>Epilobium minutum</u>	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	Epipactis gigantea	giant helleborine	Known from a single 1891 report from near Sixth and Harrison streets (Howell, et al.); 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	р	Seeps, wet meadows, stream-banks; Elevation: < 2600 m. WET: OBL	0	May-Jul	no	Y/Y
ORC	Epipactis helleborine	broadleaf helleborine	Not included in Howell, et al. 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	р	Naturalized. Generally dry slopes, road-cuts, mixed-conifer forest; Elevation: < 1300 m. WET: FACU	9	Apr-Dec	no	N/N
EQU	Equisetum arvense	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	Equisetum hyemale ssp. affine	giant scouring-rush	[<i>Lh.</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	р	Rhizomatous. Streams, moist, sandy, gravelly areas; Elevation: < 2500 m. WET: FACW	8	n/a	no	Y/Y
EQU	Equisetum laevigatum	smooth horsetail	Recorded historically (1956) from Russian Hill (Howell, et al.) 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	Equisetum palustre	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	<u>Equisetum telmateia_ssp. braunii</u>	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	р	Rhizomatous. Stream-banks, roadside ditches, seepage areas; Elevation: < 1000 m. WET: FACW	11	n/a	no	Y/Y

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EQU	Equisetum ^x ferrissii	giant scouring-rush	[<u>E. hymale</u> var. <u>elatum</u> ; taxonomically valid sterile hybrid between E.h. ssp. affine and E. laevigatum] 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, et al., 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	Eragrostis cilianensis	stinkgrass	Recorded historically (c. 1900) from "SF" (Howell, et al.); there are no SF records in CCH. There are no contemporary reports from SF.	g	а	Naturalized. Disturbed soils; Elevation: < 2000 m. WET: FACU	0	Jun-Oct	no	N/N
POA	Eragrostis mexicana ssp. mexicana	Mexican lovegrass	[E. neomexicana] Recorded historically (1952) from SF State College (CCH); not included in Howell, et al. There are no contemporary reports from SF.	g	а	Disturbed soils in fields, forest margins, disturbed areas; Elevation: < 1500 m. WET: FACU	0	May-Sep	no	N/Y
POA	Eragrostis mexicana ssp. virescens	Chilean lovegrass	[<u>E. orcuttiana</u>] Recorded historically (1952) from Golden Gate Park where it was presumably introduced from elsewhere in Cal. (Howell, et al., CCH). There are no contemporary reports from SF.	g	а	Disturbed soils in fields, sandy riverbanks; Elevation: < 2470 m. WET: FACU	0	May-Oct	no	N/Y
POA	Eragrostis pectinacea var. pectinacea	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	а	Open disturbed sites, fields; Elevation: < 1500 m. WET: FAC	1	Jul-Nov	no	N/Y
POA	Eremochloa ciliaris	fringed centipede grass	Reported historically (1862) from "SF" (Howell, et al., CCH). Native to se. Asia; believed extirpated in Cal. There are no contemporary reports from SF.	g	р	Disturbed places. WET: FACU	0	sum-fall	no	N/N
ERI	Erica lusitanica	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	Ericameria ericoides	mock heather, dune heather	[Diplopappus e.; <u>Haplopappus e</u> .] 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 Sutro 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	Erigeron biolettii	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: $-/-/3$	h	р	Dry slopes, rocks, ledges along rivers; Elevation: < 1100 m.	0	Jun-Oct	CA	Y/Y
AST	Erigeron blochmaniae	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: -/-/1B.2	h	р	Sand dunes and hills; Elevation: < 70 m.	1	Jun-Aug	CA	N/Y
AST	Erigeron bonariensis	flax-leaved horseweed	[<i>Comyza b .; Comyza 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	а	Naturalized. Disturbed sites; Elevation: < 1300+ m. WET: FACU	17	Jan-Dec	no	N/N
AST	Erigeron canadensis	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 (Ft. 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	<u>Erigeron foliosus</u> var.	leafy fleabane	Recorded historically (1913, as full species) from Bayview Hills, Lake Merced, and Pt. Lobos (Howell, et al.) Reported (as full species) from Bayview Hill, Bernal Hts. Park, Brotherhood Way, Corona Hts., Pt. Funston, Glen Cyn., O'Shaughnessy Hollow; needs id. Could be E.f. var. foliosus or E.f. var. franciscensis (the latter is most likely based on the number of recent SF vouchers in CCH; both taxa are known historically from SF (CCH).	h	р	n/a	7	May-Aug	no	Y/Y
AST	Erigeron foliosus var. foliosus	leafy fleabane	Recorded historically (1883) from "SF" (CCH); recorded (as full species) from Bayview Hills, Lake Merced, and Pt. Lobos (Howell, et al.) 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 E.f. var. foliosus or E.f. var. franciscensis.	h-s	р	Open, rocky grassland, chaparral, forest; Elevation: < 2900 m.	0	May-Sep	no	Y/Y
AST	Erigeron foliosus var. franciscensis	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.</i> var. <i>f</i> .)	h	р	Grassy dunes, chaparral, oak woodland; Elevation: < 800 m.	0	May-Sep	no	Y/Y
AST	Erigeron glaucus	Cal. seaside daisy	Recorded historically (1872) from Land's End, Lake Merced, Mt. Davidson, the Presidio (Ft. Point, Lobos Cr. Valley), San Miguel Hills, Sunset Hts., Sutro Hts., and Twin Peaks (Howell, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio.	h-ss	р	Coastal bluffs, dunes, beaches; Elevation: < 20 m. WET: FACU	52	May-Jul	no	Y/Y
AST	Erigeron karvinskianus	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 (Ft. Point, Lobos Cr. Valley, Presidio Bluffs), the Richmond Dist., Rocky Outcrop, Russian Hill, SFSU, Starr King, the Sunset Dist., Sutro Hts., Telegraph Hill, Twin Peaks, and Yerba Buena Is.	h	р	Naturalized. Shaded rock walls, moist disturbed habitats; Elevation: < 1100 m. WET: FAC	14	Apr-Aug	no	N/N

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME [¢]	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	EN DEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ / CA
AST	<u>Erigeron philadelphicus</u> var. philadelphicus	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	Erigeron 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	Erigeron sumatrensis	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	Eriobotrya japonica	Japanese loquat	Not included in Howell, et al. and there are no SF records in CCH. Reported from Land's End, the Marina Dist. and Yerba Buena Is.	t	р	Agricultural, garden, or urban weed; not naturalized.	2	fall	no	N/N
ROS	Eriodictyon californicum	yerba santa	Known from a single 1868 collection from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1868. Reported from Ft. Scott; presumably planted.	s	р	Slopes, fields, road-sides, woodland, chaparral; Elevation: 20-1830 m.	1	May-Jun	no	Y/Y
PLG	Eriogonum fasciculatum var.	Cal. buckwheat	Recorded historically (1893, as full species) from SF (CCH); not included in Howell, et al. Reported (as full species) from Bayview Hill, FL 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	р	Sand; Elevation: < 300 m.	5	Jan-Dec	no	N/Y
PLG	Eriogonum fasciculatum yar. foliolosum	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	р	Gravel; Elevation: 60-1300 m.	2	Jan-Dec	no	N/Y
PLG	Eriogonum giganteum 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	р	Widely cultivated. Gravel; Elevation: < 450 m.	3	Jan-Dec	no	N/Y
PLG	Eriogonum latifolium	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	р	Sand; Elevation: < 80 m.	60	Jan-Dec	no	Y/Y
PLG	Eriogonum nudum var. auriculatum	nude buckwheat	Recorded historically (1933) from Mt. Davidson, San Miguel Hills, and Sunset Dist. dunes (CCH); not included in Howell, et al. Extirpated; last collected in 1956.	s	р	Sand or gravel; Elevation: < 1200 m.	0	Jun-Sep	CA	Y/Y
PLG	<u>Eriogonum nudum</u> var. nudum	nude buckwheat	Recorded historically (1905) from Hunters Pt. (Howell, et al., 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	р	Sand or gravel; Elevation: 10-2100 m.	9	May-Aug	no	Y/Y
СҮР	<u>Eriophorum gracile</u>	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	р	Rhizomatous. Wet meadows, bogs; Elevation: generally 600-2900 m. WET: OBL	0	May-Sep	no	Y/Y
AST	<u>Eriophyllum confertiflorum</u> var. confertiflorum	golden yarrow	Recorded historically (1863) from Bayview Hills, Brotherhood Way, Corona Hts., Mt. Davidson, Ocean Beach, San Miguel Hills (Howell, et al., 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	Eriophyllum lanatum var.	woolly sunflower	Reported (as full species) from Laurel Hts., Hayes Valley, and Pacific Hts.; presumably planted.	h-ss	р	n/a	0	n/a	no	N/Y
AST	Eriophyllum lanatum var. achilleoides	yarrow-laved woolly sunflower	[E. idioneum] Known from a single 1868 collection from "SF" (CCH); not included in Howell, et al. 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	Eriophyllum lanatum yəx arachnoideum	common woolly sunflower	Recorded historically (c. 1866) from Land's End (Pt. Lobos) and Mission Hills (Howell, et al., CCH). Extirpated; last collected in 1890	h	р	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	Eriophyllum lanatum var. integrifolium	common woolly sunflower	Known from a single 1868 collection from "SF" (CCH); not included in Howell, et al. This is a highly dubious identification as the taxon occurs nowhere else on the Central Coast. Not considered indigenous to SF.	h-ss	р	Dry sites, sagebrush, forest, alpine; Elevation: 1400-3500 m.	0	May-Aug	no	N/Y
AST	Eriophyllum staechadifolium	lizard-tail, seaside woolly sunflower	[<u>E.s. var. artemisiaefolium</u>] 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, et al., CCH). Reported from throughout the city and Presidio.	h	р	Dunes, sea bluffs, coastal scrub; Elevation: < 100 m.	39	Apr-Sep	no	Y/Y
GER	Erodium botrys	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

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁶	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ⁸	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ^j / CA
GER	Erodium brachycarpum	foothill filaree	[<u>E. obtusiplicatum</u>] Recorded historically (c. 1955) from Golden Gate Park and San Miguel Hills (Howell, et al., 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	Erodium cicutarium	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	Erodium moschatum	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	р	Coastal prairie, bluffs, grassland, marsh margins, often on clay soils; Elevation: < 200 m. WET: FACW	1	May-Aug	CA	Y/Y
BRA	Erysimum capitatum 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, et al. Reported (as full species) from Lake Merced, and the Presidio (Baker Beach, Ft. Point; CCH and NRDB); needs id. Presumably E.c. var. c.	h	р	Open areas, alpine, deserts, woodland, sandy areas, chaparral; Elevation: < 4000 m.	3	Apr-May	no	Y/Y
BRA	Erysimum franciscanum	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: $-/-/4.2$	\$\$		Serpentine outcrops, coastal scrub or sand dunes, granitic hillsides; Elevation: < 500 m. SERP: 3.0	17	Mar-Jun	BA	Y/Y
PHR	Erythranthe arvensis	blunt-calyxed monkey-flower	[Mimulus a.] Previously included in the Scrophulariaceae. Known from a single 1906 collection from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1906.	h	a	Wet places; Elevation: 30-1900 m.	0	Apr-Jul	no	Y/Y
PHR	Erythranthe cardinalis (r)	cardinal-red monkey-flower	[<u>Minudus c</u> .] 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 Sutro Forest.	h	р	Rhizomatous. Moist to wet places along streams, seepage areas; Elevation: < 2400 m. WET: FACW	4	May-Sep	no	Y/Y
PHR	Erythranthe grandis	(no common name)	[Mimulus guttatus var. grandis] 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, et al., CCH). Reported from Glen Cyn.in 1984; possibly extirpated. Possibly confused with E. guttata. Plants are densely hairy, compared to E. guttatu which are glabrous.	h	р	Rhizomatous. Beaches, dunes, coastal bluffs, seeps, creeks; Elevation: 0-800 m.	1	May-Sep	no	Y/Y
PHR	Erythranthe guttata	streamside monkey-flower	[Minumus guttattus] 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, et al., 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 Bach, 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), Sutro Baths, and Yerba Buena Is, reintroduced at Sutro Forest. Host plant for the Common Buckeye, Variable Checkerspot, and Mylitta Crescent butterflies.	h		Rhizomatous. Wet places, generally terrestrial, occasionally emergent or floating in mats; Elevation: < 2500 m. WET: OBL	27	Mar-Aug	no	Y/Y
PHR	Erythranthe moschata	musk monkey-flower	[Minulus moschatus] Previously included in the Scrophulariaceae. Recorded historically (c. 1957) from Golden Gate Park where it is presumed to have been introduced (Howell, et al.); there are no SF records in CCH. There are no contemporary reports from SF.	h	р	Rhizomatous. Seeps, stream-banks, generally partial shade; Elevation: < 2900 m. WET: FACW	0	May-Sep	no	N/Y
GRS	Escallonia macrantha.	redclaws	[E. rubra var. m.] Recorded historically (1955) from the Presidio (above Baker Beach, Ft. Point; Howell, et al.); 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 E. rubra.	s	р	Waif or garden escape; not naturalized.	7	sum-fall	no	N/N
PAP	Eschscholzia caespitosa	foothill poppy	Known from a single 1894 collection from the Presidio (CCH); not included in Howell, et al. Extirpated; last collected in 1894.	h	а	Open chaparral; Elevation: < 1800 m.	0	Mar-Aug	no	Y/Y
PAP	Eschscholzia californica	Cal. poppy	Recorded historically (c. 1817) from throughout SF (Howell, et al., 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	Eucalyptus camaldulensis	Murray River red gum	Recorded historically (c. 1970) from Lafayette Park (CCH); not included in Howell, et al. 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	Eucalyptus conferruminata	spider gum	Not included in Howell, et al. 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	Eucalyptus ficifolia	scarlet flowering gum	[Corymbia f., pending) Not included in Howell, et al. 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	Eucalyptus globulus	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	Eucalyptus leucoxylon	white ironbark	Not included in Howell, et al. 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	Eucalyptus nicholii	Nichol's willow-leaved peppermint	Not included in Howell, et al. 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	Eucalyptus polyanthemos	red box or silver-dollar gum	Recorded historically (1921) from Golden Gate Park and near Lake Merced (CCH); not included in Howell, et al. 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	Eucalyptus pulchella	white peppermint gum	Not included in Howell, et al. 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	Eucalyptus sideroxylon	red ironbark eucalyptus	Recorded historically (1915) from Golden Gate Park (CCH); not included in Howell, et al. 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	Eucalyptus sp.	gum	Reported (to genus) from multiple sites; needs id.	t	ep	n/a	4	n/a	no	N/N
MRT	Eucalyptus tereticornis	forest red gum	Recorded historically (1915) from Golden Gate Park (CCH); not included in Howell, et al. Presumed extant at Golden Gate Park; expected elsewhere.	t	ep	Naturalized. Disturbed coastal areas; Elevation: < 200 m.	1	May-Aug	no	N/N
MRT	Eucalyptus viminalis	manna gum	Not included in Howell, et al. 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	Euphorbia characias	Albanian spurge	Not included in Howell, et al. 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	р	Agricultural or garden weed (tentative); not naturalized.	4	sp-esum	no	N/N
EUP	Euphorbia crenulata	Chinese caps	[E. nortoniana] Recorded historically (1865) from Lake Merced, Lone Mt., Mt. Davidson, and the Presidio (Presidio Hills; Howell, et al., CCH). Reported from Lake Merced. SF is the type locality (holotype, syntype of E. nortoniana)	h	a-b	Dry places; Elevation: < 1600 m.	1	Mar-Aug	no	Y/Y
EUP	Euphorbia dendroides	tree spurge	Not included in Howell, et al. 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	р	Naturalized. Disturbed areas; Elevation: < 550 m.	3	Jan-Dec	no	N/N
EUP	Euphorbia helioscopia	wartweed	Recorded historically (1946) from Twin Peaks (Howell, et al., CCH). Reported from Golden Gate Park and Sutro Forest.	h	а	Naturalized. Disturbed areas; Elevation: < 200 m.	2	Apr-Jul	no	N/N
EUP	Euphorbia lathyris	gopher plant	Recorded historically (1957) Bayview Hills, Islais Cr., Mt. Davidson, and the Richmond Dist. (Howell, et al., 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	Euphorbia maculata	common spotted spurge	[Chamaesyce m.; E. supina] Recorded historically (1883) from the Embarcadero and Lake Merced (Howell, et al., CCH). Reported from Glen Cyn., Golden Gate Park, McLaren Park, Mission Bay, Pine Lake, the Sunset Dist., and Yerba Buena Is.	h	а	Naturalized. Prostrate. Disturbed places; Elevation: < 2000 m. WET: UPL	6	Apr-Oct	no	N/N
EUP	Euphorbia oblongata	eggleaf spurge	Recorded historically (1933) from SF (CDFA); 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	р	Naturalized. Disturbed areas; Elevation: < 900 m.	4	Jun-Aug	no	N/N
EUP	Euphorbia peplus	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	а	Naturalized. Disturbed areas; Elevation: < 1200 m.	33	Feb-Aug	no	N/N
EUP	Euphorbia serpens	matted sandmat	[Chamaesyce s.] Recorded historically (c. 1955) from Hunters Pt. (Howell, et al.); there are no SF records in CCH). Reported from the Presidio (Tennessee Hollow and the SOMA Dist.	h	а	Naturalized. Disturbed areas; Elevation: < 750 m. WET: FACU	1	Jun-Sep	no	N/N
EUP	Euphorbia serpillifolia 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	а	Dry habitats; Elevation: < 2500 m.	0	Jun-Aug	no	Y/Y
EUP	Euphorbia spathulata	spoon-leaf spurge	Recorded historically (1877) from the Lone Mt. (Catholic Cemetery) and the Presidio (Howell, et al., 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	Eurybia radulina	rough-leaved aster	[<u>Aster radulinus</u>] Recorded historically (1957) from Bayview Hills (Howell, et al., CCH). Reported from Bayview Hill, Duncan-Castro Open Space, and the Presidio (Inspiration Pt., Pygmy Forest, Tennessee Hollow).	h	р	Rhizomatous. Dry forest, oak/pine woodland, brushy slopes; Elevation: 100-1600 m.	5	Jul-Sep	no	Y/Y
AST	Euthamia occidentalis	western goldenrod	[<u>Solidago 0.</u>] 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	р	Rhizomatous. Marshes, stream-banks, meadows; Elevation: < 2300 m. WET: FACW	5	Jul-Nov	no	Y/Y
CHN	Extriplex californica	Cal. orache	[Atriplex c.; Amaranthaceae, pending] Recorded historically (1866) from Cliff House, Land's End (Pt. Lobos), and the Presidio (Ft. Point; Howell, <i>et al.</i> , CCH). Reported from Land's End and the Presidio (Crissy Field, Presidio Bluffs).	h	р	Sandy soils, coastal dunes, sea bluffs, scrub, salt marshes; Elevation: < 200 m. WET: FAC	3	Apr-Oct	no	Y/Y

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

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ^j /CA
MOR	Ficus pumila	creeping fig	Not included in Howell, et al. 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
СҮР	Eimbristylis miliacea	fimbry	Known historically (1868) from a single collection on Folsom Street (Howell, et al.); there are no SF records in CCH. There are no contemporary reports from SF.	g		Cespitose. Occurring in Cal. only as an agricultural or garden weed.	0	sum-fall	no	N/N
API	Foeniculum vulgare	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	n	Naturalized. Road-sides, disturbed sites; Elevation: < 1600 m.	67	May-Sep	no	N/N
ROS	Fragaria chiloensis	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	р	Rhizomatous, with stolons. Ocean beaches, coastal grassland; Elevation: < 200 m. WET: FACU	56	Feb-Nov	no	Y/Y
ROS	Fragaria vesca	woodland strawberry	[<i>E. californica</i> ; <i>F. crinita</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. crinita</i>).	h		Rhizomatous, with stolons. Generally partial shade in forest; Elevation: 15-2000 m. WET: UPL	24	Jan-Jul	no	Y/Y
RHM	Frangula californica ssp. californica	Cal. coffeeberry	[<u>Rhammus c</u> .] 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		Coastal-sage scrub, desert scrub, chaparral, forest, woodland; Elevation: < 2800 m.	48	May-Jul	CA	Y/Y
FNK	Frankenia palmeri	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	р	Lacking rhizome. Alkali flats, coastal marshes, dunes; Elevation: < 450 m. WET: FACW	0	May-Jul	no	Y/Y
FNK	Frankenia salina	alkali heath	[F. grandifolia] Recorded historically (1852) from the edge of San Francisco Bay from the Presidio to se. SF (Howell, et al., CCH). Reported from Heron's Head Park, Hunters Pt., Mission Bay, Pier 94, and the Presidio (Crissy Field, Presidio Bluffs).	ss		Matted. Salt marshes, alkali flats; Elevation: < 750 m. WET: FACW	6	Apr-Sep	no	Y/Y
OLE	Fraxinus latifolia	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		Canyons, stream-banks, woodland; Elevation: < 1700 m. WET: FACW	0	Apr-May	no	N/Y
IRI	Freesia laxa	scarlet kammetjie	Recorded historically (c. 1956) from the Richmond Dist. and the Sunset Dist. Reported from the Mission Dist.	gp	р	Ornamental; not naturalized.	2	Apr	no	N/N
MLV	Fremontodendron californicum	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		Chaparral, oak/pine woodland; Elevation: 180- 2320 m.	2	May-Jun	no	N/Y
LIL	Fritillaria affinis	coast checker lily	[E. Jancoolata_var. tristulis] 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, et al., 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		Bulb-forming. Oak or pine scrub, grassland; Elevation: < 1800 m. SERP: 2.0	17	Mar-Jun	no	Y/Y
LIL	<u>Fritillaria liliacea</u>	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	р	Bulb-forming. Heavy soil, open hills, fields near coast; Elevation: generally < 200 m. SERP: 1.8	0	Feb-Apr	CA	Y/Y
LIL	Fritillaria purdyi	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		Bulb-forming. Dry ridges, generally on serpentine; Elevation: 400-2100 m. SERP: 4.5	0	Mar-Jun	CA	Y/Y
ONA	Fuchsia magellanica	hardy fuchsia	Not included in Howell, et al. 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	n	Naturalized (sparingly). Riparian areas. WET: FACU	2	lsp-fall	no	N/N
PAP	Fumaria capreolata	white ramping fumitory	Not included in Howell, et al. and there are no historic SF records in CCH. Reported from throughout the city and the Presidio.	h	р	Naturalized. Disturbed places; Elevation: < 100 m.	58	Mar-Jun	no	N/N
PAP	Eumaria officinalis	common fumitory	Petals purple. Recorded historically (1918) from Golden Gate Park (Howell, et al., 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	а	Naturalized. Disturbed places; Elevation: < 1000 m.	8	Apr-Jul	no	N/N
PAP	Fumaria parviflora	small-flowered fumitory	Not included in Howell, et al. 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	а	Naturalized. Disturbed places; Elevation: < 1000 m.	26	Mar-May	no	N/N
PAP	Fumaria sp.	fumitory	Reported (to genus) from Golden Gate Hts. and Hawk Hill; needs id.	h	а	n/a	2	n/a	no	N/N

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AST	Gaillardia pulchella	firewheel Indian blanket	Not included in Howell, et al. and there are no SF records in CCH. Reported from Lone Mt. and Sutro Forest.	h	а	Waif or garden escape; not naturalized. WET: FACU	2	sum-efall	no	N/N
AST	<u>Galinsoga parviflora</u> var. parviflora	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	а	Naturalized. Moist soil, disturbed ground; Elevation: generally <= 1000 m. WET: UPL	0	Jan-Dec	no	N/N
RUB	<u>Galium aparine</u>	annual bedstraw	[Incl. <u>C. spurium</u> , 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	а	Climbing or prostrate. Grassy, more-or-less shady places; Elevation: 30-1500 m. WET: FACU	60	Mar-Jul	no	Y/Y
RUB	<u>Galium californicum</u> var. californicum	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	р	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	Galium murale	tiny bedstraw	Not included in Howell, et al. 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	Galium muricatum	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	р	Shady, damp conifer or mixed forest; Elevation: 50-1100 m.	0	May-Oct	no	Y/Y
RUB	<u>Galium nuttallii</u> 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, et al., 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 G.n. ssp. n. or G. porrigens var. p.	h	р	Sprawling, woody. Chaparral; Elevation: 3-500 m.	9	Mar-Jun	no	Y/Y
RUB	Galium porrigens var. porrigens	twining bedstraw	Recorded historically (1912) from Laurel Hill Cemetery and Mt. Davidson (CCH); not included in Howell, et al. 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	р	Among shrubs in chaparral, forest; Elevation: 15-2130 m.	12	Mar-Apr	no	Υ/Υ
RUB	Galium sp.	bedstraw	Reported (to genus) from Brotherhood Way, Lake Merced; needs id.	h-s	a-p		2	n/a	no	n/a
RUB	Galium trifidum var. columbinum	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	р	Sprawling. Wet places, yellow-pine forest; Elevation: < 3030 m. WET: FACW	0	Jun-Jul	no	Y/Y
RUB	Galium trifidum var. subbiflorum	three-petal bedstraw	[G. tinctorium yar.s.] Recorded historically (c. 1955) from Lake Merced and the Presidio (Mountain Lake; Howell, et al., 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 G.t. var. columbinum; needs id.	h	р	Tufted or matted. Montane meadows, lake margins; Elevation: 1700-3200 m. WET: FACW	0	Jun-Jul	no	N/Y
RUB	Galium triflorum	fragrant bedstraw	Known from a single 1900 collection from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1900.	h	а	Damp, shady forest; Elevation: 10-3000 m. WET: FACU	0	Jun-Aug	no	Y/Y
AST	Gamochaeta ustulata	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 <u>Graphalium purpureum</u> , 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 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), Rob Hill, sw. dunes, Washington/Armatury Housing, WWII Memorial).	h	a,b, p	Dunes, bluffs, fields, disturbed sites; Elevation: < 650 m.	23	Apr-Jul	no	Y/Y
GAR	Garrya elliptica	silk-tassel tree	Recorded historically (1891) from Sunset Hts. and the Presidio (Ft. Point; Howell, et al.); 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	Gastridium phleoides	eastern nit-grass	Recorded historically (as <u>G. ventricosum</u> , a taxon not occurring in Cal. (JFP, 2021); 1865) from SF (Howell, et al.); 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	Gaultheria shallon	common salal	Recorded historically (1895) from Mt. Davidson San Miguel Hills, and Stanford Hts. (Howell, et al., 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	Υ/Υ

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ /CA
AST	Gazania linearis	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	р	Naturalized. Cespitose. Escape from cultivation in coastal areas, disturbed areas; Elevation: < 1350 m.	5	Jan-Dec	no	N/N
FAB	Genista monspessulana	French broom	[Cytisus monspessulanus] 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, et al., 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	Gentiana affinis 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	р	Meadows, shrubby places; Elevation: < 2300 m. WET: FACU	0	Jul-Sep	CA	Y/Y
GER	<u>Geranium carolinianum</u>	Carolina crane's-bill	Recorded historically (c. 1900) from SF although Howell, et al. 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	Geranium core-core	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	р	Naturalized. Disturbed sites; Elevation: < 200 m.	1	Mar-Oct	no	N/N
GER	Geranium dissectum	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	а	Naturalized. Open, disturbed sites; Elevation: < 1300 m.	59	Mar-Jul	no	N/N
GER	<u>Geranium molle</u>	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	а	Naturalized. Open to shaded sites, disturbed ground; Elevation: < 500 m.	39	Feb-Aug	no	N/N
GER	Geranium palmatum	Canary Is. crane's-bill	[G. anemonifolium] Recorded historically (c. 1955) from Golden Gate Park (Howell, et al.); there are no historic SF records in CCH. Reported from the Western Addition and the Presidio (Res. Cultural Plantation).	h	р	Urban weed. Open to shaded sites; Elevation: < 200 m.	1	Jun	no	N/N
GER	Geranium purpureum	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	Geranium pusillum	small-flowered crane's-bill	Not included in Howell, et al. 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	Geranium retrorsum	New Zealand geranium	Not included in Howell, et al. 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	р	Not in Cal.	5	May-Jun	no	N/N
GER	Geranium reuteri	giant Canary Is. crane's-bill	[G. canariense] Not included in Howell, et al. and there are no SF records in CCH. Reported from Golden Gate Park, Interior Greenbelt and Sutro Forest.	h	р	Ornamental; not naturalized.	3	lsp-esum	no	N/N
GER	<u>Geranium robertianum</u>	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	Geranium rotundifolium	round-leaved geranium	Not included in Howell, et al. and there are no historic SF records in CCH. Reported from Brotherhood Way and Golden Gate Park.	h	а	Naturalized. Open, disturbed sites; Elevation: < 200 m.	2	May	no	N/N
GER	Geranium 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	<u>Gilia capitata ssp. chamissonis</u>	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, et al., 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: -/-/IB.1	h	а	With skunk-like odor. Coastal sand-hills; Elevation: < 185 m.	18	Apr-Jul	BA	¥/¥
PLM	<u>Gilia clivorum</u>	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	Gilia millefoliata	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	Υ/Υ
CAM	Githopsis specularioides	common bluecup	Recorded historically (1888) from SF (Howell, et al.); 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

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁶	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT/ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ /CA
AST	Glebionis coronaria	garland daisy	[Chrysanthemum coronarium] 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	Glebionis segetum	corn daisy	[Chrysanthemum s.] 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	<u>Glyceria leptostachya</u>	slender-spiked manna-grass	[G. davyi] 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	р	Rhizomatous. Freshwater marshes, lakes; Elevation: < 800 m.	1	May-Jun	no	Y/Y
POA	Glyceria ^x occidentalis	western manna-grass	[G. occidentalis. Possible hybrid between G. leptostachya and G. fluitans.] Not included in Howell, et al. and there are no SF records in CCH. Reported from McLaren Park.	g	р	Naturalized. Rhizomatous, often forming floating mats. Freshwater marshes, ponds and steams; Elevation: < 1300 m. WET: OBL	1	Jun-Aug	no	N/N
AST	Gnaphalium palustre	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	Gnaphalium 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	Grevillea rosmarinifolia	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	Grindelia camporum	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 G. hirsutula); needs id.	h	р	Sandy or saline bottomland, road-sides; Elevation: < 1400 m. WET: FACW. SERP: 1.8	1	May-Nov	CA	Y/Y
AST	Grindelia ciliata	Spanish gold	[Haplopappus ciliatus] Recorded historically (c. 1955) from as a waif along the SF waterfront (Howell, et al., CCH). There are no contemporary reports from SF.	h	р	Waif or garden escape; not naturalized. WET: FACU	0	May-Nov	no	N/N
AST	<u>Grindelia hirsutula</u>	hairy gumplant	[incl. G.h. vars. maritima and hirsutula; <u>G. humilis</u> ; <u>G. maritima</u> ; <u>G.m. forma anomala</u> ; G. rubricaulis var. confertum; G.r. var. maritima]. 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 G.h. var. maritima) -/-/3.2	h		Sandy, clay, or serpentine slopes or road- sides; Elevation: < 1700 m. WET: FACW. SERP: 1.4	24	Jun-Sep	CA	¥/¥
AST	Grindelia sp.	gumplant	Reported (to genus) from O'Shaughnessy Hollow; needs id.	h-ss	a-p	n/a	1	n/a	no	n/a
AST	Grindelia stricta 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, Ligget St. Housing, Presidio Bluffs, Rob Hill), the Sunset Dist., Twin Peaks, and Yosemite Slough.	ss	p	n/a	15	n/a	no	?/Y
AST	Grindelia stricta var. angustifolia	marsh gumplant	Recorded historically (1837) from "SF" (CCH); not included in Howell, <i>et al</i> . Reported from Heron's Head Park, Hunters Pt., Mission Cr. Park, Pier 94, the Presidio (Crissy Field, Ligget St. Housing), Yerba Buena Is., and Yosemite Slough.	ss	р	Tidal wetlands; Elevation: < 10 m. WET: FACW	8	May-Dec	CA	Y/Y
AST	Grindelia stricta var. platyphylla	Oregon gumplant	[G. robusta var. p.; <u>G. arenicola var. pachuphylla</u>] 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	р	Coastal bluffs, dunes; Elevation: < 300 m. WET: FACW	3	Jan-Dec	no	?/Y
COR	Griselinia sp.	griselinia	Not included in Howell, et al. and there are no SF records in CCH. Reported (to genus) from Mountain Lake. Possibly G. littoralis; needs id.	s-t	р	Ornamental; not naturalized.	1	n/a	no	N/N
AST	Guizotia abyssinica	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	Hainardia cylindrica	thin-tail barb-grass	[Monerma c.] 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	Hakea drupacea	sweet hakea	[H. suaveolens] 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	Haloragis erecta	erect seaberry	Recorded historically (c. 1955) from Golden Gate Park (Howell, et al., CCH). Reported from Golden Gate Park.	s	р	Waif or garden escape; not naturalized. WET: FAC	1	Sep	no	N/N
PTG	Hebe speciosa	showy hebe	[<i>Veronica speciosa</i> , pending] Previously included in the Scrophulariaceae. Recorded historically (1952) from Golden Gate Park (Howell, <i>et al.</i>); 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	Hebe ^x franciscana	hebe	[<u>Veronica * f</u> ., 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	Hedera canariensis	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	р	Naturalized. Woody vine. Woodland, chaparral, disturbed areas; Elevation: < 916 m.	42	Aug-Nov	no	N/N

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ARL	<u>Hedera helix</u>	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. canariensis</i> . INVASIVE STATUS: H/2/-/-	s-v	р	Naturalized. Woodland, open, disturbed areas; Elevation: < 1280 m. WET: FACU	71	Aug-Nov	no	N/N
ARL	Hedera 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	р	n/a	8	Aug-Nov	no	N/N
AST	Hedypnois rhagadioloides	Crete weed	[<u>H. cretica</u>] 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	Helenium bigelovii	Bigelow's sneezeweed	Known from a single 1868 collection from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1868.	h	р	Wet meadows, marshes, bogs, fens, stream- banks, lake margins; Elevation: < 3400 m. WET: FACW. SERP: 2.9	0	Jun-Sep	no	Y/Y
AST	Helenium puherulum	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	<u>Helianthella castanea</u>	Diablo helianthella	Recorded historically (1892) from Bayview Hills, Oceanview, and se. SF (Howell, et al., CCH). Extirpated; last collected in 1920. Endemic to SF Bay Area. SF is the type locality (holotype of <i>H. cannonae</i>). RARITY STATUS: -/-/IB.2	h	р	Open, grassy sites; Elevation: 200-1300 m.	0	Mar-Jun	BA	Y/Y
AST	Helianthus annuus	common sunflower	Recorded historically (1957) from Islais Cr. and Telegraph Hill (Howell, et al., 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	Helichrysum petiolare	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	р	Naturalized. Straggling or trailing. Escape from cultivation into coastal scrub, forest; Elevation: < 200 m.	3	Jul-Aug	no	N/N
BOR	Heliotropium curassavicum var. oculatum	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	р	Moist to dry, saline to alkaline soils, generally near water; Elevation: < 2250 m. WET: FACU	2	Feb-Oct	no	Y/Y
BOR	Heliotropium europaeum	European heliotrope	Not included in Howell, et al. 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	а	Naturalized. Open, often disturbed sites; Elevation: < 1400 m.	1	May-Aug	no	N/N
AST	Helminthotheca echioides	bristly ox-tongue	[<u>Picris e</u> .] 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	Hemizonella minima	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	Hemizonia congesta ssp. congesta	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	Hemizonia congesta ssp. luzulifolia	hayfield tarweed	[Hemizonia luzulaefolia] Recorded historically (c. 1890) from "SF", Potrero Hills and se. SF (Howell, et al., CCH). Reported from the Presidio (Doyle Dr. Natural Area, Presidio Hills).	h	а	Disturbed, open, or grassy sites, often clayey soils, serpentine; Elevation: < 1000 m.	2	Mar-Dec	no	Y/Y
AST	Hemizonia sp.	tarweed	Reported (to genus) from Pier 94; needs id.	h	а	n/a	1	n/a	no	n/a
API	Heracleum maximum	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	р	Moist places, wooded or open; Elevation: < 2900 m. WET: FACW	33	Apr-Jul	no	Y/Y
AST	Hesperevax sparsiflora var. brevifolia	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	Hesperevax sparsiflora var. sparsiflora	few-flowered evax	[<u>Evax s</u> .] 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	а	Open, clay and/or rocky, generally serpentine soil; Elevation: 10-1000 m. WET: FACU. SERP: 1.8	3	Mar-Jun	no	Y/Y
URT	Hesperocnide tenella	slender westem-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

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME [¢]	NOTES ^a Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ⁸	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ / CA
CUP	Hesperocyparis macrocarpa	Monterey cypress	[<u>Cupressus m</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) $-/-/1B.2$. INVASIVE STATUS: $-/3/-/-$	t	ep	Closed-cone-pine/cypress forests; Elevation: < 50 m in native range.	72	n/a	CA	N/Y
CUP	Hesperocyparis stephensonii	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: —/—/1B.1	t	ep	Chaparral; Elevation: 910-1800 m.	1	n/a	no	N/Y
LIN	Hesperolinon californicum	Cal. western flax	[Linum c. var. confertum] Not included in Howell, et al. 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	Hesperolinon congestum	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: FT/ST/1B.1	h	a	Serpentine, grassland; Elevation: < 200 m. SERP: 6	3	Apr-Jul	BA	Y/Y
LIN	Hesperolinon spergulinum	slender western flax	[Linum s.] Known from a single 1882 collection from "SF" (CCH); not included in Howell, et al. 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	Hesperomecon linearis (r)	narrow-leaf queen poppy	[Meconella 1.] 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, et al., CCH). Extirpated; last collected in 1957. Reintroduced at the Presidio (Lobos Cr. Valley). SF is the type locality (possible isosyntype of <i>H. platystemon</i>).	h	а	Grassy areas, washes; Elevation: < 1000 m.	1	Mar-Jun	no	Y/Y
PON	Heteranthera dubia	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: —/—/2B.2	h	р	Generally submersed, emergent, or on wet ground. Still or moving water; Elevation: < 1500 m. WET: OBL	0	Jul-Oct	no	Υ/Υ
CAM	<u>Heterocodon rariflorum</u>	western pear flower	Known from a single 1896 collection from the Presidio (Howell, et al.); there are no SF records in CCH. Extirpated; last collected in 1896.	h	а	Vernally wet places; Elevation: < 2500 m. WET: FACW	0	May-Jul	no	Y/Y
ROS	Heteromeles arbutifolia	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	Heterotheca grandiflora	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	Heterotheca sessiliflora ssp. bolanderi	sessile-flower golden-aster	[<u>Chrysopsis bolanderi</u>] 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	р	Dunes, headlands, grassy coastal slopes; Elevation: < 200 m.	3	Jun-Sep	no	Y/Y
AST	Heterotheca sessiliflora ssp. echioides	bristly golden-aster	[H. echioides] Recorded historically (1891) from Bayview Hills, Mission Bay, Mt. Davidson, Oceanview, San Miguel Hills, Visitación Valley (CCH); not recorded in Howell, et al. Extirpated; last collected in 1957.	h	р	Grassland, scrub, woodland, open forest, disturbed sites; Elevation: < 2100 m.	0	Mar-Dec	no	Y/Y
SAX	Heuchera micrantha	Cal. alumroot	[<u>H.m. var. lartwegii</u>] 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	Hieracium albiflorum	white hawkweed	Not included in Howell, et al. 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	р	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	р	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	Hirschfeldia incana	summer mustard	[<u>Brassica geniculata</u>] 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, et al., CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: M/2/—/—	h	a-p	Naturalized. Disturbed areas; Elevation: < 2000 m.	35	Apr-Oct	no	N/N
FAB	Hoita orbicularis	creeping leather root	[Psoralea o.] Known from a single 1882 collection from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1882.	h	р	Meadows, stream-sides, moist hillsides; Elevation: < 2250 m. WET: OBL	0	Apr-Aug	CA	Y/Y
POA	Holcus lanatus	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: M/2/-/-	g	р	Naturalized. Moist sites, road-banks, cultivated fields, meadows; Elevation: < 2400 m. WET: FAC	44	Jun-Aug	no	N/N

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ROS	Holodiscus discolor var. discolor	cream-bush oceanspray	[Hd, var. francisanus] Recorded historically (1852) from Bayview Hills, Brotherhood Way, Laguna Honda Valley, Lake Merced, McLaren Park, Mt. Sutro, San Miguel Hills, and Twin Peaks (Howell, et al., 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	Hordeum brachyantherum_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	р	WET: FACW	16	May-Aug	no	Y/Y
РОА	Hordeum brachyantherum ssp. brachyantherum	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	р	Meadows, pastures, stream-banks; Elevation: < 3400 m. WET: FACW	2	May-Aug	no	Y/Y
POA	Hordeum brachyantherum ssp. californicum	meadow barley	Recorded historically (1956) from San Miguel Hills (CCH); not included in Howell, et al. 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	р	Meadows, pastures, stream-banks; Elevation: < 3400 m. WET: FACW. SERP: 3.1	0	May-Aug	no	Y/Y
POA	Hordeum depressum	alkali barley	Not included in Howell, et al. and there are no SF records in CCH. Recorded from margins of SF Bay; extirpated here.	g	а	Moist sites, vernal pools, generally alkaline soils; Elevation: < 2200 m. WET: FACW	0	Apr-May	no	Y/Y
POA	Hordeum jubatum ssp. jubatum	foxtail barley	[H_j, var. caespitosum] Recorded historically (c. 1955) from Islais Cr. where it was presumably introduced (Howell, et al.); 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	Hordeum marinum ssp. gussoneanum	seaside barley	[<i>H. genicultum:</i> <u>H. hystrix</u>] 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	а	Naturalized. Dry to moist, disturbed sites; Elevation: < 1800 m. WET: FAC	5	Apr-Jun	no	N/N
POA	Hordeum murinum ssp. glaucum	mouse barley	[<u><i>H. glaucum</i></u>] 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	а	Naturalized. Summer annual. Moist, generally disturbed sites; Elevation: -60-1900 m. WET: FACU	2	Mar-Jul	no	N/N
POA	Hordeum murinum ssp. leporinum	mouse barley	[<u><i>H. leporinum</i></u>] 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	Hordeum murinum ssp. murinum	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	Hordeum sp.	foxtail	Reported (to genus) from O'Shaughnessy Hollow; needs id.	g	a-p	n/a	1	n/a	no	n/a
POA	<u>Hordeum vulgare</u>	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	Horkelia californica var.	Cal. horkelia	[<u>Potentilla c.</u>] 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 Visitación Valley (Howell, et al., CCH). Reported (as full species) from throughout the city and the Presidio; needs id. Presumably H.c. var. c. based on the number of CCH records from San Mateo and Marin cos.	h	р	Clumping, Grassy openings, edges of coastal scrub, especially northern slopes; Elevation: < 400 m.	20	Mar-Sep	CA	Y/Y
ROS	Horkelia cuneata var. sericea (r)	Kellogg's horkelia	[<u>Potentilla lindleyi</u> var. s.; H.c. ssp. s.] 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: -/-/1B.1	h	р	Old dunes, coastal sand-hills; Elevation: generally < 200 m.	3	Apr-Sep	CA	Υ/Υ
FAB	Hosackia gracilis	harlequin lotus	[<u>Lotus formosissimus</u>] Known from a single 1892 collection from Oceanview (Howell, et al., 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	Hyacinthoides hispanica	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	р	Ornamental; not naturalized.	4	sp	no	N/N
LIL	Hyacinthus orientalis	garden hyacinth	Recorded historically (1954) from the Presidio (Lobos Cr. Valley; Howell, et al.); there are no SF records in CCH. Reported from the Presidio (Lobos Cr. Valley).	h	р	Waif or garden escape; not naturalized.	1	sp	no	N/N

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ARL	Hydrocotyle moschata	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	р	Agricultural or garden weed; not naturalized.	5	sp-sum	no	N/N
ARL	Hydrocotyle ranunculoides	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	р	Fleshy, floating or creeping. Lake margins, ponds, slow-moving streams; Elevation: < 1500 m. WET: OBL	2	Mar-Aug	no	Y/Y
ARL	<u>Hydrocotyle verticillata</u>	whorled marsh-pennywort	[incl. <i>H.z.</i> , var. <i>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	р	Creeping, Lake margins, ponds, slow-moving streams, canals, seeps, springs, marshes; Elevation: < 1400 m. WET: OBL	1	Apr-Sep	no	Y/Y
HPR	Hypericum anagalloides	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	Hypericum calycinum	Aaron's beard St. John's-wort	Recorded historically (1951) from Golden Gate Park and Twin Peaks (Howell, et al., 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	Hypericum canariense	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	<u>Hypericum perforatum</u> ssp. perforatum	Klammath weed	Recorded historically (1956, as full species) from the Embarcadero and Laguna Honda Valley (Howell, et al., CCH). Reported from McLaren Park and the Presidio (Simond's Loop). INVASIVE STATUS: L/—/NW,C/—	h	р	Naturalized. Open, disturbed areas in many plant communities; Elevation: 6-1980 m. WET: FACU	2	May-Sep	no	N/N
HPR	Hypericum scouleri	Scouler's St. John's-wort	Known from a single report (c. 1890) from Lakeview/Ashton Mini Park (Howell, et al.); there are no SF records in CCH. Extirpated; last collected in 1890.	h	р	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	Hypochaeris glabra	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	а	Naturalized. Disturbed areas, grassland, open woodland; Elevation: < 1630 m.	36	Mar-Jun	no	N/N
AST	Hypochaeris radicata	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 (Ft. 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	<u>Iberis umbellata</u>	globe candytuft	Recorded historically (1950) from Brotherhood Way and Golden Gate Park (Howell, et al., CCH). There are no contemporary reports from SF.	h	а	Waif or garden escape; not naturalized.	0	Jun-Sep	no	N/N
AQF	Ilex aquifolium	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	Impatiens balfourii	Kashmir balsam	Not included in Howell, et al. and there are no SF records in CCH. Reported from Golden Gate Park (Stow Lake).	h	р	Naturalized. Shores, streambanks; Elevation: < 1000 m.	1	Apr-Sep	no	N/N
ALL	Ipheion uniflorum	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	р	Naturalized. Bulb-forming. Disturbed places; Elevation: generally < 300 m.	2	Feb-Mar	no	N/N
CNV	Ipomoea indica	ocean-blue morning-glory	[<u>L. mutabilis</u>] Reported historically (c. 1957) from the Presidio (Lobos Cr. Valley; Howell, et al.); 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	р	Urban weed. Twining, trailing, Disturbed places; Elevation: +- 50 m. WET: FAC	6	lsp-fall	no	N/N
IRI	Iris douglasiana.	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, et al., CCH). Reported from throughout the city and the Presidio.	gp	р	Rhizomatous. Grassy places, especially near coast; Elevation: generally < 200 m.	46	May-Jul	no	Y/Y
IRI	Iris foetidissima	stinking iris	Not included in Howell, et al. and there are no SF records in CCH. Reported from Sutro Forest.	h	р	Naturalized. Rhizomatous. Damp areas in light shade; Elevation: 300-1400 m.	1	Jun-Jul	no	N/N
IRI	Iris germanica	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	р	Naturalized. Rhizomatous. Roadsides, old homesteads in open or light shade; Elevation: 100-1000 m.	4	Apr-May	no	N/N

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Uinderlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁶	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM [°]	DURATION ^f	HABIT / ECOLOGY ⁸	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ / CA
IRI	<u>Iris longipetala</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	Iris macrosiphon	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	р	Rhizomatous. Common. Open to partly shaded slopes in oak or pine woodland; Elevation: generally < 1000 m.	0	Mar-May	no	Y/Y
IRI	Iris missouriensis	western blue flag	Recorded historically (1881) from Mission Hills, Potrero Hills, and Twin Peaks (CCH); not included in Howell, et al. 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	р	Rhizomatous. Vernally moist grassy or rocky areas; Elevation: 900-3400 m. WET: FACW	0	May-Jul	CA	Y/Y
IRI	Iris pseudacorus	yellow water iris	Not included in Howell, et al. 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	р	Naturalized. Rhizomatous. Pond margins, estuaries; Elevation: 100-1400 m. WET: OBL	5	Apr-Jun	no	N/N
IRI	Iris ^x hybrida	bearded iris	Not included in Howell, et al. and there are no SF records in CCH. Reported from Duncan-Castro and Yerba Buena Is.	gp	р	Ornamental; not naturalized.	2	sp	no	N/N
IRI	Iris xiphium	Dutch iris	Not included in Howell, et al. and there are no SF records in CCH. Reported from Yerba Buena Is.	gp	р	Ornamental; not naturalized.	1	sp	no	N/N
AST	Isocoma menziesii var. vernonioides	coastal goldenbush	[Haplopappus venetus var. v.] Known from two 1891 collections at Ft. Mason (Black Pt.; CCH); not included in Howell, et al. Reported (as full species) from Golden Gate Hts. (CCH). This represents the northernmost station for the taxon.	s	р	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	Isoetes nuttallii	Nuttall's quillwort	Known from two 1938 collections at the Presidio (near the Golf Course; Howell, et al., CCH). Reported from the Presidio (Doyle Dr. Natural Area, Tennessee Hollow).	g	р	Seasonally wet soil, temporary streams; Elevation: generally < 1500(2760) m. WET: OBL	2	n/a	no	Y/Y
ISO	Isoetes orcuttii	Orcutt's quillwort	Not included in Howell, et al. 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	р	Vernal pools; Elevation: < 1700 m. WET: OBL	1	n/a	no	?/Y
СҮР	Isolepis carinata	keeled bulrush	[<u>Scirpus koilalepis</u>] Known from a single report (c. 1890) from "SF" (Howell, et al.); 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
СҮР	Isolepis cernua	low bulrush	[Scirpus cernuus var./ssp. californicus] 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, et al., 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	Iva axillaris	povertyweed	Recorded historically (1868) from near City College and se. SF (Howell, et al., CCH). Extirpated; last collected in 1930. SF is the northernmost station for the species.	h	р	Rhizomatous. Seasonally wet, saline habitats, road-sides; Elevation: < 2500 m. WET: FACU	0	Apr-Oct	no	Y/Y
IRI	Ixia maculata	spotted African corn-lily	Recorded historically (c. 1957) from the Sunset Dist. (Howell, et al.); there are no SF records in CCH. There are no contemporary reports from SF.	gp	р	Ornamental; not naturalized.	0	Apr	no	N/N
AST	Iaumea carnosa	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	р	From stolons and slender rhizomes. Coastal salt marshes, bases of sea cliffs; Elevation: < 70 m. WET: OBL	10	Apr-Dec	no	Y/Y
JUG	Juglans hindsii	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	Juncus acuminatus	sharp-fruited rush	Known from a single 1865 collection from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1865.	g	р	Cespitose, with short rhizomes. Shores, swales; Elevation: generally < 1300 m. WET: OBL	0	Jul-Aug	no	Y/Y
JUN	Juncus balticus ssp. ater	Baltic rush	Recorded historically (1927) from SF (CCH); also recorded (as full species) from Lake Merced, McLaren Park, and San Miguel Hills (Howell, et al.) 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	р	Rhizomatous. Moist to more-or-less dry sites; Elevation: generally < 2200 m. WET: FACW	12	Jul-Nov	no	Y/Y
JUN	Juncus bufonius 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

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME [¢]	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ⁸	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ^j / CA
JUN	Juncus bufonius var. bufonius	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	а	Damp sunny ground, generally disturbed; Elevation: < 3200 m. WET: FACW	13	May-Sep	no	Y/Y
JUN	Juncus bufonius var. congestus	common toad-rush	[J. ranarius, pending; <u>Lb. var. fasciculatus</u>] Recorded historically (1917) from Bayview Hills, Laguna Honda Valley, Lake Merced, and the Presidio (Mountain Lake; Howell, et al., 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	Juncus capitatus	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	Juncus effusus ssp. pacificus	Pacific rush	Recorded historically (1852) from "SF" and Twin Peaks (CCH); not included in Howell, et al. Extirpated; last collected in 1934.	g	р	Cespitose, with stout rhizomes. Seeps, shores, marshes, generally damp sunny ground; Elevation: < 2500 m. WET: FACW	0	Jun-Aug	no	Y/Y
JUN	<u>luncus falcatus</u> ssp. falcatus	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	р	Rhizomatous. Peatland, moist sandy coastal areas; Elevation: generally < 100 m. WET: FACW	8	Jun-Sep	no	Y/Y
JUN	Juncus hesperius	coast rush	[<i>Leffusus var. 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. effusius var. brunneus</i>).	g	р	Cespitose. Damp ground, bogs, shores, upper edges of salt marshes; Elevation: generally < 100 m.	24	Jun-Nov	no	Y/Y
JUN	<u>Iuncus kelloggii</u>	Kellogg's dwarf rush	Known from a single 1866 collection from near Jefferson Square (Howell, et al., 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	Juncus lescurii	San Francisco rush	[<i>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.</i>).	g	р	Rhizomatous. Salt or freshwater marshes, shores of creeks and lakes; Elevation: < 100 m. WET: FACW	25	Aug-Sep	no	Y/Y
JUN	<u>Iuncus mexicanus</u> (r)	Mexican rush	Known from a single collection (c. 1956) from the Embarcadero (Howell, et al.); 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	р	Rhizomatous. Coast to montane meadows; Elevation: < 3800 m. WET: FACW	5	Aug-Nov	no	Y/Y
JUN	Iuncus occidentalis	western rush	[J. tenuis var. congestus] Recorded historically (1878) from Bayview Hills, Hunters Pt., McLaren Park, Mt. Davidson, the Presidio, and San Miguel Hills (Howell, et al., 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	р	Cespitose. Moist generally sunny areas; Elevation: < 2400 m. WET: FACW	13	May-Sep	no	Y/Y
JUN	<u>Iuncus patens</u>	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	р	Densely cespitose. Marshy places, creeks, seeps; Elevation: < 1600 m. WET: FACW	31	Jun-Sep	no	Y/Y
JUN	<i>luncus 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, et al., 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. paniculatus and phaeocephalus have been recorded historically in SF. SF is the type locality (syntype of J.p., J.p. var. glomeratus).	g	р	WET: FACW	17	Apr-Jun	no	Y/Y
JUN	Juncus phaeocephalus var. paniculatus	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	р	Cespitose. Wet places, coastal, inland; Elevation: < 2200 m. WET: FACW	0	Jun-Sep	no	Y/Y
JUN	Juncus phaeocephalus var. phaeocephalus	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	р	Rhizomatous. Coastal meadows, dune hollows, marsh edges; Elevation: generally < 200 m. WET: FACW	0	Apr-Jun	no	Y/Y
JUN	Juncus 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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JUN	<u>Iuncus tenuis</u>	common path rush	Recorded historically (1974) from Golden Gate Park (Stow Lake) where it was presumed to have been introduced (Howell, et al., 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	р	Cespitose. Damp places; Elevation: generally < 1500 m. WET: FACW	2	Jun-Sep	no	?/Y
JUN	Iuncus xiphioides	iris-leaved rush	Recorded historically (c. 1890) from Brotherhood Way (Howell, et al.); 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 J.x. var. littoralis). Voucher specimen needed.	g	р	Rhizomatous, creeping. Wet places; Elevation: < 2100 m. WET: OBL	9	Jul-Oct	no	Y/Y
PTG	Kickxia elatine	sharp-leaved fluellin	Not included in Howell, et al. and there are no SF records in CCH. Reported from McLaren Park, the Presidio (Lobos Cr. Valley, Presidio Hills, WWII Memorial).	h	р	Naturalized. Disturbed, open places; Elevation: < 1000 m. WET: UPL	4	Apr-Oct	no	N/N
ASP	Kniphofia uwaria	red-hot poker	Previously included in the Liliaceae. Recorded historically (c. 1957) from Lake Merced and San Miguel Hills (Howell, et al.); 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, Ligget St. Housing, Lobos Cr. Valley, Main Post, Presidio Hills, Tennessee Hollow); expected elsewhere. INVASIVE STATUS: $W/-/-/-$	h	р	Naturalized. Rhizomatous. Marsh, creek margins, chaparral, canyons, disturbed places, often sandy; Elevation: < 100 m.	16	Apr-Jul	no	N/N
CHN	<u>Kochia scoparia</u> ssp.	red sage	[Bassia s., pending; K.s. ssp. culta; Amaranthaceae, pending] Recorded historically (1956, as full species) from Mission Bay (Howell, et al., CCH). Presumably K.s. ssp. scoparia. There are no contemporary reports from SF. INVASIVE STATUS: $L/-/-/-$	h	а	Naturalized. Disturbed places, fields, road- sides; Elevation: < 2300 m.	0	Aug-Nov	no	N/N
POA	Koeleria gerardii	annual June-grass	[K. phleoides] Recorded historically (c. 1955) from Bayview Hills and McLaren Park (Howell, et al., CCH). Has not been reported in SF in recent years.	g	а	Naturalized. Open, disturbed sites; Elevation: < 600 m.	0	Apr-Jul	no	N/N
POA	Koeleria macrantha	crested June-grass	[<i>K. cristata; <u>K. gracilis</u></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	р	Cespitose. Dry, open sites, clay to rocky soils, shrubland, woodland, conifer forest; Elevation: < 3840 m.	24	May-Jul	no	Y/Y
СҮР	Kyllinga brevifolia	short-leaf spike-sedge	[<u>Cuperus brevifolius</u> , pending] Recorded historically (1925) from Golden Gate Park (Howell, et al., CCH). There are no contemporary reports from SF.	g	р	Naturalized. Rhizomatous. Pond edges, moist disturbed areas; Elevation: < 300 m. WET: FACW	0	May-Sep	no	N/N
AST	Lactuca saligna	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	а	Naturalized. Road-sides, grassland; Elevation: < 750 m. WET: UPL	4	Jul-Nov	no	N/N
AST	Lactuca serriola	common prickly lettuce	[incl. Ls. var. integm] 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, et al., CCH). Reported from throughout the city and the Presidio.	h	а	Naturalized. Disturbed places; Elevation: < 2700 m. WET: FACU	19	May-Oct	no	N/N
AST	Lactuca sp.	prickly lettuce	Reported (to genus) from Ft. Funston and Twin Peaks; needs id.	h	а	n/a	2	n/a	no	N/N
AST	Lactuca virosa	bitter lettuce	Recorded historically (1955) from Lake Merced (Howell, et al., 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	Lagophylla ramosissima	common hareleaf	Known from a single 1868 collection from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1868.	h	а	Grassland, openings in scrub, woodland, forest; Elevation: < 1800 m.	0	Apr-Oct	no	Y/Y
POA	Lagurus ovatus	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	Lamarckia aurea	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	Lamium amplexicaule	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	Lamium purpureum	purple dead-nettle	Not included in Howell, et al. 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	а	Naturalized. Disturbed sites, meadows; Elevation: < 300 m.	7	Apr-Sep	no	N/N
AIZ	Lampranthus sp.	redflush iceplant	Not included in Howell, et al. and there are no SF records in CCH. Reported (to genus) from Sutro Baths; needs id.	h	р	Ornamental, possibly naturalized., Succulent ground cover.	1	n/a	no	N/N
VRB	Lantana camara	lantana	Not included in Howell, et al. and there are no SF records in CCH. Reported Ft. Mason. INVASIVE STATUS: $W/-/-/-$	s	р	Waif or garden escape. Prostrate to erect. Disturbed slopes, abandoned fields; Elevation: < 200 m. WET: FACU	1	Jan-Dec	no	N/N

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Linderlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁶	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM [®]	DURATION ^f	HABIT / ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ /CA
VRB	Lantana montevidensis	trailing lantana	Not included in Howell, et al. and there are no SF records in CCH. Reported naturalized at Starr King.	s	•	Waif or garden escape. Prostrate to erect. Disturbed slopes, abandoned fields; Elevation: < 200 m.	1	Jan-Dec	no	N/N
AST	Lapsana communis	nipplewort	Recorded historically (1956) from Golden Gate Park and Stern Grove (Howell, et al., 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	Larix kaempferi	Japanese larch	[L leptolepis] Not included in Howell, et al. and there are no SF records in CCH. Reported from the Presidio (Mountain Lake).	t	р	Ornamental; not naturalized.	1	n/a	no	N/N
AST	Lasthenia californica ssp. californica	Cal. goldfields	[L. chrysostoma; <u>Baeria chrysostoma</u> ; <u>B.c.</u> , var. gracilis; <u>B. hirsutula</u>] 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, et al., 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	а	Grasslands, flats, slopes, sand, clay; Elevation: < 1500 m. WET: FACU	15	Feb-Jun	no	Y/Y
AST	Lasthenia californica ssp. macrantha	perennial goldfields	[<i>L.m.</i> ssp. <i>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: $-/-/1B.2$	h	а	Grassland, dunes along immediate coast; Elevation: < 500 m. WET: FACU	0	Jan-Nov	no	Y/Y
AST	<u>Lasthenia glabrata</u> ssp.	yellow-rayed goldfields	[L. glabrata] Recorded historically (1890, as full species) from Potrero Hills and Visitación Valley (Howell, et al., CCH). Extirpated; last collected in 1892. Presumably Lg. ssp. g.	h	а	WET: FACW	0	Feb-Jun	CA	Y/Y
AST	Lasthenia glabrata ssp. coulteri	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: $-/-/1B.1$	h	a	Saline places, vernal pools; Elevation: < 1000 m. WET: FACW	0	Apr-May	no	N/Y
AST	Lasthenia glabrata ssp. glabrata	yellow-rayed goldfields	Recorded historically (1868) from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1903.	h	а	Saline places, vernal pools; Elevation: < 550 m. WET: FACW	0	Feb-Jun	CA	Y/Y
AST	Lasthenia gracilis	needle goldfields	[<i>L. chryostoma</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	а	Grasslands, flats, slopes; Elevation: <1500 m.	0	Feb-Jun	no	Y/Y
AST	Lasthenia maritima	seaside goldfields	Not included in Howell, et al. 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	а	Seabird nesting, roosting areas, generally offshore rocks and islands; Elevation: < 100 m.	0	May-Jul	no	Y/Y
AST	Lasthenia microglossa	small rayed goldfields	[Baeria m.] Known from a single 1888 report from "SF" (possibly Mission Hills; Howell, et al.); there are no SF records in CCH. Extirpated; last collected in 1888.	h	а	Shaded slopes of woodland, chaparral, desert scrub; Elevation: < 1000 m.	0	Mar-May	CA	Y/Y
AST	Lasthenia minor	coastal goldfields	[Baeria m.; B. uliginosa]. Recorded historically (1878) from Brotherhood Way, Lake Merced, Nob Hill, the Presidio (Golf Course, Presidio Hills), and Visitación Valley (Howell, et al., CCH). Extirpated; last collected in 1963.	h	a	Grassland; Elevation: < 700 m. WET: FACW	0	Mar-Jun	no	Y/Y
FAB	Lathyrus jepsonii. y.ar. californicus	Cal. tule pea	Recorded historically (1956) from the Embarcadero where it was presumed to have been introduced (Howell, et al., 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	р	Climbing, Forest, open areas; Elevation: < 1500 m. WET: OBL	0	May-Jul	CA	Y/Y
FAB	Lathyrus latifolius	perennial sweet pea	Recorded historically (c. 1955) from Bayview Hills, Golden Gate Park, and Hunters Pt. (Howell, et al.); there are no SF records in CCH. Reported from Alcatraz Is, Bernal Hts. Park, Billy Goat Hill, Corona Hts., Ft. Mason, Glen Cym., 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	р	Naturalized. Disturbed areas, especially road- sides; Elevation: generally < 2000 m.	19	Apr-May	no	N/N
FAB	Lathyrus littoralis	silky beach pea	Recorded historically (1887) from Lake Merced and Sutro Hts. (Howell, et al., 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	р	Prostrate or ascending. Open coastal dunes; Elevation: < +- 5 m.	6	Apr-Jul	no	Y/Y
FAB	Lathyrus odoratus	sweet pea	Recorded historically (c. 1955) from Bayview Hills (Howell, et al.); there are no SF records in CCH. There are no contemporary reports from SF; to be expected.	h	а	Naturalized. Sprawling or climbing. Disturbed areas; Elevation: especially < 1000 m.	0	Apr-Jun	no	N/N
FAB	Lathyrus sp.	реа	Reported (to genus) from Bernal Hts. Park; needs id.	h	a-p	n/a	1	n/a	no	n/a
FAB	Lathyrus tingitanus	Tangier pea	Recorded historically (1955) from se. SF (Howell, et al.); there are no SF records in CCH. Reported from Corona Hts., near Islais Cr., and Yerba Buena Is.	h	а	Naturalized. Generally disturbed areas, especially coastal; Elevation: generally < 500 m.	3	Apr-Jul	no	N/N
FAB	Lathyrus vestitus var. ochropetalus	common Pacific pea	[Lz.ssp. bolanderi, 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, et al., CCH). Reported from the Presidio (Presidio Bluffs). Larval host plant for the Eastern and Western Tailed Blue and Orange Sulphuric butterflies.	h	р	Sprawling, Conifer or mixed forest; Elevation: generally < 150(400) m.	1	Feb-Jul	no	Y/Y
FAB	Lathyrus vestitus var. vestitus	hillside pea	[Lv. ssp. bolanderi, in part] Recorded historically (1895) from Lake Merced, Mt. Davidson, and the Presidio (CCH); not included in Howell, et al. Reported from throughout the city and the Presidio. Larval host plant for the Eastern and Western Tailed Blue and Orange Sulphuric butterflies.	h	р	Sprawling. Conifer forest in north to chaparral and oak woodland in south; Elevation: < 1500 m. SERP: 1.8	33	Feb-Jul	no	Y/Y

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	EN DEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ /CA
LAU	<u>Laurus nobilis</u>	sweet bay-laurel	Recorded historically (1957) from Golden Gate Park where it was a common volunteer (Howell, et al.).; 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	Lavandula stoechas	French lavender	Not included in Howell, et al. and there are no SF records in CCH. Reported from Glen Cyn., Golden Gate Park, and the Presidio (Lobos Cr. Valley).	s	р	Waif or garden escape; not naturalized.	3	sp	no	N/N
MLV	Lavatera trimestris	annual mallow	[Malva t ., pending] Recorded historically (1914) from Golden Gate Park (CCH); not included in Howell, et al. There are no contemporary reports from SF.	h	а	Waif or garden escape; not naturalized.	0	May-Jun	no	N/N
AST	Layia carnosa	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/1B.1	h	a	Coastal dunes; Elevation: < 70 m.	0	Mar-Jul	CA	Y/Y
AST	<u>Layia chrysanthemoides (</u> r)	smooth tidy-tips	Known from a single collection (c. 1860) from Visitación Valley, SF (Howell, et al., CCH). Extirpated; last collected in 1860. Reintroduced at Heron's Head Park and India Basin Shoreline Park.	h	а	Grassy or open heavy soil, sometimes more-or- less alkaline; Elevation: < 800 m. WET: FACW	2	Mar-Jun	CA	Y/Y
AST	Layia gaillardioides	woodland tidy-tips	Recorded historically (c. 1860) from Mission Hills and se. SF (Howell, et al., CCH). Extirpated; last collected in 1925.	h	а	Open or semi-shaded slopes, in sandy or clayey soil (including serpentine); Elevation: < 1300 m.	0	Apr-May	CA	Y/Y
AST	Layia hieracioides	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	а	Open, semi-shady, or disturbed sites, in light soil; Elevation: < 1200 m.	1	Apr-Jul	CA	Y/Y
AST	Layia platyglossa.	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, et al., CCH). Reported from Golden Gate Park, India Basin Shoreline Park, Laurel Hts., the Presidio (Doyle Dr. Natural Area, Ft. Scott, Inspiration Pt., Ligget St. Housing, Presidio Bluffs, Pygmy Forest, Tennessee Hollow, Washington/Armatury Housing, WWII Memorial), the Richmond Dist., the Sunset Dist., and Yerba Buena Is.; many of these occs. are presumably reintroductions.	h	а	Grasslands, clay, sand; Elevation: < 2000 m.	12	Feb-Jul	no	Y/Y
ARA	Lemna gibba	gibbous duckweed	Previously included in the Lemnaceae. Recorded historically (1893) from the Presidio (Lobos Cr. mouth, Mountain Lake; Howell, et al., CCH). Reported (to genus) from McLaren Park and the Presidio (Lobos Cr.)	h	р	Floating aquatic. Fresh or brackish water; Elevation: generally < 1500 m. WET: OBL	0	sum	no	Y/Y
ARA	Lemna minor	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	р	Floating aquatic. Freshwater; Elevation: < 2000 m. WET: OBL	3	Aug	no	Y/Y
ARA	Lemna minuta	dinky duckweed	[L_minima; L_minuscula] 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	р	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	р	n/a	2	n/a	no	n/a
ARA	Lemna trisulca	star duckweed	Previously included in the Lemnaceae. Recorded historically (c. 1880) from SF (Howell, et al.); there are no SF records in CCH. SF lies outside of the bioregional range for the species and it status as an indigenous SF species is questionable. Extirpated; last collected in 1880.	h	р	Floating aquatic. Meadows, mountain streams; Elevation: < 3000 m. WET: OBL	0	May-Jun	no	?/Y
ARA	<u>Lemna valdiviana</u>	Valdivia duckweed	Previously included in the Lemnaceae. Known from a single 1956 collection from Lake Merced (Howell, et al., CCH). Extirpated; last collected in 1956.	h	р	Floating aquatic. Freshwater; Elevation: < 1500 m. WET: OBL	0	May-Jun	no	Y/Y
FAB	<u>Lens culinaris</u>	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	а	Agricultural, garden or urban weed. Disturbed areas; Elevation: < 2000 m.	0	July	no	N/N
AST	Leontodon saxatilis ssp.	lesser hawkbit	[L. taraxacoides; <u>L. mudicaulis</u>] Recorded historically (c. 1955) from Golden Gate Park, Lake Merced, Lincoln Park, Lone Mt., and the Sunset Dist. (Howell, et al.); and there are no SF records in CCH. Reported from the Presidio (Doyle Dr. Natural Area). Presumably Ls. ssp. saxatilis.	h	a	Naturalized. Disturbed areas; Elevation: < 1000 m. WET: FACU	1	Jun-Oct	no	N/N
LAM	Lepechinia calycina.	white pitcher sage	Recorded historically (1897) from "vicinity of SF" (Howell, et al., CCH). Extirpated; last collected in 1901.	s	р	Aromatic shrub. Rocky slopes; chaparral, woodland; Elevation: 150-900 m.	0	Mar-Jun	CA	Y/Y
BRA	Lepidium coronopus	swine cress	[Coronopus squamatus] Recorded historically (c. 1900) from Telegraph Hill (Howell, et al.); there are no SF records in CCH. There are no contemporary reports from SF. INVASIVE STATUS: -/-/NW/-	h	а	Disturbed areas, fields, pastures; Elevation: < 300 m.	0	Mar-Jun	no	N/Y
BRA	Lepidium densiflorum	common pepper-grass	[Ld. var. d; L virginicum var. californicum] Recorded historically (1957) from Golden Gate Park (Stow Lake; Howell, et al., 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	Lepidium didymum	lesser swine-cress	[Coronopus didynus; Senebiera pinnatifida] 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, et al., 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	Lepidium draba	whitetop	[<u>Cardaria d</u> .] Recorded historically (1956) from the Embarcadero (Howell, et al., CCH). There are no contemporary reports from SF. INVASIVE STATUS: M/ —/NW,B/ —	h	р	Naturalized. Rhizomatous. Disturbed areas, saline soils, pastures, fields; Elevation: < 3300 m.	0	Mar-Aug	no	N/N

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BRA	Lepidium latifolium	perennial pepperweed	Not included in Howell, et al. 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	р	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	Lepidium nitidum	shining pepper-grass	[L.n. var. n.] Recorded historically (1912) from Bernal Hts., Corona Hts., Hunters Pt., McLaren Park, Mt. Davidson, Potrero Hills, and San Miguel Hills (Howell, et al., 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	Lepidium oblongum	wayside pepperweed	Not included in Howell, et al. 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	а	Bluffs, slopes, disturbed areas, road-sides, flats, pastures; Elevation: 200-500 m.	1	Mar-Aug	no	?/Y
BRA	Lepidium perfoliatum	clasping pepperweed	Recorded historically (1957) from Islais Cr. (Howell, et al., 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	Lepidium pinnatifidum	featherleaf pepper-grass	Recorded historically (1956) from the Embarcadero, Islais Cr. (Howell, et al., CCH). Reported from the Presidio (Ft. Point)	h	a-p	Naturalized. Disturbed areas; Elevation: < 200 m.	1	Mar-Jun	no	N/N
BRA	Lepidium 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	Lepidium strictum	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	а	Naturalized. Disturbed areas, woodland, slopes; Elevation: < 1700 m.	1	Apr-Jun	no	N/N
BRA	<u>Lepidium virginicum</u> ssp. menziesii	Robbinson's pepper-grass	[Lv. var. robbinsonii; <u>L pubescens</u>] 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	Leptochloa fusca ssp. fascicularis	smll-flowered beetle-grass	[L_fascicularis] Recorded historically (1933) from SF (Howell, et al., 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	Leptochloa panicea ssp. brachiata	red sprangeltop grass	[L. filiformis] Not included in Howell, et al. 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	а	Wet sites, drying ponds; Elevation: < 100 m.	1	Sep-Dec	no	N/Y
PLM	Leptosiphon croceus	false babystars	[Linanthus c; Linanthus androsaccus ssp. croccus]. Recorded historically (1902) from Lake Merced and the Presidio (Howell, et al., 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	Leptosiphon grandiflorus	large-flowered leptosiphon	[<i>Linanthus</i> g.]. 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	Leptosiphon latisectus	broad-lobed leptosiphon	[<i>Linanthus l.</i>] 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	Leptosiphon liniflorus	flax-flowered linanthus	[Linanthus].] 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	а	Woodland, openings, common on serpentine, desert; Elevation: < 1700 m. SERP: 1.7	0	Mar-Jun	no	Y/Y
PLM	Leptosiphon parviflorus	variable linanthus	[Linanthus p.] Recorded historically (c. 1866) from Lake Merced and Mission Dolores (CCH); not included in Howell, et al. Reported from Lake Merced (Ochoa, 2001).	h	a	Open or wooded areas; Elevation: < 1200 m.	1	Mar-Jun	CA	Y/Y
PLM	Leptosiphon rosaceus	rose leptosiphon	Recorded from the San Francisco North USGS quadrangle, which includes SF and Marin cos. (CNP5, 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	Leptospermum laevigatum	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	Lessingia arachnoidea	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	Serpentinite soil in grassland, coastal scrub, chaparral, woodland; Elevation: 40-300 m. SERP: 6	0	Jul-Oct	BA	Y/Y
AST	Lessingia germanorum	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, et al., 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/IB.1	h	а	Sandy soil; Elevation: < 100 m.	9	Jun-Nov	BA	Y/Y
AST	Leucanthemum maximum	Shasta daisy	Recorded historically (1956) from Lake Merced (CCH); not included in Howell, et al. Reported from Golden Gate Park.	h	р	Naturalized. Rhizomatous. Disturbed areas, forest, streambanks; Elevation: 600-1500 m.	1	Jun-Aug	no	N/N

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁶	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT/ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ / CA
AST	Leucanthemum vulgare	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	а	Naturalized. Disturbed areas, meadows, seeps; Elevation: < 2600 m. WET: UPL	2	Jun-Aug	no	N/N
AML	Leucojum aestivum	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	р	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	Leycesteria formosa	Himalayan honeysuckle	Recorded historically (c. 1957) from Golden Gate Park (Howell, et al.); 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	Libertia formosa.	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	р	Waif or garden escape; not naturalized. Rhizomatous. Disturbed urban, coastal areas; Elevation: < 50 m.	1	Mar	no	N/N
API	Ligusticum apiifolium	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	р	Coastal meadows, scrub or woodland; Elevation: < 1850 m.	8	Jun-Jul	no	Y/Y
OLE	Ligustrum japonicum	Japanese waxleaf privet	Not included in Howell, et al. 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	Ligustrum lucidum	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	Ligustrum ovalifolium	oval-leaf privet	Recorded historically (c. 1955) from Golden Gate Park (Howell, et al.); 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	Ligustrum sp.	privet	Reported (to genus) from Laguna Honda Valley; needs id.	s	р	n/a	1	n/a	no	N/N
OLE	Ligustrum vulgare	European privet	Not included in Howell, et al. 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	Lilium maritimum	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	р	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	<u>Lilium pardalimum</u> 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	р	From bulb-like, scaly rhizomes. Moist places (drier along coast); Elevation: < 1700 m. WET: FACW	0	Jun-Jul	CA	Y/Y
LIL	Lilium sp.	lily	Reported (to genus) from McLaren Park; needs id.	gp	р	n/a	1	n/a	no	n/a
PLB	Linonium californicum	western marsh-rosemary	Recorded historically (1837) from Lake Merced, the Presidio, se. SF, and Visitación Valley (Howell, et al., CCH). Reported from Heron's Head, Hunters Pt., Pier 94, the Presidio (Crissy Field, Tennessee Hollow), and Yosemite Slough.	h	р	Coastal dunes, salt marshes; Elevation: < 50 m. WET: FACW	6	Jul-Dec	no	Y/Y
PLB	Limonium otolepis	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	р	Waif or garden escape; not naturalized. Disturbed, coastal areas, salt marshes; Elevation: < 100 m.	0	Sep-Feb	no	N/N
PLB	Limonium perezii	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	р	Naturalized. Disturbed coastal areas, cliffs, sand dunes, roadsides; Elevation: < 100 m.	1	Mar-Sep	no	N/N
PLB	Limonium ramosissimum ssp. provinciale	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	р	Potentially naturalized. WET: FACW	8	Aug-Jun	no	N/N
PLB	Limonium sp.	sea-lavender	Reported (to genus) from Lake Merced; needs id.	h	р	n/a	1	n/a	no	n/a
SCR	Limosella acaulis	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	Limosella aquatica.	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	а	Stoloniferous, partially submersed; tufted. Wet, muddy, periodically flooded places, fresh water; Elevation: < 3200 m. WET: OBL	0	Jun-Sep	no	Y/Y
PTG	Linaria bipartita	split-lip toadflax	Previously included in the Scrophulariaceae. Recorded historically (c. 1953) from Lake Merced (Howell, et al.); there are no SF records in CCH. Reported from Glen Cyn.	h	а	Naturalized. Disturbed areas; Elevation: < 550 m.	1	Dec-Jul	no	N/N

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PTG	Linaria maro ccana	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	а	Naturalized. Disturbed areas; Elevation: < 830 m.	0	Mar-Jun	no	N/N
LIN	Linum bienne	narrow-leaf flax	Recorded historically (1957) from Laguna Honda Valley (Howell, et al., 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	Linum lewisii var.	western blue flax	Not included in Howell, et al. 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	р	Generally dry open areas in mtns., foothills; Elevation: < 3660 m. SERP: 1.3	1	May-Aug	no	N/N
LIN	Linum usitatissimum	common flax	Recorded historically (1956) from the Embarcadero, Mission Rock Terminal, Golden Gate Park, and near Islais Cr. (Howell, et al., 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	Lithophragma affine	San Francisco woodland-star	Recorded historically (1881) from Bayview Hills, Brotherhood Way, Lake Merced, and se. SF (Howell, et al., CCH). Reported from Bayview Hill, Billy Goat Hill, Glen Cyn., Rocky Outcrop, and Twin Peaks.	h	р	Rhizomatous, bearing bulblets. Open, grassy slopes; Elevation: < 2000 m.	5	Mar-Apr	no	Y/Y
SAX	Lithophragma heterophyllum	hillside woodland-star	Known from a single 1883 collection from Glen Cyn (CCH); not included in Howell, et al. Extirpated; last collected in 1883.	h	р	Shaded slopes; Elevation: < 1500 m.	0	Apr-Jul	CA	Y/Y
SAX	Lithophragma parviflorum var.	pink woodland-star	Known from a single 1891 collection (as full species) from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1891. Presumably <i>Lp</i> . var. <i>p</i> .	h	р	Open areas; Elevation: < 3000 m.	0	Mar-Jun	no	Y/Y
BOR	Lithospermum arvense	corn gromwell	[Buglossoides arvensis, pending] Recorded historically (1894) from "SF" (Howell, et al.); 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	Lobelia erinus	edging lobelia	Not included in Howell, et al. and there are no SF records in CCH. Reported from the Presidio (Presidio Hills).	h	р	Waif or garden escape; not naturalized. Disturbed areas; Elevation: < 50 m.	1	Apr	no	N/N
BRA	Lobularia maritima.	sweet-alyssum	[Alyssum maritimum] 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	Logfia filaginoides	Cal. cottonrose	[<i>L. californica; Filago c.</i>] 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	Logfia gallica	narrow-leaf filago	[<i>Eilago g.</i>] 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</i> <i>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	Logfia sp.	logfia	[Filago sp.] Reported (to genus) from O'Shaughnessy Hollow; needs id.	h	а	n/a	1	n/a	no	n/a
API	Lomatium californicum	Cal. lomatium	Not included in Howell, et al. and there are no historic SF records in CCH. Reported from a single 1984 collection from the Presidio (Inspiration Pt.; CCH.)	h	р	Woodland, brushy slopes; Elevation: 150-1800 m.	1	Apr-Jun	no	Y/Y
API	<u>Lomatium caruifolium</u> vər. caruifolium	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, et al., 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 Lc. var. c.	h	р	Wet, clay depressions, open grassland; Elevation: 60-600 m. WET: FACW	16	Mar-Apr	CA	Y/Y
API	<u>Lomatium dasycarpum</u> ssp. dasycarpum	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, et al., 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. d. Reintroduced at Sutro Forest.	h	р	Rocky (generally serpentine), chaparral, woodland; Elevation: < 1600 m. SERP: 3.6	9	Feb-May	no	Y/Y
API	Lomatium macrocarpum	large-fruited lomatium	Not included in Howell, et al. and there are no SF records in CCH. Reported from Glen Cyn. Voucher specimen needed.	h	р	Generally serpentine rocky slopes in chaparral or woodland; Elevation: 150-3000 m. SERP: 2.7	1	Feb-Mar	no	Y/Y
API	Lomatium utriculatum	bladder parsnip	Recorded historically (1929) from Bayview Hills, Mt. Davidson, San Miguel Hills, and Twin Peaks (Howell, et al., 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		Open grassy slopes, meadows, woodland; Elevation: 50-1550 m. SERP: 1.7	18	Mar-Apr	no	Y/Y
CPR	Lonicera hispidula	Cal. hairy honeysuckle	[Lt. var. vacillans] Known from two 1852 collections at Sunset Hts. (Howell, et al., CCH). Reported from throughout the city and the Presidio.	v-s	р	Sprawling to twining. Canyons, stream-sides, woodland; Elevation: < 1100 m. WET: FACU	29	May-Jun	no	Y/Y
CPR	Lonicera involucrata var. involucrata	twinberry honeysuckle	Recorded historically (1868) from a single SF record (CCH); not included in Howell, et al. SF lies far outside of the bioregion; presumed to have been introduced. There are no contemporary reports from SF.	v-s	р	Moist places; Elevation: 600-2900 m. WET: FAC	0	Jun-Aug	no	N/Y
CPR	Lonicera involucrata_vər. ledebourii	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, et al., 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	Lonicera japonica	Japanese honeysuckle	Recorded historically (1927) from Golden Gate Park, Lake Merced, McLaren Park, Mt. Davidson, the Presidio, and Sunset Dist. dunes (Howell, et al., 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., Sutro Forest, and Yerba Buena Is.	v	ep	Naturalized. Twining, Disturbed places; Elevation: generally < 1000 m. WET: FACU	15	May-Jul	no	N/N
FAB	Lotus angustissimus	slender bird's-foot trefoil	Not included in Howell, et al. and there are no SF records in CCH. Reported from the Presidio (Tennessee Hollow); possibly confused with L corniculatus.	h	а	Naturalized. Disturbed grassland, road-sides; Elevation: < 1000 m.	1	Jun-Aug	no	N/N
FAB	<u>Lotus corniculatus</u>	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	р	Naturalized. Open, disturbed areas; Elevation: < 1000 m. WET: FAC	27	Jun-Sep	no	N/N
FAB	Lotus sp.	lotus	[Acmispon sp.?] 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	Lotus tenuis	narrow-leaf bird's-foot trefoil	Not included in Howell, et al. and there are no historic SF records in CCH. Reported from Glen Cyn.	h	р	Naturalized. Open, disturbed areas; Elevation: < 600 m. WET: FACU	1	Jun-Sep	no	N/N
ONA	Ludwigia hexapetala	six-petal water-primrose	[Jussiaea uruguayensis] Not included in Howell, et al. and there are no SF records in CCH. Reported from Golden Gate Park (Elk Glen Lake), Pine Lake, the Presidio (Presidio Bluffs), and Sutro Baths. INVASIVE STATUS: H/1/NW,C/—	h-ss	р	Naturalized. Emergent aquatic. Lake margins, wetlands; Elevation: < 300 m.	4	May-Dec	no	N/N
ONA	Ludwigia peploides ssp. montevidensis	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 Sutro Baths. INVASIVE STATUS: $H/-/-/-$	h	р	Naturalized. Lakeshores, stream-banks, floodplains, seasonal wetlands; Elevation: < 500 m. WET: OBL	2	May-Jul	no	N/N
ONA	Ludwigia peploides ssp. peploides	yellow water-primrose	[<u>Jussiaea repens</u> var. <u>peploides</u>] 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 Sutro Baths; needs id. INVASIVE STATUS: H/-/-/-	h	р	Matted, floating or creeping. Lakeshores, stream-banks, seasonal wetlands; Elevation: < 900 m. WET: OBL	3	Jun-Oct	no	Y/Y
MRT	Luma apiculata	temu	[<u>Eugenia a</u> .] 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	р	Waif or garden escape; not naturalized. Cool coastal, urban areas; Elevation: 100 m.	0	sum	no	N/N
BRA	Lunaria annua	annual moon wort	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 Sutro Forest.	h	b	Naturalized. Disturbed areas; Elevation: < 1000 m.	5	Apr-Jun	no	N/N
FAB	Lupinus albifrons var. albifrons	silver bush-lupine	Recorded historically (1872) from "SF" and Twin Peaks (CCH); not included in Howell, et al. 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	0	Apr-Jul	no	Y/Y
FAB	Lupinus albifrons. var. collinus	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, et al., 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. Sutro. 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	Lupinus arboreus	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 Sutro 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	Lupinus benthamii	spider lupine	Known from a single 1882 collection from "SF: (CCH); not included in Howell, et al. 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	Lupinus bicolor	miniature dove lupine	[Incl. Lb., vars. microphyllus, pipersmithii, trifidus, and umbellatus; L sabulosus; L micranthus, 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, Sutro Hts., and Twin Peaks (Howell, et al., CCH). Reported from throughout the city and Presidio. SF is the type locality (isotype of L sabulosus).	h	а	Open or disturbed areas; Elevation: < 1600 m.	35	Mar-Jun	no	Y/Y
FAB	Lupinus chamissonis	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</i> al., 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	Lupinus formosus var. formosus	summer bush-lupine	[<u>Lf, var. bridgesii</u> , possible minor variant of Lf; 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 Sutro Forest. Presumably Lf. var. f.	h	р	Dry clay soils, grassland, open areas under pines, generally in valleys; Elevation: < 1000(3000) m.	4	Apr-Sep	no	Y/Y
FAB	Lupinus littoralis	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	р	Coastal sand; Elevation: < 100 m.	0	May-Aug	no	Y/Y

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ / CA
FAB	Lupinus microcarpus var. microcarpus	chick lupine	[Incl. L. subvexus vars.] Known from a single 1893 collection from "SF" (Howell, et al., 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	а	Open or disturbed areas, occasionally seeded on road-banks; Elevation: < 1600 m.	3	Mar-Jun	no	Y/Y
FAB	Lupinus nanus	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	а	Open or disturbed areas; Elevation: < 1300 m.	20	Mar-Jun	no	Y/Y
FAB	Lupinus pachylobus	big pod lupine	Recorded historically (c. 1956) from Bayview Hills (Howell, et al.); 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	а	Open or disturbed areas; Elevation: < 600 m.	0	Mar-May	CA	?/Y
FAB	<u>Lupinus polyphyllus_var.grandifolius</u>	meadow lupine	Known from a single 1882 collection from Lake Merced (Howell, et al., CCH). Extirpated; last collected in 1882.	h	а	Moist areas to bogs; Elevation: < 3000 m. WET: FACU	0	May-Jul	no	Y/Y
FAB	Lupinus 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	Lupinus sparsiflorus var.	loose-flowered annual lupine	Not included in Howell, et al. and there are no SF records in CCH. Reported (as full species) from Glen Cyn.;	h	а	Washes, sandy areas; Elevation: < 1300 m.	1	Mar-May	no	N/Y
FAB	Lupinus succulentus	arroyo lupine	needs id. SF is outside of the bioregion; species is presumed to have been introduced. 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., Sutro Forest, Treasure Is., and Yerba Buena Is.	h	а	Open or disturbed areas, often seeded on road- banks; Elevation: < 800 m.	7	Feb-May	no	Y/Y
FAB	Lupinus variicolor	coastal prairie perennial lupine	[L littoralis var. variicolor; L franciscanus] Recorded historically (1882) from Bayview Hills, Corona Hts., Hunters Pt., Mt. Davidson, Potrero Hills, the Presidio (Presidio Bluffs), and Twin Peaks (Howell, et al., CCH). Reported from throughout the city and the Presidio.	h-ss	р	Coastal terraces, beaches; Elevation: < 500 m.	24	Apr-Jul	CA	Y/Y
JUN	Luzula comosa var.	Pacific wood-rush	[L. multiflora; L. comosa var. congesta] 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, et al., CCH). Reported (as full species) from throughout the city and Presidio. Presumably Lc. var. c.; but some plants possibly confused with L subsessilis; needs id.	g	р	Cespitose, with short rhizomes. Meadows, open woodland, conifer forest; Elevation: generally < 1500 m. WET: FAC	28	Mar-Jun	no	Y/Y
JUN	Luzula subsesilis	Pacific wood-rush	[L comosa var. s.; Lc. var. macrantha] 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, et al. Reported from Mt. Davidson.	g	р	Cespitose, with short rhizomes. Open, drier woodland; Elevation: < 2600 m.	1	Mar-Jun	no	Y/Y
CRY	Lychnis coronaria	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	р	Naturalized. Disturbed areas, open slopes, redwood/Douglas-fir forests; Elevation: 100- 1220 m.	1	sum	no	N/N
SOL	Lycopersicum esculentum	tomato	[Solanuan lycopersicum, pending] Recorded historically (1956) from Golden Gate Park, the Marina Dist. and Mission Bay (Howell, et al., 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	Lycopus americanus	American water horehound	Known only from two 1892 reports from the Presidio (Mountain Lake; Howell, et al., Calflora); there are no SF records in CCH. Extirpated; last collected in 1892.	h	р	Rhizomatous. Moist areas, marshes, stream- banks; Elevation: < 1000 m. WET: OBL	0	Jun-Jul	no	Y/Y
ROS	Lyonothamnus floribundus ssp.	Catalina ironwood	Not included in Howell, et al. 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	Lyonothamnus floribundus ssp. aspleniifolius	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	Lysimachia arvensis	scarlet pimpernel	[Anagallis a.; incl. <u>A.a. forma azurea</u>] 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	а	Naturalized. Disturbed areas, abandoned fields, road-sides; Elevation: < 100 m. WET: FAC	62	Mar-May	no	N/N
MRS	Lysimachia maritima (r)	sea milkwort	[<u><i>Claux m.</i></u>] 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	р	Fleshy, tufted. Coastal salt marshes, saline meadows; Elevation: < 2100 m. WET: FACW	2	May-Jul	no	Y/Y
MRS	Lysimachia minima	mud pimpernel	[Centunculus minimus; <u>Anagallis m</u> .] Previously included in the Primulaceae. Recorded historically (1866) from Land's End (Pt. Lobos) and the Presidio (Ft. Point, Presidio Bluffs; Howell, et al., CCH). Reported from the Presidio (Ft. Scott, Presidio Bluffs, Rob Hill).	h	а	Vernal pools, moist places; Elevation: < 950 m. WET: FACW	3	Mar-May	no	Y/Y
LYT	Lythrum californicum	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	р	Marshes, pond and stream margins; Elevation: < 2200 m. WET: OBL	0	May-Oct	no	N/Y

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME [¢]	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT/ECOLOGY ⁸	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ / CA
LYT	Lythrum hyssopifolia.	lesser loosestrife	[L hyssopifolium; incl. L. adsurgens] 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, et al., 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	Madia elegans	showy tarweed	Known from a single 1933 collection from Ocean Beach (CCH); not included in Howell, et al. Reported from the Presidio (Tennessee Hollow) and Sutro Forest. Planted at the Sunset Dist.	h	а	Grassy, open, or disturbed sites, in coarse or clayey soils, including serpentine; Elevation: < 3400 m.	2	Apr-Nov	no	Y/Y
AST	Madia exigua	little tarweed	Known from a single 1912 collection from Laurel Hill Cemetery (Howell, et al., 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	<u>Madia gracilis</u>	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	а	Open, semi-shaded, or disturbed sites, many habitats, including serpentine; Elevation: < 2500 m.	0	Apr-Jul	no	Y/Y
AST	Madia sativa.	coast tarweed	[<u>M. capitata</u>] 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	а	Grassy, open, or disturbed sites; Elevation: < 1000 m.	30	May-Oct	no	Y/Y
AST	Madia sp.	tarweed	Reported (to genus) from Interior Greenbelt and Laguna Honda Valley; needs id.	h	а	n/a	3	n/a	no	n/a
RUS	Maianthemum racemosum	large false Solomon's seal	[<i>M.r.</i> ssp. <i>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 Sutro Forest. Common on the SF Peninsula; presumed indigenous to SF.	h	р	Rhizomatous. Moist, open woodland, stream- banks; Elevation: < 2000 m. WET: FAC	3	Mar-Jul	no	Υ/Υ
RUS	Maianthemum stellatum	little false Solomon's seal	[Smilacina stellata; S.s. var. sessilifolia; <u>S. sessilifolia</u>] 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 Sutro Forest. Common on the SF Peninsula; presumed indigenous to SF.	h	р	Rhizomatous. Moist woodland, stream-banks, open slopes; Elevation: < 2400 m. WET: FACU	6	Apr-Jun	no	Y/Y
MLV	Malacothamnus sp.	malacothamnus	No members of this genus are listed in Howell, et al. and there are no SF records in CCH. Reported (to genus) from Interior Greenbelt; needs id. Presumably planted.	s	р	n/a	1	n/a	no	N/N
ROS	Malus floribunda	Japanese flowering crabapple	Not included in Howell, et al. 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	Malus pumila	apple	[<i>M. domestica; 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	Malva arborea	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 Sutro 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	Malva assurgentiflora	Channel Is. malva rosa	[Lavatera a.] Recorded historically (1877) from Golden Gate Park, Lake Merced, Land's End, Lone Mt., the Presidio (Lobos Cr. Valley), and Sutro Hts.; presumed to have been introduced from s. Cal. (Howell, et al., CCH). Reported from Alemany Farm, Brooks Park, Buena Vista Park, College Hill, Golden Gate Park (Strawberry Hill, misc.), the Presidio (Lobos Cr. Valley), Sutro Forest, and Yerba Buena Is. Not considered indigenous to SF.	s	р	Coastal bluffs; Elevation: < 350 m.	10	Feb-Jul	CA	N/Y
MLV	Malva neglecta	dwarf cheeseweed	Recorded historically (c. 1957) from near Islais Cr. (Howell, et al.); there are no SF records in CCH. Reported from Land's End, the Presidio (Baker Beach, Mountain Lake, Presidio Hills, Tennessee Hollow), Sutro Forest, and Yerba Buena Is.; expected elsewhere.	h	a-b	Naturalized. Disturbed places; Elevation: < 3000 m.	7	May-Oct	no	N/N
MLV	Malna nicaemsis	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, et al., 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, Sutro 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	Malva parviflora	little cheeseweed	Recorded historically (1887) from Bayview Hills, Golden Gate Park, Hunters Pt., near Islais Cr., Lone Mt., Nob Hill, and Russian Hill (Howell, et al., 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	Malva pseudolavatera	Cornish mallow	Fill, and Kussian Hill (Howeil, et al., CCH). Reported from infolghout the city and the Fresidio. [M. multiflora, pending: <u>Lavatera cretica</u>] 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, et al., 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	Elevation: < 2500 m. Naturalized. Disturbed places on coastal bluffs, dunes, occasionally inland; Elevation: < 50 m.	12	Apr-Jun	no	N/N

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Linderlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁶	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT/ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ / CA
MLV	Malva 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	Malva subovata	sea mallow	[Lavatera maritima] Not included in Howell, et al. 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 Visitación Valley.	s	р	Ornamental; not naturalized.	13	sp-fall	no	N/N
MLV	<u>Malva sylvestris</u>	common high mallow	Recorded historically (1909) from the Marina Dist., Nob Hill, and Russian Hill (Howell, et al., 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	Malvaviscus arboreus	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	р	Ornamental; not naturalized.	3	sum-fall	no	N/N
MLV	Malvella leprosa	alkali mallow	[Sida hederacea; S. leprosa var. h.] Recorded historically (c. 1957) from the Embarcadero (Howell, et al.); 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	Marah fabacea	Cal. man-root	[M. fubaceus] 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 Visitación Valley (Howell, et al., CCH). Reported from throughout the city and the Presidio.	h	р	Vining, from a large tuber. Stream-sides, washes, shrubby open areas; Elevation: < 1600 m.	66	Feb-Apr	CA	Y/Y
CUC	Marah oregana	coastal man-root	[<u>M. oreganus</u>] Recorded historically (1855) from Mission Dolores and Visitación 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	р	Vining, from a large tuber. Shrubby or open areas, forest edges; Elevation: < 1800 m.	5	Mar-May	no	Y/Y
LAM	Marrubium vulgare	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	р	Naturalized. Disturbed sites, generally overgrazed pastures; Elevation: < 600 m.	2	Mar-Nov	no	N/N
MSL	<u>Marsilea vestita</u> ssp. vestita	hairy waterclover	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	р	Floating and emergent aquatic. Creek beds, flood basins, vernal pools; Elevation: < 2200 m. WET: OBL	0	n/a	no	Y/Y
AST	Matricaria discoidea	common pineapple-weed	[Chamomilla suaveolens. Recorded as <u>M. matricarioides</u> , a taxon not occurring in Cal. (JFP, 2021). All historic records in CCH have been reclassified as <i>M. discoidea</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	а	Disturbed sites, riverbanks; Elevation: < 2250 m. WET: FACU	32	Mar-Sep	no	N/Y
AST	Matricaria occidentalis	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	а	Undisturbed alkali flats, vernal pools, edges of salt marshes; Elevation: < 2400 m. WET: FACW	0	Mar-Aug	no	N/Y
BRA	<u>Matthiola incana</u>	tenweeks stock	Recorded historically (1954) from Cliff House, Land's End and Twin Peaks (Howell, et al., CCH). Reported from Cliff House, Glen Cyn., Land's End, Ocean Beach, and Sutro Baths.	h	р	Naturalized. Sandy areas, beaches, ocean bluffs; Elevation: < 300 m.	5	Mar-Jun	no	N/N
CEL	Maytenus boaria	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	р	Naturalized. Scrub regrowth; Elevation: 130- 400 m.	6	Apr-May	no	N/N
PAP	Meconella californica	Cal. fairypoppy	Recorded historically (1866) from Bayview Hills, Cliff House, hills s. of Golden Gate Park (Mt. Sutro?), se. SF, and Sutro Baths (Howell, et al., CCH). Extirpated; last collected in 1950.	h	a	Open, rocky areas; Elevation: < 1000 m. WET: FAC	0	Mar-May	CA	Y/Y
FAB	Medicago arabica	spotted bur-clover	Recorded historically (1908) from Golden Gate Park, Laguna Honda Valley, the Marina Dist., Mt. Sutro, and San Miguel Hills (Howell, et al., 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	а	Naturalized. Disturbed and agricultural areas, fields, woodland; Elevation: < 2000 m.	21	Mar-Jun	no	N/N
FAB	Medicago lupulina.	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	а	Naturalized. Disturbed and agricultural areas, forest, mtns.; Elevation: < 2500 m. WET: FAC	13	Apr-Jul	no	N/N

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME [¢]	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT/ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ^j /CA
FAB	Medicago polymorpha	common bur-clover	[<u>M. hispida var. confinis</u> and var. apiculata; <u>M. denticula</u>] 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, et al., CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: $L/2/-/-$	h	а	Naturalized. Chaparral, oak woodland, stream- banks, road-sides, disturbed areas; Elevation: < 1500 m. WET: FACU	66	Mar-Jul	no	N/N
FAB	Medicago sativa	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	р	Naturalized. Disturbed, agricultural areas; Elevation: < 2450 m. WET: UPL	4	Apr-Oct	no	N/N
FAB	Medicago sp.	bur-clover, medick	Reported (to genus) from McLaren Park; needs id.	h	a-p	n/a	1	n/a	no	N/N
MRT	Melaleuca citrina	crimson bottlebrush	[Callistemon citrinus] Not included in Howell, et al. and there are no SF records in CCH. Reported from the Presidio (Inspiration Pt.)	s	ep	Ornamental.	1	Jan-Dec	no	N/N
MRT	Melaleuca nesophila	showy honey-myrtle	Not included in Howell, et al. and there are no SF records in CCH. Reported from McLaren Park and the Richmond Dist.	t	р	Ornamental; not naturalized.	1	lsp-sum	no	N/N
POA	Melica californica	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	р	Densely cespitose, not rhizomatous. Open or rocky hillsides, oak woodland, conifer forest; Elevation: < 2200 m.	18	Apr-May	CA	Y/Y
POA	Melica geyeri	Geyer's onion grass	Known from a single 1961 collection from Mt. Sutro (CCH); not included in Howell, et al. Extirpated; last collected in 1961.	g	р	Cespitose, rhizomatous. Dry open slopes, oak woodland, conifer forest; Elevation: < 2200 m. SERP: 1.2	0	Apr-Jul	no	Y/Y
POA	Melica imperfecta	Coast Range melic-grass	[incl. <u>M.i.var.refracta</u>] 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	р	Densely cespitose, not rhizomatous. Dry rocky hillsides, chaparral, woodland; Elevation: < 1500 m.	13	Apr-May	no	Y/Y
POA	Melica torreyana.	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	р	Densely cespitose, not rhizomatous. Chaparral, conifer forest; Elevation: < 1600 m.	11	Mar-Jun	CA	Y/Y
FAB	Melilotus albus	white sweet-clover	Recorded historically (c. 1953) from Alcatraz Is., Bayview Hills, the Embarcadero, near Islais Cr., Lake Merced, the Marina Dist. (Howell, et al., 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	Melilotus indicus	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	Melilotus officinalis	biennial yellow sweet-clover	Recorded historically (1956) from the Embarcadero, near Islais Cr., and Mission Bay (Howell, et al., 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	Melilotus 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	Mentha ×piperita	true peppermint	[<u>M. citrata</u>] Recorded historically (c. 1955) from Golden Gate Park, Lake Merced, Land's End, McLaren Park, and Pine Lake (Howell, et al.); there are no SF records in CCH. Reported from the Presidio (Mountain Lake) and Sutro Baths.	h	р	Naturalized. Rhizomatous. Moist places, fields; Elevation: < 1700 m. WET: FACW	2	Jul-Oct	no	N/N
LAM	Mentha arvensis	European field mint	[incl. <u>M.a., var. lanata</u>] Recorded historically (1900) from Lake Merced (Howell, et al.); there are no SF records in CCH. Reported from the Presidio.	h	р	Naturalized. Rhizomatous. Moist places, fields; Elevation: < 550 m. WET: FACW	1	Jul-Oct	no	N/N
LAM	Mentha pulegium	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	р	Naturalized. Rhizomatous. Decumbent to ascending. Moist places, fields; Elevation: < 1400 m. WET: OBL	3	Jul-Oct	no	N/N
LAM	Mentha spicata	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	р	Naturalized. Rhizomatous. Moist places, marshes, lakeshores, fields; Elevation: < 2350 m. WET: FACW	3	Jul-Oct	no	N/N
LAM	Mentha suaveolens	applemint	Known from a single 1970 collection from the Presidio (near Lover's Lane; CCH); not included in Howell, et al. There are no contemporary reports from SF.	h	р	Naturalized. Rhizomatous. Moist places, fields; Elevation: < 950 m. WET: FACW	0	Jul-Oct	no	N/N

Image: Control of the problem of t	FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁶	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT/ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ /CA
Cold Cold <th< td=""><td>MEN</td><td>Menyanthes trifoliata</td><td>bogbean</td><td></td><td>h</td><td></td><td>meadows, seeps, margins of shallow lakes;</td><td>0</td><td>Apr-May</td><td>no</td><td>Y/Y</td></th<>	MEN	Menyanthes trifoliata	bogbean		h		meadows, seeps, margins of shallow lakes;	0	Apr-May	no	Y/Y
NIM Operation of actions Operation of actions Image: A start of a	EUP	<u>Mercurialis annua</u>	annual mercury		h	a		2	Feb-Oct	no	N/N
Set Number algebrain Cale surfage Setting algebrain Setting algebrain Setting algebrain Set Number alge	MRT	Metrosideros excelsa	New Zealand Christmas tree		t	р	Ornamental; not naturalized.	1	lsp-esum	no	N/N
NotInterformationpoint (Statings)cold (Statings)c	SAX	Micranthes californica	Cal. saxifrage	[Saxifraga c.] Recorded historically (1877) from Bayview Hills, Laguna Honda Valley, and Mission Hills (Howell, et al., CCH). Reported from Billy Goat Hill and Palou-Phelps, where it is extremely threatened; it is believed to	h	р	and bulblets. Moist, shady places; Elevation: <	2		no	Y/Y
Ast Manuari higherEnd (PL Loop, Loop ML, ML Doublow, Pattere HB, and HP peaks (Base Red, CG Loop Natural Are, Inspiration PL, Idoog Loop ML, ML Doublow, Pattere HB, and HP peaks (Base Red, GG Loop Natural Are, Inspiration PL, Idoog Loop ML, ML Doublow, Pattere HB, and HP peaks (Base Red, GG Loop Natural Are, Inspirator, at Unobes C, Vallay, Peaks Balin, Peaks HB, and HP peaks (Base Red, GG Loop ML, ML Doublew, Pattere HB, Health Service Area, Re, Cultural Phile Health Service Area, Re, Cultural 	AST	<u>Micropus californicus</u> var. californicus	slender cottonweed		h	а		0	Apr-May	no	Y/Y
AST Minimizing ang donglasii Douglasi sheepurifs Pression (Cong Build, Lappinins PL, Janob Lap, Karg Could be M.d. pp. treff or M.d. pp. h a pools or appending control (Could and M.d. pp.) h a pools or appending control (Could and M.d. pp.) h a pools or appending control (Could and M.d. pp.) no no no no AST Minimizing and Sar King. Bacorded historically (1989) from Hunters PL, the Presidio (Cong Build), and Sar King. no	AST	Microseris bigelovii	coast silverpuffs	End (Pt. Lobos), Lone Mt., Mt. Davidson, Potrero Hills, and the Presidio (Howell, et al., 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	h	а	headlands; Elevation: < 525 m.	14	Apr-Jul	no	Y/Y
ASTMicroseris danglasii sep, tenellaDouglas' silvepurifsBeconder instordary (1089) fruit initiaries from SP at the key dang and specific and integrates and i	AST	<u>Microseris douglasii</u> ssp. douglasii	Douglas' silverpuffs	Hunters Pt., the Presidio (Crissy Bluffs, Inspiration Pt.), and Starr King. Could be M.d. ssp. tenella or M.d. ssp.	h		pools or serpentine outcrops (coastal in southern Contra Costa Co.); Elevation: < 1100	4	Mar-Jun	no	Y/Y
All matrixmarksExtingated; last collected in 1958, RARTY STATUS: $/\pi R2$ nnn <t< td=""><td>AST</td><td>Microseris douglasii ssp. tenella</td><td>Douglas' silverpuffs</td><td>There are no contemporary reports from SF at the level of ssp.; may be present at Hunters Pt., the Presidio</td><td>h</td><td>а</td><td>pools or serpentine outcrops (coastal in southern Contra Costa Co.); Elevation: < 500 m.</td><td>0</td><td>Mar-Jun</td><td>no</td><td>Y/Y</td></t<>	AST	Microseris douglasii ssp. tenella	Douglas' silverpuffs	There are no contemporary reports from SF at the level of ssp.; may be present at Hunters Pt., the Presidio	h	а	pools or serpentine outcrops (coastal in southern Contra Costa Co.); Elevation: < 500 m.	0	Mar-Jun	no	Y/Y
AST Microseris sylval microseris Known from a single 1892 collection from the Presidio (Mountain Lake). RARTY STATUS: <i>et al.</i> Excipated; last collected in 1892. Reinforduced at the Presidio (Mountain Lake). RARTY STATUS: <i>et al.</i> Excipated; last collected in 1892. Reinforduced at the Presidio (Mountain Lake). RARTY STATUS: <i>et al.</i> Excipated; last collected in 1892. Reinforduced at the Presidio (Mountain Lake). RARTY STATUS: <i>et al.</i> Excipated; last collected in 1892. Reinforduced at the Presidio (Mountain Lake). RARTY STATUS: <i>et al.</i> Excipated; last collected in 1892. Reinforduced at the Presidio (Mountain Lake). RARTY STATUS: <i>et al.</i> Excipated; last collected in 1892. Reinforduced at the Presidio (Mountain Lake). RARTY STATUS: <i>et al.</i> Excipated; last collected in 1892. Reinforduced at the Presidio (Mountain Lake). RARTY STATUS: <i>et al.</i> Excipated; last collected in 1892. Reinforduced at the Presidio (Mountain Lake). RARTY STATUS: <i>et al.</i> Excipated; last collected in 1892. Reinforduced at the Presidio (Mountain Lake). RARTY STATUS: <i>et al.</i> Excipated; last collected in 1993. h p Crassland, open woodland; Elevation: <1700 1 Mar-Jun CA CRN Minuartia californica Cal. sandwort [Stabular a., pending Amarria J.] Rown from a single 1883 collection from "SF" (CCH). Extipated; last collected in 1993. h a P Amarcha preservation: <10. Feb-Jun no Eve April no B CRN Minuartia douglasii Douglas' sandwort [Stabular	AST	<u>Microseris paludosa</u>	marsh microseris		h	p		1	Apr-Jul	CA	Y/Y
AST Microseris sylvantica (t) sylvan microseris et al. Estimated; last collected in 1992. Reintroduced at the Presidio (Mountain Lake). RARITY STATUS: h p Dimandant performance perform	AST	Microseris sp.	microseris	Reported (to genus) from Corona Hts. and Duncan-Castro; needs id.	h	а	n/a	2	n/a	no	n/a
PLAN Windersters grinclus Jan Woodlands, Elwaysion-3300 m, WET: FACU 0 Ped-Un Product CRY Minuartia californica Cal. sandwort [Sabulina c., pending, Annuria c.] Recorded historically (1892) from Golden Gate Park, Lake Merced, and Potrero Hills (Howell, et al., CCH). Extirpated; last collected in 1933. h a Carvelps, since visit, Si	AST	Microseris sylvatica (r)	sylvan microseris	et al. Extirpated; last collected in 1892. Reintroduced at the Presidio (Mountain Lake). RARITY STATUS:	h	p	Grassland, open woodland; Elevation: < 1700 m.	1	Mar-Jun	CA	Y/Y
CRV Minuartia californica Cal. sandwort Istualizate interced nationalize interced nationalize interced nationalize interced nationalize interced nationalize (1892) from Golden Cate Park, Lake Merced, and Potreo Hills (Howell, et al., CCH). Extirpated; last collected in 1933. h a sepentine or not; Elevation: <1500 m. WET: 0 0 Feb-Apr no CRV Minuartia douglasii Douglas' sandwort Isobulina e., pending: M. preding M	PLM	Microsteris gracilis	slender phlox		h	a	woodlands; Elevation: <3300 m. WET: FACU	0	Feb-Jun	no	Y/Y
CRY Mimarilia douglasii Douglas' sandwort Isticulting Arenaria a, I Known from a single 1949 collection from the residue (APCH); not included in for Corona Hts. h a pine woodland, often serpentine; Elevation: 1 sp-esum no CRY Mimaritia douglasii annual sandwort [Sabuling a, pending Arenaria a, I Known from a single 1949 collection from the Presidio (Above Baker Beach; Howell, et al.); 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, chaparal slopes; Elevation: <2400 m.	CRY	Minuartia californica	Cal. sandwort		h	а	serpentine or not; Elevation: < 1500 m. WET:	0	Feb-Apr	no	Y/Y
CRY Minuartia pusilla annual sandwort Howell, et al.); there are no SF records in CCH. Rediscovered at the Presidio (Presidio Bluffs) by M. Chasse in 2019. Voucher specimen needed. h a a Flains, open pine fores, citaparral sopes; Litaparral soper; Litaparral soper; Litaparral soper; Litaparral soper; Litaparral soper; Litaparral soper; Litaparral sop nonardella I Ma	CRY	Minuartia douglasii	Douglas' sandwort		h	a	pine woodland, often serpentine; Elevation:	1	sp-esum	no	Y/Y
NTC Marvel of Peru CCH). Reported from near Bernal Hts. Park, and the Castro Dist.; expected elsewhere. n p winters; Elevation: < 300 m. WET: UPL 0 May-Oct no P MLV Modiola caroliniana Carolina bristle-mallow Recorded historically (1951) from Golden Gate Park and the Marina Dist. (Howell, et al., CCH). Reported from Candlestick Pt., Crocker-Amazon Playground, Golden Gate Park (Lily Pond), Land's End, Pine Lake, the Presidio (FL. Soct), Lover's Lane, Lyon St. Plantation, Mountain Lake, Officer's Row, Presidio Hills, Tennessee h a Naturalized. Prostrate to decumbent or creeping. Grassland, disturbed areas; Elevation: generally < 400 m. WET: FAC	CRY	Minuartia pusilla	annual sandwort	Howell, et al.); there are no SF records in CCH. Rediscovered at the Presidio (Presidio Bluffs) by M. Chasse in	h	a		1	Mar-Apr	no	Y/Y
MLV Madiola caroliniana Carolina bristle-mallow Candlestick Pt., Crocker-Amazon Playground, Golden Gate Park (Lily Pond), Land's End, Pine Lake, the presidio (FL 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 declumbent or creeping, Grassland, disturbed reases; Elevation: 14 Mar-Nov no N LAM Monardella douglasii Douglas' monardella Known from a single 1866 collection from "near SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1866. h a Grassland, openings in woodland and chaparral, serpentine, occasionally vertic clay; Elevation: 50-1100 m. m May- UI CA LAM Monardella simuata ssp. nigrescens northern curly-leaved monardella Recorded historically (1913) from near Lake Merced (CCH); not Lake Merced (Howell, et al. Extirpated; last collected in 1993. RARITY STATUS: -/-/IB.2 h a Stabilized dunes, coastal scrub; Elevation: 0 May- UI CA LAM Monardella undylata, ssp. San Luis Obigno monardella Recorded historically (1905, as full species) from Lake Merced (Howell, et al., CCH). Extirpated; last collected in Law CCH). Extirpated; last collected in Law CCH). Extirpated; last collected in h a Stabilized dunes, coastal scrub; stabilized sandy O 0 May- Sep	NYC	<u>Mirabilis jalapa</u> var. jalapa	Marvel of Peru		h	р		0	May-Oct	no	N/N
LAM Monardella douglasii Douglas' monardella Known rom a single 1606 collection rom near SF (CCH); not included in Howell, et al. Extirpated; last h a chaparral, serpentine, occasionally vertic clay; clay; clay 0 May-Jul CA LAM Monardella sinuata ssp. nigrescens northern curly-leaved monardella Recorded historically (1913) from near Lake Merced (CCH); not included in Howell, et al. Extirpated; last h a chaparral, serpentine, occasionally vertic clay; clay 0 May-Jul CA LAM Monardella sinuata ssp. nigrescens northern curly-leaved monardella Recorded historically (1913) from near Lake Merced (CCH); not included in Howell, et al., CCH). Extirpated; last collected in 1933. RARITY STATUS: -/-/IB.2 h a Stabilized dunes, coastal scrub; Elevation: 0 May-Jul CA LAM Monardella undulata, ssp. San Luis Obieno monardella Recorded historically (1905, as full species) from Lake Merced (Howell, et al., CCH). Extirpated; last collected in h a Stabilized dunes, coastal scrub; stabilized sandy 0 May-Sen CA	MLV	Modiola caroliniana.	Carolina bristle-mallow	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	h	a-p	creeping. Grassland, disturbed areas; Elevation: generally < 400 m. WET: FAC	14	Mar-Nov	no	N/N
LAM Monardella simulta ssp. mgrescens n a < 30 m. 0 May-juil CA LAM Monardella simulta ssp. mgrescens monardella collected in 1933. RARITY STATUS: -/-/IB.2 n a < 300 m.	LAM	Monardella douglasii	·	collected in 1866.	h	a	chaparral, serpentine, occasionally vertic clay; Elevation: 50-1100 m.	0	May-Jul	CA	Y/Y
	LAM	Monardella sinuata ssp. nigrescens			h	a		0	May-Jul	CA	Υ/Υ
	LAM	<u>Monardella undulata</u> ssp.	San Luis Obispo monardella		h	a		0	May-Sep	CA	Y/Y

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME [¢]	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ⁸	# OCCURENCES ^h	FLOWERING SEASON ¹	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF^{j}/CA
LAM	<u>Monardella villosa</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 Sutro Forest; needs id. Both <i>M.v.</i> var. <i>franciscana</i> and var. <i>villosa</i> have been recorded from SF.	ss	р	n/a	7	May-Aug	no	Y/Y
LAM	Monardella villosa ssp. franciscana	coastal coyote-mint	[<u>M.v., var.f.</u>] 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 Sutro Forest; needs id.	ss	р	Matted to erect. Coastal scrub, woodland; Elevation: < 400 m.	9	May-Aug	no	Y/Y
LAM	Monardella villosa ssp. villosa	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 Sutro Forest; needs id.	ss	р	Matted to erect. Rocky slopes, ephemeral drainages, oak woodland, chaparral, montane forest; Elevation: < 1300. SERP: 6	9	May-Aug	no	Y/Y
CHN	Monolepis nuttalliana.	Nuttall's poverty weed	[Blitum nuttallianum, pending; Amaranthaceae, pending] Recorded historically (c. 1955) from Islais Cr. where is 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	Montia fontana	annual water miner's-lettuce	[<u>M. hallii</u>] 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	а	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	Morella californica	Cal. wax myrtle	[Myriar.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 Sutro 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>Muehlenbeckia complexa</u>	maidenhair wire-vine	Recorded historically (1941) from Brotherhood Way, Golden Gate Park, and the Presidio (Howell, et al., 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., Ligget St. Housing, Lobos Cr. Valley, Lyon St. Plantation, Officer's Row, Tennessee Hollow), Sutro Baths, Sutro Hts., Telegraph Hill, Treasure Is., and Yerba Buena Is.; expected elsewhere. Potentially invasive.	s	р	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	Muhlenbergia rigens	deergrass	Known from a single 1975 collection from the Presidio (Mountain Lake; CCH); not included in Howell, et al. Not considered indigenous to SF. Reported from City College and Golden Gate Park, where it was planted; expected elsewhere in native landscaping.	g	Р	Densely clumped. Sandy to gravelly places, canyons, stream bottoms; Elevation: < 2150 m. WET: FAC	1	May-Jun	no	N/Y
THE	Muilla maritima.	coastal muilla, sea golden-star	[Bloomeria m.] 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	р	Corm-forming. Coastal scrub, grassland, woodland, valleys; Elevation: < 2300 m. SERP: 2.0	6	Mar-Jun	no	Y/Y
HYC	<u>Muscari botryoides</u>	common grape hyacinth	Previously included in the Liliaceae. Recorded historically (c. 1955) from the Richmond Dist. and the Sea Cliff Dist. (Howell, et al., CCH). Reported from McLaren Park.	h	р	Waif or garden escape; not naturalized.	1	sp	no	N/N
SCR	Myoporum laetum	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	р	Naturalized. Open areas in grassland, scrub, riparian habitats, generally coastal; Elevation: < 460 m. WET: FACU	45	esp	no	N/N
BOR	Myosotis discolor	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	Myosotis latifolia	broad-leaved forget-me-not	[<u>M. sylvatica</u> , misappl.] Recorded historically (1908) from Golden Gate Park, Mt. Davidson, Mt. Sutro, the Presidio, Russian Hill, and San Miguel Hills (Howell, et al., 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, Sutro Forest, and Twin Peaks; expected elsewhere. INVASIVE STATUS: L/-/-/-	h	р	Naturalized. Moist, disturbed, shady places; Elevation: < 460 m.	16	Feb-Jul	no	N/N
BOR	Myosotis sylvatica	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 Sutro Forest; needs id. INVASIVE STATUS: $-/2/-/-$	h	р	WET: FACU	2	lsp-esum	no	N/N
RAN	Myosurus minimus	little mouse tail	[<u>M.m. var. filiformis</u>] Recorded historically (1866) from Laurel Hill Cemetery (Howell, et al., CCH). Extirpated; last collected c. 1880.	h	а	Tufted. Wet fields, vernal pools, stream-banks, lake shores; Elevation: < 2100 m. WET: OBL	0	Apr-May	no	Y/Y
HAL	Myriophyllum aquaticum	parrot's feather water-milfoil	[<u>M. brasilliense</u>] Recorded historically (1954) from Lake Merced and Pine Lake (Howell, et al., CCH). Reported from Golden Gate Park (Chain-of-Lakes, Mallard Lake), the Presidio (Tennessee Hollow), and Sutro Baths. INVASIVE STATUS: H/-/C/-	h	р	Naturalized. Ponds, streams, lakes; Elevation: < 500 m. WET: OBL	4	Jul-Sep	no	N/N

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁶	NOTES ^a Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT/ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ¹	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ^j / CA
HAL	Myriophyllum hippuroides	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	р	Aquatic, submersed, from rhizomes. Ponds, small streams; Elevation: < 1100 m. WET: OBL	0	Jul-Sep	no	?/Y
HAL	Myriophyllum sibericum	Siberian water-milfoil	[<u>M. exalbescens</u>] Recorded historically (1893) from Golden Gate Park, Lake Merced, Pine Lake, and the Presidio (Mountain Lake, Presidio Hills; Howell, et al., CCH). Reported from Laguna Honda Valley; extirpated from the Presidio.	h	р	Aquatic, submersed, from rhizomes. Ponds, streams, lakes; Elevation: < 2600 m. WET: OBL	1	Jun-Sept	no	Y/Y
HAL	Myriophyllum spicatum	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	р	Naturalized. Ditches, lake margins; Elevation: < 2080 m. WET: OBL	1	Jul-Sep	no	N/N
MRT	Myrtus communis	myrtle	Not included in Howell, et al. 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	<u>Najas guadalupensis s</u> sp.	southern water-nymph	Recorded historically (1897, as full species) from the Presidio (Mountain Lake; Howell, et al., CCH). Extirpated; last collected in 1928.	h	а	Aquatic, submersed. Ponds, lakes; Elevation: < 1200 m. WET: OBL	0	Jun-Aug	no	Y/Y
AML	Narcissus papyraceus	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	р	Ornamental; not naturalized. Bulb-forming.	2	sp	no	N/N
AML	Narcissus pseudonarcissus	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	р	Naturalized. Bulb-forming. Disturbed places; Elevation: < 350 m.	4	sp	no	N/N
AML	Narcissus tazetta	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	р	Naturalized. Bulb-forming. Disturbed places, former home sites; Elevation: < 600 m.	1	sp	no	N/N
BRA	Nasturtium officinale	common water-cress	[Rorippa nasturtium-aquaticum] 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, et al., 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	р	Rhizomatous. Streams, springs, marshes, lake margins, swamps; Elevation: < 3000 m. WET: OBL	16	Mar-Nov	no	Y/Y
PLM	Navarretia linearifolia ssp. pinnatisecta	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	Navarretia squarrosa.	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, et al., 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	а	With skunk-like odor. Open, wet, gravelly flats, slopes; Elevation: < 1100 m. WET: FACU	21	Jun-Aug	no	Y/Y
BOR	Nemophila heterophylla	small baby blue eyes	Previously included in the Hydrophyllaceae. Recorded historically (1880) from "SF" and Visitación Valley (Howell, et al.); 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	Nemophila maculata	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	а	Meadows, road-banks, woodland; Elevation: 60- 3100 m.	3	May-Jul	CA	N/Y
BOR	<u>Nemophila menziesii</u> 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, et al., CCH). Reported (as full species) from Bernal Hts., Glen Cyn., the Presidio (Ft. Point), and Tank Hill; needs id.	h	а	n/a	4	Feb-Jun	no	Y/Y
BOR	Nemophila menziesii var. atomaria	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	Nemophila menziesii var. menziesii	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, et al., 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	а	Meadows, grassland, chaparral, woodland, slopes, desert washes; Elevation: 15-1600 m.	0	Feb-Jun	no	Y/Y
BOR	Nemophila parviflora var.	smallflower blue eyes	Previously included in the Hydrophyllaceae. Known from a single collection (c. 1890) at Mt. Sutro (CCH); not included in Howell, et al. Extirpated; last collected in 1890. Presumably N.p. var. parviflora.	h	а	Woodland, forest, road-sides, slopes; Elevation: < 1600 m.	0	Mar-Jul	no	Y/Y

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BOR	Nemophila pedunculata	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	а	Ocean bluffs, grassland, slopes, meadows, sandbars, fields, woodland, stream-banks; Elevation: < 2400 m. WET: FAC	8	Feb-Jul	no	Y/Y
SOL	Nicotiana glauca	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	р	Naturalized. Open, disturbed flats or slopes; Elevation: < 1100 m. WET: FAC	3	Jun-Aug	no	N/N
SOL	Nicotiana quadrivalvis	Indian tobacco	[N. bigelovii] Recorded (c. 1900) historically from se. SF (Howell, et al.); 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	Nicotiana ^x sanderorum	(no common name)	[N. * sanderi, pending; N. * sanderae, Horticultural hybrid between N. alata and N. forgetiana.] Recorded historically (c. 1955) from Golden Gate Park (Howell, et al.); there are no SF records in CCH. There are no contemporary reports from SF.	h	р	Waif or garden escape; not naturalized.	0	sum-fall	no	N/N
RAN	Nigella damascena	love-in-a-mist	Not included in Howell, et al. 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	Nothoscordum bivalve	crowpoison	Previously included in the Liliaceae. Not included in Howell, et al. and there are no SF records in CCH. Reported from Ina Coolbrith Park.	gp	р	Waif or garden escape; not naturalized	1	sp	no	N/N
NYM	Nuphar polysepala	Rocky Mt. pond lily	[N. polysepalum; N. lutea ssp. p.] Known from a single 1899 collection from the Presidio (Mountain Lake; Howell, et al.); there are no SF records in CCH. Extirpated; last collected in 1899.	h	р	Aquatic, rhizomatous. Ponds, slow streams; Elevation: < 2500 m. WET: OBL	0	Mar-May	no	Y/Y
PTG	Nuttallanthus texanus	large blue toadflax	[Linaria canadensis var. t.] Previously included in the Scrophulariaceae. Recorded historically (1927) from Lake Merced, the Presidio (Baker Beach), and Sunset Dist. dunes (Howell, et al., CCH). Reported [as N. canadensis, 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	Nymphaea mexicana	yellow waterlily	Not included in Howell, et al. and there are no SF records in CCH. Reported from Lake Merced.	h	р	Naturalized. Rhizomatous. Lakes, ponds, slow streams; Elevation: < 100 m. WET: OBL	1	Apr-Jul	no	N/N
ROS	Qemleria cerasiformis	oso berry	[Osmaronia 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, et al., 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	Υ/Υ
API	Qenanthe sarmentosa.	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	р	Streams, marshes, ponds, generally aquatic; Elevation: < 1800 m. WET: OBL	23	Jun-Oct	no	Y/Y
ONA	Oenothera biennis	common evening-primrose	Not included in Howell, et al. 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	Oenothera elata ssp. hirsutissima	hairy evening-primrose	Known from a single 1936 collection from Lake Merced (CCH); not included in Howell, et al. Extirpated	h	b	Moist places, generally inland; Elevation: < 2800 m. WET: FACW	0	Jun-Sep	no	Y/Y
ONA	Oenothera elata ssp. hookeri	Hooker's evening-primrose	[<u>O.h.</u> ; <u>O.h.</u> , <u>ssp. monteregensis</u>] Recorded historically (1900) from Lake Merced and Land's End (Howell, et al., 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	Oenothera glazioviana	red-sepaled evening-primrose	[<u>O.[*]erythrosepala</u>] Recorded historically (1914) from Golden Gate Park (Howell, et al.); 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	Qenothera rosea.	pink evening-primrose	Recorded historically (c. 1955) from Russian Hill (Howell, et al., CCH). Reported from Golden Gate Park.	h	р	Waif or garden escape; not naturalized. Disturbed places; Elevation: generally < 500 m. WET: FACW	1	May-Jul	no	N/N
ONA	Oenothera speciosa	Mexican evening-primrose	Not included in Howell, et al. 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	р	Naturalized. Disturbed places; Elevation: generally < 500 m.	6	May-Sep	no	N/N
OLE	Olea europaea	Mediterranean olive	Not included in Howell, et al. 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 (Ligget St. Housing, Presidio Bluffs, Simond's Loop, Tennessee Hollow), the Sunset Dist., the Tenderloin, and Yerba Buena Is.; expected elsewhere. INVASIVE STATUS: $L/-/-/-$	t	р	Naturalized. Generally waif, persisting from cultivation; Elevation: < 200 m.	8	Feb-Jun	no	N/N

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT/ECOLOGY ⁸	# OCCURENCES ^h	FLOWERING SEASON ¹	EN DEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ^j /CA
CAC	Opuntia ficus-indica	mission cactus, tuna cactus	Not included in Howell, et al. 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	Opuntia littoralis	coastal prickly pear	Not included in Howell, et al. 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	Osmorhiza berteroi	western sweet cicely	[O. chilensis] Not included in Howell, et al. and there are no historic SF records in CCH. Reported from Interior Greenbelt, Mt. Davidson, the Presidio (Inspiration Pt., Tennessee Hollow), and Sutro Forest. Presumed indigenous to SF.	h	р	Conifer forest, woodland, disturbed areas; Elevation: < 2800 m. WET: FACU	5	Apr-Jul	no	Y/Y
OXL	Oxalis articulata ssp. rubra	jointed wood-sorrel	[<u>O. rubra</u>] Recorded historically (c. 1955) from the Embarcadero, Golden Gate Park, the Richmond Dist., the Sea 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		Naturalized. Rhizomatous with bulb-like tubercles. Disturbed places; Elevation: < 800 m.	7	Apr-Oct	no	N/N
OXL	<u>Oxalis corniculata</u>	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		Naturalized. Tap-rooted, roots at nodes, lacking bulbs. Disturbed areas; Elevation: generally < 1900 m. WET: FACU	21	Jan-Dec	no	N/N
OXL	<u>Oxalis incarnata</u>	crimson wood-sorrel	Recorded historically (1956) from Golden Gate Park, Mt. Sutro, 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	р	Naturalized. Rhizomatous, with bulbs. Shady woodland; Elevation: < 400 m.	37	Mar-Jun	no	N/N
OXL	Oxalis latifolia	broadleaf wood-sorrel	[O. martiniana; O. vallicola] Recorded historically (1977) from the Sunset Dist. (CCH); not included in Howell, et al. Reported from Billy Goat Hill, the Presidio (Lobos Cr. Valley), and the Sunset Dist.	h	р	Waif or garden escape; not naturalized.	2	lwin-esp	no	N/N
OXL	<u>Oxalis oregana</u>	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	р	From creeping rhizomes, without bulbs. Moist conifer forest; Elevation: < 1000 m. WET: FACU	3	Feb-Aug	no	N/Y
OXL	Oxalis pes-caprae	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	р	Naturalized. Rhizomatous, producing numerous bulbs. Disturbed areas, road-sides, grassland, dunes; Elevation: < 820 m.	84	Jan-May	no	N/N
OXL	<u>Oxalis pilosa</u>	coastal native oxalis	[O. albicans ssp. p.; O. corniculata ssp. p.] Recorded historically (1933) from Bayview Hills, Golden Gate Park, Laguna Honda Valley, Lake Merced, Mt. Davidson, San Miguel Hills, Sutro Hts., and Twin Peaks (Howell, et al., CCH). Reported from Bayview Hill, Bernal Hts. Park, Brooks Park, Laguna Honda Valley, McLaren Park, Sutro Forest, and Twin Peaks; extirpated from the Presidio.	h	р	From a more or less woody taproot. Coastal grassland, scrub, chaparral; Elevation: < 1800 m.	7	Feb-Sep	no	Y/Y
OXL	Oxalis purpurea	purple wood-sorrel	Not included in Howell, et al. and there are no SF records in CCH. Reported from Lone Mt., Park Merced, the Richmond Dist., and the Sunset Dist.	h	р	Waif. Bulb-forming. Disturbed places, especially near gardens; Elevation: < 160 m.	1	Jan-Feb	no	N/N
OXL	Oxalis sp.	oxalis	Reported (to genus) from Mt. Davidson; needs id.	h	a-p	n/a	1	n/a	no	n/a
BIG	Pandorea jasminoides	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	р	Ornamental; not naturalized.	2	sp-sum	no	N/N
POA	<u>Panicum capillare</u>	witchgrass	Recorded historically (1957) from Golden Gate Park where it was likely introduced (Howell, et al., 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	Panicum miliaceum ssp.	broomcorn millet	Recorded historically (1954, as full species) from SF (Howell, et al., CCH). Reported (as full species) from the Presidio (Crissy Bluffs and Presidio Hills); needs id. Presumably P.m. ssp. m.	g	a	Naturalized. Disturbed areas, fields, road-sides; Elevation: < 1000 m.	2	Feb-Nov	no	N/N
POA	Parapholis incurva	curved sickle-grass	Recorded historically (1891) from SF (Howell, et al., CCH). Reported from Heron's Head Park, Pier 94, the Presidio (Crissy Field, Doyle Dr. Natural Area, Ft. Point, Presidio Bluffs, WWII Memorial), Sutro Baths, and Yerba Buena Is.	g		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	Parentucellia viscosa	yellow glandweed	[Bellardia v ., pending] Previously included in the Scrophulariaceae. Not included in Howell, et al. 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	Parietaria judaica	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	р	Naturalized. Road-sides, disturbed areas on coastal bluffs; Elevation: < 125 m.	35	Nov-Aug	no	N/N
CRY	Paronychia franciscana	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	р	Naturalized. Mat-forming. Grassy hills; Elevation: < 250 m.	22	sp	no	N/N
POA	Paspalum dilatatum	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		Naturalized. Cespitose, with short rhizomes. Disturbed areas; Elevation: < 1160 m. WET: FAC	2	May-Nov	no	N/N

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POA	Paspalum distichum	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	р	Creeping or cespitose. Edges of lakes, ponds, rice fields, wet roadside ditches; Elevation: < 1770 m. WET: FACW	0	Aug-Sep	no	N/N
PAS	Passiflora manicata	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	р	Waif or garden escape; not naturalized.	2	sum-fall	no	N/N
PAS	Passiflora mixta	passion vine	Not included in Howell, et al. and there are no historic SF records in CCH. Reported from Golden Gate Park and Tank Hill.	v	р	Waif or garden escape; not naturalized.	2	May-Sep	no	N/N
PAS	Passiflora tarminiana	northern banana pasionfruit	Not included in Howell, et al. 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	р	Naturalized. Pine, oak, or riparian woodland; Elevation: < 100 m.	6	Jun-Dec	no	N/N
API	Pastinaca sativa	parsnip	Recorded historically (1956) from San Miguel Hills (Howell, et al., 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	Pectocarya penicillata	winged combseed	Recorded historically (1901) from Brotherhood Way and Lake Merced (Howell, et al., CCH). Extirpated; last collected in 1956.	h	а	Open places, fields, road-sides; Elevation: < 1500 m.	0	Mar-Jun	no	Y/Y
GER	Pelargonium peltatum	ivy geranium	Not included in Howell, et al. and there are no SF records in CCH. Reported from Yerba Buena Is.; expected elsewhere.	h-s	р	Waif or garden escape; not naturalized.	1	Jan-Dec	no	N/N
GER	<u>Pelargonium vitifolium</u>	grape-leaved geranium	Reported historically (1947) from Land's End, Sutro Hts., and Twin Peaks (Howell, et al., CCH). There are no contemporary reports from SF.	h	р	Waif or garden escape; not naturalized.	0	Apr-Aug	no	N/N
GER	Pelargonium [*] domesticum	regal pelargonium	Not included in Howell, et al. and there are no SF records in CCH. Reported from Ft. Funston.	s	р	Ornamental; not naturalized.	1	sp	no	N/N
GER	Pelargonium [×] hortorum	garden geranium	Recorded historically (1951) from the Sea Cliff Dist. (Howell, et al., CCH). Reported from Yerba Buena Is.	h-ss	р	Naturalized. Disturbed sites; Elevation: < 300 m.	1	Jan-Dec	no	N/N
GER	Pelargonium zonale	horseshoe geranium	Recorded historically (c. 1956) from the Sea Cliff Dist. (Howell, et al.); 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	Pellaea andromedifolia	coffee fern	Known from a single collection (c. 1890) from Sunset Hts. (Howell, et al.); 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	р	From long-creeping, branched rhizomes. Generally rocky or dry areas; Elevation: 30-1800 m.	4	n/a	no	Y/Y
PTR	<u>Pellaea mucronata</u> , var.	birdfoot cliffbrake	Recorded historically (1879, as full species) from Bayview Hills (Howell, et al., CCH). Extirpated; last collected in 1900. Presumably P.m. var. m. SF is the type locality (holotype of P.m.)	f	р	From short-creeping, branched rhizomes. Rocky or dry areas; Elevation: 20-2400 m.	0	n/a	no	Y/Y
POA	Pennisetum clandestinum	Kikuyu-grass	Recorded historically (1957) from Golden Gate Park and the Presidio (Howell, et al., CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: L/3/NW,C/NW	g	р	Naturalized. Mat-forming from stolons and rhizomes. Disturbed areas; Elevation: < 100 m.	24	Jan-Dec	no	N/N
POA	Pennisetum setaceum	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	Pennisetum villosum	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	р	Naturalized. Cespitose from elongated rhizomes. Disturbed areas; Elevation: < 200 m.	0	Jun-Aug	no	N/N
AST	Pentachaeta alsinoides	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	а	Grassy areas, open woodland, chaparral openings; Elevation: < 550 m.	0	Mar-Jun	CA	Y/Y
AST	Pentachaeta exilis ssp. exilis	meager pygmy daisy	Known (1868, as full species) from a single collection from "SF" (CCH); not included in Howell, et al. Extirpated	h	а	Grassland, foothill woodland; Elevation: < 900 m.	0	Mar-May	no	Y/Y
BOR	Pentaglottis sempervirens	evergreen bugloss	[Anchusa s.] Recorded historically (1954) from Golden Gate Park (Howell, et al., CCH). Reported from Glen Cyn., Golden Gate Park (AIDS Memorial Grove, Lily Pond, Oak Woodland, misc.), and the Presidio (Lobos Cr. Valley).	h	р	Waif or garden escape; not naturalized.	5	Apr-Jul	no	N/N
PTR	Pentagramma triangularis ssp. triangularis	goldback fern	[<i>Pityrogramma 1</i> .] 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>Gymnapteris t</i> .)	f	р	Rhizomatous. Generally shaded, sometimes rocky or wooded areas; Elevation: < 2300 m.	35	n/a	no	Y/Y
AST	Pericallis ^x hybrida	garden or florist's cineraria	[Senecio hybridus; <u>S. cruentus</u>] 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	Perideridia kelloggii	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 (Crissy Bluffs, Inspiration Pt., Presidio Bluffs, Tennessee Hollow, WWII Memorial).	h	р	Open grassland, serpentine outcrops; Elevation: < 1800 m. SERP: 2.1	10	Jul-Aug	CA	Y/Y

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PLG	Persicaria amphibia	narrow-leaved pondweed	[Polygonum amphibium var. emersum; <u>P. coccineum</u>] Recorded historically (1868) from Brotherhood Way, Lake Merced, Pine Lake, and the Presidio (Mountain Lake, Presidio Hills; Howell, et al., CCH). Reported from Brotherhood Way, Lake Merced, Pine Lake, and the Presidio (Golf Course Natural Area, Mountain Lake). SF is the type locality.	h	р	From rhizomes or stolons. Shallow lakes, streams, shores; Elevation: < 3000 m. WET: OBL	5	Jun-Nov	no	Y/Y
PLG	Persicaria capitata	pink-head knotweed	[Polygonum capitatum] Recorded historically (1977) from near Corona Hts., the Mission Dist. and Pacific Hts. (CCH); not included in Howell, et al. 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	р	Naturalized. Rhizomatous. Disturbed places; cultivated; Elevation: < 500 m. WET: FACU	20	Jun-Sep	no	N/N
PLG	Persicaria lapathifolia	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	Persicaria maculosa	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	Persicaria pensylvanica	pinkweed	[Polygonum pensylvanicum] Recorded historically (c. 1900) from the "n. parts of the city" (Howell, et al.); 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	Persicaria punctata	common water smartweed	[Polyconum punctatum] Recorded historically (1852) from Brotherhood Way, Golden Gate Park, Lake Merced, Pine Lake, and the Presidio (Lobos Cr. Valley, Mountain Lake; Howell, et al., 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	Petasites frigidus var. palmatus	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	Petrorhagia dubia	wilding pink	Not included in Howell, et al. 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	Petrorhagia nanteuilii	Nanteuil pink	Not included in Howell, et al. and there are no SF records in CCH. Reported from the Presidio (Presidio Bluffs); possible mis-id of P. dubia.	h	а	Naturalized. Disturbed areas, road-sides; Elevation: 200-550(1417) m.	1	Mar-May	no	N/N
API	Petroselinum crispum	parsley	Recorded historically (c. 1955) from Land's End (Pt. Lobos), Laurel Hts., and Sutro Hts. (Howell, et al., CCH). Reported from Noe Valley.	h	р	Waif or garden escape; not naturalized. Disturbed areas; Elevation: < 1000 m.	1	Jul-Aug	no	N/N
BOR	Phacelia californica	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, et al., 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	р	Bluffs, open slopes, road cuts, chaparral, woodland; Elevation: < 1000 m. SERP: 1.4	26	Mar-Sep	CA	Y/Y
BOR	Phacelia ciliata	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, et al., CCH). Extirpated; last collected in 1968.	h	а	Clay or gravelly slopes in grassland, fields; Elevation: < 1850 m.	0	Feb-May	no	Y/Y
BOR	Phacelia distans	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	а	Clay to rocky soils, slopes; Elevation: < 2700 m.	33	Mar-May	no	Y/Y
BOR	Phacelia divaricata	divaricate phacelia	Previously included in the Hydrophyllaceae. Known from a single 1890 collection from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1890.	h	а	Open areas, chaparral, woodland, grassland; Elevation: < 1500 m. SERP: 2.3	0	Apr-Jun	CA	Y/Y
BOR	<u>Phacelia douglasii</u>	Douglas' phacelia	Previously included in the Hydrophyllaceae. Recorded historically (1892) from Lake Merced (Howell, et al., CCH, Ochoa, 2001); believed extirpated; last collected in 1934. SF is northernmost station on coast.	h	а	Open, generally sandy areas; Elevation: < 1700 m.	0	Mar-May	no	Y/Y
BOR	Phacelia imbricata var.	imbricate phacelia	Previously included in the Hydrophyllaceae. Known from a single 1957 collection from Hunters Pt. (CCH); not included in Howell, et al. Extirpated; last collected in 1957. Presumably P.i. var. i.	h	р	Slopes, road-sides, flats, canyons, chaparral, woodland; Elevation: 50-2300 m. SERP: 1.7	0	Feb-Apr	no	Y/Y
BOR	<u>Phacelia malvifolia</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, et al., CCH). Reported (as full species) from throughout the city and the Presidio; presumably P.m. var. m.; needs id.	h	а	Sandy or gravelly soils, slopes, scrub, chaparral, conifer forest; Elevation: < 1400 m.	23	Apr-Jul	no	Y/Y
BOR	<u>Phacelia nemoralis</u> var. nemoralis	woods phacelia	Previously included in the Hydrophyllaceae. Recorded historically (1889) from Lake Merced, Mt. Davidson, and Stanford Hts. (San Miguel Hills; Howell, et al., CCH). Extirpated; last collected c. 1957.	h	р	Moist slopes, stream-banks, mixed-evergreen or conifer forest; Elevation: 50-1150 m.	0	Apr-Jul	no	Y/Y

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁶	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT/ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ / CA
BOR	<u>Phacelia ramosissima</u>	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 Edgehill Mt., Grandview Park, and the Presidio (Presidio Hills, Rob Hill).	h	р	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	Phalaris angusta	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
РОА	Phalaris aquatica	Harding-grass	[<u>P. tuberosa, var. stenoptera</u>] Recorded historically (1956) from Golden Gate Park, Islais Cr., Lake Merced, and Park Merced (Howell, et al., 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/-/-	aa	р	Naturalized. Cespitose, rhizomatous. Disturbed areas, road-sides; Elevation: < 1700 m. WET: FACU	11	Apr-Aug	no	N/N
POA	Phalaris californica.	Cal. canary-grass	Recorded historically (1892) from Land's End (Pt. Lobos), Laurel Hill Cemetery, and the Presidio (Baker Beach; Howell, et al., CCH). Reported from the Presidio (Ft. Point, Inspiration Pt., Presidio Bluffs, Tennessee Hollow, WWII Memorial).	g	р	Cespitose. Coastal open fields, disturbed areas, meadows, woodland; Elevation: < 800 m. WET: FAC	5	Apr-Jun	no	Y/Y
POA	Phalaris canariensis	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	<u>Phalaris minor</u>	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	Phalaris paradoxa	hooded canary-grass	[incl. <u>P.p. var. praemorsa</u>] 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	Phleum alpinum (r)	alpine timothy	[<u>P. commutatum</u>] Recorded historically (1862) from the Presidio (Ft. Point; Howell, et al., CCH) Extirpated; last collected in 1892. Reintroduced at the Presidio (Ft. Point). SF is the southernmost station on the coast.	g	р	Cespitose, occasionally rhizomatous. Wet meadows, stream-banks, conifer forest, alpine; Elevation: < 3700 m. WET:FAC	1	Jul-Aug	no	Y/Y
POA	Phleum pratense	common timothy	Recorded historically (c. 1865) from Golden Gate Park, Lake Merced, and the Richmond Dist. (Howell, et al., CCH). There are no contemporary reports from SF; to be expected.	g	р	Naturalized. Loosely to densely cespitose. Disturbed sites, road-sides, cultivated fields; Elevation: < 2750 m. WET: FACU	0	May-Jun	no	N/N
ARE	Phoenix canariensis	Canary Island palm	Not included in Howell, et al. 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	Pholistoma auritum var. auritum	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 reintroduced 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	Photinia ^x fraseri	Fraser's photinia	Not included in Howell, et al. 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	Phragmites australis	common reedgrass	[<u><i>P. communis</i></u>] 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	р	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	Phyla nodiflora	turkey tangle frogfruit	[<i>P.n.</i> vars. <i>canescens, incisa, 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	р	Mat-forming. Wet places, pond margins; Elevation: < 400 m. WET: FACW	1	May-Nov	no	N/Y
ZOS	Phyllospadix torreyi	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	р	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	Physocarpus capitatus	Pacific ninebark	Not included in Howell, et al. and there are no SF records in CCH. Reported from Golden Gate Park where it was presumably planted.	s	р	Moist banks, n-facing slopes, mixed-conifer forest; Elevation: < 1400 m. WET: FACW	1	May-Jun	no	N/Y
РНҮ	Phytolacca americana var. americana	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	р	Naturalized. Disturbed areas, road-sides; Elevation: generally < 1000 m. WET: FAC	19	sum-fall	no	N/N

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РНҮ	Phytolacca heterotepala	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	р	Waif or garden escape; not naturalized. Disturbed areas; Elevation: 10-60 m.	19	sum-win	no	N/N
ARA	Pinellia ternata	crowdipper	Known from a single 1935 collection from Golden Gate Park (CCH); not included in Howell, et al. There are no contemporary reports from SF.	h	р	Agricultural or garden weed.	0	lsp-esum	no	N/N
PIN	Pinus canariensis	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	Pinus contorta ssp.	lodgepole pine	Not included in Howell, et al. 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	Pinus halepensis	Aleppo pine	Not included in Howell, et al. 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	Pinus muricata	bishop pine	Recorded historically (19931) from the Presidio (Baker Beach; CCH); not included in Howell, et al. 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 P.c. ssp. c.	t	ep	Redwood forest, northern coastal conifer forest, closed-cone-pine forest, chaparral; Elevation: < 300 m.	4	n/a	no	N/Y
PIN	Pinus pinea	Italian stone pine	Not included in Howell, et al. and there are no SF records in CCH. Reported from Kite Hill and the Presidio (Lobos Cr. Vallev).	t	ep	Naturalized ornamental.	2	n/a	no	N/N
PIN	Pinus ponderosa var.	ponderosa pine	Not included in Howell, et al. 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	<u>Pinus radiata</u>	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	Pinus sp.	pine	Reported (to genus) from Corona Hts. and McLaren Park; needs id.	t	ep	n/a	2	n/a	no	n/a
ORC	Piperia elegans ssp. elegans	coast rein orchid	[Platanthera e. ssp. e., pending; <u>Habenaria e.</u> ; <u>H. greenei</u>] 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, et al., 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	р	From tubers. Generally dry, open sites, scrub, conifer forest; Elevation: < 500 m.	17	May-Sep	no	Y/Y
ORC	Piperia michaelii	Michael's rein orchid	[<i>Platanthera 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	р	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	Pisum sativum	garden pea	Recorded historically (c. 1955) from Bayview Hills and Hunters Pt. (Howell, et al.); there are no SF records in CCH. There are no contemporary reports from SF.	h	а	Naturalized. Often climbing. Disturbed areas; Elevation: < 1000 m.	0	Feb-May	no	N/N
PIT	Pittosporum crassifolium	thick-leaved pittosporum	Recorded historically (1957) from Golden Gate Park, Lone Mt., and the Presidio (above Baker Beach, Mountain Lake; Howell, et al., CCH). Reported from throughout the city and the Presidio.	s-t	р	Naturalized. Disturbed areas; Elevation: < 200 m.	21	Nov-May	no	N/N
PIT	Pittosporum eugenioides	tarata	Not included in Howell, et al. and there are no SF records in CCH. Reported from Golden Gate Park, Sutro Forest, and Yerba Buena Is.; expected elsewhere.	t	р	Ornamental; not naturalized.	3	sp	no	N/N
PIT	Pittosporum sp.	pittosporum	Reported (to genus) from Bernal Hts. Park, Pine Lake, and Tank Hill; needs id.	s-t	р	n/a	3	n/a	no	N/N
PIT	Pittosporum tenuifolium	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	р	Waif or garden escape; not naturalized. Disturbed areas; Elevation: 10-60 m.	10	Dec-May	no	N/N
PIT	Pittosporum undulatum	Victorian box	Not included in Howell, et al. 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	Plagiobothrys bracteatus	bracted popcornflower	[<u>Allocarya bracteata</u>] Known from a single 1922 collection from Golden Gate Park (Howell, et al.); there are no SF records in CCH. Extirpated; last collected in 1922.	h	а	Vernal pools, wet places in grassland, coastal- sage scrub, chaparral; Elevation: < 2000 m. WET: FACW	0	Apr-May	no	Y/Y

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME [¢]	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ⁸	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ / CA
BOR	Plagiobothrys chorisianus var.	artist's popcornflower	[Allocarya chorisiana] 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 Visitación Valley (Howell, et al., CCH). Extirpated; last collected in 1921. SF is the type locality (holotype of <i>Eritrichium connatifolium</i>).	h	a	WET: OBL	0	Mar-Jun	CA	Y/Y
BOR	Plagiobothrys chorisianus var. chorisianus	Choris's popcornflower	[Allocarya chorisiana] Recorded historically (1902) from the Presidio (CCH); not included in Howell, et al. 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	Plagiobothrys chorisianus var. hickmanii	Hickman's popcornflower	[Allocarya chorisiana var. h.] Known from a single 1865 collection "near SF" (CCH); not included in Howell, et al. 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	Plagiobothrys diffusus	San Francisco popcornflower	[<i>P. reticulatus var. rossianorum , pending; <u>Allocarya diffusa</u>] 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</i>	h	a	Moist places, seeps; Elevation: 30-150 m.	0	Mar-Jun	CA	Υ/Υ
BOR	Plagiobothrys reticulatus var. rossianorum	Fort Ross allocarya	[<i>P. scouleri</i> var. <i>penicillatus</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	Plagiobothrys scouleri	Scouler's popcornflower	[Allocarya californica] Recorded historically (c. 1890) from Lake Merced and Mission Hills (Howell, et al.); 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	Plagiobothrys stipitatus var.	stalked popcornflower	[Allocarya stipitata] Recorded historically (c. 1890, as full species) from Golden Gate Park, Lake Merced, and "SF" (Howell, et al.); there are no SF records in CCH. Extirpated; last collected in 1890.	h	а	Vernal pools, wet sites in grassland; Elevation: < 400 m. WET: FACW	0	Mar-Jun	no	Y/Y
BOR	Plagiobothrys torreyi var. diffusus	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	а	Moist to dry meadows, flats, forest edges; Elevation: 1200-3400 m.	0	Mar-Jun	no	N/Y
PTG	Plantago arenaria	Indian plantain	[P. indica] Recorded historically (1935) from Lake Merced (Howell, et al., CCH). There are no contemporary reports from SF.	h	а	Naturalized. Sandy disturbed areas; Elevation: < 200 m. WET: UPL	0	Jul-Nov	no	N/N
PTG	Plantago coronopus	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	Plantago elongata	annual coastal plantain	<u>[P. bigelovii]</u> Recorded historically (1952) from Land's End (Howell, et al., 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	Plantago erecta	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, et al., CCH). Reported from throughout the city and the Presidio. SF is the type locality (neotype of <i>P.e.</i>)	h	а	Sandy, clay, or serpentine substrates, grassy slopes, flats, open woodland; Elevation: < 700 m. SERP: 1.0	34	Mar-May	no	Y/Y
PTG	Plantago eriopoda	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	р	From a stout caudex. Moist, alkaline places; Elevation: < 1000 m. WET: FACW	0	Jun	no	N/Y
PTG	<u>Plantago lanceolata</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 Visitación Valley (Howell, et al., CCH, Eastwood [1898]). Reported from throughout the city and the Presidio. INVASIVE STATUS: $L/2/-/-$	h	р	Naturalized. Disturbed areas; Elevation: < 1600 m. WET: FAC	78	Apr-Aug	no	N/N
PTG	<u>Plantago major</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	р	Naturalized. Disturbed areas; Elevation: < 2200 m. WET: FAC	27	Apr-Sep	no	N/N
PTG	Plantago maritima	seaside plantain	[P.m. var. californica; P.m. var. juncoides; <u>P. juncoides var. californica</u>] Recorded historically (1887) from Cliff House, Ft. Funston, Land's End, the Presidio (Lobos Cr. Valley, Ft. Point, Presidio Bluffs), and Sutro Hts. (Howell, et al., 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/Armatury Housing), the Sea Cliff Dist., and Sutro Baths.	h	р	From a stout caudex. Coastal bluffs, wet, saline places; Elevation: < 150 m. WET: FACW	15	May-Sep	no	Y/Y

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁴	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT/ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ /CA
PTG	Plantago subnuda.	coastal large-leaf plantain	[P. hirtella var. galeottiana] 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, et al., 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	р	From a stout caudex. Wet meadows, ditches, coastal bluffs, marshes; Elevation: < 300 m. WET: FACW	11	May-Sep	no	Y/Y
ORC	Platanthera dilatata var. leucostachys	tall white rein-orchid	[Habenaria leucostachys; P.I.] Recorded historically (c. 1890) from Visitación Bay, near St. Mary's College (Howell, et al.); 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	р	From an elongated tuber-like rhizome. Wet, generally open places, meadows, seeps, stream- banks; Elevation: < 3400 m.	0	May-Sep	no	?/Y
PLT	Platanus racemosa	Cal. sycamore	Recorded historically (1837) from a single collection from "SF" (CCH); not included in Howell, et al. 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	Platystemon californicus	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	а	Open grassland, sandy soil, burns; Elevation: < 1000 m. SERP: 1.7	0	Feb-May	no	Y/Y
AST	Plecostachys serpyllifolia	petite-licorice	Not included in Howell, et al. and there are no SF records in CCH. Reported from the Presidio (Golf Course Natural Area, Mountain Lake, Tennessee Hollow). INVASIVE STATUS: $W/-/-/-$	ss	р	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	Plectritis congesta ssp. brachystemon	shortspur seablush	[P. aphanoptera] Known from a single 1936 collection from Lake Merced (Howell, et al., CCH). Extirpated; last collected in 1936.	h	а	Coastal bluffs, open, partly shaded slopes; Elevation: < 1900 m. WET: FACU	0	Mar-Jun	no	Y/Y
VAL	<u>Plectritis macrocera</u>	longhorn plectritis	Recorded historically (1890) from Brotherhood Way and Mission Hills (Howell, et al.); there are no SF records in CCH. Extirpated; last collected in 1890.	h	а	Open, partly shaded slopes; Elevation: < 2000 m. WET: FACU	0	Mar-May	no	Y/Y
POA	<u>Pleuropogon californicus</u> var.	annual semaphore grass	Recorded historically (1866, as full species) from a single collection from the Mission Dist. (Howell, et al., CCH). Extirpated; last collected in 1866. Presumably P.c. var. c.	h	а	Wet places, vernal pools, wet grassland; Elevation: < 650 m. WET: OBL	0	Mar-Jun	CA	Y/Y
POA	<u>Poa annua</u>	annual bluegrass	Recorded historically (1932) from SF (Howell, et al., CCH). Ubiquitous.	g	a-b	Naturalized. Disturbed moist ground; Elevation: generally < 2000 m. WET: FAC	44	Feb-Sep	no	N/N
POA	Poa compressa.	Canada bluegrass	Recorded historically (1954) from Golden Gate Park (Howell, et al., CCH). There are no contemporary reports from SF; to be expected.	g	р	Naturalized. From long, stout rhizomes. Moist, often disturbed low ground; Elevation: < 1800 m.	0	Apr-May	no	N/N
POA	Poa douglasii	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, et al., 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	р	From long rhizomes or stolons. Coastal dunes; Elevation: generally < 100 m. WET: FACU	12	Mar-Jul	CA	Y/Y
POA	Poa fendleriana ssp. longiligula	Fendler's bluegrass	Known from a single 1886 collection from "SF" (CCH); not included in Howell, et al. Native Cal. taxon but not considered indigenous here; SF occ. represents an extreme range extension. There are no contemporary reports from SF.	g	р	Densely cespitose, generally with short rhizomes. Slopes, sagebrush scrub to subalpine; Elevation: 2000-3200 m.	0	Feb-Mar	no	N/Y
POA	Poa howellii	Howell's bluegrass	Known from two 1868 collections from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1932.	g	а	Cespitose. Rocky banks, shaded slopes of woodland, chaparral, disturbed places; Elevation: generally < 1700 m.	0	Apr-Jun	no	Y/Y
POA	<u>Poa nemoralis</u>	wood bluegrass	Recorded historically (1922) from Golden Gate Park (Howell, et al., CCH). There are no contemporary reports from SF; to be expected.	g	р	Naturalized. Cespitose. Disturbed moist places in forest, rocks near streams; Elevation: generally < 2000 m. WET: FAC	0	May-Jun	no	N/N
POA	<u>Poa pratensis</u> ssp. pratensis	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, et al., CCH). Reported from the Bernal Hts. Dist., Golden Gate Park, the Presidio (Ft. Scott), and the Sunset Dist.; expected elsewhere. INVASIVE STATUS: $L/-/-/-$	g	р	Naturalized. From multiple, long, stout rhizomes, tufted or loosely cespitose. Disturbed habitats, including saline or alkaline soils; Elevation: < 3500 m. WET: FAC	3	Mar-Jul	no	N/N
POA	Poa secunda ssp. secunda	one-sided bluegrass	[<u>P. scabrella</u>] 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	р	Densely cespitose. Dry slopes to saline/alkaline meadows to alpine; Elevation: < 3900 m. WET: FACU	7	Mar-Aug	no	Y/Y
POA	Poa sp.	bluegrass	Reported (to genus) from Twin Peaks; needs id.	g	a-p		1	n/a	no	n/a
POA	<u>Poa trivialis</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	р	Naturalized. Cespitose or with short stolons. Disturbed moist places; Elevation: < 700 m. WET: FACW	0	Feb-Mar	no	N/N

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME [¢]	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM [°]	DURATION ^f	HABIT / ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ¹	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ /CA
POA	<u>Poa unilateralis</u> ssp. unilateralis	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, et al., 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	р	Densely cespitose. Coastal bluffs, in more-or- less saline soils; Elevation: < 410 m. WET: FACU	17	Mar-Jun	no	Y/Y
LAM	Pogogyne douglasii ssp. parviflora	Douglas' mesa-mint	[Unresolved variant of P.d.] Known from a single 1876 collection from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1876.	h	а	Meadows, freshwater-marsh, vernal-pools. WET: OBL	0	Apr-Jul	CA	Y/Y
LAM	Pogogyne serpylloides	thyme-leaf mesa-mint	Known from a single 1817 collection from Lone Mt. (CCH); not included in Howell, et al. Extirpated; last collected in 1817.	h	а	Grassy, brushy areas; Elevation: < 1200 m. WET: FACW	0	Mar-May	CA	Y/Y
PLM	Polemoneum carneum	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	Polycarpon tetraphyllum var.	four-leaved allseed	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, et al., 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	Polygala californica	Cal. milkwort	[Rhinotropis c., pending] Known from a single 1932 collection (to genus only) from Golden Gate Park (CCH); not included in Howell, et al. 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	р	Rhizomatous. Coastal prairie and forest, chaparral, occasionally on serpentine; Elevation: 10-1400 m.	4	Apr-Jul	no	Y/Y
PLG	Polygonum argyrocoleon	Persian knotweed	Recorded from near Islais Cr. (Howell, et al., CCH). There are no contemporary reports from SF.	h	а	Naturalized. Disturbed places, often in saline soils; Elevation: < 1000 m. WET: FAC	0	Jun-Oct	no	N/N
PLG	<u>Polygonum aviculare</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	Polygonum aviculare ssp. aviculare	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	Polygonum aviculare ssp. depressum	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	Polygonum aviculare ssp. neglectum	prostrate knotweed	[P. arenastrum] Recorded historically (1957) from near Islais Cr. (CCH); not included in Howell, et al. 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	Polygonum californicum	Cal. knotweed	Known from a single 1900 collection from Golden Gate Park (CCH); not included in Howell, et al. Native Cal. taxon but not considered indigenous here; SF occ. represents an 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	Polygonum paronychia	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	р	Coastal dunes, scrub; Elevation: < 50 m.	28	Mar-Sep	no	Y/Y
PLG	Polygonum ramosissimum ssp.	bushy knotweed	Known (1837, as full species) from a single collection from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1937. Presumably P.r. ssp. r.	h	а	Disturbed places, saline marshes; Elevation: < 200 m. WET: FAC	0	Jul-Sep	no	Y/Y
PLG	Polygonum 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	Polypodium californicum	Cal. polypody	[incl. <u>P.c. var. kaulfissii</u>] 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	р	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	Polypodium calirhiza	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	р	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	Polypodium glycyrrhiza	sweet-licorice fern	Recorded historically (1956) from McLaren Park and San Miguel Hills (CCH); not included in Howell, et al. Reported from Sutro Forest.	f		Rhizomatous. Generally near coast. Epiphytic, on rocks, moist rocky banks, mossy logs; Elevation: < 600(1200) m.	1	n/a	no	Y/Y
PLP	<u>Polypodium scouleri</u>	leather-leaved polypody	Recorded historically (1879) from Bayview Hills, Clarendon Hts., Golden Gate Hts., Golden Gate Park, McLaren Park, Mt. Davidson, Mt. Sutro, the Presidio Golf Course, O'Shaughnessy Hollow, San Miguel Hills, Sunset Hts., and Twin Peaks (Howell, et al., 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., Sutro Forest, Tank Hill, and Twin Peaks.	f	р	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	Polypogon interruptus	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, Sutro 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, Pt. Point, Lobos Cr. Valley, Mountain Lake, Presidio Hills, Tennessee Hollow, WWII Memorial): expected elsewhere.	g	р	Naturalized. stream-banks; Elevation: < 1300 m. WET: FACW	10	May-Aug	no	N/N
POA	Polypogon maritimus	Mediterranean beard-grass	Not included in Howell, et al. 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 Sutro Baths.	g	а	Naturalized. Moist places; Elevation: < 600 m. WET: OBL	6	Jun	no	N/N
POA	Polypogon monspeliensis	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		Naturalized. Moist places, along streams; Elevation: < 2100 m. WET: FACW	24	Apr-Aug	no	N/N
POA	Polypogon viridis	water beard-grass	[Agrostis semiverticillata; Agrostis v.] 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 (Ft. Point), Russian Hill, and Sutro Forest (Howell, et al., 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, WVII Memorial), and Yerba Buena Is.	g		Naturalized. Disturbed areas, wet areas, ponds, stream-banks; Elevation: < 3000 m. WET: FACW	11	May-Jun	no	N/N
DRY	Polystichum dudleyi	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	р	Rhizomatous. Moist forests; Elevation: < 500 m.	1	n/a	no	Y/Y
DRY	Polystichum munitum	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 (Ft. 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	р	Rhizomatous. Wooded hillsides, shaded slopes, rarely cliffs, outcrops; Elevation: < 1600 m. WET: FACU	56	n/a	no	Y/Y
SAL	Populus fremontii ssp. fremontii	Fremont's cottonwood	Not included in Howell, et al. 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	Populus nigra	Italian or Lombardy poplar	Not included in Howell, et al. 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	Populus 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	Populus tremuloides	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	Portulaca oleracea	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	Potamogeton alpinus	alpine pondweed	Known from a single 1894 collection from the Presidio (Mountain Lake; CCH); not included in Howell, et al. Native Cal. taxon but not considered indigenous here; SF occ. represents an extreme range extension. There are no contemporary reports from SF.	h	р	Aquatic, rhizomatous. Ponds, lakes, marshes; Elevation: 1300-2350 m. WET: OBL	0	Jul-Sep	no	N/Y
POT	Potamogeton crispus	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	р	Naturalized. Aquatic. Shallow water, ponds, streams; Elevation: < 2100 m. WET: OBL	0	Apr-May	no	N/N
POT	<u>Potamogeton foliosus</u> ssp.	leafy pondweed	Recorded historically (c. 1890, as full species) from Golden Gate Park and "SF" (Howell, et al., CCH). Extirpated; last collected in 1957. Presumably P.f. ssp. f.	h	р	Aquatic, rhizomatous. Ponds, lakes, streams; Elevation: < 2300 m. WET: OBL	0	May-Jun	no	Y/Y
POT	Potamogeton illinoensis	shining pondweed	Recorded historically (1893) from Ingleside, Lake Merced, Mission Dolores, and the Presidio (Mountain Lake; Howell, et al., CCH). Extirpated; last collected in 1920. Not likely indigenous to SF.	h	р	Aquatic, rhizomatous. Lakes, ponds, streams; Elevation: 400-2350 m. WET: OBL	0	Jun-Aug	no	N/Y

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ^c	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT/ECOLOGY ⁸	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ /CA
POT	Potamogeton natans	floating pondweed	Recorded historically (1888) from the Presidio (Marine Hospital); not included in Howell, et al. and there are no SF records in CCH. There are no contemporary reports from SF.	h	р	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	Potamogeton nodosus	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	р	Aquatic, rhizomatous. Shallow water, lakes, ponds, streams; Elevation: 100-2750 m. WET: OBL	0	Jul-Aug	no	Y/Y
POT	Potamogeton pusillus	small pondweed	[<u>P.p. var. minor</u>] 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	р	Aquatic, rhizomatous. Shallow water, ponds, lakes, vernal pools, slow streams; Elevation: < 2700 m. WET: OBL	0	May-Jun	no	Y/Y
POT	Potamogeton sp.	pondweed	Reported (to genus) from Sutro Baths (J. Sigg, 1993); needs id. Howell, et al. lists P. crispus, P. foliosus, P. illinoensis, P. nodosus, P. pusillus and Stuckenia pecinata (P. pectinatus).	h	р	n/a	1	n/a	no	n/a
ROS	Potentilla anglica	english cinquefoil	Recorded historically (1947) from Golden Gate Park (CCH); not included in Howell, et al. Reported from Golden Gate Park.	h	р	Naturalized. Tufted from stolons. Stream- banks; Elevation: 40-160 m.	1	May-Sep	no	N/N
ROS	Potentilla anserina ssp. pacifica	common silverweed	[Argentina anserina, pending; <u>P. egedii var. grandis</u>] Recorded historically (1891) from Alemany Blvd., Brotherhood Way, Golden Gate Park, Lake Merced, Lone Mt., McLaren Park, Pine Lake, the Presidio (Ft. Point, Mountain Lake), San Miguel Hills, and Twin Peaks (Howell, et al., 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	р	Tufted, from stolons. Coastal wetlands, often brackish; Elevation: generally < 150 m. WET: OBL	18	Mar-Oct	no	Y/Y
ROS	Potentilla recta	sulphur cinquefoil	Recorded historically (c. 1953) from SFSU (Howell, et al.); 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	р	Naturalized. Tufted. Generally disturbed areas; Elevation: 150-1500 m.	2	May-Aug	no	N/N
ROS	Potentilla rivalis	brook cinquefoil	[<i>P.r.</i> var. <i>millegrana</i> ; <u><i>P. millegrana</i></u>] 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	Poterium sanguisorba	small burnet	[Sanguisorha minor] Recorded historically (1930) from "SF" (Howell, et al., CCH). Reported from the Sunset Dist.	h	р	Naturalized. Tufted. Open, especially disturbed areas; Elevation: 22-1830 m. WET: FACU	0	Mar-Jul	no	N/N
PRM	Primula clevelandii var. patula	Cleveland's shooting star	[Dodecatheon c, ssp. patulum] Recorded historically (1893) from Bernal Hts., Land's End (Pt. Lobos), and McLaren Park (Howell, et al., 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	р	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	Primula hendersonii	Pacific shooting star	[Dodcatheon h. ssp. cruciatum] Recorded historically (1888) from Mt. Davidson, Potrero Hills, and se. SF (Howell, et al., CCH). Reported from Bayview Hill, Bernal Hts. Park, Billy Goat Hill, McLaren Park, Mt. Davidson, the Presidio (Presidio Bluffs), and Twin Peaks.	h	р	Generally in shady sites; Elevation: < 1900 m.	7	Mar-Jul	no	Y/Y
LIL	Prosartes hookeri	Hooker's fairy bells	[Disporum h.] Recorded historically (1880) from the hills s. of Golden Gate Park, Mt. Sutro (Howell, et al., CCH). Reported from Mt. Davidson and Sutro Forest/Interior Greenbelt where it reportedly is well established.	h	р	Rhizomatous. Montane conifer, mixed- evergreen forest, exposed road-sides; Elevation: < 1600 m.	3	Mar-Jun	no	Y/Y
LAM	<u>Prunella vulgaris var. lanceolata</u>	lance-leaf self-heal	Recorded historically (1866) from Mt. Davidson, Potrero Hills, and the Presidio (Howell, et al., CCH). Reported from the Presidio (Crissy Field, Inspiration Pt., Presidio Bluffs), and Yerba Buena Is.	h	р	Moist areas, generally conifer forest, woodland; Elevation: < 2500 m. WET: FACU	4	May-Sep	no	Y/Y
LAM	Prunella vulgaris var. vulgaris	common self-heal	[P.v. var. parviflora: P.v. var. atropurpurea] Recorded historically (1941) from Golden Gate Park, Land's End (Pt. Lobos), the Presidio (Ft. Point, Presidio Bluffs), St. Mary's Hospital and the Sunset Dist. (Howell, et al., 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/Armatury Housing, WWII Memorial), and SFSU; expected elsewhere.	h	р	Naturalized. Moist, disturbed sites; Elevation: < 2500 m. WET: FACU	14	Jul-Aug	no	N/N
ROS	Prunus cerasifera	wild or cherry plum	Recorded historically (1962) from Golden Gate Park (CCH); not included in Howell, et al. 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	Prunus dulcis	almond	Not included in Howell, et al. 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	Pruvus emarginata	western bitter-cherry	Recorded historically (1921) from Glen Cyn. and Golden Gate Park (CCH); not included in Howell, et al. 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	Υ/Υ

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁶	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM [°]	DURATION ^f	HABIT / ECOLOGY ⁸	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ^j /CA
ROS	<u>Prunus ilicifoli</u> a ssp. ilicifolia	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, Sutro 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	Prunus ilicifolia ssp. lyonii	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	Prunus lauro cerasus	cherry laurel	Not included in Howell, et al. 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	Prunus 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	Prunus virginiana var. demissa	common choke cherry	[<u>P. demissa</u>] Recorded historically (1920) from Bayview Hills, Brotherhood Way, Lake Merced, San Miguel Hills, and Twin Peaks (Howell, et al., 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 Sutro 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	Pseudognaphalium beneolens	coastal pearly everlasting	[Gnaphalium b.; G. anescens ssp. b.] Not included in Howell, et al. 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 speciemen 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	Pseudognaphalium biolettii	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	р	Sharply scented. Rocky slopes, road-sides, dunes, coastal scrub, chaparral, oak woodland; Elevation: 5-600(1200) m.	1	Apr-Jun	no	N/Y
AST	Pseudognaphalium californicum	coastal cudweed	[<u>Gnaphalium c</u> .] Recorded historically (1893) from Bayview Hills, Laguna Honda Valley, Lake Merced, Land's End (Pt. Lobos), Mt. Davidson, Mt. Sutro, 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	Pseudognaphalium luteoalbum	red-tipped cudweed	[Gnaphalium luteo-allown] 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, stream- beds, drying mud; Elevation: < 850 m. WET: FAC	32	Apr-Aug	no	N/N
AST	Pseudognaphalium microcephalum	Wright's cudweed	[<u>Gnaphalium m</u> .] Recorded historically (1956) from Bayview Hills, Lake Merced, O'Shaughnessy Hollow, and Potrero Hills (Howell, et al., CCH). Extirpated; last collected in 1957.	h	р	Grassy hillsides, gravelly canyon bottoms, chaparral, coastal-sage scrub; Elevation: < 2250 m.	0	Jul-Oct	no	Y/Y
AST	Pseudognaphalium ramosissimum	pink everlasting	[Gnaphalium r.]. Recorded historically (1852) from Golden Gate Park, Laguna Honda Valley, Lake Merced, Mt. Sutro, Pine Lake, and the Presidio (Lobos Cr. Valley; Howell, et al., 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.	ь	b	Scented. Dry, open slopes, woodland, sandy fields, dunes; Elevation: < 600 m.	19	Jul-Sep	CA	Y/Y
AST	Pseudognaphalium stramineum	cotton-batting cudweed	[Gnaphalium s.; G. chilense] 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, et al., 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	Pseudosasa japonica	arrow bamboo	<i>Arundinaria j.</i>] Recorded historically (c. 1955) from Golden Gate Park (Stow Lake; Howell, et al., CCH). There are no contemporary reports from SF.	g	р	Possibly naturalized.	0	n/a	no	N/N
PIN	Pseudotsuga menziesii var. menziesii	Douglas-fir	Not included in Howell, et al. 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	Psilocarphus tenellus	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	Pteridium aquilinum y ar. pubescens	western bracken-fern	Recorded historically (1902) from Bayview Hills, Golden Gate Park, Laguna Honda Valley, Lake Merced, Land's End, Lone Mt., Mt. Sutro, 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	р	Thizomatous. Pastures, woodland, meadows, hillsides, partial to full sun; Elevation: < 3200 m. WET: FACU	54	n/a	no	Y/Y

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PLG	Pterostegia drymarioides	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	а	Sprawling. Sand or gravel; Elevation: < 1600 m.	7	Mar-Jul	no	Y/Y
POA	Puccinellia distans	European alkali grass	Recorded historically (c. 1955) from near Islais Cr., Potrero Hill, and Russian Hill (Howell, et al., 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	р	Naturalized. Saline meadows, flats; Elevation: < 2700 m. WET: FACW	1	Jun-Jul	no	N/N
POA	Puccinellia nutkaensis	Nootka alkali grass	Known from a single 1934 collection from "near SF" (CCH); not included in Howell, et al. There are no contemporary reports from SF. Native Cal. taxon but not considered indigenous here; SF represents an extreme range extension.	g	р	Marshes, wet sites; Elevation: < 10 m. WET: OBL	0	Jun	no	N/Y
ROS	Pyracantha angustifolia	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	р	Naturalized. Disturbed areas, fencerows, abandoned fields, road-sides; Elevation: < 200 m.	13	Feb-Jun	no	N/N
ROS	Pyracantha coccinea	scarlet firethorn	Not included in Howell, et al. and there are no SF records in CCH. Reported from Glen Cyn., the Presidio (Officer's Row), the Richmond Dist., Visitación Valley, and Yerba Buena Is.; expected elsewhere. INVASIVE STATUS: $L/-/-/-$	s	р	Waif or garden escape; not naturalized. Mixed- conifer forest, disturbed ground; Elevation: < 1500 m.	3	May-Jun	no	N/N
FAG	<u>Quercus agrifolia</u> var. agrifolia	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 Visitación 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	Quercus chrysolepis	canyon oak	Known from a single 1956 collection from Brotherhood Way (Howell, et al., 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	Quercus garryana var.	Oregon oak	Not included in Howell, et al. 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	Quercus kelloggii	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	Quercus lobata	valley oak	Not included in Howell, et al. 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	Quercus parvula var. shrevei	Shreve's oak	Not included in Howell, et al. 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	Quercus suber	cork oak	Not included in Howell, et al. 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	Quercus wislizeni var. frutescens	interior live oak	Not included in Howell, et al. 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	Quercus ^x morehus	oracle oak	[Q. moreha. Fertile hybrid between Q. kelloggii and Q. wislizeni var. frutescens.] Not included in Howell, et al. 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	<u>Rafinesquia californica (</u> 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	а	Open sites in scrub, woodland; often common after fire; Elevation: 100-1500 m.	1	Apr-Jul	no	Y/Y
RAN	Ranunculus aquatilis var. diffusus	whitewater crowfoot	[<i>R.a.</i> , var. <i>capillaceus; 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	р	Aquatic or creeping on mud. Ponds, lakes, streams, river edges; Elevation: < 3200 m. WET: OBL	0	Apr-Jul	no	Y/Y
RAN	Ranunculus californicus 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	р	WET: FACU	41	Mar-Aug	no	Y/Y

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Linderlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME [¢]	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT/ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ /CA
RAN	<u>Ramunculus californicus</u> var. californicus	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	р	Grassland, open woodland; Elevation: < 2000 m. WET: FACU	5	Mar-Aug	no	Y/Y
RAN	Ranunculus californicus var. cuneatus	Cal. buttercup	Recorded historically (1909) from Land's End, Pt. Lobos, the Presidio (Presidio Bluffs), and Twin Peaks (Howell, et al., CCH). Rediscovered in 2011 atop the north summit of Twin Peaks (CCH).	h	р	Coastal bluffs, hillsides; Elevation: < 200 m. WET: FACU	1	Mar-Aug	no	Y/Y
RAN	Ranunculus hebecarpus	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	0	Mar-May	no	Y/Y
RAN	Ranunculus muricatus	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, et al., CCH). Reported from Glen Cym., 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	Ranunculus orthorhynchus var. bloomeri	Bloomer's buttercup	[R. bloomeri] Recorded historically (1890) from Mt. Davidson, and se. SF (Howell, et al., CCH). Extirpated; last collected in 1890.	h	р	Meadows, marshy areas; Elevation: < 100 m. WET: FACW	0	Mar-May	no	Y/Y
RAN	Ranunculus repens	creeping buttercup	Recorded historically (1957) from Ft. Mason, Golden Gate Park, Pacific Hts., and the Richmond Dist. (Howell, et al., CCH). Reported from Golden Gate Park (Chain-of-Lakes) and Land's End. INVASIVE STATUS: L/–/–/–	h	р	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	<u>Raphanus raphanistrum</u>	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	<u>Raphanus sativus</u>	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	<u>Rapistrum rugosum</u>	annual bastard cabbage	Recorded historically (1930) from Corona Hts. and Golden Gate Park (Howell, et al., 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	<u>Reseda alba</u>	white mignonette	Recorded historically (1919) from several now urbanized areas of SF (Howell, et al., CCH). There are no contemporary reports from SF.	h	р	Naturalized. Disturbed areas, fields, road-sides; Elevation: < 100 m.	0	May-Nov	no	N/N
RHM	Rhamnus alaternus	Italian buckthorn	Not included in Howell, et al. 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	Rhannus crocea.	spiny redberry	Recorded historically (1892) from Mt. Davidson, Mt. Sutro, and San Miguel Hills (Howell, et al., 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	Rhaphiolepis indica	Indian hawthorn	Not included in Howell, et al. 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	Rhododendron occidentale	western azalea	Known from a single 1892 collection from Lake Merced (CCH); not included in Howell, et al. 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	Rhus integrifolia	lemonade berry	Not included in Howell, et al. 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	Ribes aureum 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>R.a.</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	Ribes californicum var. californicum	Cal. or hillside gooseberry	Prevously included in the Saxifragaceae. Known from a single 1900 collection from "SF" (CCH); not included in Howell, et al. 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	р	Forest openings, woodland; Elevation: < 720 m.	1	Feb-Mar	no	Y/Y
GRS	<u>Ribes divaricatum</u> var. pubiflorum	spreading gooseberry	[Grossularia divaricata] Previously included in the Saxifragaceae. Recorded historically (1896) from Brotherhood Way, Laguna Honda Valley, and Visitación Valley (Howell, et al., CCH). Reported from Brotherhood Way, Glen Cyn., Lake Merced, and Tank Hill.	s	р	Coastal bluffs, forest edges; Elevation: 5-1485 m. WET: FAC	4	Mar-May	no	Y/Y
GRS	Ribes indecorum	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	<u>Ribes malvaceum</u> 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	<u>Ribes menziesii</u> var. menziesii	canyon gooseberry	[Grossularia menziesii] Previously included in the Saxifragaceae. Recorded historically (c. 1890, as full species) from Laguna Honda Valley, se. SF, and Sunset Hts. (Howell, et al.); 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	Ribes roezlii var. amictum	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	Ribes sanguineum y ar. glutinosum	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	Ricinus communis	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	р	Naturalized. Disturbed areas; Elevation: < 300 m. WET: FACU	2	Jan-Dec	no	N/N
AST	Rigiopappus leptocladus	false wireweed	Known from a single 1868 collection from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1868.	h	а	Grassy sites, openings among shrubs or trees; Elevation: 100-2200 m. SERP: 1.9	0	Apr-Jul	no	Y/Y
FAB	Rohinia pseudoacacia	black locust	[Also spelled R. pseudo-acacia] Recorded historically (c. 1957) from Golden Gate Park (Chain-of-Lakes; Howell, et al.); there are no SF records in CCH. There are no contemporary reports from SF; to be expected. INVASIVE STATUS: $L/-/-/-$	t	р	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	Romanzoffia californica	Cal. mistmaiden	Known from a single 1900 collection from "SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1900.	h	р	Ocean bluffs, road-banks, wet cliffs, moist rocky areas; Elevation: < 800 m. WET: FAC	0	Mar-May	no	Y/Y
PAP	Romneya coulteri	Coulter's matilija poppy	Not included in Howell, et al. 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	р	Rhizomatous. Dry washes, canyons; Elevation: < 1200 m.	1	Mar-Jul	CA	N/Y
PAP	Romneya trichocalyx	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	р	Dry washes, canyons; Elevation: < 1500 m.	2	Apr-Jun	no	N/Y
BRA	Rorippa curvisiliqua	curve-pod yellow-cress	Recorded historically (1901) from Lake Merced, Pine Lake, and the Presidio (Mountain Lake; Howell, et al., CCH). Reported from Brotherhood Way. Extirpated from the Presidio.	h	а	stream-banks, marshy ground, seepage areas, lake shores, mud flats, meadows; Elevation: < 3500 m. WET: OBL	1	May-Oct	no	Y/Y
ROS	Rosa californica	Cal. wild rose	Recorded historically (1956) from Bayview Hills, Brotherhood Way, Mission Hills, and the Presidio (Lobos Cr. Valley; Howell, et al., 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 Sutro Forest.	s	dp	Generally more-or-less moist areas, especially stream-banks; Elevation: < 1800 m. WET: FAC	22	Feb-Nov	no	Y/Y
ROS	<u>Rosa gynnocarpa</u> , var.	Cal. wood rose	Recorded historically (1917, as full species) from Bayview Hills, Brotherhood Way, Lake Merced, Mt. Davidson, and St. Francis Wood (Howell, et al., CCH). Reported (as full species) from Bayview Hill, Brotherhood Way, Glen Cyn., Interior Greenbelt, Mt. Davidson, O'Shaughnessy Hollow, Sutro Forest, Twin Peaks, and Yerba Buena Is. Presumably R.g. var. g.	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	Rosa sp.	garden rose	Reported (to genus) from Palou-Phelps; needs id.	s-v	dp		1	n/a	no	n/a
ROS	Rubus armeniacus	Himalayan blackberry	[<i>R. discolor; <u>R. procerus</u>, misappl.</i>] 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	р	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	Rubus parviflorus	western thimbleberry	[Incl. <u>R.p. var. relutinus</u>] Recorded historically (1934) from Brotherhood Way, Golden Gate Park, Laguna Honda Valley, and Lake Merced (Howell, et al., 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 Sutro 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	Rubus pensilvanicus	Pennsylvania blackberry	Recorded historically (1956) from Golden Gate Park (CCH); not included in Howell, et al. 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	Rubus spectabilis (r)	salmonberry	Recorded historically (1895) from Golden Gate Park and Sutro Forest (Howell, <i>et al.,</i> CCH). Extirpated; last collected in 1896. Reintroduced at Sutro Forest.	s	р	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	Rubus ulmifolius var. anoplothyrsus	elm-leaf blackberry	[<u>Ru</u> , var, inermis] Recorded historically (c. 1955) from near Islais Cr. (Howell, et al.); there are no SF records in CCH. Reported from Laguna Honda Valley; expected elsewhere.	s-v	р	Naturalized. Erect to arched; lacks prickles. Moist, disturbed areas; Elevation: < 1050 m.	2	May-Jul	no	N/N
ROS	Rubus ursinus	Cal. blackberry	[Incl. <u>R.u. vars. glabratus</u> and sirbenus] 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	Rumex acetosella	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	р	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	Rumex californicus	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	р	Moist places; Elevation: < 3500 m. WET: FACW	0	May-Sep	no	Y/Y
PLG	Rumex conglomeratus	clustered dock	Recorded historically (1894) from Alemany Blvd., Brotherhood Way, Lake Merced, McLaren Park, the Presidio (Mountain Lake; Howell, et al., 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	р	Naturalized. Moist places; Elevation: < 1500 m. WET: FACW	11	May-Aug	no	N/N
PLG	Rumex crassus	seashore willow-dock	[<u>R. salicifulius var.c.</u> ; <u>R. forma ccallosus</u> ; easily confused with <i>R. salicifulius</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	р	Coastal dunes, sandy shores, marshes; Elevation: < 100 m. WET: FACW	9	Feb-Jul	no	Y/Y
PLG	Rumex crispus	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	р	Naturalized. Disturbed places; Elevation: < 2700 m. WET: FAC	49	Jan-Dec	no	N/N
PLG	Rumex fueginus	American golden dock	[<i>R. persicarioides; 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 (Straw berry Hill).	h	a-p	Riparian, disturbed places, shores, marshes, bogs, wet meadows; Elevation: < 2000 m. WET: FACW	1	May-Jun	no	Y/Y
PLG	Rumex obtusifolius	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, et al., CCH). Reported from the Presidio (Doyle Dr. Natural Area, Dragonfly Cr., Tennessee Hollow) and Yerba Buena Is. INVASIVE STATUS: -/3/-/-	h	р	Naturalized. Moist places; Elevation: < 2000 m. WET: FAC	4	May-Sep	no	N/N
PLG	Rumex occidentalis	western field dock	[incl. R.o. var. procerus] Recorded historically (1894) from Brotherhood Way, Lake Merced, and the Presidio (Ft. Point; Howell, et al., CCH). Reported from Lake Merced, and the Presidio (Crissy Bluffs, Tennessee Hollow).	h	р	Wet habitats; Elevation: < 2500 m. WET: FACW	3	May-Aug	no	Y/Y
PLG	Rumex pulcher	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	р	Naturalized. Disturbed places, meadows, moist or dry habitats; Elevation: generally < 1500 m. WET: FAC	20	May-Sep	no	N/N
PLG	Rumex salicifolius	willow-leaved dock	[R.s. var. s.; easily confused with R. crassus and R. transitorius] 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, et al., 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	р	Wet places, margins, rocky slopes; Elevation: < 3500 m. WET: FACW	16	May-Jul	no	Y/Y
PLG	Rumex sp.	dock	Reported (to genus) from McLaren Park; needs id.	h	a-p		1	n/a	no	n/a
PLG	Rumex transitorius	Pacific willow dock	[R. salicifolius forma transitorius; easily confused with R. crassus and R. salicifolius] Recorded historically (c. 1885) from waste ground at the Embarcadero (Howell, et al., CCH). Reported from the Presidio (Ft. Point)	h	р	Coastal dunes, wet margins of meadows; Elevation: < 2250 m. WET: FACW	1	Apr-Jun	no	Y/Y
RUP	Ruppia maritima	beaked ditch-grass	Previously included in the Potamogetonaceae. Not included in Howell, et al. 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	Rytidosperma penicillatum	hairy oat grass, poverty grass	[Danthonia pilosa , misappl.] Not included in Howell, et al. and there are no SF records in CCH. Reported from Ft. Funston and the Presidio (Doyle Dr. Natural Area). INVASIVE STATUS: $L/-/-/-$	g	р	Naturalized. From short rhizomes. Disturbed areas; Elevation: < 800 m.	2	Jun-Jul	no	N/N
CRY	<u>Sagina apetala</u>	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

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME [¢]	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ⁸	# OCCURENCES ^h	FLOWERING SEASON ⁱ	EN DEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ / CA
CRY	Sagina decumbens ssp. occidentalis	decumbent pearlwort	[<u>S. occidentalis</u>] 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	Sagina maxima ssp. crassicaulis	coast pearlwort	[<u>S. crassicaulis</u>] Recorded historically (1957) from Land's End (Pt. Lobos), and the Presidio (above Baker Beach, Mountain Lake; Howell, et al., CCH). Previously thought extirpated; last collected in 1957. Rediscovered at the Presidio (Ft. Point, Presidio Bluffs)	h	р	Sandy bluffs, rock crevices; Elevation: < 30 m. WET: FAC	2	sp-efall	no	Y/Y
CRY	Sagina procumbens	procumbent pearlwort	Recorded historically (c. 1955) from SF (Howell, et al.); there are no historic SF records in CCH. Reported from Glen Cyn. Golden Gate Park, Grandview Park, and SFSU.	h	р	Naturalized. Wet, gravelly or sandy soil, road- sides, disturbed areas; Elevation: < 15 m. WET: FAC	4	lsp-efall	no	N/N
ALI	Sagittaria longiloba	longbarb arrow head	Not included in Howell, et al. and there are no SF records in CCH. Reported from the Presidio (Mountain Lake).	h	р	Aquatic, emergent. Tuberous. Ponds, rice fields; Elevation: < 300 m. WET: OBL	1	May-Jun	no	N/N
ALI	Sagittaria montevidensis ssp. calycina	Montevideo arrowhead	Not included in Howell, et al. 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	р	Aquatic, emergent. Ponds, rice fields; Elevation: < 300 m.	2	Jul-Aug	no	?/Y
CHN	Salicornia pacifica	Pacific pickleweed	[Sarcocornia p.; often recorded as <u>Salicornia virginica</u> or S. europaea, taxa not occurring in Cal. (JFP, 2021); Amaranthaceae, pending] Recorded historically (1956; as S. <i>virginica</i>) from the mouth of Islais Cr., the Presidio, and se. SF (Howell, et al., 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 S. europaea).	ss	р	Salt marshes, alkaline flats; Elevation: < 800 m. WET: OBL	7	Jul-Nov	no	Y/Y
SAL	Salix babylonica	true weeping willow	Not included in Howell, et al. and there are no SF records in CCH. Reported from Golden Gate Park, Pine Lake, and the Presidio (Tennessee Hollow).	t		Naturalized. Disturbed places, around settlements; Elevation: probably < 50 m. WET: FAC	3	Feb-May	no	N/N
SAL	Salix exigua var. hindsiana	sandbar willow	[<u>S. hindsiana</u>] Recorded historically (1931) from Lake Merced and Sunset Dist. dunes (Howell, et al., CCH). Reported (as full species) from Brotherhood Way; presumably S.e. var. hindsiana.	s-t	dp	Clonal by root shoot. Floodplains, sandy gravel; Elevation: < 640 m. WET: FACW	1	Apr-May	no	Y/Y
SAL	Salix laevigata	smooth red willow	Recorded historically (1931) from Lake Merced (CCH); not included in Howell, et al. 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		Riverbanks, seepage areas, lakeshores (sub- alkaline or brackish), canyons; Elevation: < 1700 m. WET: FACW	7	Dec-Jun	no	Y/Y
SAL	<u>Salix lasiandra</u> vəx. lasiandra	Pacific yellow willow	[S. lucida ssp. lasiandra] 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, et al., 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	<u>Salix lasiolepis</u>	arroyo willow	[Incl. <u>S1</u> , var. bigelovii; S. franciscana] 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, isolectotype 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	Salix scouleriana	Scouler's willow	Recorded historically (1919) from Lake Merced and the Presidio (CCH); not included in Howell, et al. Reported from Golden Gate Hts. and McLaren Park.	t		Dry to moist forest, meadows, springs, swamps; Elevation: 1-3400 m. WET: FAC	2	Feb-Jun	no	Y/Y
SAL	Salix sitchensis	Sitka willow	[<u>S. coulteri</u>] 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	Salix sp.	willow	Reported (to genus) from Brotherhood Way and Lake Merced; needs id.	t	dp	n/a	2	n/a	no	n/a
SAL	Salix ^x rubens	hybrid crack willow	[Unresolved; possible addition to TJM. S. * <i>fragilis</i> , pending. Hybrid between S. <i>alba</i> and S. <i>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	Salpichroa origanifolia	lily-of-the-valley vine	[<u>S. rhomboidea</u>] 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	р	Naturalized. Decumbent to climbing, Disturbed places; Elevation: < 100 m.	8	Jul-Oct	no	N/N
CHN	Salsola soda	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	Salsola tragus	prickly Russian thistle	[S. kali var. tenuifolia , misappl.; Amaranthaceae, pending] Recorded historically (1956) from Golden Gate Park, Lake Merced, Mission Bay, se. SF (Howell, et al., 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

FAMILY ^b	SCIENTIFIC NAME ⁴ Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell	COMMON NAME ^c	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS)	JIFE FORM [®]	DURATION ^f	HABIT/ECOLOGY [®]	CCURENCES^h	FLOWERING SEASON ⁱ	EN DEMIC ⁱ /Bay Area/CA	ATIVE - SF ⁱ / CA
	(r) = reintroduced SF indigenous taxon		Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA) Not included in Howell, et al. and there are no SF records in CCH. Reported from Bernal Hts. Park, Golden				0 #		SF	Z
LAM	Salvia leucantha	Mexican bush sage	Gate Park, and Yerba Buena Is.	s	ep	Ornamental; naturalized.	3	fall-sp	no	N/N
LAM	Salvia leucophylla	Cal. purple sage	Not included in Howell, et al. 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	Salvia mellifera	black sage	Not included in Howell, et al. 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	Salvia microphylla	baby sage	Known from a single 1914 collection from Golden Gate Park (CCH); not included in Howell, et al. Reported from McLaren Park (iNaturalist).	s	ep	Waif or garden escape; not naturalized.	1	Jan-Dec	no	N/N
LAM	Salvia spathacea	Cal. hummingbird sage	Known from a single 1888 collection from Bernal Hts. (Howell, et al.); 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	р	Matted, rhizomatous. Oak woodland, chaparral, coastal-sage scrub, open or shady slopes; Elevation: < 800 m.	16	Mar-May	CA	Y/Y
ADX	Sambucus nigra ssp. caerulea	European black elderberry	[S. cerulea, pending: S. mexicana] 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, et al., 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	Sambucus racemosa var. racemosa	red elderberry	[<u>S. callicarpa</u> , S. microbotrys] Previously included in the Caprifoliaceae. Recorded historically (1950) from Laguna Honda Valley, Golden Gate Park (Strawberry Hill, misc.), Mt. Davidson, and Twin Peaks (Howell, et al., 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	Samolus parviflorus	water pimpernel	[S. floribundus] Previously included in the Primulaceae. Known from a single 1888 report from SF (Howell, et al.); there are no SF records in CCH. SF would represent the northermost 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	р	Moist sites; Elevation: generally < 1300 m. WET: OBL	0	sp-sum	no	?/Y
API	Sanicula arctopoides	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	р	Open coastal bluffs, headlands, dunes; Elevation: < 250 m.	32	Feb-May	no	Y/Y
API	Sanicula bipinnatifida.	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, et al., 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	р	Open grassland, generally on serpentine, or pine/oak woodland; Elevation: 20-1850 m. SERP: 1.8	17	Mar-May	no	Y/Y
API	Sanicula crassicaulis	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		Open slopes, ravines, woodland; Elevation: < 1500 m.	41	Mar-May	no	Y/Y
API	Sanicula maritima	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	р	Coastal, grassy, open wet meadows, ravines; Elevation: +- 150 m. WET: FACW. SERP: 2.3	0	Feb-May	CA	Y/Y
API	Sanicula tuherosa.	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, et al.); there are no SF records in CCH. Reported from the Presidio (Inspiration Pt.). Voucher specimen needed.	h	р	Open gravelly meadows, chaparral, woodland, pine forest; Elevation: 30-2700 m. SERP: 1.3	1	Mar-Jul	no	Y/Y
AST	<u>Santolina chamaecyparissus</u>	lavender cotton	Recorded historically (1956) from Bayview Hills, Glen Cyn., and Golden Gate Park (Howell, et al., CCH). There are no contemporary reports from SF.	s	ep	Naturalized.	0	May-Jul	no	N/N
CRY	Saponaria officinalis	bouncing-bet soapwort	Not included in Howell, et al. and there are no SF records in CCH. Reported from the Presidio (NRDB). INVASIVE STATUS: $L/-/-/-$	h	р	Waif. Escape from cultivation in disturbed areas; Elevation: < 1200 m. WET: FACU	1	Jun-Sep	no	N/N
DPS	Scabiosa atropurpurea.	pincushion flower	[Sixalix a ., pending] Recorded historically (1950) from Alemany Blvd., Corona Hts., Lake Merced, McLaren Park, Mt. Davidson, the Presidio, Russian Hill, and San Miguel Hills (Howell, et al., 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	а	Naturalized. Disturbed areas; Elevation: < 600 m.	12	Mar-Nov	no	N/N

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME [¢]	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT/ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ / CA
API	<u>Scandix pecten-veneris</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	Sceptridium multifidum	leather grape-fern	[Botrychium m. var. intermedium] Known from a single collection (c. 1945) at marshes near Sixth and Harrison streets (Howell, et al.); there are no SF records in CCH. Extirpated; last collected in 1945.	f	р	Wet meadow <i>s,</i> edges of lakes and streams, among willows; Elevation: < 2900 m. WET: FAC	0	n/a	no	Y/Y
ANA	Schinus molle	Peruvian peppertree	Not included in Howell, et al. 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	Schinus terebinthifolius	Brazilian peppertree	[S. terebinthifolia, pending] Not included in Howell, et al. 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
СҮР	Schoenoplectus acutus var. occidentalis	common tule	[<i>Scirpus a</i> . var. <i>o.; <u>Scirpus rubiginosus</u></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	р	Rhizomatous, 1-4 m tall. Stems cylindric. Marshes, shores, fens, shallow lakes, often emergent; Elevation: < 2500 m. WET: OBL	2	sum	no	Y/Y
СҮР	Schoenoplect us americanus	American three-square	[<i>Scirpus a.</i> ; <u>S. <i>olneyi</i></u>] 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	р	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
СҮР	Schoenoplectus californicus	Cal. bulrush, Cal. tule	[<u>Scirpus c</u> .] 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	р	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
СҮР	Schoenoplectus pungens var. longispicatus	common three-square	[S.p. var. badius; Scirpus p.; <u>S. americanus var. polyphyllus</u>] Recorded historically (1877) from Bayview Hills, Golden Gate Park (Stow Lake), Lake Merced, McLaren Park, Pine Lake, and the Presidio (Ft. Point; Howell, et al., 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 S.p. var. longispicatus.	g	р	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
СҮР	Schoenoplectus tabernaemontani	softstem bulrush	[Scirpus t.; <u>S. validus</u>] Recorded historically (1922) from the Marina Dist. (Howell, et al.); 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	р	Rhizomatous, 0.5-2 m tall. Stems cylindric. Fresh marshes, shores, stream bars, fens; Elevation: < 2400 m. WET: OBL	0	May-Jun	no	N/Y
СҮР	Scirpus microcarpus	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	р	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	<u>Scrophularia californica</u>	Cal. figwort or beeplant	[Incl. S.c. ssp. c.] 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	р	Damp places, chaparral, road-sides; Elevation: < 2500 m. WET: FAC	76	Mar-Jul	no	Υ/Υ
LAM	Scutellaria californica	Cal. skullcap	Recorded from a single 1902 collection from "SF hills" (CCH); not included in Howell, et al. Extirpated; last collected in 1902. SF represents the southernmost station.	h	р	Rhizomatous. Open sites, scrub, woodland; Elevation: 50-2200 m.	0	Jun-Jul	CA	Y/Y
LAM	<u>Scutellaria tuberosa</u> (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	р	From tubers. Dry sites, chaparral, oak woodland; Elevation: < 1450 m.	1	Mar-Jul	no	Y/Y
ANA	Searsia lancea	African sumac	Not included in Howell, et al. and there are no SF records in CCH. Reported from Mission Bay.	t	р	Naturalized. Canyons, alluvial fans in desert, coastal scrub, riparian woodland, disturbed places; Elevation: < 500 m.	1	Mar-Jun	no	N/N
POA	<u>Secale cereale</u>	cereal rye	Recorded historically (1956) from near Mission Bay (Howell, et al., 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	<u>Sedum album</u>	white stonecrop	Recorded historically (1956) from Golden Gate Hts., Golden Gate Park, Laguna Honda Valley, and Sunset Hts. (Howell, et al., CCH). Reported from the Mission and Sunset districts.	h	р	Naturalized. Stem creeping or short-ascending. Disturbed sites; Elevation: generally < 1350 m.	0	Jul-Sep	no	N/N
CRS	Sedum dendroideum	stonecrop	Recorded historically (1955) from the Sea Cliff Dist. (Howell, et al.); 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. praeltum</i> .	s	р	Not occurring in Cal.	3	sp-sum	no	N/N

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁶	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM [°]	DURATION ^f	HABIT / ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ /CA
CRS	Sedum praeltum	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	р	Naturalized. Stems generally erect. Disturbed sites; Elevation: < 100 m.	6	Mar-Jun	no	N/N
CRS	<u>Sedum spathulifolium</u>	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 Elfin butterfly.	h	р	Outcrops, often in shade; Elevation: 50-2500 m.	10	Apr-Aug	no	Y/Y
AST	Senecio (Erechtites) sp.	fireweed	[Erechtites sp.] Reported (to genus) from O'Shaughnessy Hollow; needs id.	h	a-p	n/a	1	n/a	no	N/N
AST	Senecio aphanactis	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	а	Alkaline flats, dry open rocky areas; Elevation: 10-550 m.	0	Jan-Apr	no	Υ/Υ
AST	Senecio aronicoides	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	Senecio elegans	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 Sutro 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: $-//-$	h	а	Naturalized. Disturbed coastal sites; Elevation: < 100 m.	16	Mar-Jun	no	N/N
AST	Senecio glomeratus	New Zealand fireweed	[Erechtites arguta; E. glomerata; E. glomeratus] Recorded historically (1930) from Bayview Hills, Hunters Pt., Lake Merced, Mt. Davidson, the Presidio (Mountain Lake), San Miguel Hills, and Twin Peaks (Howell, et al., 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	Senecio jacobaea	tansy ragwort	[Jacobea vulgaris, pending] Known from two 1934 collections at Lake Merced (CCH); not included in Howell, et al. 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	<u>Senecio minimus</u>	toothed Australian fireweed	[Erechtites prenanthoides; E. minima] 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	<u>Senecio sylvaticus</u>	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	а	Naturalized. Disturbed woodland, open, sandy sites; Elevation: 100-300 m. WET: UPL	2	Mar-Sep	no	N/N
AST	Senecio vulgaris	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	Senna multiglandulosa	glandular cassia	[Cassia tomentosa] Recorded historically (1955) from Golden Gate Park (Howell, et al.); 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	р	Naturalized. Disturbed areas; Elevation: < 500 m.	3	May-Jun	no	N/N
CUP	Sequoia sempervirens	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	Sequoiadendron giganteum	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	Sesuvium verrucosum	western sea purslane	Not included in Howell, et al. 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	р	Moist or seasonally dry flats, margins of generally saline wetlands; Elevation: < 1400 m. WET: FACW	1	Apr-Sep	no	N/Y
POA	Setaria parviflora	marsh bristlegrass	[<u>S. geniculata</u>] Recorded historically (1957) from Golden Gate Park (Howell, et al., CCH). Reported from a West of Twin Peaks neighborhood.	g	р	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	Setaria vericillata	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

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁶	NOTES ^a Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT/ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ /CA
POA	Setaria viridis	green bristlegrass	Recorded historically (1957) from Golden Gate Park (Howell, et al., 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	Sherardia arvensis	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		Naturalized. Matted. Pastures, disturbed areas, grassland, dry meadows, oak woodland; Elevation: 10-1160 m.	7	Mar-Jul	no	N/N
MLV	<u>Sidalcea malviflora</u> ssp.	checkerbloom	[S. malvaeflora] 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, et al., CCH). Reported (as full species) from throughout the city and the Presidio; needs id. S.m. ssp. laciniata and ssp. m. collected from SF. Also in range of S.m. ssp. purpurea and ssp. rostrata.	h	р	WET: FACW	22	Mar-Jul	no	Y/Y
MLV	Sidalcea malviflora ssp. laciniata	checkerbloom	[S. malvaeflora] Recorded historically (1888) from Golden Gate Park, Hunters Pt. Ridge, and Twin Peaks (CCH); not included in Howell, et al. 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	р	Grassland, open woodland; Elevation: generally < 700 m. WET: FACW	1	Mar-Jul	no	Y/Y
MLV	Sidalcea malviflora ssp. malviflora	dwarf checkerbloom	[S. malvaeflora ssp. malvaeflora] 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, et al. 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	р	Coastal prairie, scrub, open forest; Elevation: generally < 500 m. WET: FACW	9	Mar-Jul	no	Y/Y
MLV	Sidalcea oregana ssp. spicata	Oregon checkerbloom	Known from a single 1900 collection from "SF" (CCH); not included in Howell, et al. Native Cal. taxon but not considered indigenous here; SF occs. represent an extreme range extension. There are no contemporary reports from SF.	h	р	Meadows, stream-sides; Elevation: 975-3000 m. WET: FACW	0	May-Jul	no	N/Y
CRY	<u>Silene gallica</u>	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	а	Naturalized. Decumbent to erect. Fields, disturbed areas; Elevation: < 1000 m.	51	sp-esum	no	N/N
CRY	Silene laciniata ssp.	cardinal catchfly	Known (1882, as full species) from a single collection from "SF" (CCH); not included in Howell, et al. S.1. ssp. californica recorded from SF Bay Area. Extirpated; last collected in 1882.	h	р	Chaparral, oak woodland, conifer forest, serpentine or not; Elevation: < 2200 m.	0	Apr-Jul	no	Y/Y
CRY	Silene pseudatocion	North African catchfly	Known from two 1972 collections from "SF" (CCH); not included in Howell, et al. There are no contemporary reports from SF.	h	а	Waif or garden escape; not naturalized. Clambering to erect. Former gardens, road- sides; Elevation: < 200 m.	0	sp	no	N/N
CRY	Silene scouleri ssp. scouleri	Scouler's campion	[S.s. ssp. grandis; <u>S. pacifica</u>] Recorded historically (1956) from Bayview Hills (Howell, et al., CCH). Reported from Bayview Hill; needs study. RARITY STATUS: -/-/2B.2	h	р	Rocky slopes, coastal bluffs; Elevation: < 300 m.	1	sum	no	Y/Y
CRY	<u>Silene verecunda</u>	San Francisco campion	[S.v. ssp. v.] 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 S.v. ssp. v has been subsumed, this taxon continues to be recognized as rare by CNPS and the CNDDB.) RARITY STATUS: (as S.v. ssp. v.) $-/-/1B.2$	h	р	Open areas, chaparral, sagebrush, oak woodland, pinyon/juniper woodland, conifer forest; Elevation: < 3400 m.	12	Mar-Aug	CA	Y/Y
AST	<u>Silybum marianum</u>	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	Sinapis arvensis	charlock mustard	[Brassica kaber] 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, et al., 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	Sisymbrium altissimum	tumble-mustard	Recorded historically (1918) from near Islais Cr., Land's End, the Sea Cliff Dist., and the Sunset Dist. (Howell, et al., CCH). Reported from Mission Bay and the Presidio (Ft. Point)	h	а	Naturalized. Disturbed areas, fields, pastures; Elevation: < 2700 m. WET: FACU	2	May-Jul	no	N/N
BRA	Sisymbrium irio	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	а	Naturalized. Disturbed areas, fields, pastures; Elevation: < 1700 m.	6	Jan-Apr	no	N/N

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BRA	Sisymbrium officinale	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	<u>Sisymbrium orientale</u>	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	<u>Sisyrinchium bellum</u>	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	р	Rhizomatous (tufted). Open, generally moist, grassy areas, woodland; Elevation: < 2400 m. WET: FACW	49	Mar-May	no	Y/Y
IRI	Sisyrinchium californicum	Cal. yellow-eyed grass	Recorded historically (1887) from Cliff House, Lake Merced, the Presidio (Mountain Lake), and San Miguel Hills (Howell, et al., CCH). Reported from Glen Cyn. Park, the Presidio (Mountain Lake, Presidio Hills, Tennessee Hollow, Washington/Armatury Housing, WWII Memorial), and Sutro Forest; reintroduced at Bernal Hts. Park.	gp	р	Rhizomatous (tufted). Generally moist places near coast; Elevation: generally < 200 m. WET: FACW	8	sp-lsum	no	Y/Y
POA	Sitanion hansenii	(no common name)	[Unresolved; possible synonym of <i>Elymus [*] 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	а	Cespitose. Open, sandy to rocky areas, chaparral, woodland, forest; Elevation: < 3800 m.	0	sum	no	?/Y
SOL	Solanum americanum	American black nightshade	[<u>S. nodiflorum</u>] 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, et al., 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	Solanum douglasii	Douglas' nightshade	Known from a single 1931 collection from se. SF (Howell, et al., 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	р	Dry scrub, woodland; Elevation: < 1000 m. WET: FAC	22	Jan-Dec	no	Y/Y
SOL	<u>Solanum dulcamera</u>	climbing nightshade	Recorded historically (c. 1955) from Golden Gate Park (Howell, et al.); there are no SF records in CCH. Reported from Golden Gate Park (Stow Lake, Strawberry Hill, misc.)	h-ss	р	Naturalized. Climbing. Moist disturbed places, marshes; Elevation: < 1000 m. WET: FAC	3	Jun-Sep	no	N/N
SOL	Solanum eleagnifolium	silverleaf nightshade	Recorded historically (1956) from the Embarcadero (Howell, et al.); there are no SF records in CCH). There are no contemporary reports from SF. INVASIVE STATUS: $-/-/NW/-$	h	р	Naturalized. Rhizomatous, forming colonies; prickly. Dry, disturbed places, fields; Elevation: < 1200 m.	0	May-Sep	no	N/N
SOL	<u>Solanum furcatum</u>	S. American black nightshade	[Incl. <u>5.</u> gayanum, 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, et al., CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: -/3/-/-	h-s	р	Naturalized. Open, often disturbed places; Elevation: < 200 m.	29	May-Oct	no	N/N
SOL	Solanum laciniatum	kangaroo-apple	[<u>S. aviculare</u> , 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	р	Naturalized. Open, generally disturbed places; Elevation: < 100 m.	39	Jan-Dec	no	N/N
SOL	Solanum lanceolatum	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	р	Naturalized. Sparsely prickly. Disturbed places; Elevation: < 200 m.	0	Apr-Aug	no	N/N
SOL	<u>Solaman marginatum</u>	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, et al., CCH). Reported from Buena Vista Park. INVASIVE STATUS: —/—/NW,B/—	s	р	Naturalized. Prickly. Disturbed places; Elevation: generally < 1000 m.	1	May-Aug	no	N/N
SOL	Solanum nigrum	European black nightshade	Recorded historically (1901) from Golden Gate Park (CCH); not included in Howell, et al. 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		Naturalized. Disturbed places; Elevation: < 200 m. WET: FACU	26	Mar-Oct	no	N/N
SOL	Solanum physalifolium var. nitidibaccatum	hoe nightshade	[Incl. <u>5. sarachoides</u> , 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, et al.) 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	<u>Solanum rostratum</u>	buffalo-bur	Recorded historically (1933) from Golden Gate Park (Howell, et al.); there are no SF records in CCH. Reported from the Presidio (Inspiration Pt., Lobos Cr. Valley).	h	а	Naturalized. Densely prickly. Disturbed places, road-sides, fields; Elevation: < 1400 m.	2	May-Sept	no	N/N

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME [¢]	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT/ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ¹	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ^j / CA
SOL	Solanum 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	<u>Solanum tuberosum</u>	Irish potato	Recorded historically (c. 1955) from Hunters Pt. and Mission Bay (Howell, et al.); there are no SF records in CCH. Reported from Golden Gate Park.	s	р	Cultivated crop; not naturalized.	1	Mar-May	no	N/N
SOL	Solanum umbelliferum	blue-witch nightshade	Recorded historically (1901) from the Embarcadero and the Presidio (Baker Beach, Lobos Cr. Valley; Howell, et al., 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	р	Shrubland, mixed-evergreen forest, woodland; Elevation: < 1600 m.	14	Jan-Dec	no	Y/Y
SOL	Solanum xantii	chaparral nightshade	Known from a single 1865 collection from "near SF" (CCH); not included in Howell, et al. Extirpated; last collected in 1865.	h-ss	р	Shrubland, oak/pine woodland, conifer forest; Elevation: < 2700 m.	0	Feb-Jul	no	Y/Y
URT	Soleirolia soleirolii	baby's tears	[<u>Helxine s.</u>] 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	а	Naturalized. Prostrate, generally mat-forming, Damp, shaded places; Elevation: < 215 m.	3	Mar-Jun	no	N/N
AST	<u>Solidago confinis</u>	southern goldenrod	Known from a single 1863 collection from "salt marshes near SF" (Howell, et al., 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	р	Wet stream-banks, springs, marshes; Elevation: generally < 2500 m. WET: OBL	0	Apr-Oct	no	Y/Y
AST	Solidago elongata	West Coast goldenrod	[S. canadensis var. e.; <u>S. lepida</u> . var. e.] Recorded historically (1852) from Laguna Honda Valley (Alms House), Lake Merced, Lone Mt., and the Presidio (Howell, et al., CCH). Reported from Bayview Hills, Dorothy Erskine Park, Duncan-Castro Open Space, Glen Cyn., Mt. Davidson, O'Shaughnessy Hollow, and Twin Peaks.	h	р	Meadows, thickets; Elevation: < 2800 m. WET: FACU	7	May-Oct	no	Y/Y
AST	Solidago sp.	goldenrod	Reported (to genus) from Lake Merced; needs id.	h	р	n/a	1	n/a	no	n/a
AST	Solidago spathulata	coastal dune goldenrod	[Incl. S.s. ssp. spathulata] 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, et al., CCH). Reported from Pt. 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	р	Dunes, headlands; Elevation: < 600 m. WET: FACU	21	May-Nov	no	Y/Y
AST	Solidago velutina ssp. californica	velvet goldenrod	[<u>S. californica</u>] Recorded historically (1942) from Bayview Hills, Mt. Davidson, O'Shaughnessy Hollow, the Presidio, San Miguel Hills, se. SF, and Stanford Hts. (Howell, et al., CCH). Reported from Bayview Hill, Glen Cyn., and Mt. Davidson.	h	р	Woodland margins, grassland, disturbed soils; Elevation: < 2500 m.	3	May-Nov	no	Y/Y
AST	<u>Soliva sessilis</u>	common soliva	[S. daucifolia] 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, et al., 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	а	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	<u>Sonchus asper</u> ssp. asper	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	Sonchus oleraceus	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	а	Naturalized. Disturbed places; Elevation: < 2500 m. WET: UPL	70	Jan-Dec	no	N/N
POA	Sorghum bicolor	common sorghum	[S. sudanense] Recorded historically (c. 1955) from near Islais Cr. (Howell, et al.); there are no SF records in CCH. There are no contemporary reports from SF.	g	р	Naturalized. Disturbed areas, road-sides; Elevation: < 600 m. WET: FACU	0	Aug-Sep	no	N/N
POA	Sorghum halapense	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	р	Naturalized. Disturbed areas, ditch banks, road- sides; Elevation: < 1160 m. WET: FACU	3	Aug-Sep	no	N/N
IRI	Sparaxis triolor	harlequin flower	Not included in Howell, et al. 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	р	Waif or garden escape; not naturalized. Corm- forming. Disturbed sites; Elevation: < 50 m.	8	Mar-Apr	no	N/N
ТҮР	<u>Sparganium eurycarpum</u> v ar. greenei	bur reed	[S. erectum ssp. stoloniferum] Known from a single 1898 collection from Lake Merced (Howell, et al., CCH). Extirpated; last collected in 1898.	h	р	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	Spartina alterniflora	salt-water cordgrass	[Sporobolus alterniflorus, pending] Not included in Howell, et al. 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	р	Naturalized. Rhizomatous; single stems to small clumps. Coastal salt marshes; Elevation: < 10 m. WET: OBL	4	Jul-Sep	no	N/N
POA	Spartina foliosa	Cal. cordgrass	[Sporobolus foliosus, pending] Recorded historically (c. 1890) from the edge of SF Bay and se. SF (Howell, et al., CCH). Reported from Heron's Head, Hunters Pt., Pier 94, and the Presidio (Crissy Field).	g	р	Rhizomatous. Salt marshes, mudflats, shores; Elevation: < 10 m. WET: OBL	4	Jun-Nov	no	Y/Y
FAB	<u>Spartium junceum</u>	Spanish broom	Recorded historically (1894) from SF (Howell, et al.); there are no SF records in CCH. Reported from the Presidio. INVASIVE STATUS: H/-/NW,C/-	s	р	Naturalized. Disturbed areas; Elevation: < 900 m.	1	Apr-Jun	no	N/N
CRY	<u>Spergula arvensis</u>	stickwort, starwort	[S.a. ssp. a.] 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, et al., CCH). Reported from throughout the city and the Presidio.	h	а	Naturalized. Open slopes, pine woodland, sand dunes, fields, disturbed areas; Elevation: < 200 m.	19	sp-esum	no	N/N
CRY	Spergula sp.	spurrey	Reported (to genus) from Mt. Davidson; needs id.	h	а	n/a	1	n/a	no	n/a
CRY	Spergularia bocconii	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</i> <i>al.</i> , CCH). Reported from Bayview Hill, the Presidio, Tank Hill, and Yerba Buena Is; expected elsewhere.	h	а	Naturalized. Salt marshes, alkaline areas, sandy soils; Elevation: < 400 m. WET: FACW	4	sp	no	N/N
CRY	<u>Spergularia macrotheca</u> var. macrotheca	large-flowered sand-spurrey	[Tissa valida] Recorded historically (1877) from Alcatraz Is., Cliff House, Hunters Pt. Ridge, Islais Cr., Lake Merced, Land's End, the Presidio (Ft. Point; Howell, et al., 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. scariosa).	h	р	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	<u>Spergularia marina</u>	salt-marsh sand-spurrey	Recorded historically (1881) from Cliff House, Islais Cr., and McLaren Park (Howell, et al., CCH). Reported from Pier 94, the Presidio (Crissy Field, Ft. Point), Rocky Outcrop, and Sutro Baths.	h	а	Mud flats, alkaline fields, sandy river bottoms, sandy coasts, salt marshes; Elevation: < 700 m. WET: OBL	5	Mar-Sep	no	Y/Y
CRY	Spergularia media var.	intermediate sand-spurrey	Not included in Howell, et al. and there are no SF records in CCH. Reported (as full species) from the Presidio (Crissy Field); needs id. Presumably S.m. var. media.	h	a-p	Naturalized. Salt flats, salt marshes, sandy beaches; Elevation: < 2 m. WET: FACW	1	sum-fall	no	N/N
CRY	Spergularia rubra	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, et al., 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	Spergularia villosa	hairy sand-spurrey	[S. clevelandii] 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, et al., CCH). Reported from Lake Merced and the Presidio.	h	р	Naturalized. Sandy slopes, bluffs, clay ridges, plains, disturbed areas; Elevation: < 450 m.	2	sp	no	N/N
ORC	Spiranthes porrifolia	creamy ladies' tresses	Known from a single 1900 collection from "SF" (CCH); not included in Howell, et al. Apparently rediscovered at Twin Peaks in 2012 (CCH); awaiting confirmation by Tom Daniel.	h	р	Wet meadows, freshwater marshes, seeps, grassland, oak woodland; Elevation: < 2500 m. WET: FACW	1	May-Sep	no	Y/Y
ORC	Spiranthes romanzoffiana.	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	р	Wet meadows, freshwater marshes, seeps; Elevation: < 3300 m. WET: FACW	8	May-Sep	no	Y/Y
ARA	Spirodela polyrhiza	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	р	Floating aquatic. Freshwater; Elevation: < 2500 m. WET: OBL	1	Aug	no	Y/Y
POA	Sporobolus indicus	smutgrass	[S. poiretii] Recorded historically (1950) from Golden Gate Park and the Richmond Dist. (Howell, et al., CCH). Reported from Golden Gate Park.	g	р	Naturalized. Tufted, erect. Open, disturbed areas, road-sides; Elevation: < 1200 m. WET: FACU	1	Apr-Nov	no	N/N
LAM	<u>Stachys ajugoides</u>	bugle hedge-nettle	[S.a. var. a.] 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	р	Moist, open places, generally remaining wet into summer; Elevation: < 1000 m. WET: OBL	40	Feb-Apr	no	Y/Y
LAM	Stachys albens	cobwebby hedge-nettle	Not included in Howell, et al. and there are no historic SF records in CCH. Reported from Golden Gate Park. Native Cal. taxon but not considered indigenous here.	h	р	Swamps, seeps; Elevation: < 3000 m. WET: OBL	1	Jun-Aug	CA	N/Y
LAM	Stachys bullata	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	р	Dry slopes near coast; Elevation: < 500 m.	10	Mar-Sep	CA	Y/Y
LAM	<u>Stachys chamissonis</u>	coast hedge-nettle	Recorded historically (1892) from Golden Gate Park (Strawberry Hill), Lake Merced, se. SF (Howell, et al., CCH), and the Presidio (NRDB). Extirpated; last collected in 1924.	h	р	Wet, swampy places, generally coastal; Elevation: < 150 m.	0	May-Oct	CA	Y/Y

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LAM	Stachys mexicana	Mexican hedge-nettle	[S. ajugoides var. rigida, 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, et al.) 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, Love'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 S. ajugoides and S. rigida var. quercetorum.	h		Thickets, damp places, generally coastal; Elevation: < 500 m. WET: FACW	22	Apr-Sep	no	Υ/Υ
LAM	<u>Stachys rigida</u> var. quercetorum	rough hedge-nettle	[S. ajugoides var. r., in part; S.r. ssp. q.] 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, et al.) Reported from throughout the city and the Presidio. Needs id; possible confusion with S. mexicana and S. ajugoides.	h	р	Moist to more or less dry places; Elevation: < 2500 m. WET: FACW	35	Jul-Aug	no	Y/Y
AST	Stebbinsoseris decipiens	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	Υ/Υ
AST	Stebbinsoseris heterocarpa	grassland stebbinsoseris	[<u>Microseris h</u> .] Known from a single 1891 collection from Oceanview (Howell, et al., 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	Stellaria littoralis	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	р	Sprawling, Coastal marshes, bluffs; Elevation: < 40 m. WET: OBL	0	Mar-Jul	CA	Y /Y
CRY	Stellaria media.	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	Stellaria nitens	shiny chickweed	Recorded historically (1877) from Bayview Hills, Brotherhood Way, and Mt. Davidson (Howell, et al., 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	Stellaria pallida	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	Stenotaphrum secundatum	St. Augustine grass	Recorded historically (1957) from Golden Gate Park (Howell, et al., CCH). There are no contemporary reports from SF; to be expected.	g	р	Naturalized. From long stolons. Fields, road- sides; Elevation: < 150 m. WET: FAC	0	Jul-Sep	no	N/N
AST	Stephanomeria elata	Santa Barbara wire-lettuce	Known from two 1924 collections from Lake Merced (CCH); not included in Howell, et al. Extirpated; last collected in 1924.	h	а	Chaparral openings, grassy meadows, roadside embankments; Elevation: 100-1400 m.	0	Jul-Nov	no	Y/Y
AST	<u>Stephanomeria virgata</u> ssp. pleurocarpa	virgate wire-lettuce	Recorded historically (c. 1900, as full species) from Golden Gate Park, Lake Merced, the Presidio, and se. SF (Howell, et al.); 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	Stipa cernua	nodding needlegrass	[Nassella c.] Known from a single 1956 collection from Bayview Hills (Howell, et al., CCH). Extirpated; last collected in 1956.	g	р	Tufted. Grassland, chaparral, juniper woodland; Elevation: 5-1700 m.	0	Feb-Jul	CA	Y/Y
POA	Stipa lepida	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 Sutro Forest.	g	р	Tufted. Dry slopes, chaparral, grassland, savanna, coastal scrub; Elevation: < 1400 m.	9	Mar-Jun	no	Y/Y
POA	Stipa miliacea var. miliacea	smilo-grass	[Oloptum miliaceum, pending; Piptatherum miliaceum; <u>Oryzopsis milacea</u>] Recorded historically (c. 1955) from Bayview Hills, the Embarcadero, Golden Gate Park, near Islais Cr. and Russian Hill (Howell, et al.); 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	р	Naturalized. Salt marshes, dry washes, stream- banks, chaparral, open woodland, disturbed areas; Elevation: < 1550 m.	4	Mar-Sep	no	N/N
POA	Stipa pulchra.	Cal. purple needlegrass	[Nassella p.] 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, et al., CCH). Reported from throughout the city and the Presidio. Larval host plant for the Cal. Ringlet butterfly.	g	р	Tufted. Oak woodland, chaparral, grassland; Elevation: < 1700 m.	42	Mar-Jun	no	Y/Y
POA	Stipa purpurata	bristly spear-grass	[Piptochaetium fuscum, pending; Piptochaetium setosum] Not included in Howell, et al. and there are no SF records in CCH. Reported from Glen Cyn.	g	р	Naturalized. Meadows, grassland, open woodland, disturbed areas; Elevation: 100-200 m.	1	Apr-Jun	no	N/N

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁶	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT/ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF $^{\rm j}$ / CA
POA	Stipa tenuissima	Mexican feathergrass	[Nassella t.] Not included in Howell, et al. 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	р	Waif or garden escape; not naturalized.	10	sp-sum	no	N/N
POT	Stuckenia pectinata	sago pondweed	[Potamogeton pectinatus] Recorded historically (1891) from Golden Gate Park (Quarry Lake/Lily Pond), Lake Merced, and the Presidio (Mountain Lake; Howell, et al., 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	Suaeda californica (r)	Cal. seablite	[Amaranthaceae, 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>Sc.</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	Symphoricarpos albus var. laevigatus	white snowberry	[S. rivularis] Recorded historically (1898) from Brotherhood Way, Golden Gate Park, Laguna Honda Valley, Lake Merced, Mt. Sutro, and Sunset Hts. (Howell, et al., 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	Symphoricarpos mollis	Cal. creeping snowberry	[S. acutus, S. hesperius] Recorded historically (1956) from Bayview Hills and San Miguel Hills (Howell, et al., 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	Symphyotrichum chilense	common Pacific aster	<u>[Aster chilensis</u> , 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 Visitación Valley (Howell, et al., CCH). Reported from throughout the city and the Presidio. Larval host plant for the Field Cressent and Northern Checkerspot butterfiles.	h		Rhizomatous. Grassland, salt marshes, disturbed places; Elevation: < 500 m. WET: FAC	48	Jun-Oct	no	Y/Y
AST	Symphyotrichum subspicatum	Douglas aster	[Aster subspicatus] 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, et al., CCH). Extirpated; last collected 1961.	h	р	Rhizomatous. Open disturbed places; Elevation: < 1000 m. WET: FACW	0	Jul-Sep	no	Y/Y
AST	Symphyotrichum subulatum var.	slimaster	[Aster subulatus; <u>A. exilis</u>] Recorded historically (1888, as full species) from Islais Cr. and "SF salt marshes" (Howell, et al.); 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 S.s. var. parvillorum. Voucher specimen needed.	h	a	Marshes, disturbed places; Elevation: < 1200 m. WET: FACW	7	Jul-Oct	no	Y/Y
AST	Symphytum officinale	common comfrey	Known from a single 1977 collection from O'Shaughnessy Hollow (CCH); not included in Howell, et al. Presumed extant at O'Shaughnessy Hollow; also reported from Golden Gate Park.	h	р	Waif or garden escape; not naturalized. Disturbed sites; Elevation: < 1150 m.	2	May-Jul	no	N/N
TAM	Tamarix aphylla	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	р	Naturalized. Washes, road-sides; Elevation: < 200 m. WET: FAC	1	May-Nov	no	N/N
TAM	Tamarix parviflora	four-stamen tamarisk	Not included in Howell, et al. and there are no SF records in CCH. Reported from the Richmond Dist. INVASIVE STATUS: H/-/NW/-	s-t	р	Naturalized. Washes, stream-banks, slopes, road-sides; Elevation: < 1300 m. WET: FAC	0	Apr-May	no	N/N
TAM	Tamarix sp.	tamarisk	Not included in Howell, et al. and there are no SF records in CCH. Reported (to genus) from Golden Gate Park and Lake Merced; needs id.	s-t	р	n/a	2	n/a	no	N/N
AST	Tanacetum bipinnatum	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, et al., 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	р	Rhizomatous. Coastal dunes; Elevation: < 30 m.	22	Jul-Oct	no	Y/Y
AST	Tanacetum parthenium	feverfew tansy	[Chrysanthemum p.] Recorded historically (1907) from Golden Gate Park, Land's End (Pt. Lobos), the Presidio (Lobos Cr. Valley), Sunset Hts., and Telegraph Hill (Howell, et al., 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	Taraxacum erythrospermum	red-seeded dandelion	Recorded historically (1956) from Glen Cyn. and the Sunset Dist. (CCH); not included in Howell, et al. Reported from the Mission Dist. and Park Merced	h	р	Naturalized. Disturbed areas; Elevation: 50- 2250 m.	0	Jan-Dec	no	N/N
AST	Taraxacum officinale	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	р	Naturalized. Esp. disturbed areas; Elevation: < 3300 m. WET: FACU	42	Jan-Dec	no	N/N

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ONA	Taraxia ovata	grassland sun-cups	[Camissonia o.; <u>Ornothera o.</u>] 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	р	Grassy fields, generally clay soil; Elevation: < 500 m.	25	Mar-Jun	no	Y/Y
API	Tauschia kelloggii	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	р	Scrub, chaparral, woodland, conifer forest; Elevation: 50-1700 m. SERP: 2.6	0	Apr-Jun	no	Y/Y
тхо	Taxus baccata	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
тхо	Taxus brevifolia	Pacific yew	Known from a single 1957 collection from the Presidio (Lobos Cr. Valley; CCH); not included in Howell, <i>et al.</i> 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	Tellima grandiflora.	fringe cups	Recorded historically (1891) from Mission Hills, the Presidio (Lobos Cr. Valley), and Sunset Hts. (Howell, <i>et al.,</i> 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	р	Rhizomatous. Moist slopes; Elevation: < 2000 m. WET: FACU	9	Apr-Jul	no	Y/Y
AIZ	Tetragonia tetragonioides	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, <i>et al.</i> , CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: L/—/—/—	h	а	Naturalized. Sand dunes, bluffs, margins of coastal wetlands; Elevation: < 100 m.	27	Apr-Sep	no	N/N
RAN	Thalictrum fendleri var. fendleri (r)	Fendler's meadow rue	Not included in Howell, <i>et al.</i> 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	р	Moist, open to shaded places, woodland, forest; Elevation: 500-3200 m. WET: FAC	1	Apr-Jul	no	Y/Y
RAN	Thalictrum fendleri var. polycarpum	Fendler's meadow rue	[<u>T. polycarpun</u>] 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	р	Moist, open to shaded places, woodland, forest; Elevation: < 2600 m. WET: FAC	0	Apr-May	no	Y/Y
POA	Thinopyrum junceiforme	Russian wheatgrass	[Unresolved. <i>Elymus farctus</i> , pending; <u>Agropyron junceun</u>] 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	р	No data available.	2	Apr-Jul	no	N/N
BRA	Thlaspi arvense	field pennycress	Not included in Howell, <i>et al</i> . 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.	fringepod	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 Orangetip butterfly.	h	а	Slopes, washes, moist meadows, woodland, stream-banks; Elevation: < 2500 m.	0	Feb-Apr	no	Y/Y
BRA	Thysanocarpus laciniatus	narrow-leaved fringepod	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	а	Oak woodland, rocky ridges, slopes, chaparral, washes; Elevation: 100-1800 m.	0	Mar-May	no	Y/Y
AST	Tolpis barbata	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	а	Naturalized. Grassy slopes, disturbed sites; Elevation: < 600 m.	5	May-Aug	no	N/N
API	Torilis arvensis	field hedge-parsley	Not included in Howell, <i>et al.</i> 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	а	Naturalized. Plant erect. Disturbed places; Elevation: < 1600 m.	11	Apr-Jul	no	N/N
API	Torilis nodosa	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	а	Naturalized. Plant spreading. Disturbed places; Elevation: < 1800 m.	2	Apr-Jun	no	N/N
POA	Torreyochloa pallida var. pauciflora	mannagrass	[<u>T. pauciflora</u> , Glyceria californica, Puccinelli californica, P. pauciflora] Recorded historically (1866) from SF (Howell, et al., CCH). Extirpated; last collected in 1900.	g	р	Rhizomatous. Wet areas in forest, stream or lake margins; Elevation: < 3500 m. WET: OBL	0	Jul-Sep	no	Y/Y
ANA	Toxicodendron diversilobum	poison oak	[<u>Rus diversibaba</u>] 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, <i>et al.</i> , 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	Toxicoscordion fremontii	chaparral death camas, Fremont star lily	[Zigadenus f.] Previously included in the Liliaceae. Recorded historically (1939) from Bernal Hts., the Presidio (Golf Course, Presidio Bluffs, Presidio Hills), and Visitación 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	р	Bulb-forming. Grassy or wooded slopes, outcrops; Elevation: < 1000 m.	7	Feb-Jun	no	Υ/Υ
CM M	Tradescantia fluminensis	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	р	Naturalized. Shaded woodland, stream-banks; Elevation: 70-255 m. WET: FAC	7	Apr-Jul	no	N/N

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AST	Tragopogon porrifolius	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 Alemany 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	Tribulus terestris	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	Trifolium albopurpureum	common rancheria clover	[Incl. T.a. var. a.] Not included in Howell, et al. 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	а	Coastal dunes, grassland, wet meadows, open slopes, oak chaparral, pine woodland, road- sides, disturbed areas; Elevation: < 2100 m. WET: FACU	4	Mar-Jun	no	Υ/Υ
FAB	Trifolium barbigerum	bearded clover	[Incl. T.b. var. b.] 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	Trifolium bifidum var. bifidum	pinole clover	Not included in Howell, et al. 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>Trifolium bifidum var. decipiens</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	а	Open, grassy areas, oak chaparral, forest; Elevation: < 1000 m.	1	Apr-Jun	no	Y/Y
FAB	Trifolium campestre	field hop-clover	Recorded historically (1957) from Lake Merced, Lone Mt., Mt Davidson, and the Presidio (Howell, et al., 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., Sutro Forest, and Yerba Buena Is; expected elsewhere.	h	а	Naturalized. Disturbed areas, road-sides; Elevation: especially < 300 m.	23	Apr-May	no	N/N
FAB	Trifolium depauperatum var. amplectans	purple sack clover	[<i>T. amplectens</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	Trifolium depauperatum var. truncatum	dwarf sack clover	[<i>T. amplectens; 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	Trifolium dichotomum	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	а	Coastal dunes, open slopes, meadows, oak woodland, disturbed areas; Elevation: < 1300 m.	1	Apr-Jun	no	Y/Y
FAB	Trifolium dubium	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, et al., 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	а	Naturalized. Agricultural, disturbed areas; Elevation: < 500 m. WET: UPL	16	Apr-Jul	no	N/N
FAB	Trifolium fragiferum	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	р	Naturalized. Creeping and rooting or cespitose. Road-sides, generally in saline soil; Elevation: < 1500 m. WET: FAC	5	May-Aug	no	N/N
FAB	Trifolium fucatum	bull clover	[<u>T. flavulum</u>] Recorded historically (1897) from Bayview Hills, Hunters Pt. Ridge, Potrero Hills, the Presidio (Howell, et al., 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	Trifolium glomeratum	clustered clover	Not included in Howell, et al. 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	Trifolium gracilentum.	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	а	Open, disturbed, moist or dry places, occasionally serpentine; Elevation: < 1800 m. SERP: 1.0	10	Mar-Jun	no	Y/Y
FAB	<u>Trifolium grayi</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	а	Wet meadows, foothill slopes, pine woodland; Elevation: < 600 m. WET: FACW	0	Apr-Jun	CA	Y/Y

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁶	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM [®]	DURATION ^f	HABIT/ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ^j / CA
FAB	Trifolium hirtum	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	Trifolium hybridum	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	Trifolium incarnatum	crimson clover	Recorded historically (c. 1974) from the Presidio (CCH); not included in Howell, <i>et al</i> . 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	<u>Trifolium macraei</u>	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 Visitación Valley (Howell, <i>et al.</i> , CCH). Reported from Ft. Funston, the Presidio (Inspiration Pt., Presidio Bluffs, Presidio Hills, sw. dunes, WWII Memorial), and Starr King.	h	а	Disturbed areas, dunes; Elevation: < 600 m.	7	Mar-May	no	Y/Y
FAB	Trifolium microcephalum	small-headed clover	Recorded historically (1936) from Bayview Hills, Lake Merced, Lone Mt., Mt. Davidson, O'Shaughnessy Hollow, and the Presidio (Howell, <i>et al.</i> , 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	Trifolium microdon	Valparaiso clover	Recorded historically (1882) from Bayview Hills, Hunters Pt. Ridge, Lake Merced, Lone Mt., Mt. Davidson, Potrero Hills, the Presidio (Howell, <i>et al.</i> , 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	<u>Trifolium oliganthum</u>	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	а	Woody or shrubby slopes, road-sides; Elevation: < 1000 m.	0	Apr-May	no	Y/Y
FAB	Trifolium pratense	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, <i>et al</i> .); 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	р	Naturalized. Disturbed areas; Elevation: 0-2900 m. WET: FACU	3	Apr-Oct	no	N/N
FAB	Trifolium repens	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, <i>et al</i> ., CCH). Reported from throughout the city and the Presidio.	h	р	Naturalized. Disturbed areas; Elevation: 0-2500 m. WET: FACU	33	Feb-Dec	no	N/N
FAB	Trifolium 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	Trifolium subterraneum	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	а	Naturalized. Prostrate or creeping, rooting. Meadows, road-sides, disturbed areas; Elevation: < 1000 m.	8	Mar-Apr	no	N/N
FAB	Trifolium tomentosum	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	Trifolium variegatum var. variegatum	variegated clover	Recorded historically (1913) from Visitación 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	Trifolium willdenovii	tomcat clover	[<u>T. tridentatum</u>] 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 Visitación Valley (Howell, <i>et al</i> ., 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	Trifolium wormskioldii	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 Visitación 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	р	Rhizomatous. Beaches to mountain meadows, ridges, generally open moist or marshy places; Elevation: < 3200 m. WET: FACW	8	May-Oct	no	Y/Y
JCG	Triglochin concinna var. concinna	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	р	Rhizomatous, loose tufted to mat-forming. Coastal salt marshes; Elevation: < 10 m. WET: OBL	1	Mar-Aug	no	?/Y
JCG	Triglochin maritima	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	р	Rhizomatous, dense-tufted. Coastal salt marshes, interior saline, brackish, alkaline marshes; Elevation: < 2800 m. WET: OBL	2	Apr-Aug	no	Y/Y
JCG	Triglochin scilloides	flowering quillwort	[<i>Lilaca</i> s.] Recorded historically (1891) from Golden Gate Park, Lake Merced, the Presidio, and Stanford Hts. (San Miguel Hills; Howell, <i>et al.</i> , 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	Trillium albidum	giant white wake-robin	Previously included in the Liliaceae. Recorded historically (1862) from "SF" and Sutro Forest (CCH); not included in Howell, et al. Reported from Sutro Forest where it has recently been rediscovered. Voucher specimen needed.	gp	р	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	Trillium chloropetalum	giant wake-robin	[incl. T.c. var. c. and T.c. var. giganteum] Previously included in the Liliaceae. Recorded historically (c. 1900) from Lake Merced, Mt. Sutro, Pine Lake, Stanford Hts. (San Miguel Hills), and Sunset Hts. (Howell, et al.); there are no SF records in CCH. Extirpated; last collected in 1940.	gp	р	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	Triodanis biflora	Venus' looking glass	[Specularia b.] Recorded historically (c. 1860) from Lake Merced and Lone Mt. (Howell, et al., CCH). Extirpated; last collected in 1892.	h	а	Disturbed areas; Elevation: < 2000 m.	0	Apr-Jun	no	Y/Y
ORO	Triphysaria eriantha ssp.	butter-and-eggs owl's-clover, Johnny-tuck	[Orthocarpus erianthus] Previously included in the Scrophulariaceae. Recorded historically (1882, as full species) from Laguna Honda Valley, Lake Merced, and the Presidio (Howell, et al.); CCH records for SF identified to subspecies (<i>T.e.</i> ssp. e. or <i>T.e.</i> ssp. rosea) Reported (as full species) from Bayview Hill, Glen Cyn. and McLaren Park.	h	a	n/a	3	Mar-May	no	Y/Y
ORO	Triphysaria eriantha ssp. eriantha	butter-and-eggs owl's-clover, Johnny-tuck	[Orthocarpus erianthus var. gratiosus] Previously included in the Scrophulariaceae. Recorded historically (1882) from "SF" (CCH) and the Presidio (NRDB); not included in Howell, et al. Extirpated; last collected in 1882.	h	a	Facultative root parasite. Grassland, foothills; Elevation: < 1600 m.	0	Mar-May	no	Y/Y
ORO	Triphysaria eriantha ssp. rosea	butter-and-eggs owl's-clover, Johnny-tuck	[Orthocarpus erianthus, var. roseus; O.e, var. r.] Previously included in the Scrophulariaceae. Recorded historically (1867) from Bernal Hts., Brotherhood Way, Ingleside, Lake Merced, Oceanview, Sunset Dist. dunes, and Visitación Valley (Howell, et al., 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	Triphysaria floribunda	San Francisco owl's-clover	[Orthocarpus floribundus] 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: -/-/18.2	h	a	Facultative root parasite. Coastal grassland, serpentine slopes; Elevation: < 200 m. SERP: 2.3	0	Apr-Jun	BA	Y/Y
ORO	Triphysaria pusilla	dwarf owl's-clover	[Orthocarpus pusillus] 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, et al., 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	Triphysaria versicolor ssp. faucibarbata	yellowbeak owl's-clover	[Orthocarpus faucibarbatus] Previously included in the Scrophulariaceae. Known from a single 1882 collection from "SF" (CCH) and the Presidio (NRDB); not included in Howell, et al. 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	Triphysaria versicolor ssp. versicolor	yellow owl's-clover	[Orthocarpus faucibarbatus ssp. albidus] Previously included in the Scrophulariaceae. Recorded historically (1800) from Mission Hills, Potrero Hills, the Presidio, "SF", and Visitación Valley (Howell, et al., CCH). Extirpated; last collected in 1917.	h	a	Facultative root parasite. Grassland; Elevation: < 100 m.	0	Feb-May	no	Y/Y
POA	Trisetum canescens	nodding oatgrass	Recorded historically (1865) from Laguna Honda Valley, Ocean Beach and "SF" (Howell, et al., CCH). Extirpated; last collected in 1954.	g	р	Open to shaded sites, meadows, chaparral, conifer forest; Elevation: < 2830 m.	0	Jun-Aug	no	Y/Y
THE	Triteleia hyacinthina	white brodiaea	[Brodiaea h.] Previously included in the Liliaceae. Recorded historically (c. 1890) from near Lake Merced, Mt. Davidson, and Visitación Valley (Howell, et al., CCH). Reported from McLaren Park; there is an unconfirmed report from the Presidio (near Arguello/golf course, Crissy Bluffs, Inspiration Pt.)	gp	р	Corm-forming. Grassland, vernally wet meadows, occasionally drier slopes; Elevation: < 2000 m. WET: FAC	4	Mar-Jul	no	Y/Y
THE	Triteleia laxa	Ithuriel's spear	[Brodiaea L] 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, et al., CCH). Reported from throughout the city and the Presidio.	gp	р	Corm-forming. Open forest, conifer or foothill woodland, grassland on clay soil; Elevation: < 1500 m.	39	Apr-Jun	CA	Y/Y
POA	Triticum aestivum	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	Tropaeolum majus	garden nasturtium	Recorded historically (1957) from Golden Gate Park, Hunters Pt., Land's End, Lone Mt., Mt. Sutro, 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	а	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	Turritis glabra	tower rock-cress	[Arabis glabra] 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, et al., 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	р	Open fields, meadows, slopes; Elevation: < 2800 m.	14	Apr-Jul	no	Y/Y
TYP	Typha angustifolia.	narrow cattail	Recorded historically (1922) from Golden Gate Park, the Marina Dist., and Sunset Dist. dunes (Howell, et al.); 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	Typha domingensis	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	Tupha latifolia.	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, et al., 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		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	Ulex europaeus	European gorse	[<i>Ll. europaea</i>] Recorded historically (1927) from near Bayview Hill, near Islais Cr., Pine Lake, the Presidio (Golf Course), se. SF, Sunset Hts., and Visitación 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	Ulmus minor	English elm	[<u>U. procera</u> , U. campestris] Recorded historically (1954) from Golden Gate Park (Howell, et al., 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	Ulmus pumila	Siberian elm	Recorded historically (1954) from near Golden Gate Park (CCH); not included in Howell, et al. 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	Umbellularia californica	Cal. bay-laurel	Recorded historically (1837) from the Presidio (Ft. Point) and "SF" (Howell, et al., 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	Uropappus lindleyi	Lindley's silverpuffs	[<i>Microseris I.; <u>M. linearifolia</u>]</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	Urospermum picroides	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	р	Naturalized. Disturbed places; Elevation: < 400 m.	7	Apr-Jul	no	N/N
URT	Urtica dioica ssp.	stinging nettle	Reported (as full species) from Golden Gate Park (Oak Woodland) and the Presidio (Officer's Row).	h	р	n/a	2	Jun-Sep	no	Y/Y
URT	Urtica dioica ssp. gracilis	common perennial stinging nettle	[<u>U. californica</u>] Recorded historically (1933) from Lake Merced and San Miguel Hills (Howell, et al., CCH). Reported from Pine Lake and the Presidio (Dragonfly Cr., Tennessee Hollow).	h	р	Rhizomatous, with stinging hairs. Moist or riparian areas, willow scrub; Elevation: < 245 m. WET: FAC	3	Mar-Oct	no	Y/Y
URT	Urtica dioica ssp. holosericea	coast nettle	[<u>]L holosericea</u>] 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	р	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	Urtica uneus	annual dwarf nettle	Recorded historically (1878) from Bayview Hills, Golden Gate Park, Hunters Pt., Lake Merced, Lone Mt., Mission Hills, the Sunset Dist. (Howell, et al., 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	Vaccaria hispanica	cow soapwort	[<u>V. pyramidata</u>] 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

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁴	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM [°]	DURATION ^f	HABIT/ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ^j /CA
ERI	Vaccinium ovatum	Cal. or evergreen huckleberry	Recorded historically (1852) from Lone Mt. and Mt. Davidson (Howell, et al., CCH). Reported from Golden Gate Park, Lone Mt., Mt. Davidson, O'Shaughnessy Hollow, and Rocky Outcrop; reintroduced at Sutro Forest.	s	ep	Edges, clearings in conifer forest; Elevation: 3- 800 m. WET: UPL	6	Mar-May	no	Y/Y
VAL	Valerianella locusta	common cornsalad	[V. olitoria] Recorded historically (c. 1890) from the western part of the City (Howell, et al. ; there are no SF records in CCH. There are no contemporary reports from SF.	h	а	Naturalized. Moist, shaded sites; Elevation: < 1400 m.	0	Apr-Jun	no	N/N
SCR	Verbascum blattaria		Recorded historically (1915) from Golden Gate Park (Howell, et al.); there are no SF records in CCH. There are no contemporary reports from SF.	h		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	Verbascum thapsus	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	Verbena bonariensis	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	<u>Verbena lasiostachys</u> var.	western verbena	Recorded historically (c. 1957, as full species) from Golden Gate Park, where it was presumed to have been introduced (Howell, et al.); there are no SF records in CCH. Reported from Heron's Head. Within the range of both V.l. var. l. and V.l. var. scabrida.	h	р	Open, dry to wet places; Elevation: < 2500 m. WET: FAC	1	May-Sep	no	N/Y
PTG	Veronica americana.	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, et al., 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. Sutro Forest.	h	р	Rhizomatous. Moist to wet soil, springs, slow streams, meadows, lakeshores; Elevation: < 3300 m. WET: OBL	14	May-Aug	no	Y/Y
PTG	Veronica anagallis-aquatica	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	р	Naturalized. Rhizomatous. Wet meadows, stream-banks, slow streams; Elevation: < 3000 m. WET: OBL	2	May-Sep	no	N/N
PTG	Veronica arvensis	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	Veronica chamaedrys	germander speedwell	Previously included in the Scrophulariaceae. Recorded historically (1956) from Golden Gate Park (Howell, et al.); there are no SF records in CCH. Not considered to occur in Cal. (erroneous report, misapplication, misidentification). Reported from Mission Bay.	h	Р	Not present in Cal. WET: FACU	1	sp-sum	no	N/N
PTG	Veronica filiformis	thread-stalk speedwell	Previously included in the Scrophulariaceae. Recorded historically (1952) from Golden Gate Park and the Sunset Dist. (Howell, et al., 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	р	Waif or garden escape; not naturalized.	7	sp	no	N/N
PTG	Veronica peregrina.ssp. xalapensis	purslane speedwell	Previously included in the Scrophulariaceae. Recorded historically (c. 1890) from se. SF (Howell, et al.); 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	Veronica persica		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., Sutro Hts., Twin Peaks, and Yerba Buena Is.	h		Naturalized. Prostrate. Wet, disturbed areas, fields; Elevation: < 1100 m.	22	Feb-May	no	N/N
PTG	<u>Veronica serpullifolia</u> 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, et al., CCH); presumably the garden weed V.s. ssp. serpyllifolia. Reported (as full species) from Golden Gate Park, the Richmond Dist., and SFSU.	h		Waif or garden escape; not naturalized. WET: FAC	2	Apr-Aug	no	N/Y
PTG	Veronica serpyllifolia ssp. humifusa	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	р	Rhizomatous. Moist stream-banks, lakeshores, meadows; Elevation: < 3200 m. WET: FAC	0	Apr-Aug	no	Y/Y
ADX	<u>Viburnum tinus</u>	lauristinus viburnum	Previously incuded in the Caprifoliaceae. Recorded historically (c. 1955) from Golden Gate Park (Howell, et al.); there are no SF records in CCH. There are no contemporary reports from SF.	s	р	Waif or garden escape; not naturalized.	0	lwin-sp	no	N/N

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME [¢]	NOTES ^d Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ / CA
FAB	Vicia americana ssp. americana	American vetch	[Incl. <u>V.a.</u> , vars. linearis, <u>organa</u> and <u>truncata</u>] 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	р	Sprawling, climbing. Generally open, moist forest, along streams, disturbed areas; Elevation: < 2400 m. WET: FAC	23	Mar-Jun	no	Y/Y
FAB	<u>Vicia benghalensis</u>	narrow-leaved purple vetch	Recorded historically (1954) from Lake Merced, Lone Mt., Pacific Hts., the Presidio, se. SF, and Stern Grove (Howell, et al.); 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	а	Naturalized. Sprawling or climbing. Grassland, road-sides, disturbed areas; Elevation: < 1372 m.	15	Mar-Jun	no	N/N
FAB	<u>Vicia faba</u>	broad bean	Recorded historically (1954) from Hunters Pt. and near Islais Cr. (Howell, et al., CCH). Reported from Glen Cyn., Golden Gate Park, and SFSU.	h	а	Waif or garden escape; not naturalized. Road-	3	May-Jun	no	N/N
FAB	<u>Vicia gigantea</u>	giant coastal vetch	Cynt, Golden Gate Park, and 5950. 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	р	sides, garden escape; Elevation: < 820 m. Sprawling, climbing. Coastal shrub, coastal forest, chaparral; Elevation: < 305 m.	14	Mar-Aug	no	Y/Y
FAB	Vicia hirsuta	hairy vetch	Recorded historically (1915) from SF (Howell, et al., CCH). Reported from Glen Cyn. and Yerba Buena Is.	h	а	Naturalized. Decumbent or climbing. Open, disturbed sites in scrub, woodland, forest; Elevation: < 1372 m.	2	Apr-Jul	no	N/N
FAB	Vicia ludoviciana ssp. ludoviciana	Louisiana vetch	[<u>V. exigua</u>] Known from a single collection (c. 1890) at Mission Hills (Howell, et al.); there are no SF records in CCH. Extirpated; last collected in 1890.	h	а	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	<u>Vicia sativa</u> 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	Vicia sativa ssp. nigra	common field vetch	[<u>V. angustifolia.var. segetalis</u>] 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	Vicia sativa ssp. sativa	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	а	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	Vicia 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	<u>Vicia villosa</u> 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., Pt. 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.</i> ssp. <i>villosa</i> and ssp. <i>varia</i> [<i>V. dasycarpa</i>].	h	a	n/a	9	May-Jul	no	N/N
FAB	Vicia villosa ssp. varia	smooth vetch	[<u>V. dasµcarµa</u>] Recorded historically (1954) from Hunters Pt., Mt. Sutro, and se. SF (Howell, et al.); there are no SF records in CCH.	h-v	а	Naturalized. Sprawling, ascending, or climbing. Grassland, roadside, disturbed areas; Elevation: < 1200(2072) m.	0	Mar-Jul	no	N/N
FAB	Vicia villosa ssp. villosa	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	а	Naturalized. Sprawling, ascending, or climbing. Grassland, roadside, disturbed areas; Elevation: < 2090 m.	5	May-Jul	no	N/N
APO	Vinca major	greater periwinkle	Recorded historically (1956) from Golden Gate Park, Laguna Honda Valley, McLaren Park, Mt. Davidson, and the Presidio (Baker Beach; Howell, et al., CCH). Reported from throughout the city and the Presidio. INVASIVE STATUS: M/3/—/—	h	р	Naturalized. Sprawling. Coastal bluffs, sheltered places, especially along stream beds; Elevation: 2-200 m.	48	Mar-Jun	no	N/N
VIO	<u>Viola adunca</u> 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	р	WET: FAC	2	Apr-Aug	no	Y/Y
VIO	Viola adunca ssp. adunca	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	р	Vernally moist meadows, damp stream-banks, meadow edges in conifer forest, generally shade; Elevation: < 3570 m. WET: FAC	6	Apr-Aug	no	Y/Y

FAMILY ^b	SCIENTIFIC NAME ^c Bold font = listed rare taxon Highlighted = extirpated SF indigenous taxon <u>Underlined</u> = nomenclature used in Howell (r) = reintroduced SF indigenous taxon	COMMON NAME ⁶	NOTES ^a Synonomy/misapplications Historical and Extant Distribution Rarity Status: (Fed / St / CNPS) Invasive Status: (Cal-IPC / SFWMA / CDFA / USDA)	LIFE FORM ^e	DURATION ^f	HABIT / ECOLOGY ⁶	# OCCURENCES ^h	FLOWERING SEASON ⁱ	ENDEMIC ⁱ SF/Bay Area/CA	NATIVE - SF ⁱ / CA
VIO	Viola odorata	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	р	Naturalized. Rhizomatous. Garden escape reported in shady, moist areas generally in riparian habitats; Elevation: 30-1255 m.	2	Jan-May	no	N/N
VIO	<u>Viola pedunculata</u>	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, et al., 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	р	Open, grassy slopes, hillsides, chaparral, oak woodland, generally full sun; Elevation: < 1540 m.	10	Feb-Apr	no	Y/Y
VIO	<u>Viola tricolor</u>	wild pansy	Recorded historically (c. 1955) from Golden Gate Park and the Richmond Dist. (Howell, et al.); 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	Volutaria muricata	Morocco knapweed	[<i>Centaurea m.; 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	а	Naturalized. Disturbed sites; Elevation: < 100 m.	0	Mar-May	no	N/N
CAM	Wahlenbergia marginata	southern rockbell	Not included in Howell, et al. 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	р	Naturalized. Disturbed sites, waste ground, road-sides.	14	Mar-May	no	N/N
ARE	Washingtonia robusta	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	р	Naturalized. Desert washes, disturbed areas, riparian corridors; Elevation: < 500 m. WET: FACW	2	Apr-Jun	no	N/N
ARA	<u>Wolffiella lingulata</u>	mud midget	Previously included in the Lemnaceae. Known from a single collection (c. 1925) from Lake Merced (Howell, et al.); there are no SF records in CCH. Extirpated; last collected in 1925.	h	р	Unrooted floating aquatic. Coastal, interior valleys; Elevation: < 200 m. WET: OBL	0	Jan-Dec	no	Y/Y
BLE	Woodwardia fimbriata	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, et al., 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		Rhizomatous. Near streams, springs, seeps; Elevation: +- 0-2300 m. WET: FACW	13	n/a	no	Y/Y
AST	Wyethia angustifolia	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, et al., 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	р	Grassland; Elevation: < 2050 m. WET: FACU	20	Apr-Aug	no	Y/Y
AST	Wyethia helenioides	gray mule ears	Known from a single collection (c. 1888) at Mission Dolores (Howell, et al.); there are no SF records in CCH. Extirpated; last collected in 1888.	h	р	Open grassland, woodland, scrub; Elevation: < 2000 m. WET: FACW	0	Mar-May	CA	Y/Y
AST	Xanthium spinosum	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, et al.; 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	Xanthium strumarium	common cocklebur	[X. calvum; X. italicum] Recorded historically (1894) from Golden Gate Park, the Presidio, and se. SF (Howell, et al., 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	Yabea microcarpa	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	а	Grassy slopes, dunes, chaparral, woodland; Elevation: < 1500 m. WET: FACU	0	Apr-Jun	no	Y/Y
ZAN	Zannichellia palustris	horned pondweed	Recorded historically (1897) from Golden Gate Park, Lake Merced and the Presidio (Mountain Lake; Howell, et al., CCH). Reported from Candlestick Pt. and the Presidio (Presidio Hills seasonal pond).	h	р	Streams, ponds, lakes; Elevation: < 3090 m. WET: OBL	2	Mar-Nov	no	Y/Y
ARA	Zantedeschia aethiopica	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	р	Rhizomatous. WET: OBL	50	Mar-Jun	no	N/N
GEN	Zeltnera davyi	Davy's centaury	[<i>Centaurium 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	а	Moist coastal bluffs, dunes, open forest; Elevation: < 1000 m.	2	May-Aug	CA	Y/Y
GEN	Zeltnera muehlenbergii	Monterey centaury	[<u>Centaurium m</u> ., C. floribundum] Recorded historically (c. 1890) from Mission Hills and the Presidio (Mountain Lake; Howell, et al., NRDB). Voucher specimen needed. Reported from Glen Cyn.	h	а	Moist coastal bluffs, forest openings; Elevation: < 1600 m. WET: FAC	1	Jun-Aug	no	Y/Y
ZOS	Zostera marina	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	р	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

APPENDICES

APPENDIX 1. REFERENCES AND DATA SOURCES

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				APPE	NDIX 2	. SAN FI	RANCI	SCO PL	ACE NAI	MES
Site Name	Region	District	Neighborhood	Natural*	Natur- alistic*	Park Facilities*	Urban/ Land- scaped	Historic	Owner / Mgt.**	Notes
15th Ave. steps	Outside Lands	Sunset	Golden Gate Hts.	X					SFRPD	Data comprised of only contemporary reports.
Alcatraz Island	SF Bay	SF Bay	n/a			Х		Х	GGNRA	Data comprised of historic records from vicinity and contemporary reports.
Alemany Farm	Southern	Bernal Hts.	Bernal Hts.		x			х	SFRPD	Data comprised of historic records from Alemany Blvd. and vicinity, and contemporary reports.
Alms House	Midtown Terrace	Twin Peaks	Midtown Terrace					х	Public, Private	Data comprised of historic site, merged with Laguna Honda
Balboa Natural Area	Outside Lands	Richmond	Outer Richmond	x					SFRPD	Data comprised mostly of contemporary reports.
Bayview Hill	Southern	Hunters Pt.	Bayview	x	x			Х	SFRPD	Data comprised of historic records from vicinity and contemporary reports. Includes Bayview Park and Natural Area.
Bernal Hts. Park	Southern	Bernal Hts.	Bernal Hts.	Х				Х	SFRPD	Data comprised of historic records from vicinity and contemporary reports.
Billy Goat Hill	Southern	Twin Peaks	Glen Park	Х				Х	SFRPD	Data comprised of historic records from vicinity and contemporary reports.
Brooks Park	Outside Lands	Ingleside	Oceanview	Х	Х			Х	SFRPD	Data comprised of historic records from vicinity and contemporary reports.
Brotherhood Way	Outside Lands	Lake Merced	Lakeshore / Oceanview	x	х	х		х	Private	Data comprised of historic records from vicinity and contemporary reports.
Buena Vista Park	Western Addition	Haight	Haight-Ashbury	Х	Х	Х		Х	SFRPD	Data comprised of historic records from vicinity and contemporary reports.
Candlestick Pt.	Southern	Hunters Pt.	Candlestick Pt.	Х	Х				CDPR	Cal. Dept. of Parks and Recreation. Data comprised mostly of contemporary reports.
China Beach	Outside Lands	Richmond	Sea Cliff	Х	Х				GGNRA	Data comprised mostly of contemporary reports.
City College	Outside Lands	Twin Peaks	Sunnyside				Х	Х	SF City	Data comprised of historic records from vicinity and contemporary reports.
Clarendon Hts.	Midtown Terrace	Twin Peaks	Midtown Terrace		х	х	х	х	Public, Private	Data comprised of historic records from vicinity and contemporary reports. Includes Midtown Terrace Playground and Sutro Reservoir.
Cliff House	Outside Lands	Richmond	Outer Richmond	Х	Х			Х	GGNRA	Data comprised of historic records and contemporary reports.
Clipper St. Slope	Southern	Noe Valley	Noe Valley		х				Private	Two privately owned parcels. Data is comprised of contemporary reports. Needs study.
College Hill	Southern	Bernal Hts.	Bernal Hts.		x			х	Private SFRPD	Data comprised of historic records from vicinity and contemporary reports. Includes Holly Park.
Corona Hts. Park	Southern	Haight	Eureka Valley	Х	Х			Х	SFRPD	Data comprised of historic records from vicinity and contemporary reports.
Crocker Amazon Natural Area	Southern	Excelsior	Crocker Amazon	х	х	х		х	SFRPD	Data comprised mostly of contemporary reports. Consists of lands east of ballfields, south of Sunnydale Avenue.
Diamond & 29th Open Space	Southern	Noe Valley	Noe Valley		х				SFRPD	Data comprised solely of contemporary reports; needs study.
Diamond Hts.	Midtown Terrace	Twin Peaks	Diamond Hts.					х	Public, Private	Encompasses Glen Cyn, Ora Way (Goldmine Hill), Topaz Open Space.
Dolores Hts.	Southern	Castro	Eureka Valley / Dolores Hts.					х	Private	Data comprised of historic records only.
Dorothy Erskine Park	Outside Lands	Twin Peaks	Sunnyside	х				х	SFRPD	Data comprised of historic records from vicinity and contemporary reports.
Douglas Park	Midtown Terrace	Twin Peaks	Noe Valley		x	x		х	SFRPD	Data comprised of historic records from vicinity and contemporary reports; needs study.
Duboce Park	Western Addition	Castro	Duboce Triangle			Х	Х		SFRPD	There are no significant historic records. Urban park with no natural areas.
Duncan-Castro Open Space	Southern	Noe Valley	Noe Valley	x				х	SFRPD	Data comprised of historic records from vicinity and contemporary reports.
Edgehill Mt.	Outside Lands	Twin Peaks	Forest Hill Extension	х				х	SFRPD	Data comprised of historic records from vicinity and contemporary reports.

Public, Embarcadero N. of Downtown Port North Waterfront Х Х Data comprised of historic records from vicinity and contemporary reports. Private Everson Digby Southern Twin Peaks Glen Park Х SFRPD Data comprised mostly of contemporary reports; needs study. Open Space Fairmont Park Southern Twin Peaks Glen Park Х SFRPD Data comprised mostly of contemporary reports; needs study. Data comprised of historic records from vicinity and contemporary reports. Merged Public. Fisherman's Wharf N. of Downtown Fisherman's Wharf North Waterfront х Х Private with Embarcadero Data comprised of historic references. Encompasses Hawk Hill (described separately) Outside Lands Twin Peaks Forest Hill Х Х and east-facing slope opposite of Laguna Honda (which is combined with Laguna Forest Hill Private Honda Reservoir). Ft. Funston Х Х Х GGNRA Data comprised of historic records from vicinity and contemporary reports. Outside Lands Lake Merced Lakeshore Data comprised of historic records (including Black Pt.) and contemporary reports. Marina Х Х Х Х GGNRA Ft. Mason N. of Downtown Marina Represents San Francisco's last piece of native bay shoreline. Francisco Park N. of Downtown Russian Hill Russian Hill Х SFRPD Data comprised of contemporary reports; needs study. Х Х Southern Diamond Hts. Х Х Х Х Glen Cvn. Park Twin Peaks SFRPD Data comprised of historic records from vicinity and contemporary reports. Golden Gate Hts. Outside Lands Sunset Golden Gate Hts. Х Х х Х SFRPD Data comprised of historic records from vicinity and contemporary reports. Park Public, Goldmine Hill Midtown Terrace Twin Peaks Diamond Hts. See Ora Way Hilltop. Private Grandview Park & Outside Lands Х Golden Gate Hts. Х Sunset SFRPD Data comprised of historic records from vicinity and contemporary reports. Extension Hawk Hill Park Outside Lands Golden Gate Hts. Х Х SFRPD Data comprised of historic records from vicinity and contemporary reports. Sunset Haves Vallev Western Addition Western Addition Western Addition There are no significant historical records, no natural or naturalistic areas. Private Heron's Head Х Southern Hunters Pt. Hunters Pt. Port of SF Data comprised mostly of contemporary reports. Includes Pier 98. Park Hilltop Park Х Х SFRPD Data comprised of contemporary reports. Southern Hunters Pt. Bayview Х Data comprised of historic records and contemporary reports. Encompasses former US Navy, х Hunter's Pt. Southern Hunters Pt. Hunters Pt. Х Х Х Х SFRPD navy base, India Basin Shoreline Park, ridge and wetlands. Ina Coolbrith Park N. of Downtown Russian Hill Russian Hill Х Х SFRPD Data comprised mostly of contemporary reports. India Basin Southern Hunters Pt. Hunters Pt. SFRPD Merged with Hunters Point. Shoreline Park Ingleside Dist. Outside Lands Ingleside Ingleside Х Х Data comprised of historic records from vicinity and contemporary reports. Private Х Х Х Interior Greenbelt Midtown Terrace Twin Peaks Forest Knolls SFRPD Data comprised of historic records from vicinity and contemporary reports. Bayview / Public, Southern Hunters Pt. Х Х Data comprised of historic records from vicinity and contemporary reports. Islais Cr. Х Hunters Pt. Private Juvenile Hall Outside Lands Х Х Twin Peaks Midtown Terrace SF City Data comprised of solely of contemporary reports; needs study Slope Kite Hill Southern Castro Eureka Valley Х Х SFRPD Data comprised of historic records from vicinity and contemporary reports. Lafavette Park N. of Downtown Pacific Hts. Pacific Hts. Х SFRPD No data. Site has no value as a natural or naturalistic area. Data comprised of historic records and contemporary reports. Encompasses Laguna Laguna Honda Honda Reservoir and slope, Laguna Honda Hospital open space, and Public Works Midtown Terrace Twin Peaks Forest Knolls Х Х SFPUC Valley slope on west side of Laguna Honda Blvd. Also includes historic references to Alms House. Outside Lands Lake Merced Lakeshore Х Х Х SFRPD Data comprised of historic records from vicinity and contemporary reports. Lake Merced Х Lakeview & Data comprised of historic records and contemporary reports. Includes historic Х Х SFRPD Outside Lands Ingleside Oceanview Ashton Mini Park references to Nanny Goat Hill. Data comprised of historic records from vicinity and contemporary reports. Includes Land's End Outside Lands Richmond Sea Cliff Х Х Х Х GGNRA Pt. Lobos and Lincoln Park.

										-
Laurel Hts.	Western Addition	Richmond	North of the				x	x	Public,	Data comprised of historic records and contemporary reports. Includes historic
			Panhandle						Private	references to Laurel Hill Cemetery and contemporary reports from UCSF campus.
Lincoln Park	Outside Lands	Richmond	Outer Richmond						SFRPD	Merged with Land's End. Insufficient historical and current data to warrant separate listing.
Lone Mt.	Western Addition	Richmond	Lone Mt.		х	х	x	x	Public,	Data comprised of historic records from vicinity and contemporary reports. Includes
									Private	USF and Masonic Cemetery.
Marina Dist.	N. of Downtown	Marina	Marina			Х	x	x	Public,	Data comprised of historic records from vicinity and contemporary reports. Includes
									Private	references to Aquatic Park.
Masonic Cemetery	Western Addition	Richmond	Lone Mt.					X	Public, Private	Merged with Lone Mt.
McLaren Park	Southern	Excelsior	Excelsior / Visitación Valley	х	х	Х		X	SFRPD	Data comprised of historic records from vicinity and contemporary reports.
Midtown Terrace Playground	Midtown Terrace	Twin Peaks	Midtown Terrace						SFRPD	Merged with Clarendon Heights.
	Downtown	South of Market	Bayview /		х		X	x	Public,	Data comprised of historic references to Mission Bay and Mission Rock Terminal and
Mission Bay Dist.	Downtown	South of Warket	Hunters Pt.		^		^	^	Private	contemporary reports. Includes Mission Bay Creek Park and Bayfront Park.
Mission Dist.	Southern	Mission	Inner Mission				X	x	Private	Data comprised of historic records from Mission Dolores and vicinity and
WISSION DISC.	Journem	IVIISSIOIT	IIIIIei Wiission				^	^	Thvate	contemporary reports.
Mission Dolores	Southern	Mission	Mission Dolores					X	Private	Data comprised mostly of historic references. Merged with Mission District.
Mission Hills	Midtown Terrace	Twin Peaks	n/a					x	Public,	Data comprised solely of historic references. Early references included all the high
	initiatown renace	I WIIT I CUIS	,						Private	central ridges of San Francisco from Mt. Sutro to Mt. Davidson and San Miguel Hills.
Mt. Davidson	Outside Lands	Twin Peaks	Miraloma Park	Х	Х			X	SFRPD	Data comprised of historic records from vicinity and contemporary reports.
Mt. Olympus	Southern	Twin Peaks	Corona Hts.					X	SFRPD	Data comprised of historic references.
Nob Hill	Downtown	Nob Hill	Nob Hill				X	X	Private	Data comprised of historic records from vicinity and contemporary reports.
Noe Valley	Southern	Noe Valley	Noe Valley						Private	There are no significant historic records. Data comprised solely of contemporary reports; urbanized.
O'Shaughnessy	Outside Lands	Twin Peaks	Miraloma Park	х				x	DPW,	Data comprised of historic records from vicinity and contemporary reports.
Hollow	Outside Editos	I WIII I Caks		~				Л	SFPUC	Encompasses the entire swath of land west of the O'Shaughnessy Blvd.
Ocean Beach	Outside Lands	Sunset	Outer Sunset	х	х		x	x	GGNRA	Data comprised of historic records from vicinity and contemporary reports. Includes references to SF Zoo.
Oceanview	Outside Lands	Ingleside	Oceanview				X	Х	Private	Data comprised of historic records from vicinity and contemporary reports.
Ora Way Hilltop	Midtown Terrace	Twin Peaks	Diamond Hts.		х		x	x	Public, Private	No historic records or contemporary reports available; needs study. Synonymous with Goldmine Hill.
Pacific Hts. Dist.	N. of Downtown	Pacific Hts.	Pacific Hts.				Х	Х	Private	Data comprised of historic records from vicinity and contemporary reports.
Palou & Phelps Mini Park	Southern	Hunters Pt.	Bayview	х				x	SFRPD	Data comprised of historic records from vicinity and contemporary reports.
Park Merced Dist.	Outside Lands	Lake Merced	Lakeshore					x	Public, Private	No significant historic records. No value as natural area.
Parkside Dist.	Outside Lands	Lake Merced	Parkside						Private	Merged with Sunset District.
Pier 39	N. of Downtown	Fisherman's Wharf	North Waterfront						Public, Private	Merged with Embarcadero
Pier 94 Wetlands	Southern	Hunters Pt.	Hunters Pt.	Х	Х				Port of SF	Data comprised mostly of contemporary reports.
Pier 98	Southern	Hunters Pt.	Hunters Pt.						Public, Private	Merged with Heron's Head
Pine Lake Park	Outside Lands	Sunset	Pine Lake Park	Х	х	Х		x	SFRPD	Data comprised of historic references to Laguna Puerca and contemporary reports. Includes Sigmund Stern Grove.
Pt. Lobos	Outside Lands	Richmond	Lincoln Park					1	GGNRA	Merged with Land's End.
Portola Open	Midtorup Tom	Turin Doole			х	v			CEDDD	
Space	Midtown Terrace	Twin Peaks	Noe Valley		^	Х			SFRPD	No historic records and no contemporary reports; needs study.

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Data comprised of historic records from vicinity and contemporary reports. Potrero Hill Southern Potrero Hill Potrero Hill Х Х SFRPD Х Х Encompasses PH Mini Park. Red Rock Is. SF Bav SF Bav Data deficient. The island falls into three counties. SF Bav SF Citv Inner, Central, Outside Lands Richmond Х Х Х Richmond Dist. Private Data comprised of historic records from vicinity and contemporary reports. Outer Richmond Data comprised of historic records from vicinity and contemporary reports. Includes Outside Lands Golden Gate Hts. Х Х SFRPD Rocky Outcrop Sunset Sunset Heights. Data comprised of historic and contemporary reports. Encompasses Russian Hill Park Public, Х Russian Hill Dist. N. of Downtown Russian Hill Russian Hill Х Х and Russian Hill Open Space; Francisco Park is listed separately. Private San Francisco -Public, San Francisco n/a n/a Х Data comprised of historic references non-specific Private Public. San Francisco х n/a Data comprised of historic references San Francisco n/a southeast Private San Francisco -Public, n/a San Francisco n/a Х Data comprised of historic references west Private Diamond Hts., Data comprised of historic references. Encompasses Mt. Davidson, Red Rock Hill Public. Twin Peaks Glen Park. Х Diamond Hts.), Gold Mine Hill (Ora Way), Fairmount Hill (Billy Goat Hill, San Miguel Hills Midtown Terrace Private Miraloma Park Everson/Digby, Fairmont Plaza), and Martha Hill (Dorothy Erskine Park). Sea Cliff Dist. Outside Lands Richmond Outer Richmond Х Х Х Data comprised of historic records from vicinity and contemporary reports. Private Data comprised mostly of contemporary reports. Seward Mini Park Southern Eureka Vallev SFRPD Castro Х Х Data comprised of historic records from vicinity and contemporary reports. Merged SF Zoo Outside Lands Lake Merced Lakeshore Х SFRPD with Ocean Beach Data comprised of historic records from vicinity and contemporary reports. х SF State University Outside Lands Lake Merced Lakeshore Х х Х SFSU Encompasses Mission Bay, Mission Creek. Sigmund Stern Outside Lands SFRPD Sunset Central Sunset Data comprised historic records and contemporary reports; merged with Pine Lake Grove Public. Data comprised of historic records from vicinity and contemporary reports. South of Market Downtown South of Market South of Market х Х Х Private Encompasses Mission Bay, Mission Creek. St. Francis Wood Outside Lands Twin Peaks St. Francis Wood Х Х Private Data comprised of historic references. Data comprised of historic records from vicinity and contemporary reports. Includes Public. St. Mary's College Southern Bernal Hts. Bernal Hts. х Х St. Mary's Playground. Private Public. Data comprised of historic references only; merged with Glen Canyon, Ora Way, х Stanford Hts. Outside Lands Twin Peaks Miraloma Park Topaz Open Space, or San Miguel Hills. Private Starr King Open Southern Potrero Hill Potrero Hill Х Х Data comprised of historic records from vicinity and contemporary reports. Private Space Data comprised of very few historic records. Encompasses City College, Dorothy Public. Sunnyside Dist. Outside Lands Ingleside Sunnyside Erskine Park Private Data comprised of historic records and contemporary reports. Encompasses 15th Ave. Inner, Central, Public, Sunset Dist. Outside Lands Х Х Х Sunset Outer Sunset Steps, Grandview Park, rocky outcrop, Golden Gate Hts. Park, Ocean Beach (in part). Private Sutro Baths Outside Lands Richmond Outer Richmond Х Х Х GGNRA Data comprised of historic records from vicinity and contemporary reports. Sutro Forest Midtown Terrace Twin Peaks Forest Knolls Х Х Х UCSF Data comprised of historic records from Mt. Sutro vicinity and contemporary reports. Data comprised of historic records from vicinity and contemporary reports. Includes Sutro Hts. Outside Lands Richmond Outer Richmond Х Х GGNRA Sutro Hts. Park. Tank Hill Western Addition Twin Peaks Cole Vallev Х Х SFRPD Data comprised of historic records from vicinity and contemporary reports. Telegraph Hill Downtown North Beach Little Italv Х Х Х SFRPD Data comprised of historic records from vicinity and contemporary reports. Topaz Open Space Midtown Terrace Twin Peaks Diamond Hts. Х SFRPD No data available; needs study.

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Treasure Is.		SF Bay	Treasure Is.			х	x		Public, Private	Data comprised of entirely of contemporary records.
Twin Peaks	Midtown Terrace	Twin Peaks	Twin Peaks	Х				X	SFRPD	Data comprised of historic records from vicinity and contemporary reports.
Visitación Valley	Southern	Excelsior	Visitación Valley				x	x	Public, Private	Data comprised of historic references and contemporary reports.
West Portal	Outside Lands	Twin Peaks	West Portal					Х	Private	Data comprised of historic records only.
Yerba Buena Is.	N. of Downtown	SF Bay	Yerba Buena Is.	х			X		City of SF,	Data comprised of contemporary reports only; there are no historic records. Does not
Terba buena is.	N. OF DOWINTOWN	Эг Бау	Terba Buena Is.	Λ			^		USCG	include Treasure Island.
Yosemite Slough	Southern	Hunters Pt.	Hunters Pt.	Х	x				CDPR	Data comprised mostly of contemporary reports. Encompasses South Basin and California Dept. of Parks and Recreation wetland restoration project.
Sharp Park									SFRPD	Not included in Checklist; Not in San Francisco County.
Farallon Islands									USFWS	Not included in Checklist; no public access.
Golden Gate Park										
non-specific	Golden Gate Park	Golden Gate Park	Golden Gate Park			X		X	SFRPD	Data comprised of historic records from vicinity and contemporary reports.
Chain-of-Lakes	Golden Gate Park	Golden Gate Park	Golden Gate Park		X			X	SFRPD	Data comprised of historic records from vicinity and contemporary reports.
Lily Pond	Golden Gate Park	Golden Gate Park	Golden Gate Park		x			x	SFRPD	Data comprised of historic and contemporary records. Includes historic references to Quarry Lake.
Mallard Lake	Golden Gate Park	Golden Gate Park	Golden Gate Park		Х			X	SFRPD	Data comprised of historic records from vicinity and contemporary reports.
Oak Woodland	Golden Gate Park	Golden Gate Park	Golden Gate Park	Х				X	SFRPD	Data comprised of historic records from vicinity and contemporary reports.
Quarry Lake	Golden Gate Park	Golden Gate Park	Golden Gate Park						SFRPD	Synonymous with Lily Pond.
Stow Lake	Golden Gate Park	Golden Gate Park	Golden Gate Park		Х			Х	SFRPD	Data comprised of historic records from vicinity and contemporary reports.
Strawberry Hill	Golden Gate Park	Golden Gate Park	Golden Gate Park	Х	Х			Х	SFRPD	Data comprised of historic records from vicinity and contemporary reports.
Presidio			· · · · · ·						·	
Presidio - non- specific	N. of Downtown	The Presidio	The Presidio	х	x	х	x	x	NPS	Data comprised of historic records from vicinity and contemporary reports.
Arguello Gate	N. of Downtown	The Presidio	The Presidio		Х			Х	NPS	Data comprised solely of contemporary reports.
Armistead Housing	N. of Downtown	The Presidio	The Presidio		x				NPS	Data comprised solely of contemporary reports.
Baker Beach	N. of Downtown	The Presidio	The Presidio	х				x	GGNRA	Data comprised of historic records from vicinity and contemporary reports. Encompasses Baker Beach Plantation, Foredunes, Foredune Zero, Battery Chamberlain, Croton Hill, Picnic Areas, Baker Beach SMZ, and Water Treatment Plant.
Baker Beach North	N. of Downtown	The Presidio	The Presidio	х				x	GGNRA	Data comprised of historic records from vicinity and contemporary reports. Encompasses Coyote Gulch, Dune Ridge, Sand Ladder (North and South), Yerba Buena Dunes.
Battery Dynamite	N. of Downtown	The Presidio	The Presidio		x				GGNRA	Data comprised of historic records from vicinity and contemporary reports. Includes Central Magazine.
Central Magazine	N. of Downtown	The Presidio	The Presidio						GGNRA	Merged with Battery Dynamite.
coastal bluffs	N. of Downtown	The Presidio	The Presidio				1		GGNRA	See Presidio Bluffs.
Crissy Bluffs	N. of Downtown	The Presidio	The Presidio	х				x	GGNRA	Data comprised of historic records from vicinity and contemporary reports. Encompasses Doyle Dr. Viaduct, East and West Crissy Bluffs.
Crissy Field	N. of Downtown	The Presidio	The Presidio	х		х		x	GGNRA	Data comprised of historic records from vicinity and contemporary reports. Encompasses Dune Swale, Foredunes (Eastern, Middle, Remnant, Western), Tidal Marsh.
Doyle Drive Natural Area	N. of Downtown	The Presidio	The Presidio	х	x			x	GGNRA	Data comprised mostly of contemporary reports. Encompasses Log Cabin Prairie, Log Cabin Wetland, Storey Ave. Wetland.
Dragonfly Cr.	N. of Downtown	The Presidio	The Presidio	Х					GGNRA	Data comprised of contemporary reports. Encompasses upper and lower Dragonfly Cr and area above palms.
El Polin Springs	N. of Downtown	The Presidio	The Presidio						GGNRA	See Tennessee Hollow.

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Eucalyptus Diversification Area	N. of Downtown	The Presidio	The Presidio		x			x	GGNRA	Data comprised of contemporary reports.
Ft. Point	N. of Downtown	The Presidio	The Presidio	х	x			x	GGNRA	Data comprised of historic records from vicinity and contemporary reports. Encompasses Battery East, Fort Pt. Bluffs, Marine Dr. Wetlands.
Ft. Scott	N. of Downtown	The Presidio	The Presidio		Х	Х		Х	GGNRA	Data comprised of historic records from vicinity and contemporary reports.
Golf Course Natural Area	N. of Downtown	The Presidio	The Presidio	x	x			x	GGNRA	Data comprised of historic records from vicinity and contemporary reports. Encompasses Golf Course Lessingia Site, Golf Course Oak woodland, Golf Course serpentine area, and Golf Course wetland.
Horse Stables	N. of Downtown	The Presidio	The Presidio		X				GGNRA	Data comprised of contemporary reports.
Infantry Terrace	N. of Downtown	The Presidio	The Presidio		X				GGNRA	Data comprised of contemporary reports.
Inspiration Pt.	N. of Downtown	The Presidio	The Presidio	х	x			x	GGNRA	Data comprised of historic records from vicinity and contemporary reports. Encompasses east and west grassland, lower quarry, overlook, redwood stand, south drainage, viewshed and viewshed extension.
Julius Kahn Playground	N. of Downtown	The Presidio	The Presidio		х	Х			GGNRA	Data comprised of contemporary reports.
Ligget Street Housing	N. of Downtown	The Presidio	The Presidio		x				GGNRA	Data comprised of contemporary reports.
Lobos Cr. Valley	N. of Downtown	The Presidio	The Presidio	х	x	Х		x	GGNRA	Data comprised of historic records from vicinity and contemporary reports. Encompasses 1750 Slope; Remnant Lessingia; New Dunes; Battery Caulfield Lessingia; Bowley Point; Field Offices Dunes; Upper Creek; Landfill 10; Lower Creek, Lobos Valley Special Management Zone.
Log Cabin	N. of Downtown	The Presidio	The Presidio						GGNRA	Merged with Doyle Drive Natural Area.
Lover's Lane	N. of Downtown	The Presidio	The Presidio		X			Х	GGNRA	Data comprised of contemporary reports.
Lyon St. Plantation	N. of Downtown	The Presidio	The Presidio		х				GGNRA	Data comprised of contemporary reports.
Main Post	N. of Downtown	The Presidio	The Presidio		х	Х			GGNRA	Data comprised of historic records from vicinity and contemporary reports. Encompasses Main Post buckeye (E, W, and N of Infantry Terrace).
Mountain Lake	N. of Downtown	The Presidio	The Presidio	х	x	Х		x	GGNRA	Data comprised of historic records from vicinity and contemporary reports. Encompasses East and North Arm, Park Dunes, Park Scrub, W. Pacific Dog Run.
Oak Study Area	N. of Downtown	The Presidio	The Presidio						GGNRA	Data comprised of contemporary reports.
Officer's Row	N. of Downtown	The Presidio	The Presidio		X				GGNRA	Data comprised of contemporary reports.
Park Blvd. Plantation	N. of Downtown	The Presidio	The Presidio		х				GGNRA	Data comprised of contemporary reports.
Presidio Bluffs	N. of Downtown	The Presidio	The Presidio	x				x	GGNRA	Data comprised of historic records from vicinity and contemporary reports. Encompasses Battery Crosby, Landon South, Marshall's Beach, North Bluffs, Raven's Perch, Rock Gardens, South Bluffs, Yerba Buena Serpentine.
Presidio Gate	N. of Downtown	The Presidio	The Presidio		Х				GGNRA	Data from Calflora
Presidio Hills	N. of Downtown	The Presidio	The Presidio	х	x			x	GGNRA	Data comprised of historic records from vicinity and contemporary reports. Encompasses 1812 Buffer, Dune Slope, East Scrub, Golf Course Buffer, Landfill 8, Lessingia Recovery, Nike Facility, Oak Woodland, Quail Commons, Remnant Lessingia, Scrub Recovery, Wetland.
Public Health Services Area	N. of Downtown	The Presidio	The Presidio			Х	х		GGNRA	Data comprised of historic references to Marine Hospital and contemporary reports.
Pygmy Forest	N. of Downtown	The Presidio	The Presidio		Х				GGNRA	Data comprised of contemporary reports.
Reservoir Cultural Plantation	N. of Downtown	The Presidio	The Presidio		х				GGNRA	Data comprised of contemporary reports.

Rob Hill	N. of Downtown	The Presidio	The Presidio	x	x		х	GGNRA	Data comprised of historic records from vicinity and contemporary reports. Encompasses Communications Bldg., Lessingia Site, Top of Battery, Washington Prairie.
Simond's Loop	N. of Downtown	The Presidio	The Presidio		X			GGNRA	Data comprised of contemporary reports.
Storey Ave. wetland	N. of Downtown	The Presidio	The Presidio					GGNRA	Merged with Doyle Drive Natural Area.
Sumner Ave. Grassland	N. of Downtown	The Presidio	The Presidio	x	x	х		GGNRA	Data comprised of contemporary reports.
SW Dunes	N. of Downtown	The Presidio	The Presidio	x	x	х	x	GGNRA	Data comprised of historic records from vicinity and contemporary reports. Encompasses Baker Beach Housing, East of Lincoln, Graded Area 9, North Dunes Corridor, North Pershing Dunes, Silene Area, Wherry Corridor, Wherry Dunes.
Tennessee Hollow	N. of Downtown	The Presidio	The Presidio	x	x	х	x	GGNRA	Data comprised of historic records from vicinity and contemporary reports. Encompasses Central Tributary (East and West), Eastern Tributary, El Polin, Fill Site 1, Landfill 2, MacArthur Meadow, Quartermaster Reach, Remnant Reach, Summer Grassland, Thompson reach, Western Tributary, YMCA Reach.
Transfer Station Plantation	N. of Downtown	The Presidio	The Presidio		x			GGNRA	Data comprised of contemporary reports.
Washington/Arma tury Housing	N. of Downtown	The Presidio	The Presidio		x			GGNRA	Data comprised of contemporary reports.
West Pacific Natural Area	N. of Downtown	The Presidio	The Presidio	x	x			GGNRA	Data comprised of historic records from vicinity and contemporary reports. Encompasses Southeast Dunes (also known as Inspiration Point Dunes).
World War II Memorial	N. of Downtown	The Presidio	The Presidio	x	x		x	GGNRA	Data comprised of historic records from vicinity and contemporary reports. Encompasses Battery Safford, Raven's Manzanita, Sunset Scrub, Sunset Scrub Trees, Triangle.
Yerba Buena Serpentine	N. of Downtown	The Presidio	The Presidio					GGNRA	Merged with Presidio Bluffs.

* Natural Areas, Naturalistic Areas, and Park Facilities and Other Sites as designated on Nature in the City Map; see discussion in Introduction. ** See inside of back cover for explanation of acronyms.

Total number of named sites: 177

	APPENDIX 3 PLANT FAMILIES* AND GENERA INCLUDED IN THE CHECKLIST										
ACA	Acanthaceae - Acanthus Family [E]	ANA	Anacardiaceae - Sumac Family [E]	APO	Apocynaceae - Dogbane Family [E]		Anaphalis				
	Acanthus		Rhus - see also Toxicodendron		Аросупит		Anisocarpus				
ACE	Aceraceae - see Sapindaceae		Schinus		Asclepias		Anthemis				
ADX	Adoxaceae - Muskroot Family [E]		Searsia		Vinca		Arctium				
	Sambucus		Toxicodendron	AQF	Aquifoliaceae - Holly Family [E]		Arctotheca				
	Viburnum	API	Apiaceae - Carrot Family [E]		Ilex		Argyranthemum				
AGA	Agavaceae - Century Plant Family [M]		See also Araliaceae	ARA	Araceae - Arum Family [M]		Artemisia				
	Agave		Angelica		Arum		Aster - see Eurybia, Symphyotrichum				
	Chlorogalum		Anthriscus		Dracunculus		Baccharis				
AIZ	Aizoaceae - Iceplant Family [E]		Apiastrum		Lemna		Baeria - see Lasthenia				
	Aptenia		Apium		Pinellia		Bellis				
	Carpobrotus		Berula		Spirodela		Bidens				
	Conicosia		Bowlesia		Wolffiella		Blennosperma				
	Disphyma		Caucalis - see Yabea		Zantedeschia		Calendula - see also Dimorphotheca				
	Drosanthemum		Cicuta	ARE	Arecaceae - Palm Family [M]		Carduus				
	Lampranthus		Conioselinum		Phoenix		Carthamus				
	Mesembryanthemum - see Aptenia, Carpobrotus,		Conium		Washingtonia		Centaurea - see also Volutaria				
	Conicosia, Disphyma, Drosanthemum		Coriandrum	ARL	Araliaceae - Ginseng Family [E]		Centromadia				
	Sesuvium		Cyclospermum		Aralia	_	Chaenactis				
	Tetragonia		Daucus		Hedera		Chamomilla - see Matricaria				
ALI	Alismataceae - Water-Plantain Family [M]		Eryngium		Hydrocotyle	_	Chondrilla				
	Alisma		Foeniculum	ARS	Aristolochiaceae - Pipevine Family [O]		Chrysanthemum - see Argyranthemum,				
	Echinodorus		Heracleum		Aristolochia		Glebionis, Leucanthemum, Tanacetum				
	Sagittaria	_	Ligusticum		Asarum		Cichorium				
ALL	Alliaceae - Onion Family [M]		Lomatium	ASG	Asparagaceae - Asparagus Family [M]		Cirsium				
	Allium		Oenanthe		Asparagus		Cnicus - see Centaurea				
	Ipheion		Osmorhiza		Hyacinthoides	_	Conyza - see also Erigeron				
	Nothoscordum - see also Allium	_	Pastinaca	ASP	Asphodelaceae - Asphodel Family [M]		Coreopsis				
AMA	Amaranthaceae - Amaranth Family [E]		Perideridia		Aloe	-	Corethrogyne				
	Amaranthus		Petroselinum		Bulbine		Cotula				
AML	Amaryllidaceae - Amaryllis Family [M]		Sanicula		Kniphofia	_	Crepis				
	Amaryllis		Scandix	AST	Asteraceae - Sunflower Family [E]		Chrysopsis - see Heterotheca				
	Leucojum		Tauschia		Achillea		Cyanopsis - see Volutaria				
	Narcissus		Torilis		Achyrachaena		Cynara				
			Yabea		Ageratina		Deinandra				
					Agoseris		Delairea				

Ambrosia

Deinandra

APPENDIX 3 PLANT FAMILIES* AND GENERA INCLUDED IN THE CHECKLIST

PLANT FAMILIES* AND GENERA INCLUDED IN THE CHECKLIST										
Dimorphotheca	Hypochaeris	Tanacetum	Ellisia - see Pholistoma							
Dittrichia	Isocoma	Taraxacum	Heliotropium							
Erechtites - see Senecio	Iva	Tolpis	Lithospermum							
Ericameria	Jacobea - see Senecio	Tragopogon	Myosotis							
Erigeron	Jaumea	Uropappus	Nemophila							
Eriophyllum	Lactuca	Urospermum	Pectocarya							
Eupatorium - see Ageratina	Lagophylla	Volutaria	Pentaglottis							
Eurybia	Lapsana	Wyethia	Phacelia							
Euthamia	Lasthenia	Xanthium	Pholistoma							
Evax - see Hesperevax	Layia	ATH Athyriaceae - Cliff-Fern Family [P]	Plagiobothrys							
Felicia	Leontodon	Athyrium	Romanzoffia							
Filago - see Logfia	Lessingia - see also Corethrogyne	AZL Azollaceae - Mosquito-Fern Family [P]	BRA Brassicaceae - Mustard Family [E]							
Franseria - see Ambrosia	Leucanthemum	Azolla	Alyssum							
Gaillardia	Logfia	BAS Basellaceae - Basella Family [E]	Arabis - see also Turritis							
Galinsoga	Madia - see also Anisocarpus, Hemizonella	Anredera	Athysanus							
Gamochaeta	Matricaria	Boussingaultia - see Anredera	Barbarea							
Gazania	Micropus	BER Berberidaceae - Barberry Family [E]	Brassica - see also Hirschfeldia, Sinapis							
Glebionis	Microseris - see also Stebbinsoseris, Uropappus	Berberis	Cakile							
Gnaphalium - see also Gamochaeta,	Pentachaeta	BET Betulaceae - Birch Family [E]	Capsella							
Pseudognaphalium	Pericallis	Alnus	Cardamine							
Grindelia	Petasites	Corylus	Cardaria - see Lepidium							
Guizotia	Picris - see Helminthotheca	BIG Bignoniaceae - Bignonia Family [E]	Caulanthus							
Haplopappus - see Ericameria, Grindelia,	Plecostachys	Pandorea	Coronopus - see Lepidium							
Isocoma	Pseudognaphalium	BLE Blechnaceae - Deer Fern Family [P]	Dentaria - see Cardamine							
Hedypnois	Psilocarphus	Woodwardia	Descurainia							
Helenium	Rafinesquia	BLS Balsaminaceae - Touch-Me-Not Family [E]	Diplotaxis							
Helianthella	Rigiopappus	Impatiens	Erysimum							
Helianthus	Santolina	BOR Boraginaceae - Borage Family [E]	Guillenia - see Caulanthus							
Helichrysum	Senecio - see also Delaria, Pericallis	Adelinia - see Cynoglossum	Hirschfeldia							
Helminthotheca	Silybum	Allocarya - see Plagiobothrys	Iberis							
Hemizonella	Solidago - see also Euthamia	Amsinckia	Lepidium							
Hemizonia - see also Deinandra	Soliva	Anchusa - see Pentaglottis	Lobularia							
Hesperevax	Sonchus	Borago	Lunaria							
Heterotheca	Stebbinsoseris	Buglossoides - see Lithospermum	Matthiola							
Hieracium	Stephanomeria	Cryptantha	Nasturtium							
Heterotheca	Symphyotrichum	Cynoglossum	Raphanus							
	515									

		APPE PLANT FAMILIES* AND GENER	NDIX A INC			
Rorippa - see also Nasturtium		Sarcocornia - see Salicornia	-	Caryophyllaceae - Pink Family [E]		Eleocharis
Sinapis		Suaeda	CKI	Arenaria - see also Minuartia		Eriophorum
Sisymbrium	CIS	Cistaceae - Rock-Rose Family [E]	٦	Cardionema		Fimbristylis
Thelypodium - see Caulanthus	010	Cistus		Cerastium		Isolepis
Thlaspi	CII	Callitrichaceae - see Plantaginaceae	1	Lychnis		Kyllinga
Thysanocarpus		Commelinaceae - Spiderwort Family [M]		Minuartia		Schoenoplectus - see also Bolboschoenus
Turritis	CIVIIV	Tradescantia		Paromychia		Scirpus - see also Bolboschoenus, Isolepis,
BUD Buddlejaceae - see Scrophulariaceae	CNV	Convolulaceae - Morning-Glory Family [E]	٦	Petrorhagia		Schoenoplectus
CAC Cactaceae - Cactus Family [E]	CINV	Calystegia		Polycarpon	DPC	Dipsacaceae - Teasel Family [E]
, , , , , , , , , ,		5 6		č i	Dr5	
Opuntia	7	Convolvulus - see also Calystegia		Sabulina - see Minuartia		Dipsacus
CAL Calycanthaceae - Sweet-Shrub Family[O]		Cuscuta		Sagina		Scabiosa
Calycanthus		Dichondra		Saponaria	DDV	Sixalix - see Scabiosa
CAM Campanulaceae - Bellflower Family [E]		Ipomoea	7	Silene - see also Lychnis	DRY	Dryopteridaceae - Wood Fern Family [E]
Githopsis	COR	Cornaceae - Dogwood Family [E]		Spergula		See also Athyriaceae
Heterocodon		Cornus		Spergularia		Cyrtomium
Lobelia		Griselinia	-	Stellaria		Dryopteris
Specularia - see Triodanis	CPR	Caprifoliaceae - Honeysuckle Family [E]		Tissa - see Spergularia		Polystichum
Triodanis		See also Adoxaceae		Vaccaria	DST	Dennstaedtiaceae-Bracken-Fern Family [P]
Wahlenbergia	_	Leycesteria	СТР	Ceratophyllaceae - Hornwort Family [O]		Pteridium
CEL Celastraceae - Staff-Tree Family [E]		Lonicera		Ceratophyllum	ELT	Elatinaceae - Waterwort Family [E]
Maytenus		Symphoricarpos	CUC	Cucurbitaceae - Gourd Family [E]		Elatine
CHN Chenopodiaceae - Goosefoot Family [E]	CRS	Crassulaceae - Stonecrop Family [E]		Bryonia	EQU	Equisetaceae - Horsetail Family [P]
Atriplex - see also Extriplex		Aeonium		Marah		Equisetum
Bassia - see also Kochia		Crassula	CUP	Cupressaceae - Cypress Family [G]	ERI	Ericaceae - Heath Family [E]
Beta		Dudleya		Calocedrus	-	Arbutus
Blitum - see Chenopodium, Monolepis		Escheveria - see Dudleya		Cedrus		Arctostaphylos
Chenopodiastrum - see Chenopodium		Sedum		Chamaecyparis		Erica
Chenopodium - see also Dysphania		Tillaea - see Crassula		Cupressus - see Chamaecyparis, Hesperocyparis		Gaultheria
Dysphania	CRS	Crassulaceae - Stonecrop Family [E]		Hesperocyparis		Rhododendron
Extriplex		Aeonium		Libocedrus - see Calocedrus		Vaccinium
Kochia		Crassula		Sequoia	EUP	Euphorbiaceae - Spruge Family [E]
Monolepis		Dudleya		Sequoiadendron		Chamaesyce - see Euphorbia
Obione - see Atriplex		Escheveria - see Dudleya	CUS	Cuscutaceae - see Convolvulaceae	1	Croton
Oxybasi - see Chenopodium		Sedum	-	Cyperaceae - Sedge Family [M]	1	Eremocarpus - see Croton
Salicornia		Tillaea - see Crassula		Bolboschoenus	_	Euphorbia
Salsola				Carex		Mercurialis
54100 W				<i>Cyperus</i> - see also <i>Kyllingia</i>		Ricinus
				Cyperus see also Ryunizu		inchino.

		NDIX 3 A INCLUDED IN THE CHECKLIST	
FAB Fabaceae - Legume Family [E]	GEN Gentianaceae - Gentian Family [E]	ISO Isoetaceae - Quillwort Family [P]	LIL Liliaceae - Lily Family [M]
Acacia - see also Albizia	Centaurium - see Zeltnera	Isoetes	See also Agavaceae, Alliaceae,
Acmispon	Cicendia	JCG Juncaginaceae - Arrow-Grass Family [M]	Amaryllidaceae, Asparagaceae,
Albizia	Gentiana	Lilaea - see Triglochin	Asphodelaceae, Hyacinthaceae,
Astragalus	Microcala - see Cicendia	Triglochin	Melanthiaceae, Ruscaceae, Themidaceae
Bauhinia	Zeltnera	JUG Juglandaceae - Walnut Family [E]	Agapanthus
Cassia - see Senna	GER Geraniaceae - Geranium Family [E]	Juglans	Calochortus
Ceratonia	California	JUN Juncaceae - Rush Family [M]	Chlorophytum
Cercis	Erodium - see also California	Juncus	Disporum - see Prosartes
Cytisus - see also Genista	Geranium	Luzula	Fritillaria
Genista	Pelargonium	LAM Lamiaceae - Mint Family [E]	Hyacinthus
Hoita	GRS Grossulariaceae - Gooseberry Family [E]	Cedronella	Lilium
Hosackia	Escallonia	Clinopodium	Prosartes
Lathyrus	Grossularia - see Ribes	Lamium	LIN Linaceae - Flax Family [E]
Lens	Ribes	Lavandula	Hesperolinon
Lotus - see also Acmispon, Hosackia	HAL Haloragaceae - Water-Milfoil Family [E]	Lepechinia	Linum - see also Hesperolinon
Lupinus	Haloragis	Lycopus	LYT Lythraceae - Loosestrife Family [E]
Medicago	Myriophyllum	Marrubium	Ammannia
Melilotus	HCS Hippocastanaceae - see Sapindaceae	Mentha	Cuphea
Ottleya - see Acmispon	HDC Hydrocharitaceae - Waterweed Family [M]	Monardella	Lythrum
Paraserianthes - see Albizia	Egeria	Pogogyne	LMN Lemnaceae [M]
Pisum	Elodea - see also Egeria	Prunella	See Araceae
Psoralea - see Hoita	Najas	Salvia	MEN Menyanthaceae - Bogbean Family [E]
Robinia	HPR Hypericaceae - St. John's Wort Family [E]	Satureja - see Clinopodium	Menyanthes
Senna	Hypericum	Scutellaria	MLN Melanthiaceae- False-Hellebore Family [M]
Spartium	HYC Hyacinthaceae - Hyacinth Family [M]	Stachys	Toxicoscordion
Trifolium	Muscari	LAU Lauraceae - Laurel Family [O]	Trillium
Ulex	HYD Hydrophyllaceae - see Boraginaceae	Cinnamomum	Zigadenus - see Toxicoscordion
Vicia	IRI Iridaceae - Iris Family [M]	Laurus	MLV Malvaceae - Mallow Family [E]
FAG Fagaceae - Oak Family [E]	Chasmanthe	Umbellularia	Abutilon
Quercus	Crocosmia	LAX Laxmanniaceae - Wire-Lily Family [M]	Alcea
FNK Frankeniaceae - Frankenia Family	[E] Freesia	Cordyline	Althea - see Alcaea
Frankenia	Iris		Callianthe - see Abutilon
GAR Garryaceae - Silk-Tassel Family [H	E] Ixia		Fremontodendron
Garrya	Libertia		Lavatera - see also Malva
	Sisyrinchium		Malacothamnus
	Sparaxis		Malva - see also Lavatera

			APPE	NDIX	3		
			PLANT FAMILIES* AND GENER.				
	Malvaviscus	NYM	Nymphaeaceae - Water-Lily Family [O]		Orobanche - see Aphyllon	PLG	Polygonaceae - Buckwheat Family [E]
	Malvella		Nuphar		Orthocarpus - see Castilleja, Triphysaria		Chorizanthe
	Modiola		Nymphaea		Parentucellia		Emex
	Sida - see Malvella	OLE	Oleaceae - Olive Family [E]		Triphysaria		Eriogonum
	Sidalcea		Fraxinus	OXL	Oxalidaceae - Wood-Sorrel Family [E]		Fallopia
MON	Montiaceae - Montia Family [E]		Ligustrum		Oxalis		Muehlenbeckia
	Calandrinia		Olea	PAP	Papaveraceae - Poppy Family [E]		Persicaria
	Claytonia	ONA	Onagraceae - Evening-Primrose Family [E]		Dicentra	_	Polygonum - see also Fallopia, Persicaria
	Montia - see also Claytonia		Boisduvalia - see Epilobium	_	Ehrendorferia		Pterostegia
MOR	Moraceae - Mulberry Family [E]		Camissonia - see also Camissoniopsis, Taraxia		Eschscholzia		Reynoutria - see Fallopia
	Ficus		Camissoniopsis		Fumaria		Rumex - see also Emex
MRS	Myrsinaceae - Myrsine Family [E]		Clarkia		Hesperomecon	PLM	Polemoniaceae - Phlox Family [E]
	Anagallis - see Lysimachia		Epilobium		Meconella - s ee also Hesperomecon		Collomia
	Centunculus - see Lysimachia		Fuchsia		Platystemon		Gilia
	Glaux - see Lysimachia		Jussiaea - see Ludwigia		Romneya		Leptosiphon
	Lysimachia		Ludwigia	PAS	Passifloraceae - Passion-Flower Family [E]		Linanthus - see Leptosiphon
MRT	Myrtaceae - Myrtle Family [E]		Oenothera - see also Camissonia,		Passiflora	_	Microsteris
	Callistemon - see Melaleuca		Camissoniopsis, Taraxia	PGL	Polygalaceae - Milkwort Family [E]		Navarretia
	Corymbia - see Eucalyptus		Taraxia		Polygala		Phlox - see Microsteris
	Eucalyptus		Zauschneria - see Epilobium		Rhinotropis - see Polygala		Polemoneum
	Eugenia - see Luma	OPH	Ophioglossaceae - Adder's-Tongue Family [P]	PHR	Phrymaceae - Lopseed Family [E]	PLP	Polypodiaceae - Polypody Family [P]
	Leptospermum		Botrychium - see Sceptridium		Diplacus		Polypodium
	Luma		Sceptridium		Erythranthe	PLT	Platanaceae - Sycamore Family [E]
	Melaleuca	ORC	Orchidaceae - Orchid Family [M]	1	Mimulus - see Diplacus, Erythranthe		Platanus
	Metrosideros		Corallorhiza	РНҮ	Phytolaccaceae - Pokeweed Family [E]	POA	Poaceae - Grass Family [M]
	Myrtus		Cypripedium		Phytolacca		Agropogon
MSL	Marsiliaceae - Water-Clover Fern Family [P]		Epipactis	PIN	Pinaceae - Pine Family [G]		Agropyron - see also Elymus, Thinopyrum
	Marsilea		Habenaria - see Piperia, Platanthera		Abies		Agrostis - see also Polypogon
MYO	Myoporaceae - see Scrophulariaceae		Piperia		Larix		Aira
MYR	Myricaceae - Wax Myrtle Family [E]		Platanthera - see also Piperia		Pinus		Alopecurus
	Morella		Spiranthes		Pseudotsuga		Ammophila
	Myrica - see Morella	ORO	Orobanchaceae - Broomrape Family [E]	PIT	Pittosporaceae - Pittosporum Family [E]		Anthoxanthum
NYC	Nyctaginaceae - Four-O'Clock Family [E]		Aphyllon		Billardiera		Arrhenatherum
	Abronia		Bellardia - see also Parentucellia		Pittosporum		Arundinaria - see Pseudosasa
	Mirabilis		Castilleja	PLB	Plumbaginaceae - Leadwort Family [E]	1	Arundo
			Chloropyron		Armeria		Avena
			Cordylanthus - see Chloropyron		Limonium		Bambusa

APPENDIX 3 PLANT FAMILIES* AND GENERA INCLUDED IN THE CHECKLIST

	PLANT FAMILIES* AND G	ENERA INCLUDED IN THE CHECKLIST	
Brachypodium	Gastridium	Sitanion - see also Elymus	Hebe
Briza	Glyceria - see also Torreyochloa	Sorghum	Hippuris
Bromus	Hainardia	Spartina	Kickxia
Calamagrostis	Heleochloa - see Crypsis	Sporobolus - see also Spartina	Linaria - see also Cymbalaria, Nuttallanthus
Catapodium - see Desmazeria	Holcus	Stenotaphrum	Misopates - see Antirrhinum
Cenchrus - see Pennisetum	Hordeum	Stipa	Nuttallanthus
Cortaderia	Koeleria	Taeniatherum - see Elymus	Plantago
Crypsis	Lagurus	Thinopyrum - see also Elymus	Veronica - see also Hebe
Cynodon	Lamarckia	Torreyochloa	PTR Pteridaceae - Brake-Fern Family [P]
Cynosurus	Leptochloa	Trisetum	Adiantum
Dactylis	Leymus - see Elymus	Triticum	Argyrochosma
Arundo	Lolium - see Festuca	Vulpia - see Festuca	Cheilanthes - see Argyrochosma
Avena	Melica	PON Pontederiaceae- Pickerel-Weed Family [M]	Pellaea
Bambusa	Monerma - see Hainardia	Eichhornia	Pentagramma
Brachypodium	Muhlenbergia	Heteranthera	Pityrogramma - see Pentagramma
Briza	Nassella - see Stipa	Pontederia - see Eichhornia	RAN Ranunculaceae - Buttercup Family [E]
Bromus	Oloptum - see Stipa	POR Portulacaceae - Purslane Family [E]	Actaea
Calamagrostis	Oryzopsis - see Stipa	See also Montiaceae	Aquilegia
Catapodium - see Desmazeria	Panicum	Portulaca	Caltha
Cenchrus - see Pennisetum	Parapholis	POT Potamogetonaceae - Pondweed Family [M]	Clematis
Cortaderia	Paspalum	See also Ruppiaceae	Delphinium
Crypsis	Pennisetum	Potamogeton - see also Stuckenia	Myosurus
Cynodon	Phalaris	Stuckenia	Nigella
Cynosurus	Phleum	PRO Proteaceae - Protea Family [E]	Ranunculus
Dactylis	Phragmites	Grevillea	Thalictrum
Danthonia - see also Rytidosperma	Piptatherum - see Stipa	Hakea	RHM Rhamnaceae - Buckthorn Family [E]
Deschampsia	Piptochaetium - see Stipa	PRM Primulaceae - Primrose Family [E]	Ceanothus
Desmazeria	Pleuropogon	See also Myrsinaceae, Theophrastaceae	Frangula
Digitaria	Poa	Dodecatheon - see Primula	Rhamnus - see also Frangula
Distichlis	Polypogon	Primula	ROS Rosaceae - Rose Family [E]
Echinochloa	Pseudosasa	PTG Plantaginaceae - Plantain Family [E]	Acaena
Ehrharta	Puccinellia - see also Torreyochloa	See also Scrphulariaceae	Alchemilla - see Aphanes
Elymus - see also Sitanion, Thinopyrum	Rytidosperma	Antirrhinum	Amelanchier
Elytrigia - see Elymus	Scleropoda - see Desmazeria	Callitriche	Aphanes
Eragrostis	Secale	Collinsia	Argentina - see Potentilla
Eremochloa	Setaria	Cymbalaria	Cercocarpus
Festuca	Schedonorus - see Festuca	Digitalis	Cotoneaster

		APPE PLANT FAMILIES* AND GENER	NDIX 3 A INCI			
Crataegus	RSD	Resedaceae - Mignonette Family [E]	SOL	Solanaceae - Nightshade Family [E]	ULM	Ulmaceae - Elm Family [E]
Drymocallis		Reseda		Atropa		Ulmus
Duchesnea	RUB	Rubiaceae - Madder Family [E]			URT	Urticaceae - Nettle Family [E]
Eriobotrya		Coprosma		Datura		Helxine - see Soleirolia
Eriodictyon		Galium		Lycopersicum		Hesperocnide
Fragaria - see also Duchesnea		Sherardia		Nicotiana		Parietaria
Heteromeles	RUP	Ruppiaceae - Ditch-Grass Family [M]		Salpichroa		Soleirolia
Holodiscus		Ruppia		Solanum - see also Lycopersium		Urtica
Horkelia	RUS	Ruscaceae - Lily-of-the-Valley Family [M]	STR	Sterculiaceae - see Malvaceae	VAL	Valerianaceae - Valerian Family [E]
Lyonothamnus		Maianthemum	TAM	Tamaricaceae - Tamarisk Family [E]		Centranthus
Malus		Smilacina - see Maianthemum		Tamarix		
Oemleria	SAL	Salicaceae - Willow Family [E]	TEO	Theophrastaceae - Theophrasta Family [E]		Plectritis
Osmaronia - see Oemleria		Populus		Samolus		Valerianella
Photinia - see also Heteromeles		Salix	THE	Themidaceae- Brodiaea Family [M]	VIO	Violaceae - Violet Family [E]
Physocarpus	SAP	Sapindaceae - Soapberry Family [E]		Bloomeria - see Muilla		Viola
Potentilla - see also Drymocallis, Duchesnea,		Acer		Brodiaea - see also Dichelostemma,	VRB	Verbenaceae - Vervain Family [E]
Horkelia		Aesculus		Dipterostemon, Triteleia		
Poterium	SAX	Saxifragaceae - Saxifrage Family [E]		Dichelostemma - see also Dipterostemon		Lantana
Prunus		See also Grossulariaceae	_	Dipterostemon		Phyla
Pyracantha		Boykinia		Muilla		Verbena
Rhaphiolepis		Heuchera		Triteleia	WDS	Woodsiaceae - see Athyriaceae
Rosa		Lithophragma	TRP	Tropaeolaceae - Nasturtium Family [E]	ZAN	Zannichelliaceae- Horned Pondweeds [M
Rubus		Micranthes		Tropaeolum		Zannichellia
Sanguisorba - see Poterium		Saxifraga - see Micranthes	TXD	Taxodiaceae - see Cupressaceae	ZOS	Zosteraceae - Eel-Grass Family [M]
Crataegus		Tellima	TXO	Taxaceae - Yew Family [G]		Phyllospadix
Drymocallis	SCR	Scrophulariaceae - Figwort Family [E]		Taxus		Zostera
Duchesnea		See also Orobanchaceae, Phrymaceae, Plantaginaceae	ТҮР	Typhaceae - Cattail Family [M]	ZYG	Zygophyllaceae - Caltrop Family [E]
Eriobotrya		Buddleja		Sparganium	•	Tribulus
Eriodictyon		Limosella		Typha		
Fragaria - see also Duchesnea		Муорогит				
Heteromeles		Scrophularia				
Holodiscus		Verbascum				
Horkelia						
Lyonothamnus						

* Major Family groupings are indicated as follows: [E] Eudicots; [G] Gymnosperms; [M] Monocots; [O] Other Spermatophytes; [P] Pteridophytes

3rd edition, version dated June 1, 2021

	EXPLANATION OF ABBREVIATIONS AND CODES										
	Abbrevia	tions		I	ife Forms	Rarity Status					
Ave.	Avenue	Pt.	Point	h	herb	FE	Federally Listed - Endangered				
с.	approximately (<i>circa</i>)	Res.	Reservoir	s	shrub	FT	Federally Listed - Threatened				
Cal-IPC	Cal. Invasive Plant Council	SERP	serpentine affinity rating	t	tree	FR	Federally Listed - Rare				
Cal.	California	SF	San Francisco	SS	subshrub	FC	Federal Candidate for Listing				
CCH	Consortium of Cal. Herbaria	SFSU	SF State University (College)	v	vine	SE	State Listed - Endangered				
CDFA	Cal. Dept. of Food and Agriculture	SFWMA	SF Weed Management Area	g	graminoid	ST	State Listed - Threatened				
CDPR	Cal. Dept. of Parks and Recreation	SOMA	South of Market Street Dist.	gp	geophyte	SR	State Listed - Rare				
CNDDB	Cal. Natural Diversity Database	sp./spp.	species		Duration	SC	State Candidate for Listing				
CNPS	Cal. Native Plant Society	ssp.	subspecies	е	evergreen	1B	CNPS List 1B				
Co./cos.	county/counties	St	State	d	deciduous	2	CNPS List 2				
Cr.	Creek	St.	Saint or Street	а	annual	3	CNPS List 3				
Cyn.	Canyon	TJM	The Jepson Manual	b	biennial	4	CNPS List 4				
Dept.	Department	U.S.	United States	р	perennial		Invasive Status				
Dist.	district	USCG	U.S. Coast Guard	Flow	vering Season	SFWMA	1 severe threat				
Dr.	Drive	USDA	U.S. Dept. Of Agriculture	efall	early fall		2 serious theat				
Fed	Federal	USGS	U.S. Geological Survey	esp	early spring		3 significant threat				
Ft.	Fort	var./vars.	variety/varieties	esum	early summer	Cal-IPC	W watch				
Hts.	Heights	WET	wetland indicator status	fall	fall		L limited threat				
id.	identification	WWII	World War II	lfall	late fall		M moderate threat				
incl.	includes/inclusive of	>	greater than	lsp	late spring		MA moderate-alert				
Is.	Island	<	less than	lsum	late summer		H high threat				
JFP	Jepson Flora Project	=	equal to	lwin	late winter		A alert				
m	meter(s)	We	etland Indicator Status	sp	spring	CDFA	A state-wide restricted				
misappl.	misapplied	FACU	Facultative Upland	sum	summer		B restricted at county discretion				
Mt.	mount/mountain	FAC	Facultative	win	winter		C neither state- nor county restricted				
n/a	not applicable	FACW	Facultative Wetland				D low threat				
NRDB	Presidio Natural Resource Database	OBL	Obligate Wetland				NW noxious weed				
occ./occs.	occurrence/occurrences	UPL	Upland			USDA	NW noxious weed				



Birdseye view of San Francisco and surrounding country - 1876 (Library of Congress)