CSUN Pollinator Habitat Plan

March 2020



Part of any University’s responsibility to adapt to a changing climate includes keeping its environmental impact to a minimum and contributing to a balanced local ecosystem however possible. The cultivation of a landscape that supports pollinators and preserves local biodiversity is an essential part of that process. Pollinators are a vital element of ecosystems worldwide, as they are necessary for the reproduction of 75% to 95% of the earth’s flowering plants1. This means that pollinators are instrumental in agricultural productivity, contributing to the growth of about a third of the food we eat daily2. Yet, pollinator populations are declining worldwide, largely due to habitat loss and pesticide use2.

California State University Northridge is committed to improving the health and habitat of local pollinator populations. Since 2013, CSUN has replanted over 400,000 square feet of landscaping throughout the campus, making much of CSUN’s grounds more attractive to pollinators and more drought resistant. CSUN is located in a dry, mild climate, with much less rainfall than the United States average, and native plant species are more likely to thrive in drought conditions and use less water overall. These plants are also often the best sources of nectar and pollen for local pollinators3. Many insects and birds have evolved alongside their native plants, creating dependent relationships between certain species, where the livelihood of one becomes reliant on the other. Therefore, incorporating native plants into CSUN’s landscape promotes a healthy ecosystem and helps to preserve local biodiversity. Additionally, they require less water, fertilizer, and overall maintenance, as they are already adapted to the Southern California climate and will thrive on the University grounds.

CSUN’s plans to continue expanding its pollinator habitats by increasing the number and diversity of flowering plants across campus. Cultivating a variety of plants that flower during different times of the year will ensure that pollinators can find food year-round. These efforts will also help CSUN continue to save water by reducing the amount of water-intensive plants on

campus. Additionally, areas designated as pollinator habitats will be identified as such, and protected from pesticide applications.

A list of plants has been created below that includes information about their blooming season and what wildlife they support. Most of the plants listed are native to the Southern California area and all are pollinator-friendly. If they are present on the CSUN campus, their location is indicated. In addition to the plants listed here, there is a pollinator and a food garden on campus that both contain a plethora of flowering plants that require pollination. Some are listed here, indicated by point 26, but due to the density and high volume of species in the relatively small area, not every species could be included. Some examples are milkweed, lavender, lime, basil, and mint. Overall, this list can be utilized by gardeners at any scale in order to create a valuable habitat that supports local pollinators.

| **Common Name** | **Scientific Name** | **Currently On Campus**  **Y/N** | **Location** | **Bloom** | **Wildlife Value** |
| --- | --- | --- | --- | --- | --- |
| Fiddleneck | Amsinckia menziesii | No |  | Late spring/early summer | Birds |
| Chia | Salvia columbariae | No |  | Spring/summer | Birds |
| Yarrow | Achillea millefolium | Yes | 10, 11, 27 | Spring, summer, and early fall | Birds and butterflies |
| Creeping barberry | Berberis aquifolium var. repens | No |  | Spring/summer | Birds |
| Strawberry | Fragaria | No |  | Spring/early summer | Birds |
| Quail bush | Atriplex lentiformis ssp. breweri | No |  | Summer/fall | Birds |
| Nevin’s barberry | Berberis nevinii | No |  | Spring | Birds |
| Redberry and coffeeberry | Frangula and rhamnus | No |  | Spring | Birds |
| Toyon | Heteromeles arbutifolia | No |  | Summer/fall | Birds |
| Laurel Sumac | Malosma laurina | Yes | 5 | Late spring/summer | Insects, butterflies, and birds |
| Cherry | Prunus | No |  | Spring | Birds |
| Currant, gooseberry | Ribes | No |  | Spring/summer | Birds |
| Wild rose | Rosa | No |  | Summer | Birds |
| Sage | Salvia variations | Yes | 14, 26, 17, 15, 16, 13, 8, 4, 2, 3 | Spring | Birds, hummingbirds, bees, and butterflies |
| Snowberry | Symphoricarpos | No |  | Summer | Birds |
| Twinberry honeysuckle | Lonicera | No |  | Spring/summer | Birds |
| Blackberry, salmonberry, and thimbleberry | Rubus | No |  | Summer | Birds |
| Wild grape | Vitis | No |  | Summer | Birds |
| Southern California black walnut | Juglans californica | No |  | Spring | Birds |
| Oak | Quercus agrifolia | Yes | 10 | Spring | Insects, birds, and butterflies |
| Elderberry | Sambucus nigra spp. caerulea | No |  | Late spring/early summer | Insects and birds |
| Western columbine | Aquilegia formosa | No |  | Spring | Hummingbirds |
| Mahonia | Berberis | No |  | Spring | Hummingbirds |
| Red fairyduster | Calliandra californica | No |  | Year round | Hummingbirds and butterflies |
| California thistle | Cirsium occidentale | No |  | Spring | Hummingbirds |
| Summer holly | Comarostaphylis diversifolia | No |  | Late spring/early summer | Hummingbirds |
| Live forever | Dudleya | No |  | Late spring/early summer | Hummingbirds |
| Galvezia | Gambelia | No |  | Spring/summer/fall | Hummingbirds |
| Coral bells, alum root | Heuchera | No |  | Spring | Hummingbirds |
| Bladderpod | Peritoma (Isomeria) arborea | No |  | Spring/summer | Hummingbirds |
| Heart-leaf penstemon | Keckiella cordifolia | No |  | Late spring/early summer | Hummingbirds |
| Honeysuckle | Lonicera hispidula, L. subspicata | No |  | Spring | Hummingbirds |
| Sticky monkeyflower | Mimulus aurantiacus | No |  | Spring | Hummingbirds and butterflies |
|  | Penstemon | Yes | 27 | Spring | Hummingbirds |
| Currant and gooseberry | Ribes | No |  | Spring/Winter | Hummingbirds |
| Woolly blue curls | Trichostema lanatum | No |  | Spring | Hummingbirds |
| Chaparral snapdragon | Antirrhinum multiflorum | No |  | Summer | Hummingbirds |
| Zauschneria | Epilobium | No |  | Late summer/fall | Hummingbirds |
| Desert willow | Chilopsis linearis | Yes | 10, 26 | Summer | Hummingbirds |
| Hedge nettle | Stachys | No |  | Summer | Hummingbirds |
| Manzanita | Arctostaphylos | No |  | Early fall/winter/spring | Birds, hummingbirds, bees, and butterflies |
| Deerweed | Acmispon glaber | No |  | Spring/summer | Butterflies |
| Chamise, redshanks | Adenostoma | No |  | Summer | Butterflies |
| California buckeye | Aesculus californica | No |  | Late spring/early summer | Butterflies |
| Agave | Agave | No |  | Summer | Butterflies |
| White alder | Alnus rhombifolia | No |  | Fall | Butterflies |
| False indigo | Amorpha californica | No |  | Late spring/early summer | Butterflies |
| Madrone | Arbutus menziesii | No |  | Spring | Butterflies |
| Milkweed | Asclepias | Yes | 27 | Spring/ summer | Butterflies |
| Locoweed | Astragalus | No |  | Summer/fall | Butterflies |
| Desert marigold | Baileya multiradiata | No |  | Spring, summer, and fall | Butterflies |
| Coyote brush | Baccharis pilularis | No |  | Summer/early fall | Butterflies |
| California Lilac | Ceanothus | No |  | Spring | Butterflies, birds, and bees |
| Mountain mahogany | Cerocarpus betuloides | No |  | Spring/summer | Butterflies |
| Cobweb thistle | Cirsium occidentale | No |  | Late winter, spring, summer, and fall | Butterflies |
| Sacred datura, jimson weed | Datura wrightii | No |  | Summer/fall | Butterflies |
| California bush sunflower | Encelia californica | No |  | Spring/summer | Butterflies, insects, and bees |
| Seaside daisy | Erigeron | No |  | Late spring, summer, and early fall | Butterflies |
| California fuchsia | Epilobium | Yes | 13, 16, 5, 10 | Late summer/fall | Butterflies |
|  | Ericameria | No |  | Summer/fall | Butterflies |
| Yerba santa | Eriodictyon | No |  | Spring | Butterflies |
| California buckwheat | Eriogonum fasciculatum | Yes | 14, 26, 13, 8 | Spring, summer, and fall | Butterflies and bees |
| Coast buckwheat | Eriogonum parvifolium | No |  | Year round | Butterflies and bees |
| Coffeeberry | Frangula californica | No |  | Spring | Butterflies and birds |
| Common sunflower | Helianthus annuus | No |  | Summer/fall | Butterflies and bees |
| Chaparral yucca | Hesperoyucca whipplei | No |  | Early summer | Butterflies |
| Lupine | Lupinus | No |  | Spring/summer | Butterflies |
| Four o’clock | Mirabilis | No |  | Summer | Butterflies |
| Coyote mint | Monardella | No |  | Summer | Butterflies and bees |
| Evening primrose | Oenothera | Yes | 4 | Summer | Butterflies |
| Western sycamore | Platanus racemosa | No |  | Spring | Butterflies and hummingbirds |
| Grass family | Poaceae | No |  |  | Butterflies |
| Willow | Salix | Yes | 26 | Spring | Butterflies |
| Goldenrod | Solidago | No |  | Fall | Butterflies |
| Lilac verbena | Verbena lilacina | No |  | Spring/summer | Butterflies |
| Stinging nettle | Urtica dioica | No |  | Summer/early fall | Butterflies |
| Elegant clarkia | Clarkia unguiculata | No |  | Early summer | Bees |
| California poppy | Eschscholzia californica | No |  | Late winter, spring, summer, fall | Bees |
| Globe gilia | Gilia capitata | No |  | Late spring | Bees |
| Tidy tips | Layia platyglossa | No |  | Spring/early summer | Bees |
| Arroyo lupine | Lupinus succulentus | No |  | Late winter, spring, early summer | Bees |
| Lindley’s blazing star | Mentzelia lindleyi | No |  | Late spring/early summer | Bees |
| Baby blue eyes | Nemophila menziesii | No |  | Late winter, spring, early summer | Bees |
| Tansy-leaved phacelia | Phacelia tanacetifolia | No |  | Spring | Bees |
| Morning glory | Calystegia macrostegia | No |  | Spring/summer | Bees |
| Showy penstemon | Penstemon spectabilis | No |  | Spring/early summer | Bees |
| Blue witch | Solanum xanti | No |  | Late winter, spring, early summer | Bees |
| Apricot mallow | Sphaeralcea ambigua | No |  | Late winter, spring, summer, fall | Bees |
| Barberry | Berberis aquifolium, b. nevinii | No |  | Spring | Bees and birds |
| California flannelbush | Fremontodendron californicum | Yes | 13, 12, 9, 14 | Early summer | Bees, birds, butterflies |
| Toyon | Heteromeles arbutifolia | No |  | Summer/early fall | Bees and birds |
| Western redbud | Cercis occidentalis | No |  | Spring | Bees |
| Palo verde | Parkinsonia florida, p. microphylla | Yes | 25, 28, 17, 19, 16, 10 | Spring | Bees |
| Santa Cruz Island ironwood | Lyonothamnus floribundus ssp. aspleniifolius | No |  | Early summer | Birds |
| Holly-leaf cherry, catalina cherry | Prunus ilicifolia ssp. Ilicifolia, p. Ilicifolia ssp. lyonii | No |  | Spring | Birds |
| Hot lips sage | Salvia microphylla | Yes | 1, 5, 6, 10, 23, 15, 27 | Summer/fall | Butterflies and hummingbirds |
| Jerusalem sage | Phlomis fruticosa | Yes | 1, 10, 13, 11, 23, 18 | Spring | Bees and insects |
| Red yucca | Hesperaloe parviflora | Yes | 1, 11 | Spring/summer | Hummingbirds and insects |
| Salvia clevelandii | Blue sage | Yes | 1, 27, 22, 13 | Spring/summer | Bees |
| Little John bottlebrush | Dwarf callistemon | Yes | 2, 3, 4 | Year round | Bees, birds, hummingbirds, and butterflies |
| California sundrop | Calylophus drummondii | Yes | 2, 3 | Spring/summer | Bees |
| St. Catherine’s lace | Eriogonum giganteum | Yes | 26, 9, 8, 4 | Summer/early fall | Bees and butterflies |
| Germander sage | Salvia chamaedryoides | Yes | 10, 11, 13 | Year round | Bees |
| Pink dawn | Chitalpa tashkentensis | Yes | 1, 2, 24, 27, 12 | Spring/summer | Hummingbirds, birds, bees, and butterflies |
| Rosemary | Rosmarinus officinalis | Yes | 1, 4, 28, 27, 19, 22, 8 | Winter/spring | Bees |
| Crapemyrtle | Lagerstroemia indica | Yes | 16, 22, 13, 9, 10, 7, 5, 8, 18 | Summer | Bees and birds |
| Bird of paradise | Strelitzia reginae | Yes | 8, 23, 19, 18 | Fall, winter, and spring | Birds |
| Butterfly bush | Buddleia | Yes | 6, 19 | Late spring/summer | Butterflies |
|  | Lantana | Yes | 17, 27, 28, 16, 4, 2, 3, 23 | Year round | Butterflies and hummingbirds |
| Lion’s tails | Leonotis leonurus | Yes | 15, 16, 1 | Late spring, summer, and fall | Birds, butterflies, and hummingbirds |
|  | Bougainvillea | Yes | 23, 21 | Spring and fall | Butterflies, insects, and hummingbirds |
| Jacaranda tree | Jacaranda mimosifolia | Yes | 2, 3, 26 | Late spring/early summer | Bees |
| Natal plum | Carissa macrocarpa | Yes | 2, 3, 18 | Year round | Bees and birds |
|  | Hibiscus | Yes | 1, 18 | Summer | Bees, birds, and hummingbirds |
| Black and blue salvia | Salvia guaranitica | Yes | 4 | Summer/fall | Bees and hummingbirds |
| Yellow bells/Bells of fire | Tecoma stans | Yes | 19, 11, 16, 6, 15 | Spring, summer, fall | Butterflies, bees, and hummingbirds |
| California pepper tree | Schinus molle | Yes | 16, 13 | Summer | Bees |
| Autumn sage | Salvia greggii | Yes | 13 | Spring, summer, and fall | Bees, butterflies, and hummingbirds |
| California white sage | Salvia apiana | Yes | 5 | Spring/early summer | Bees |
| Orchid tree | Bauhinia variegata | Yes | 22 | Late winter, spring, and early summer | Bees |
| Sapphire showers | Duranta erecta | Yes | 6 | Summer | Butterflies, bees, and birds |
| American century plant | Agave americana | Yes | 10, 11, 1, 4, 15, 28 | Summer | Hummingbirds, insects, and birds |
| Blue flame agave | Agave shawii x attenuata | Yes | 11 | Summer | Hummingbirds |
|  | Rosa ‘red ribbons’ | Yes | 13, 22, 10, 11, 23, 16, 17 | Spring, summer, and fall | Bees |
| Rock rose | Cistus palhinhae | Yes | 15, 4, 2, 3 | Spring/summer | Bees and butterflies |
| Sweet acacia | Vachellia farnesiana | Yes | 17 | Late winter/spring | Bees, insects, and birds |
| Orange | Citrus X sinensis | Yes | 20 | Winter and spring | Bees |
|  | Echium | Yes | 19 | Spring/summer | Bees and butterflies |
|  | Magnolia | Yes | 16 | Spring/early summer | Bees and insects |
| Passion flower | Passiflora edulis | Yes | 24 | Spring/summer | Bees |
| Kangaroo paw | Anigozanthos | Yes | 15 | Spring/summer | Birds |
|  | Myoporum | Yes | 9 | Spring/summer | Bees |
| Society garlic | Tulbaghia violacea | Yes | 13 | Summer/fall | Butterflies and bees |
| Yankee point California lilac | Ceanothus griseus var. horizontalis | Yes | 10 | Spring | Bees and butterflies |
| Tipu tree | Tipuana tipu | Yes | 13 | Summer | Bees, butterflies, and hummingbirds |
| Marguerite daisy | Argyranthemum frutescens | Yes | 6 | Summer | Butterflies |
| French lavender | Lavandula stoechas | Yes | 13, 12 | Summer/early fall | Bees, butterflies, and hummingbirds |

Location Guide

Parking lots B1 and B2 - 1

Parking structure B3 - 2

Parking lot B4 - 3

University Hall - 4

Extended University Commons - 5

Parking structure and lot B5 - 6

Parking lot B6 - 7

Physical Plant Management - 8

Art and Design Center and Central Plant - 9

Charles H. Noski Auditorium - 10

Education and Bookstien Hall Complex - 11

Jacaranda Hall - 12

Lilac Hall - 12

Matador Hall - 14

Delmar T. Oviatt Library - 15

Sequoia Hall - 16

Sierra Quad - 17

Cypress Hall and Nordhoff Hall - 18

The Soraya - 19

Orange Grove - 20

Jeanne Chisholm Hall - 21

Parking structure G3 - 22

Arbor Court - 23

Greenhouse - 24

Sustainability Center - 25

Redwood Hall - 26

Food and Pollinator Garden - 27

Student Housing - 28

Parking lots B1 and B2 - 1

* Lion’s tail
* Salvia hot lips
* Jerusalem sage
* Salvia clevelandii
* Red Yucca
* Agave
* Hibiscus
* Chitalpa trees
* Rosemary

Parking structure B3 - 2

* California sundrops
* Yellow lantana
* Salvia
* Little john
* Natal plum
* Jacaranda tree
* Rock rose
* Chitalpa trees

Parking lot B4 - 3

* California sundrops
* Yellow lantana
* Salvia
* Little john
* Natal plum
* Jacaranda tree
* Rock rose

University Hall - 4

* Rosemary
* Rock rose
* Salvia
* Agave
* Little john
* Eriogonum giganteum
* Salvia guaranitica
* Evening primrose

Extended University Commons - 5

* Germander sage
* Salvia hot lips
* Laurel sumac
* Crapemyrtle
* Salvia apiana
* California fuschia

Parking structure B5 - 6

* Butterfly bush
* Marguerite daisy
* Tecoma stans
* Sapphire showers

Parking lot B6 - 7

* White lantana

Physical Plant Management - 8

* Crapemyrtle
* Rosemary
* Eriogonum giganteum
* Eriogonum fasciculatum
* Bird of paradise

Art and Design Center and Central Plant - 9

* Eriogonum giganteum
* Crapemyrtle
* Myoporum
* California flannelbush

Charles H. Noski Auditorium - 10

* Jerusalem sage
* Agave americana ‘variegata’
* California fuschia
* Rosa ‘red ribbons’
* Hot lips sage
* Palo verde
* Crapemyrtle
* Germander sage
* Desert willow
* Yankee point California lilac
* Yarrow

Education and Bookstien Hall Complex - 11

* Tecoma stans
* Jerusalem sage
* Germander sage
* Red yucca
* Blue flame agave
* Yarrow
* Hot lips sage
* Rosa ‘red ribbons’
* Agave americana ‘variegata’

Jacaranda Hall - 12

* Salvia clevelandii
* Salvia greggii
* Society garlic
* California flannelbush
* Chitalpa tashkentensis
* French lavender

Lilac Hall - 13

* French lavender
* Salvia clevelandii
* Salvia greggii
* Society garlic
* California flannelbush
* Eriogonum fasciculatum
* Jerusalem sage
* Tipu tree
* Crapemyrtle
* California fuschia
* Germander sage
* Rosa ‘red ribbons’
* California pepper tree

Matador Hall - 14

* Salvia
* California flannelbush
* Eriogonum fasciculatum

Delmar T. Oviatt Library - 15

* Salvia
* Agave
* Salvia hot lips
* Lion’s tail
* Kangaroo paw
* Tecoma stans
* Rock rose

Sequoia Hall - 16

* Rosa ‘red ribbons’
* Lion’s tail
* Tecoma stans
* California pepper tree
* Magnolia
* Palo verdes
* Crapemyrtle

Sierra Quad - 17

* Sweet acacia
* Salvia
* White lantana
* Rosa ‘red ribbons’
* Palo verdes

Cypress Hall and Nordhoff Hall - 18

* Crapemyrtle
* Bird of paradise
* Jerusalem sage
* Natal plum
* Hibiscus

The Soraya - 19

* Tecoma stans
* Palo verde
* Bird of paradise
* Rosemary
* Butterfly bush
* Echium

Orange Grove - 20

* Orange trees

Jeanne Chisholm Hall - 21

* Bougainvillea

Parking structure G3 - 22

* Rosemary
* Salvia clevelandii
* Orchid tree
* Crapemyrtle
* Rosa ‘red ribbons’

Arbor Court - 23

* Bougainvillea
* Jerusalem sage
* Bird of paradise
* Salvia hot lips
* White lantana
* Rosa ‘red ribbons’

Greenhouse - 24

* Passion flower
* Chitalpa tashkentensis

Sustainability Center - 25

* Palo verde

Redwood Hall - 26

* Salvia
* Jacaranda tree
* Willow
* Desert willow
* Eriogonum fasciculatum
* Eriogonum giganteum

Food and Pollinator Garden - 27

* Many species

Student Housing - 28

* Palo verde
* Rosemary
* Yellow lantana
* Agave americana