



ACFGC WILDLIFE PROPAGATION FUND
2021 RAVENSWOOD VINEYARD HEDGEROW

1. 2021 PROJECT SUMMARY

The project is located at Ravenswood Historical Site and Vineyard. It is approximately 226-feet-long with an 870-foot perimeter (Figure 1, Page 7). The hedgerow is positioned around an existing drainage swale, in an area with high public visibility and is immediately adjacent to the entrance and main driveway (Figure 2, Page 7). The hedgerow encompasses a total of 4,700 square feet and consist of native plants from Xerces Pollinator Kits that were provided by the Xerces Society. Five California Central Coast Hedgerow Kits were provided for the Ravenswood Hedgerow Project, these kits contain 17 woody and herbaceous transplants (including milkweed). Please refer to Figure 1 for kit details.

Living Arroyos and volunteers planted over 100 Xerces plants on November 20, 2021 (See Figure 2 for as-built planting layout). On January 5th, 2022, the Alameda County Resource Conservation District (ACRCD) performed weed maintenance and dispersed 2 pounds of native pollinator seed mix around the entire site (see Figure 3 for seed mix details).

Currently, the ACRCD is working with Livermore Area Recreation and Parks Department (LARPD) to install irrigation. LARPD maintains the existing vineyard irrigation mainlines (supplied by groundwater wells). This consistent water source along with LARPDs regular maintenance of the site should ensure long term success of the plantings. The site has been monitored regularly, as the drainage swale feature which the hedgerow surrounds is a component of the City of Livermore's Stream Maintenance Program (SMP).

In the coming months the ACRCD and Living Arroyos plan to conduct ongoing weed management, create and install educational signs, and supplement the project with additional pollinator plantings and native seed.

Figure 1 Xerces Pollinator Hedgerow kit: Central Plant Kit Species List

Xerces Pollinator Hedgerow kit: Central Plant Kit: Species List
Indian hemp (<i>Apocynum cannabinum</i>)
Manzanita (<i>Arctostaphylos densiflora</i> McMinn)
Indian milkweed (<i>Asclepias eriocarpa</i>)
Narrowleaf milkweed (<i>Asclepias fascicularis</i>)
Showy milkweed# (<i>Asclepias speciosa</i>)
Coyotebrush (<i>Baccharis pilularis</i>)
California lilac (<i>Ceanothus</i> 'Concha' or 'Frosty Blue')
California buckwheat (<i>Eriogonum fasciculatum</i>)
Toyon (<i>Heteromeles arbutifolia</i>)
Goldenrod (<i>Solidago velutina</i> ssp. <i>californica</i>)
Purple needlegrass (<i>Stipa pulchra</i>)
Pacific aster (<i>Symphotricum chilense</i>)

Figure 2 Planting Layout from November 20, 2021 Planting Event

Large shrub spaced plantings	Spread
Manzanita (<i>Arctostaphylos densiflora</i> McMinn)	 8 - 10 ft
Coyotebrush (<i>Baccharis pilularis</i>)	 4 - 8 ft
California lilac (<i>Ceanothus</i> 'Concha' or 'Frosty Blue')	 10 - 15 ft
California buckwheat (<i>Eriogonum fasciculatum</i>)	 8 ft
Toyon (<i>Heteromeles arbutifolia</i>)	 6 - 10 ft
Hollyleaf cherry (<i>Prunus ilicifolia</i>)	 20 ft

Smaller interspersed plantings	Spread
Indian hemp (<i>Apocynum cannabinum</i>)	 2 ft
Indian milkweed (<i>Asclepias eriocarpa</i>)	 1 ft
Narrowleaf milkweed (<i>Asclepias fascicularis</i>)	 3 ft
Showy milkweed (<i>Asclepias speciosa</i>)	 4 ft
Goldenrod (<i>Solidago velutina</i> ssp. <i>californica</i>)	 3 ft
Purple needlegrass (<i>Stipa pulchra</i>)	 2 ft
Pacific aster (<i>Symphyotricum chilense</i>)	 3 ft

? Mugwort?



Figure 3 Seed Mix Specifications

BUTTERFLY POLLINATOR MIX

Product Information:

Butterfly Pollinator Mix

This mixture of annuals and perennials provides a bright and colorful array of flowers producing pollen and nectar through the growing season. Designed with specific plant species known to be beneficial and attract many types of butterflies, as well as keep them coming back! Fall planting results in an earlier and longer blooming period. Early summer planting can be successful with supplemental irrigation.

Achillea millefolium, White Yarrow
Asclepias species, Milkweed
Centaurea cyanus, Bachelor Button
Clarkia amoena, Farewell to Spring
Collinsia heterophylla, Chinese Houses
Eriogonum fasciculatum, California Buckwheat
Eschscholzia californica, California Poppy
Gilia capitata, Globe Gilia
Gilia tricolor, Bird's Eyes
Linum lewisii, Blue Flax
Lupinus microcarpus densiflorus, Golden Lupine
Phacelia campanularia, California Bluebell
Plantago ovata, Woolly Plantain
Salvia mellifera, Black Sage
Sisyrinchium bellum, Blue Eyed Grass



BEE POLLINATOR MIX

Product Information:

Bee Pollinator Mix

This mixture of annuals and perennials provides a bright and colorful array of flowers producing pollen and nectar through the growing season. Designed with specific plant species known to be beneficial and attract many types of bees, as well as keep them coming back! Fall planting results in an earlier and longer blooming period. Early summer planting can be successful with supplemental irrigation.

Achillea millefolium, White Yarrow
Clarkia unguiculata, Mountain Garland
Eriogonum fasciculatum, California Buckwheat
Eschscholzia californica, California Poppy
Gilia capitata, Globe Gilia
Linum lewisii, Blue Flax
Lupinus microcarpus densiflorus, Golden Lupine
Lemophila manziesii, Baby Blue-Eyes
Phacelia campanularia, California Bluebell
Phacelia tanacetifolia, Lacy-Leaved Phacelia



NATIVE ORNAMENTAL BIOSWALE MIX

Product Information:

Native Ornamental Bioswale Mix

Festuca rubra Molate, Molate Red Fescue
Festuca ovina ingrata, Western Fescue
Festuca idahoensis, Idaho Fescue
Deschampsia caespitosa, Tufted Hairgrass
Carex divulsa, Berkeley Sedge

Bioswales are fast becoming a common feature in the man-made, sustainable landscape. While on-site water treatment can take many shapes & forms, bioswales generally share the intent of utilizing living plants to treat storm water before it is discharged into adjacent water bodies.

80 lbs. per acre

