Normal Blooming Period[1] for Special-Status Plants that May Occur within the Angwin-Deer Park Wildfire Resilience Project Area – Listed in Order of Species Name

Species	Legal status[2]	Lifeform	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Adobe-lily *Fritillaria pluriflora*	1B.2	Geophyte												
Baker's navarretia *Navarretia leucocephala* ssp. *bakeri*	1B.1	Annual												
Bent-flowered fiddleneck *Amsinckia lunaris*	1B.2	Annual												
Big-scale balsamroot *Balsamorhiza macrolepis*	1B.2	Perennial												
Boggs Lake hedge-hyssop *Gratiola heterosepala*	SE, 1B.2	Annual												
Calistoga ceanothus *Ceanothus divergens*	1B.2	Perennial												
Cobb Mountain lupine *Lupinus sericatus*	1B.2	Perennial												
Colusa layia *Layia septentrionalis*	1B.2	Annual												
Congested-headed hayfield tarplant *Hemizonia congesta* ssp. *congesta*	1B.2	Annual												
Contra Costa goldfields *Lasthenia conjugens*	FE, 1B.1	Annual												
Drymaria-like western flax *Hesperolinon drymarioides*	1B.2	Annual												
Dwarf downingia *Downingia pusilla*	2B.2	Annual												

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Dwarf soaproot *Chlorogalum pomeridianum* var. *minus*	1B.2	Geophyte												
Early jewelflower *Streptanthus vernalis*	1B.2	Annual												
Few-flowered navarretia *Navarretia leucocephala* ssp. *pauciflora*	FE, ST, 1B.2	Annual												
Franciscan onion *Allium peninsulare* var. *franciscanum*	1B.2	Geophyte												
Green jewelflower *Streptanthus hesperidis*	1B.2	Annual												
Greene's narrow-leaved daisy *Erigeron greenei*	1B.2	Perennial												
Hall's harmonia *Harmonia hallii*	1B.2	Annual												
Holly-leaved ceanothus *Ceanothus purpureus*	1B.2	Perennial												
Jepson's leptosiphon *Leptosiphon jepsonii*	1B.2	Annual												
Jepson's milk-vetch *Astragalus rattanii* var. *jepsonianus*	1B.2	Annual												
Keck's checkerbloom *Sidalcea keckii*	FE, 1B.1	Annual												
Konocti manzanita *Arctostaphylos manzanita* ssp. *elegans*	1B.3	Perennial												

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Legenere *Legenere limosa*	1B.1	Annual												
Loch Lomond button-celery *Eryngium constancei*	FE, SE, 1B.1	Annual/Perennial[4]												
Marin County navarretia *Navarretia rosulata*	1B.2	Annual												
Marsh checkerbloom *Sidalcea oregana* ssp. *hydrophila*	1B.2	Perennial												
Marsh microseris *Microseris paludosa*	1B.2	Perennial												
Napa bluecurls Trichostema ruygtii	1B.2	Annual												
Napa checkerbloom *Sidalcea hickmanii* ssp. *napensis*	1B.1	Perennial												
Napa false indigo *Amorpha californica* var. *napensis*	1B.2	Perennial												
Napa lomatium *Lomatium repostum*	1B.2	Perennial												
Narrow-anthered brodiaea *Brodiaea leptandra*	1B.2	Geophyte												
Northern meadow sedge *Carex praticola*	2B.2	Perennial												
Oval-leaved viburnum *Viburnum ellipticum*	2B.3	Perennial												
Pappose tarplant *Centromadia parryi* ssp. *parryi*	1B.2	Annual												

Species	Legal status[2]	Lifeform	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Pink creamsacs *Castilleja rubicundula* ssp. *rubicundula*	1B.2	Annual												
Porter's navarretia *Navarretia paradoxinota*	1B.3	Annual												
Rincon Ridge ceanothus *Ceanothus confusus*	1B.1	Perennial												
Rincon Ridge manzanita *Arctostaphylos stanfordiana* ssp. *decumbens*	1B.1	Perennial												
Saline clover *Trifolium hydrophilum*	1B.2	Annual												
Sanford's arrowhead *Sagittaria sanfordii*	1B.2	Geophyte												
Santa Lucia dwarf rush *Juncus luciensis*	1B.2	Annual												
Serpentine cryptantha *Cryptanthia dissita*	1B.2	Annual												
Sharsmith's western flax *Hesperolinon sharsmithiae*	1B.2	Annual												
Slender-leaved pondweed *Stuckenia filiformis* ssp. *alpina*	2B.2	Geophyte												
Small pincushion navarretia *Navarretia myersii* ssp. *deminuta*	1B.1	Annual												
Small-flowered calycadenia *Calycadenia micrantha*	1B.2	Annual												
Socrates Mine jewelflower *Streptanthus brachiatus* ssp. *brachiatus*	1B.2	Perennial												

Species	Legal status[2]	Lifeform	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Sonoma beardtongue *Penstemon newberryi* var. *sonomensis*	1B.3	Perennial												
Sonoma ceanothus *Ceanothus sonomensis*	1B.2	Perennial												
Three Peaks jewelflower *Streptanthus morrisonii* ssp. *elatus*	1B.2	Perennial												
Toren's grimmia[3] *Grimmia torenii*	1B.3	Perennial	–	–	–	–	–	–	–	–	–	–	–	–
Two-carpellate western flax *Hesperolinon bicarpellatum*	1B.2	Annual												

[1] The blooming periods shown are the published blooming period for the species across their entire range and through history. The actual blooming period for any species at a given location in a given year is variable; normal blooming periods may vary depending on factors including location, weather conditions, and elevation, and should be based on observations of nearby reference populations. This tool is meant to be used as a guide for planning purposes.

2 Legal Status Definitions

Federal:

FE Federally Listed as Endangered (legally protected by ESA)

State:

SE State Listed as Endangered (legally protected by CESA)

ST State Listed as Threatened (legally protected by CESA)

California Rare Plant Ranks (CRPR):

1B Plant species considered rare or endangered in California and elsewhere (protected under CEQA, but not legally protected under ESA or CESA).

2B Plant species considered rare or endangered in California but more common elsewhere (protected under CEQA, but not legally protected under ESA or CESA).

CRPR Threat Ranks:

0.1 Seriously threatened in California (over 80% of occurrences threatened; high degree and immediacy of threat)

0.2 Moderately threatened in California (20-80% occurrences threatened; moderate degree and immediacy of threat)

0.3 Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

[3] Non-blooming bryophyte or gymnosperm species. These species are sensitive to disturbance year-round.

[4] Due to the flexible lifeform of this species depending on environmental factors that can vary from year to year, perennial will be the assumed lifeform of the species.

Source: Species list compiled by Ascent in 2022; blooming table compiled in 2025.

Tips for Protocol-Level Surveys for Special-Status Plants

To achieve full survey coverage for all special-status plant species during the blooming period, two to three surveys may be required. For example:

- One spring survey (e.g., March/April)
- One mid-summer survey (e.g., May/June)
- One late-summer survey (e.g., July/August)