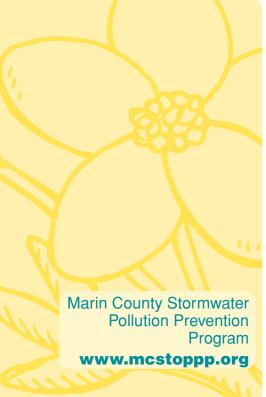


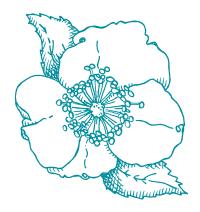
GO NATIUE Using Native Plants

FOR YOUR

- Yard
- Patio
- Creek







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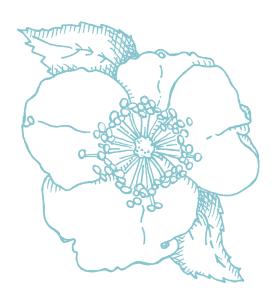
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Table of Contents

Why Use Native Plants?	3
Tips on Planting "Natives"	3
Where to Buy Natives	4
When and What to Plant Sowing Wildflower Seeds Native Plant List–Plants that Attract Wildlife Deer Resistant Native Plants Drought Tolerant Native Plants Fire Resistant Plants	5 6 10
Beneficial Insects	14
Planting a Container Garden	15
Planting Along Creeks Marin Native Creekside Plant List Avoid Invasive Plants Near Creeks Planting Willows	18 20
What are Pest Plants? Top Pest Plants in Marin	
Pesticides and Water Quality	25
Our Water-Our World	26
Resources	27





Why Use Native Plants?

When planning a garden, there are many reasons to consider native plants. They are adapted to the climate and soil conditions of their area, they attract beneficial insects to the area, they provide food and habitat for birds and butterflies, they thrive (even in nutrient-poor soils), they need little watering, they are more resistant to pests and diseases, and they don't require the use of toxic pesticides.

A "true" native means that it is native to a particular area. Just because a plant is a "California native" doesn't mean it is suited for life in Marin. The best way to tell this is to look around and see the types of native plants growing nearby in the wild.

"Natives" that occur naturally in your area are adapted to specific local conditions and will be the easiest to grow.

Tips on Planting "Natives"

Care for your new plants during the first few years to help them become established. Dry-season watering, regular weeding, mulching, and installing deer protectors will increase survival rates. After the first few years, you should not need to continue watering your native plants.

Early Fall is an ideal time to plant natives. The cool weather and rainfall will help plants establish a healthy root system before Spring growth.

Visit the MCSTOPPP website for more information on Native Plants at www.mcstoppp.org



Where to Buy Natives

Visit a nursery that specializes in native plants to help select species that will thrive in your garden or on your creek bank. The following local nurseries offer a good selection of native plants.

Green Jean's—690 Redwood Highway, Mill Valley (415) 389-8333

Larner Seeds—230 Grove Rd., Bolinas (415) 868-9407 (call about demonstration garden open to the public from October-July)

Las Baulines Nursery—150 Olema-Bolinas Rd, Bolinas (415) 868-0808

Mostly Natives Nursery—27235 Highway 1, Tomales (707) 878-2009

North Coast Native Nursery—Petaluma (Pacific Open Space Inc.) (707) 769-1213

O'Donnell's Nursery—1700 Sir Francis Drake, Fairfax (415) 453-0372

Other Locations to find Native Plants in Northern California

Baylands Nursery, East Palo Alto(650) 323-1645
Berkeley Horticultural Nursery, Berkeley (510) 526-4704
Bitterroot Restoration, Inc. Auburn(530) 745-9814
Buckeye Nursery, Petaluma(707) 559-7081
California Flora Nursery, Fulton (707) 528-8813
Carman's Nursery, Gilroy (408) 847-2313
Cornflower Farms, Elk Grove (916) 689-1015
Elkhorn Ranch Restoration Nursery, Moss Landing (831) 763-1207
Las Pilitas Nursery, Santa Margarita (805) 438-5992
Marin Art and Garden Center, Ross (periodic sales) (415) 455-5263
Native Revival Nursery, Aptos (831) 684-1811
Pacific Coast Seed, Livermore (925) 373-4417
Redwood Nursery, Santa Cruz (831) 438-2844
Soquel Nursery Growers, Soquel (831) 475-3533
Sunset Coast Nursery, Aromas (831) 726-1672
The Watershed Nursery, Berkeley (510) 548-4714
Yerba Buena Nursery, Woodside (650) 851-1668
The California Native Plant Society, (650) 691-9749
at the Peninsula Conservation Center,

holds annual and semi-annual native plant sales.

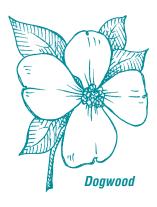


When and What to Plant

The best time to plant is in the fall—just before the rains start. This allows plants to develop a strong root system before the summer heat. Though

native plants don't require water once they are established, they may require some tending to for the first year or two—especially if they are planted in the hot summer months.

The following is a list of native plants that are good for attracting butterflies, beneficial insects, hummingbirds, and other backyard birds to your garden. While all plants listed are native to California. those plants that are native to Marin are also noted. However, even in Marin there are climate changes and unique differences so look around you. For example, what is native to Pt. Reves (a cool coastal climate) is not always native to Novato (a hot inland climate).



Sowing California Wildflower Seeds

Native wildflowers are best sown early in the rainy season. Choose an area with at least six hours of sunlight a day; part shade is fine for some species, but generally the more sun the better. The area will need to be weeded. and the soil loosened to about a two-inch depth. Mix your seed mix with sand-make sure it's river sand, not beach sand. Use about 1 teaspoon of seeds to cover 100 square feet (that's about a 10' x 10' area or a 2' x 50' area). Scatter this mix over the area that has been prepared, and then pat it down by hand-or walk on it to assure good seed to soil contact. Cover the seeded area with a light mulch. You can choose to water-or let the rains take care of it! For increasingly beautiful displays. let your wildflowers re-seed themselves year after year!



NATIVE PLANT LIST

Here are some California native plants that are reliable and hardy, and will attract wildlife to your garden. Plants are noted as perennial (P), annual (A), tree, shrub or vine.

ı																		
Native to Marin	×	×	×	×	×	×	×	×	×	×		×	×	×	×	×	×	
Backyard Birds		×					×		×							×	×	
Hummingbird								×	×		×				×		×	
Beneficial Insects	×		×	×	×				×	×	×	×	×	×	×			×
Butterfly	×			×			×		×	×	×	×		×				×
Blooming Season	Spring	Spring to Summer	n/a	Summer to Fall	Spring	Spring	Summer	Spring to Summer	Spring	Summer to Fall	Summer	Spring to Summer	Spring to Summer	Spring to Summer	Winter to Spring	Spring / Berries in Fall	Spring to Summer	Summer to Fall
Form	Tree	Ь	Ь	Ь	А	Tree	Shrub	Ь	Tree	Ь	Ь	Ь	A	А	Shrub	Shrub	Ь	Ь
Botanical Name	Alnus spp.	Heuchera micrantha	Angelica spp.	Aster spp.	Nemophila menziesii	Umbellularia californica	Rubus ursinus	Dicentra formosa	Aesculus californica	Eriogonum spp.	Galvezia speciosa	Sidalcea malviflora	Collinsia heterophylla	Clarkia spp.	Garrya elliptica	Rhamnus californica	Aquilegia formosa	Rudbeckia californica
Common Name	Alder	Alumroot	Angelica	Aster	Baby blue-eyes	Bay Laurel	Blackberry, California	Bleeding heart	Buckeye	Buckwheat	Bush Island snapdragon	Checkerbloom	Chinese houses	Clarkia	Coast silk-tassel	Coffeeberry	Columbine	Coneflower, California



Common Name	Botanical Name	Form	Blooming Season	Butterfly	Beneficial Insects	Hummingbird	Backyard Birds	Native to Marin
Cottonwood	Populus spp.	Tree	Spring	×	H	H		
Cow parsnip	Hercaleum lanatum	Ь	Spring	×	×			×
Coyote bush	Baccharis spp.	Shrub	Fall	×			×	×
Cream bush	Holodiscus discolor	Shrub	Spring	×	×		×	×
Currant, golden	Ribes aureum	Ь	Spring / Berries in Fall			×	×	
Currant, pink flowering	Ribes sanguineum var. glutinosum	Ь	Spring / Berries in Fall			×		×
Deergrass	Muhlenbergia rigens	Ь	Fall		×		×	
Dogwood	Cornus sericea	Shrub	Spring / Berries in Fall				×	×
Elderberry	Sambucus mexicana	Shrub	Spring / Berries in Fall					×
Fescue, California	Festuca californica	Ь	Summer to Fall	×			×	×
Figwort, Californica	Scrophularia californica	Ь	Spring	×	×			×
Flannel bush	Fremontodendron californicum	Shrub	Spring		×	_		×
Flowering ash	Fraxinus dipetala	Shrub	Spring		×	_		
Fuchsia, California	Epilobium canum	Ь	Fall			×	×	×
Grape, California wild	Vitis californica	Vine	Fruit in Fall			_	×	
Goldenrod	Solidago californica	Shrub	Summer to Fall	×	×	_	×	×
Goldfields	Lasthenia spp.	А	Spring		×			×
Hazelnut, California	Corylus cornuta v. californica	Shrub	Spring					×
Honeysuckle	Lonicera hispidula	Vine	Summer	×		×	×	×
Iris, Pacific Coast	Iris douglasiana	Ь	Spring		×			×
Lilac, California	Ceanothus spp.	Ь	Spring to Summer	×	×			×
Lupine	Lupinus spp.	Ь	Spring	×				×



NATIVE PLANT LIST

Here are some California native plants that are reliable and hardy, and will attract wildlife to your garden. Plants are noted as perennial (P), annual (A), tree, shrub or vine.

Common Name	Botanical Name	Form	Blooming Season	Butterfly	Beneficial Insects	Hummingbird	Backyard Birds	Native to Marin
Mallow	Lavatera assurgentiflora	Shrub	Summer	×			Г	
Manzanita	Arctostaphylos spp.	Shrub	Winter / Berries in Fall			×	×	×
Matilija poppy	Rommeya coulteri	Ь	Summer		×			
Milkweed	Asclepias fascicularis	۵	Summer	×		×		×
Monkeyflower, scarlet	Mimulus cardinalis	Ь	Summer	×		×		×
Monkeyflower, sticky	Mimulus aurantiacus	Shrub	Summer	×		×		×
Mugwort	Artemisia douglasiana	Ь	Fall		×			×
Oak	Quercus spp.	Tree	Spring	×	×		×	×
Oregon grape	Berberis aquifolium	Shrub	Spring / Berries in Fall				×	
Pearly Everlasting	Anaphalis margaritacea	Ь	Spring to Summer	×	×			×
Penstemon	Penstemon spp.	A/P	Summer	×	×	×	×	×
Phlox	Phlox gracilis	А	Spring	×				×
Pipevine, California	Aristolochia californica	^	Spring	×		×		×
Poppy, California	Eschscholzia californica	А	Spring		×			×
Purple needlegrass	Nassella pulchra	Ь	Summer	×			×	×
Redbud	Cercis occidentalis	Shrub	Spring		×	×	×	
Rose, California	Rosa Californica	Shrub	Spring to Summer		×			×
Sage, California	Artemisia californica	Ь	Summer		×			×



Native to Marin		×	×		×		×	×	×		×	×	×	×	×	×	×		×	×
Backyard Birds				×		×				×	×		×	×	×		×	×		
Hummingbird	×	×	×						×					×	×			×		
Beneficial Insects	×			×	×		×	×		×	×	×	×						×	×
Butterfly	×	×	×						×	×	×	×					×		×	
Blooming Season	Spring to Summer	Spring	Spring	Summer	Winter / Berries in Fall	Summer / Berries in Fall	Summer	Spring	Summer	Summer to Fall	Spring / Summer	Spring / Summer	Mid to late Spring	Spring / Berries in Fall	Spring / Berries in Fall	Summer	Spring	Summer	Spring to Summer	Summer
Form	Shrub	Ь	Ь	Shrub	Shrub	Shrub	Ь	А	Ь	Ь	A to P	Ь	А	Shrub	Shrub	Vine	Tree	Ь	Ь	Ь
Botanical Name	Salvia clevelandii	Salvia spathecea	Lepechinia calycina	Salvia apiana	Symphoricarpos albus var. laevigatus	Styrax officinalis	Chlorogalum pomeridianum	Oxalis oregana	Dudleya spp or Sedum spathufolium	Helianthus californicus	Cirsium occidentale	Armeria maritima	Layia platyglossa	Heteromeles arbutifolia	Lonicera involucrata	Clematis spp.	Salix spp.	Trichostema lanatum	Achillea millefolium	Oenothera hookeri
Common Name	Sage, Cleveland's	Sage, hummingbird	Sage, pitcher	Sage, white	Snowberry	Snowdrop bush	Soap plant	Sorrel	Succulent	Sunflower, California	Thistle, cobweb	Thrift	Tidytips	Toyon	Twinberry	Virgin's Bower	Willow	Woolly blue curls	Yarrow, Common	Yellow evening primrose



Deer Resistant Native Plants (sometimes!)

Deer in different areas seem to have different tastes. To complicate matters even further, what they like one year may change the next and young deer will try almost anything it seems. As well, plants left untouched in the spring may be eaten in the fall.

For more information on deer resistant plants, including "best bets", check out this link:

http://www.sacvalleycnps.org/Conservation/plantlists/DeerResistantPlants.pdf

Some examples of native deer resistant plants are listed below. The native plants that are considered almost always deer resistant are placed in **bold** type. Because native plants are better adapted to the local climate than their exotic counterparts, they should be considered first in land-scape planning.

The designation "some" simply means that only some subspecies are native to California.

Dutchman's Pipe (vine)

Baby Blue Eyes

Beach Strawberry

Bleeding Heart

Blue Eyed Grass

Buckwheat

California Honeysuckle (vine)

Clematis (vine)

Coffeeberry (shrub)

Dwarf Coyote Brush

Ferns

Fuchsia, California

Iris

Larkspur (some)

Lupines

Matilija Poppy

Monterey Manzanita

Penstemon (some)

Poppy, California

Sage (shrub)

Sea Thrift

Spicebush (shrub)

Toyon (shrub)

Verbena

Wild Ginger (some)



Drought Tolerant Native Plants

Many of our native plants are drought tolerant. Drought tolerant plants have the quality that allows them to survive in low-moisture, high-heat situations. Some native species that appear drought tolerant are really water loving and grow in wet areas near creeks or other water sources that keep them alive. These native species (i.e.- Juncus) would die if their natural water source dried up.

Other native plants are seasonally compatible. This is the case with baby blue eyes. The growing cycle of this plant coincides with the rainy season, dies in the summer, and re-seeds itself for the next season. Following the winter rains, those "baby blues" will emerge again.

The following lists some native drought tolerant plants.

Native Seasonal Compatible Plants

Baby blue eyes
California Blue Eyed Grass
California Fushia
California Poppy
Coreopsis
Lupine
Matilija Poppy
Monkey Flower
Pacific Coast Iris

Native Shrubs

California Wild Rose
Ceanothus Dark Star
Coast Purple Sage
Coffeeberry
Golden Currant
Island Snapdragon
Manzanita 'Howard McMinn'
or 'Hookerii'
Toyon
Tree Anemone

Native Grasses/Groundcovers

Blue Wild Rye
California Brome
California Strawberry
Ceanothus gloriosus or griseus
Evergreen Currant
Manzanita 'Emerald Carpet'
or 'uva ursi'
Meadow Barley
Muhly Grass
Red Fescue
Sea Thrift

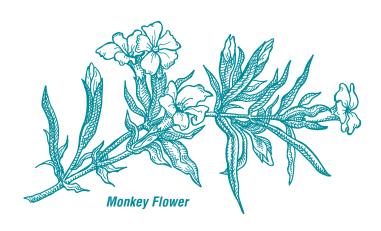


If you are a **Marin Municipal Water District** customer you can receive a free Water-Wise Gardening CD containing a full-color plant library and design ideas for native, as well as Mediterranean gardens. Also look for water-wise plants at the following stores: Sunnyside, Sloats, Bayside, West End, and United.

For more information, contact the Marin Municipal Water District at 415-945-1520.

North Marin Water District offers rebates to their customers for replacing regularly mowed and irrigated turf with drought tolerant, low water use native plants.

For information and participation procedures call: North Marin Water District (Serving Novato and West Marin) Water Conservation Program 415-897-4133 ext 8421



Fire Resistant Plants

The 1995 Mount Vision Fire in Pt. Reyes and the devastating Oakland Hills fire of 1991 served as a wake-up call to property owners who allow their shrubs and plants to "take over". "Pruning back" and creating defensible space* is an important step in guarding your property against wildfires. Also important is choosing fire resistant plants. These plants tend to have certain characteristics:

- . Most are broad-leaf trees that lose their leaves (deciduous). Some thick-leaf evergreens are also fire-resistant.
- . Leaves tend to be supple, moist and easily crushed.
- . Trees tend to be clean, not bushy, and have little deadwood.
- . Shrubs are low-growing (2") with minimal dead material.
- . Tall shrubs are clean, not bushy.
- . Sap is water-like and typically does not have a strong odor.

Some firewise native plants include:

bush anemone (Carpenteria californica)
California poppy (Eschscholzia californica)
common flannel bush (Fremontodendron californica)
creeping mahonia (Mahonia repens)
monkey flower (Mimulus repens)
sword fern (Polystichum munitum)
pink winter current or red flowering current (Ribes sanguineum currant)
sage (Salvia clevelandii and Salvia sonomensis)
California fuschia (Zauschneria californica)

* Defensible space breaks up the continuous paths that could carry a wildfire to your home. To learn more about defensible space and how to create it, contact FireSafe Marin at the number below.

For more information on reducing wildland fires call:

FireSafe Marin

555 Northgate Ave.

San Rafael, CA 94903

415-446-4420

www.firesafemarin.org



Beneficial Insects

Less than one percent of insects are considered garden pests. Insects that are considered good for the garden are called "beneficials." These beneficial insects eat garden troublemakers! Some favorite native plants that attract beneficial insects include: Marin baby blue eyes, buckwheat, goldenrod, and common yarrow.

Common beneficial insects and their food source include:

Beneficial Insect **Garden Troublemakers** (food source)

Minute Pirate Bug Aphids, mites, thrips, psyllids, and

insect eggs

Ladybug Aphids, mites, thrips, mealybugs

Soldier Beetle Cutworms, gypsymoth larvae,

cankerworms, slugs and snails

Syrphid Fly Aphids, mealybugs

Green Lacewing Insect eggs, mites, thrips, aphids,

mealybugs, whiteflies, leafhoppers

Assassin Bug Most insect species

Mealybug Destroyer Mealybugs and aphids

Small flying insects, Dragonflies including mosquitoes

Aphids, scale, whiteflies, mites,

Lacewings mealybugs, eggs of mites, thrips

and other insects

To learn more about good garden bugs, visit www.ipm.ucdavis.edu/PMG/NE/index.html. Or get a copy of Natural Enemies Handbook: The Illustrated Guide to Biological Pest Control by UC Division of Agriculture and Natural Resources. You can also call MCSTOPPP at 499-6528 for a free flier on "Naturally Managing Garden Pests."



Planting A Container Garden

In general, the best plant choices for containers are smaller, herbaceous perennials. If you are growing shrubs in containers, be sure to use a large enough container and keep plants pruned. You might want to scatter some wildflower seeds into the pots to fill in small spaces.

The following offers a list of some native plants good for containers:

PLANTS FOR SUNNY AREAS

PERENNIALS

Azure Penstemon - Penstemon azureus

Blue-eyed Grass - Sisyrinchium bellum

California fuchsia – Zauschneria californica or Epilobium canum

California Goldenrod - Solidago californica

California sagebrush - Artemisia californica

Cleveland Sage - Salvia clevelandii

Coyote Mint - Monardella spp.

Foothill Penstemon - Penstemon heterophyllus 'Margarita BOP'

Hummingbird Sage - Salvia spathacea

Scarlet Lobelia - Lobelia cardinalis

Seaside Daisy - Erigeron glaucus

Sea Thrift – Armeria maritima

Sticky Monkey Flower – Mimulus aurantiacus

Yerba Buena – Satureja douglasii

Yarrow - Achillea millefolium

ANNUALS

California Poppy - Eschscholzia californica

California Gilia - Gilia achilleifolia

Chia - Salvia columbariae

Farewell-to-spring - Clarkia amoena

Fivespot – Nemophilia maculata

Goldfields - Lasthenia californica

Redmaids - Calandrinia ciliata

Tidy Tips – Layia platyglossa



Wild Rose

GRASSES

Hair Grass - Festuca idahoensis or Deschampsia cespitosa

SHRUBS

Island Snap Dragon - *Galvezia speciosa* Manzanita

Arctostaphylos nummularia 'Small Change'
Archtostaphylos uva-ursi "Wood's Compact'
Rosy buckwheat - *Eriogonum grande* var. rubescens
Santa Cruz Island buckwheat - *Eriogonum arborescens*

Wild Lilac – Ceanothus maritimus Wild Rose – Rosa californica

PLANTS FOR PART SHADE

SHRUBS

Boxleaf Wax Myrtle – Myrica buxifolia Cream Bush – Holodiscus discolor Dwarf Mahonia – Berberis repens Snowberry – Symphoricarpos sp.



Snowberry

PERENNIALS

Beach Strawberry – Fragaria chiloensis
Boxleaf Wax Myrtle – Myrica buxifolia
Coral Bells – Heuchera maxima, Heuchera micrantha
Douglas Iris – Iris douglasiana

Hedge Nettle – Stachys chamissonis Meadow Rue – Thalictrum fendleri

Sticky Monkey Flower – *Mimulus aurantiacus* Western Columbine – *Aquilegia formosa*

ANNUALS

Chinese Houses – *Collinsia heterophylla* Globe Gilia – *Gilia capitata*

GRASSES

Nutka Reed Grass – Calamagrostis nutkaensis Red Fescue – Festuca rubra



Douglas Iris



Planting Along Creeks

A riparian corridor is the vegetated area next to a creek bank. Dense roots and vegetation stabilize creek banks, help reduce soil loss, filter sediment, and slow floodwaters. Trees and shrubs help raise the water table and cool the water—necessary for the survival of fish.

"Natives" that occur naturally in a particular area are adapted to specific local conditions and will be the easiest to grow. Native species that don't naturally occur in an area will require additional care and maintenance to become established.

The following native trees are more specific to the Marin County watersheds listed below:

Novato Creek and Miller Creek watersheds: California bay, California box elder, Coast live oak, Oregon ash, Valley oak, and Willow (red and yellow).

Corte Madera Creek watershed: California bay, California box elder, Coast live oak,
Oregon ash, Valley oak, Willow (red and yellow), White alder, and Coast redwood in some areas.

Mill Valley Creek watershed: Big-leaf maple, California bay, Coast redwood, Tanbark oak, and White alder.

Big-leaf Maple

San Geronimo Creek Watershed: Redwood, Red alder, Big-leaf maple, California bay, California box elder, California nutmeg, Coast live oak, Douglas fir, Hinds walnut, Oregon ash, Valley oak, and White alder.

Even though plants may be native or attract beneficial insects, they may not be appropriate for planting near creeks. The following two pages provide a list of "natives" that are appropriate for planting near creeks in Marin. The list is not definitive.

Before beginning work on a creekside restoration project, permits may be needed.

Call MCSTOPPP at 499-6528.



Marin County Creekside Native Plant List

□ = Appropriate for sunny conditions

Plant Low on Bank (in or near water)

Appropriate for shade conditions Appropriate for partial sun/shade conditions

Plant in the Middle of the Bank

Miner's Letting (Montia nerfoliata: 0-1")

Plant High on Bank (away from water)

Miner's Lettuce (Montia perfoliata: 0-1")	X Z	N SSE			Y	Alum Root (Heucher micrantha 3-6')	
California Polypody (<i>Polypidium californicum</i> : 0-2') \square	Miner's Lettuce (Montia perfoliata: 0-1')	Piggy-back Plant (Tolmiea menziesii: 1-2')	Redwood Sorrel (Oxalis oregana: 1-2')	Wild Ginger (Asarum caudatum: 0-2'	Woodland Strawberry (Fragaria vesca: 0-18")	Bleeding Heart (Dicentra formosa: 1/2-2')	Deerweed (Lotus scoparius: 1-2')

Alum Root (Heucher micrantha: 3-6')	Douglas's Iris (Iris douglasiana: 1-3')	1
	2721	

False Solomons's-Seal (Smilacina stellata: 1-3')

Douglas's Iris (Iris douglasiana: 1-3').

Monkey Flower (Mimulus guttatus: 0-3') Scarlet Monkey Flower (Mimulus cardinalis: 1-3')..

Perennials

Hedge-Nettle (Stachys chamissonis: 2-3')... Red Columbine (Aquilegia formosa: 2-3').. Redwood Violet (*Viola sempervirens*: 1-2') Nake Robin (Trillium ovatum: 1-2')......

*\<u>\</u>

Chain Fern (Woodwardia fimbriata: 3-6')

Ferns & Vines



California Blackberry (<i>Rubus ursinus</i> : 6-20')	Deer Fern (Blechum spicant 1-3')	Honeysuckle (<i>Lonicera hispidula</i> : 6-18')	Matuellinair relii (Audinium areutuchii. 1-2)

Plant Low on Bank (in or near water)

Grasses & Bulrush (Scirpus microcarpus: 3-6')□	Grass-like Horsetail (<i>Equisetum arvense</i> : 0-1')	Spike-rush (<i>Eleocharis palustris</i> : 1-3')	Torrent sedge (<i>Carex nudata</i> : 3-5')	Tule, Giant Bulrush (<i>Scirpus acutus</i> : 3-10')	Whiteroot sedge (Carex barbarae: 3-5')	Arrovo Willow (Salix lasiolepis: 6-20')
Grasses &	Grass-like	Plants				Shrubs



Coast Redwood (Seguoia sempervirens: 160-280").. Yellow Willow (Salix Iucida lasiandra: 20-50') White Alder (Alnus rhombifolia: 30-105') Red Willow (Salix leavigata: 15-45') Oregon Ash (Fraxinus latifolia: 30-80') Gray Willow (Salix exigua: 6-30') Red Alder (Alnus rubra: 30-105')

* *

×

Trees

Plant in the Middle of the Bank

Plant High on Bank (away from water)

1	
Blue wild rye (Elymus glaucus: 1-4')	Bue Blossom (Ceanothus thyrsiflorus: 10-15')
	30 30 30 30 30 30 30 30 30 30 30 30
Blue rush (Juncus patens: 1-2')	California Aralia (<i>Aralia californica</i> : 3-9')

* X

Creek Dogwood (Comus sericea occidentalis:5-15')..

Pacific Dogwood (*Cornus nuttallii*: 5-15')

Box Elder (Acer negundo californica: 20-70') Black Oak (Quercus Kelloggii: 30-80') Buckeye (Aesculus californica: 6-21'). * N. X. Box Elder (Acer negundo californica: 20-70')....... California Nutmeg (Torreya californica: 6-25') Coast Redwood (Sequoia sempervirens: 160-280') Big Leaf Maple (Acer macrophyllum: 15-100')

Canyon Live Oak (Quercus chrysolepis: 30-80').... California Bay (Umbellularia californica: 25-90') Coast Live Oak (Quercus agrifolia: 35-85') Madrone (Arbutus menziesii: 40-80')

Jouglas Fir (Pseudotsuga menziesii: 70-250')

an Oak (Lithocarpus densiflora: 30-80') White Alder (Alnus rhombifolia: 30-105') /alley Oak (Quercus lobata: 40-125')

Red Alder (Alnus rubra: 30-105')

X

Dregon Oak (Quercus garryana: 30-80')

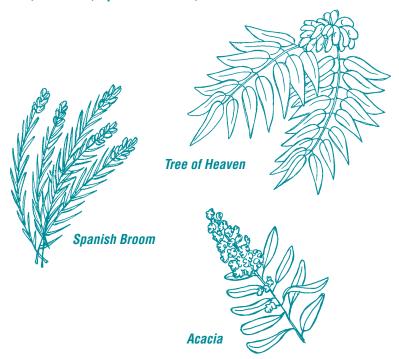
Avoid Invasive "Pest Plants" Near Creeks and Open Space

Before planting "natives" along a creek bank, it's a good idea to remove any invasive plants. Generally, invasive plants do not provide good bank stability. In addition, they crowd out native species and do not provide the same fish and wildlife habitat as native plants.

If non-native invasive plants remain in close proximity to newly planted natives, the "invasives" will soon overtake the natives. When removing "invasives", work on one small section at a time and re-establish with natives to ensure that the bank is not completely bare and subject to erosion from wind, rain, and foot traffic.

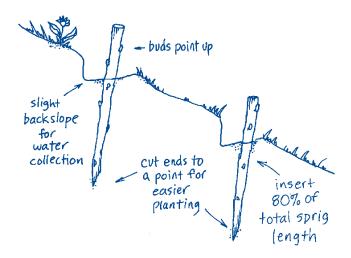
Examples of invasive plants to avoid having near creeks and open space, in addition to those listed on page 24 include:

Acacia, Bamboo, Spanish broom, and Tree-of-Heaven.



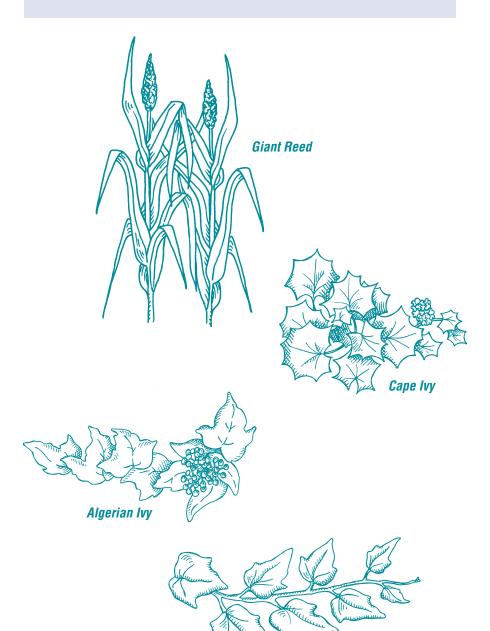


Planting Willow Springs



Willows are an effective and inexpensive way to armor creek banks and gullies and to provide important wildlife habitat. For information on planting willows, call Marin County Stormwater Pollution Prevention Program (MCSTOPPP) at 499-6528.

For more information on protecting local creeks, or to request free technical assistance for your creek stabilization project, contact MCSTOPPP at 499-6528



English Ivy



What Are Pest Plants?

"Pest plants" are non-native plants introduced to California from other parts of the world. By virtue of having left their natural checks and balances behind, they are capable of overwhelming the native diversity—replacing rich stands of wildflowers with a mere handful of species. Not all non-native species qualify as pest plants, only those that seriously disrupt the indigenous communities.

It is worth noting that many of these pest plants came to California as attractive additions to gardens, and were determined to be pest plants only when they had "escaped" and begun to take over natural areas. For this reason, do not add non-indigenous plants to wild areas or you might end up unwittingly contributing to the demise of the natural beauty that is already there.

Some pest plants—such as French Broom—also increase the fire hazard at a site. Consequently they are targeted for removal by community site stewardship projects with the goal of encouraging natural diversity and reducing fire hazard.

Learn more About Invasive Plants:

For a list of invasive plants and their alternatives: CA Invasive Plant Council http://www.Cal-IPC.org

For Information/Projects on Weed Management and Invasive Plants: Marin/Sonoma Weed Management Area www.marinsonomaweedmanagement.org

For volunteer opportunities to remove invasive plants from trails, etc.: www.marinopenspace.org www.nativehabitats.org

Book of Interest:

<u>Invasive Plants of California's Wildlands</u>, edited by Carla Bossard, John Randall and Marc Hoshovsky, UC Press.

TOP "PEST" PLANTS TO AVOID IN MARIN

Cape Ivy (or German Ivy)	Delairea odorata	riparian/coastal
Eastern Cordgrass	Spartina alterniflora	salt marsh
Ehrarta Grass	Ehrharta erecta	woodlands
English and Algerian Ivy	Hedera helix subspecies	woodlands/riparian
European Beachgrass	Ammophila arenaria	coastal dunes
Fennel		
French Broom	Genista monspessulana	widespread
Giant Reed	Arundo donax	riparian areas
Gorse	Ulex europea	grasslands/riparian
Harding Grass	Phalaris aquatica	widespread
Himalayan Blackberry	Rubus discolor	riparian/woodlands
Ice Plant	Carpobrotus edulis	coastal dunes/ grasslands
Italian Thistle	Carduus pycnocephalus	widespread
Licorice Plant	Helichrysum petiolare	coastal scrub/ widespread
Milk Thistle	Silybum marianum	widespsread
Pampass Grass	Cortaderia selloana	
	and jubata	widespread
Perennial Peppergrass	Lepidium latifolium	marshlands
Periwinkle	Vinca major	woodlands/riparian
Poison Hemlock	Conium maculatum	moist sites
		widespread
Purple Star Thistle	Centaurea calcitrapa	grasslands
Scotch Broom	Cytisus scoparius	widespread
South African Capeweed	Arctotheca calendula	riparian/grassland
Tasmanian Blue Gum	Eucalyptus globulus	widespread
Wooly Distaff Thistle	Carthamnus lanatus	grasslands
Yellow Star Thistle	Centaurea solstitialis	widespread

^{*}Annual ryegrass, wild oats and ripgut brome are pest plants that have become so ubiquitous that they, unfortunately, have become a permanent part of the grasslands.

SOURCE: Bob Soost of the California Native Plant Society, Marin County Chapter





Pesticides and Water Quality

A recent study on "The Quality of Our Nation's Waters" by the U.S. Geological Survey found that insecticides are detected more often, and usually in higher concentrations, in urban streams as opposed to agricultural streams. Most common were diazinon, carbaryl, sevin, and malathion. (Diazinon was removed from retail stores in 2004 because of human health concerns. This was done through a voluntary agreement between the U.S. Environmental Protection Agency and product registrants.)

Chemicals called pyrethroids are now being used as replacements for some common pesticides that have been removed from retail store shelves. Unfortunately, researchers have found widespread toxicity caused by these synthetic pyrethroids in Bay area urban creeks. Pyrethroids are **highly toxic** to aquatic insects and crustaceans. Unlike pyrethrin, they last longer in the environment. (Note: Pyrethrin is a "natural" pesticide made from the chrysanthemum flower; however, it is toxic to birds, fish, and beneficial insects until it breaks down in the environment.)

You can recognize pyrethroids by looking at the active ingredient listed, in small print, on the front of the product label. If the active ingredient ends with a "thrin" (with the exception of pyrethrin), the chemical is a synthetic pyrethroid! The only pyrethroid-containing over-the-counter product that does not contain "thrin" in its name is esfenvalerate — also toxic to insects, crustaceans and fish.

Consider avoiding products that contain pyrethroids! Also avoid insectrepellent clothing treated with permethrin (another example of a pyrethroid). EPA found that wearing such clothing more than once a year could increase cancer risks.

Herbicides found in many common "weed and feed" products are also problematic. Independent tests on a common weed killer used in lawn care have found a strong link to increased miscarriages and lost pregnancies. For more information on lawn care, go to www.beyondpesticides.org/lawn/index.htm.

Our Water, Our World: Alternatives to a Toxic Tomorrow

Far too often, we use toxic products when they are not necessary or because we are not aware of healthier alternatives. In a regional survey conducted by the Bay Area Stormwater Management Agencies Association (BASMAA), 75% of consumers said they would be willing to try less toxic alternatives to manage household and garden pests if they were available. They ARE! In Marin, 15 local retail stores are partnering with Marin Stormwater Pollution Prevention Program to promote the availability of less toxic products for consumer purchase. The stores participating in the program, called "Our Water, Our World", include:

Belvedere/Tiburon

Bayside Garden Center

Fairfax

Fairfax Lumber/Ace Hardware O'Donnell's

Larkspur/Greenbrae/ Kentfield

Jim Corbet's Ace Sloat Garden Center

Mill Valley

Goodman Building Supply Green Jeans Sloat Garden Center (2)

Novato

Pini Ace Hardware Sloat Garden Center

San Anselmo

Sunnyside

San Rafael

Orchard Supply Hardware Sloat Garden Center Jackson's Hardware

Next time you visit one of the stores listed above, look for this sign next to pesticide products that are safer for you, your family, and pets! These tags



are placed beneath less toxic products as they are displayed on store shelves. The cards (shelf-talkers) give the name of the product in the white area of the tag.

For more information on the availability of less toxic products and how to have a less toxic home and garden, visit **www.ourwaterourworld.org**.



Resources

For more information on native plants contact:

CA Native Plant Society, Marin chapter at

www.marin.cc.ca.us/cnps/index.html or www.cnps.org

CA Native Plant Link Exchange at

www.cnplx.info

Mostly Natives at

www.mostlynatives.com/guide.htm

For creating healthier habitats and/or using less toxic pest management and safer alternatives, contact:

www.audubon.org/bird/at home/alternatives.html

www.birc.org

www.panna.org

www.pesticide.org

www.ourwaterourworld.org

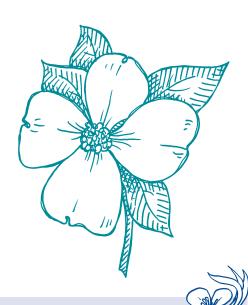
www.ewg.org

www.beyondpesticides.org

www.herc.org

To find out how you can volunteer to remove invasive plants from hiking trails and open space areas, contact:

www.marinopenspace.org



Notes on Natives:



Notes on Natives:



