Plants for Vegetated Swales

Swales are shallow channels designed to catch rainwater and reduce or prevent its flow off the site. Swales planted with appropriate vegetation are known as bioswales. They promote infiltration of rainwater into the soil and help filter and breakdown pollutants in the stormwater runoff. Bioswales can also add beauty and value to the landscape. This plant list features mostly California native species that are suitable for many vegetated swales.



For a more extensive list of plants appropriate for stormwater treatment features, see Appendix B of the Alameda County Clean Water Program's publication, "C.3 Stormwater Techical Guidance: A Handbook for Developers, Builders and Project Applicants," May 14, 2013, which can be downloaded from www.cleanwaterprogram.org/resources/resources-development.html.

Botanical Name	Common Name	CA	Sun/ Soil	Height	Spread	Water Requirement	Reference	Comments
		Native						
Emergent Plants (can grow in water								
Carex barbarae	Santa Barbara sedge	•	Full sun or part shade	1-3'	1-3'	Moderate/Little-None	WUCOLS/Sunset	
Carex obnupta	Slough sedge	•	Full sun or part shade	1-3'	1-3'	Moderate	WUCOLS	
Juncus effusus	Pacific rush	•	Sun to part shade	1-2'	1-2'	High	WUCOLS	
Juncus patens	Blue rush	•	Sun to part shade	1-2'	1-2'	High/Drought Tolerant	WUCOLS/ CNP	
Plants That Tolerate Periodic Inur				00.400	00.400	0 1 10 1	OND	
Acer macrophyllum	Big leaf maple	•	Sun to part shade	30-100'	30-100'	Occasional-Regular	CNP	
Acer negundo californicum	Box elder	•	Full sun or part shade	30-50'	30-50'	Moderate	WUCOLS	
Aesculus californica	Buckeye	•	Full sun	15-20'	30'	Very Low	WUCOLS	
Alnus rubra	Red alder	•	Sun or shade	45-50'	20-30'	Regular/Ample	Sunset	
Cercocarpus betuloides	Mountain mahogany	•	Full sun/Tolerates clay and serpentine	5-12'	5-12'	Very Low	WUCOLS	
Carex divulsa (tumulicola)	Berkeley sedge	•	Part sun to part shade	1-2'	1-2'	Moderate-Occasional	WUCOLS	
Carex pansa	California meadow sedge	•	Sun to shade	1'	1'	Moderate/Drought Tolerant	WUCOLS/ CNP	
Carex subfusca	Rusty sedge	•	Sun to shade	1-1.5'	1-1.5'	Moderate/Drought Tolerant	WUCOLS/ CNP	
Cornus sericea	Western dogwood	•	Sun to shade	15'	15'	Occasional-Regular	CNP	Forms large thickets
Cornus stolonifera	Redosier dogwood	•	Full sun or light shade	7-9'	12'	Regular	Sunset	Forms large thickets
Chondropetalum tectorum	Cape rush		Sun to part sun	4-6'	4-6'	Moderate-Occasional	EBMUD	
Crocosmia 'Lucifer'	Crocosmia		Sun, some shade when hot	4'	2'	Regular	Sunset	
Deschampsia cespitosa	Tufted hairgrass	•	Part shade	1-2'	2'	Low	WUCOLS	
Dietes bicolor, D. iridioides	Fortnight lily		Sun or part shade	3'	3'	Occasional-None	EBMUD	
Elymus glaucus	Blue wild rye	•	Full to part sun	1-2'	2'	Low	WUCOLS	Can be invasive
Equisetum hyemale	Horsetail	•	Full sun or partial shade	4'	2'	High	WUCOLS	Can be invasive in wet areas
Festuca californica	California fescue	•	Sun to part shade	1-2'	2-3'	Low	WUCOLS	
Festuca idahoensis	Idaho fescue	•	Full sun to part sun	1-2'	1-2'	Very Low	WUCOLS	
Festuca rubra	Red fescue	•	Full sun to part sun	3-12"	1'	Low	WUCOLS	
Festuca rubra 'molate'	Molate fescue	•	Full sun to part sun	3-12"	1'	Low	WUCOLS	
Leymus triticoides	Creeping wild rye	•	Full sun to part sun	1-3'	1-2'	Occasional	EBMUD	
Lotus scoparius	Deerweed	•	Full sun to part shade	3'	3'	Very Low	WUCOLS	
Muhlenbergia rigens	Deergrass	•	Full sun to part shade	3'	3'	Low	WUCOLS	
Myrica californica	Wax myrtle	•	Sun or part shade	10-30'	10-30'	Low	WUCOLS	
Nassella lepida	Foothill needlegrass	•	Full sun/Good drainage	1'	1'	Very Low	WUCOLS	
Nasella pulchra	Purple needlegrass	•	Full sun/Good drainage	1-2'	1-2'	Very Low	WUCOLS	
Physocarpus capitatus	Pacific ninebark	•	Sun or shade	8'	8'	Moderate-Regular	Sunset	
Platanus racemosa	Western sycamore	•	Full sun	30-80'	20-50'	Moderate	WUCOLS	
Populus fremontii	Fremont cottonwood	•	Sun/Moisture-retentive	50-70'	50'	Occasional- Regular	CNP	
Quercus Iobata	Valley oak	•	Sun/Adaptable	100'	100'	Low	WUCOLS	

Botanical Name	Common Name	CA Native	Sun/ Soil	Height	Spread	Water Requirement	Reference	Comments
Rosa californica	California wild rose	•	Part shade	3'	6'	Low	WUCOLS	
Salix lasiolepis	Arroyo willow	•	Sun	6-9'	9-12'	High	WUCOLS	
Salix laevigata	Red willow	•	Sun	9-30'	9-30'	High	WUCOLS	
Sambucus mexicana	Elderberry	•	Sun to partial shade	8-25'	8-25'	Low	WUCOLS	
Sisyrinchium bellum	Blue-eyed grass	•	Full sun to light shade	6-12"	6-18"	Very Low	WUCOLS	
Stipa arundinacea	Tall fescue		Full sun	2'	2'	Moderate-Occasional	EBMUD	Potentially invasive
Upland Plants (for the swale's upla	and zone/top of slope)							
Achillea millefolium	Common yarrow		Full sun/Reasonable drainage	12-30"	2-4'	Low	WUCOLS	
Adenostema fasciculatum	Chamise	•	Sun/Adaptable except alkaline	6-15'	6-15'	Drought Tolerant	CNP	
Arctostaphylos spp.	Manzanita	•	Full sun to part shade	Varies	Varies	Low	WUCOLS	
Armeria maritima	Sea pink	•	Full sun/Good drainage	4-8"	6-12"	Little-Occasional	EBMUD	
Baccharis pilularis 'Twin Peaks'	Prostrate Coyote brush	•	Full sun	1'	10-15'	Low	WUCOLS	
Baccharis salicifolia	Mulefat	•	Full sun	8'	8'	Low	WUCOLS	
Ceanothus spp.	Ceanothus	•	Full sun to part shade	Varies	Varies	Low	WUCOLS	
Epilobium canum	California fuchsia	•	Full sun to part shade/Good drainage	1'	4'	Low	WUCOLS	
Eriogonum fasciculatum	Flattop buckwheat	•	Full sun/Good drainage	2-3'	4'	Low	WUCOLS	
Eschscholzia californica	California poppy	•	Full sun/Good drainage	6-12"	6"	Very Low	WUCOLS	
Fragaria chiloensis	Beach strawberry	•	Sun to part shade/Well drained	10"	Spreading	Infrequent to Occasional	WUCOLS	
Heteromeles arbutifolia*	Toyon	•	Full sun to part shade/Good drainage	10-20'	10-15'	Little-None	EBMUD	
Lavatera spp.	Tree mallow	•	Full sun/Good drainage	Varies	Varies	Low	WUCOLS	
Lepechina calycina	Pitcher sage	•	Full sun with pm shade/Good drainage	3-5'	1-2'	Little-None	EBMUD	
Lupinus albifrons*	Bush lupine	•	Full sun/Excellent drainage	3-5'	3-5'	Little-None	EBMUD	
Mimulus aurantiacus	Common monkeyflower	•	Full sun to part shade	3-4'	3-4'	Low	WUCOLS	
Mimulus cardinalis	Scarlet monkeyflower	•	Full sun to part shade/Adaptable	2-3'	2-3'	Low	WUCOLS	
Garrya elliptica	Coast silk tassle	•	Afternoon shade inland	10-20'	10-20'	Low	WUCOLS	
Rhamnus californica	Coffeeberry	•	Sun or part shade/Good drainage	3-15'	6-8'	Low	WUCOLS	
Ribes malvaceum	Chaparral currant	•	Sun to part shade	5'	5'	Very Low	WUCOLS	
Solidago californica	Goldenrod	•	Part shade	1-4'	1-2'	Little-None	EBMUD	
Symphoricarpos albus	Snowberry	•	Part shade	3-5'	3-5'	Occasional-Little	EBMUD	

spp. = multiple species

Reference sources:

CNP: California Native Plant Society, www.cnps.org

EBMUD: Plants and Landscapes for Summer-Dry Climates, May 2004, Nora Harlow (editor).

Sunset: Sunset Western Garden Book, Sunset Publishing Corp.

WUCOLS: Water Use Classifications of Landscape Species for Region 1 (No. Central Coast), University of California Cooperative

The Bay-Friendly approach to landscapes and gardens was pioneered in Alameda County by StopWaste in collaboration with home gardeners, landscape professionals and public agencies. Find out more at www.StopWaste.org.



^{*}Considered poisonous. Classifed as "Major Toxicity" by California Poison Control System 2010.