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* |
|----------|-----------|----------|--------------|-------|
|----------|-----------|----------|--------------|-------|

| 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).

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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 |

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|---------------------|--|---|---|------------------------|-----------------------|---|---------------------------|----------------------------------|---|------------------------------|
| 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 |

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|---------------------|--|-----------------------------|---|------------------------|-----------------------|---|---------------------------|----------------------------------|--|-----------------------------|
| 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 |

| 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 ⁶ | # OCCURENCES ^h | FLOWERING SEASON ⁱ | ENDEMIC ⁱ SF/Bay Area/CA | NATIVE - SF ⁱ / CA |
|---------------------|--|--------------------------|---|------------------------|-----------------------|---|---------------------------|----------------------------------|--|-------------------------------|
| 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 |

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|---------------------|--|--------------------------------------|--|------------------------|-----------------------|--|---------------------------|----------------------------------|---|------------------------------|
| 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 |

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|---------------------|---|--------------------------|--|------------------------|-----------------------|--|---------------------------|----------------------------------|---|-------------------------------|
| 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 |

| 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 ⁸ | # OCCURENCES ^h | FLOWERING SEASON ¹ | EN DEMIC ⁱ SF/Bay Area/CA | NATIVE - SF ⁱ / CA |
|---------------------|--|------------------------------|--|------------------------|-----------------------|--|---------------------------|----------------------------------|---|-------------------------------|
| 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 |

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|---------------------|--|--|---|------------------------|-----------------------|--|---------------------------|----------------------------------|---|-------------------------------|
| 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 |

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|---------------------|--|-----------------------------|--|------------------------|-----------------------|--|---------------------------|----------------------------------|--|-------------------------------|
| 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 |

| 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 ^e | 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 |
|---------------------|--|--------------------------------------|---|------------------------|-----------------------|--|---------------------------|----------------------------------|--|-------------------------------|
| 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 |

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|---------------------|--|--------------------------|---|------------------------|-----------------------|--|---------------------------|----------------------------------|--|------------------------------|
| 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 |

| 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 ¹ | ENDEMIC ⁱ SF/Bay Area/CA | NATIVE - SF ^j /CA |
|---------------------|--|--------------------------|---|------------------------|-----------------------|--|---------------------------|----------------------------------|--|------------------------------|
| 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 |

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|---------------------|--|----------------------------|--|------------------------|-----------------------|--|---------------------------|----------------------------------|--|------------------------------|
| 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 |

| 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 [®] | DURATION ^f | HABIT / ECOLOGY ⁶ | # OCCURENCES ^h | FLOWERING SEASON ⁱ | ENDEMIC ⁱ SF/Bay Area/CA | NATIVE - SF ⁱ /CA |
|---------------------|--|---------------------------------------|---|------------------------|-----------------------|--|---------------------------|----------------------------------|--|------------------------------|
| 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 |

| 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 |
|---------------------|--|-------------------------------|--|------------------------|-----------------------|--|---------------------------|----------------------------------|--|-------------------------------|
| 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 |

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|---------------------|---|----------------------------|---|------------------------|-----------------------|---|---------------------------|----------------------------------|--|-------------------------------|
| 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 |

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|---------------------|--|--------------------------|--|------------------------|-----------------------|---|---------------------------|----------------------------------|--|-------------------------------|
| 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 |

| 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 ^j SF/Bay Area/CA | NATIVE - SF ^j /CA |
|---------------------|--|--------------------------|--|------------------------|-----------------------|--|---------------------------|----------------------------------|--|------------------------------|
| 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 |

| 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 | 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 |

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|---------------------|--|--------------------------|---|------------------------|-----------------------|--|---------------------------|----------------------------------|--|-------------------------------|
| 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 |

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|---------------------|--|-------------------------------------|---|------------------------|-----------------------|---|---------------------------|----------------------------------|--|-------------------------------|
| 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 |

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|---------------------|--|------------------------------|---|------------------------|-----------------------|--|---------------------------|----------------------------------|--|-------------------------------|
| 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 |

| 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 |
|---------------------|--|------------------------------|---|------------------------|-----------------------|--|---------------------------|----------------------------------|--|-------------------------------|
| 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 |

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|---------------------|--|-----------------------------|--|------------------------|-----------------------|---|---------------------------|----------------------------------|---|------------------------------|
| 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 |

| 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 ⁱ /CA |
|---------------------|--|--------------------------|---|------------------------|-----------------------|---|---------------------------|----------------------------------|--|------------------------------|
| 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 |

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|---------------------|--|--------------------------|--|------------------------|-----------------------|---|---------------------------|----------------------------------|--|-------------------------------|
| 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 |

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|---------------------|--|--------------------------------|--|------------------------|-----------------------|---|---------------------------|----------------------------------|--|------------------------------|
| 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 |

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|---------------------|--|--------------------------|---|------------------------|-----------------------|--|---------------------------|----------------------------------|--|------------------------------|
| 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 |

| 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 ¹ | ENDEMIC ⁱ SF/Bay Area/CA | NATIVE - SF ⁱ /CA |
|---------------------|--|----------------------------|--|------------------------|-----------------------|---|---------------------------|----------------------------------|--|------------------------------|
| 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 |

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|---------------------|--|---------------------------|---|------------------------|-----------------------|---|---------------------------|----------------------------------|--|------------------------------|
| 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 |

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|---------------------|--|----------------------------|---|------------------------|-----------------------|---|---------------------------|----------------------------------|--|------------------------------|
| 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 |

| 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 |
|---------------------|--|--------------------------|--|------------------------|-----------------------|---|---------------------------|----------------------------------|--|------------------------------|
| 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 |

| 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 ⁱ /CA |
|---------------------|--|--------------------------------|--|------------------------|-----------------------|---|---------------------------|----------------------------------|---|------------------------------|
| 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 |

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|---------------------|--|--------------------------|--|------------------------|-----------------------|---|---------------------------|----------------------------------|---|-------------------------------|
| 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 |

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|---------------------|--|-----------------------------|--|------------------------|-----------------------|--|---------------------------|----------------------------------|--|------------------------------|
| 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 |

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|---------------------|--|--------------------------|---|------------------------|-----------------------|---|---------------------------|----------------------------------|--|------------------------------|
| 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 |

| 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 ⁱ | ENDEMIC ^j SF/Bay Area/CA | NATIVE - SF $^{\rm j}$ / CA |
|---------------------|--|------------------------------|---|------------------------|-----------------------|--|---------------------------|----------------------------------|--|-----------------------------|
| 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 |

| 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 |
|---------------------|--|----------------------------|--|------------------------|-----------------------|--|---------------------------|----------------------------------|--|-------------------------------|
| 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 |

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|---------------------|--|--------------------------|---|------------------------|-----------------------|--|---------------------------|----------------------------------|--|-----------------------------|
| 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 |

| 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 |
|---------------------|--|----------------------------|---|------------------------|-----------------------|---|---------------------------|----------------------------------|---|-------------------------------|
| 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 |

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|---------------------|--|-------------------------------|--|------------------------|-----------------------|---|---------------------------|----------------------------------|--|------------------------------|
| 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 |

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|---------------------|--|----------------------------|--|------------------------|-----------------------|---|---------------------------|----------------------------------|--|-------------------------------|
| 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

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| | 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)