

UC SANTA CRUZ
RECOMMENDED NATIVE PLANTS, NON-NATIVE PLANTS,
AND GRASS SEED MIXTURES

May 1, 1998

- * May not be appropriate in some campus locations due to messiness or susceptibility to fungus, frost, deer, pests, etc.

REDWOOD FORESTS

Predominant native species at UCSC with commercial availability

	<u>Scientific Name</u>	<u>Common Name</u>
TREES:	<i>Acer macrophyllum</i> <i>Sequoia sempervirens</i>	Bigleaf Maple Coast Redwood
SHRUBS:	<i>Corylus cornuta var. californica</i> <i>Rosa gymnocarpa</i> <i>Ribes sanguineum var. glutinosum</i> <i>Vaccinium ovatum</i>	Western Hazelnut Wood Rose Red Flowering Currant California Huckleberry
GROUND COVER:	<i>Oxalis oregana</i> <i>Petasites frigidus var. palmatus</i> * <i>Polystichum munitum</i> <i>Symphoricarpos mollis</i> <i>Trillium ovatum</i> <i>Whipplea modesta</i> <i>Viola sempervirens</i>	Redwood Sorrell Coltsfoot Sword Fern Creeping Snowberry Wake Robin Yerba De Selva Evergreen Violet
WET HABITAT GROUND COVER:	<i>Athyrium filix-femina</i> <i>Equisetum</i> spp. <i>Ranunculus californicus</i> <i>Woodwardia fimbriata</i>	Lady Fern Horse Tail Buttercup Giant Chain Fern

NATIVE PLANTS ASSOCIATED WITH REDWOOD FORESTS

Not necessarily predominant species at UCSC

	<u>Scientific Name</u>	<u>Common Name</u>
TREES:	<i>Acer macrophyllum</i> <i>Quercus agrifolia</i> <i>Torreya californica</i> <i>Cornus nuttallii</i>	Big Leaf Maple Coast Live Oak California Nutmeg Western Dogwood

	<i>Quercus chrysolepis</i>	Canyon Live Oak
	<i>Quercus kelloggi</i>	California Black Oak
	<i>Quercus wislizenii</i>	Interior Live Oak
SHRUBS:	<i>Acer circinatum</i>	Vine Maple
	<i>Berberis pinnata</i>	California Holly Grape
	<i>Cornus sericea ssp. sericea</i>	Redtwig Dogwood
	<i>Rhododendron occidentale</i>	Western Azalea
	* <i>Myrica californica</i>	Wax Myrtle
GROUND COVERS:	<i>Adiantum aleuticum</i>	Maidenhair Fern
	<i>Aquilegia formosa</i>	Western Columbine
	<i>Dicentra formosa</i>	Western Bleeding Heart
	<i>Iris douglasiana</i>	Douglas' Iris
	<i>Sisyrinchium bellum</i>	Blue Eyed Grass
	<i>Asarum caudatum</i>	Long-tailed Ginger

MIXED EVERGREEN FOREST

Predominant native species at UCSC with commercial availability

	<u>Scientific Name</u>	<u>Common Name</u>
TREES:	* <i>Aesculus californica</i>	California Buckeye
	* <i>Quercus agrifolia</i>	Coast Live Oak
	<i>Quercus wislizenii</i>	Interior Live Oak
	<i>Sequoia sempervirens</i>	Coast Redwood
SHRUBS:	<i>Corylus cornuta var. californica</i>	Western Hazelnut
	* <i>Rhamnus californica</i>	Coffeeberry
	<i>Rosa gymnocarpa</i>	Wood Rose
	<i>Vaccinium ovatum</i>	Huckleberry
	<i>Symphoricarpos albus</i>	Snowberry
VINES:	* <i>Lonicera hispidula</i>	Hairy Honeysuckle
	* <i>Rubus ursinus</i>	California Blackberry
GROUND COVER:	<i>Satureja douglasii</i>	Yerba Buena
	<i>Trillium ovatum</i>	Wake Robin
	<i>Stachys spp.</i>	Hedge Nettle
	<i>Juncus spp.</i>	Rush
	<i>Fragaria vesca ssp. californica</i>	Wood Strawberry

NATIVE PLANTS ASSOCIATED WITH MIXED EVERGREEN FORESTS

Not necessarily predominant species at UCSC

Scientific Name	Common Name
TREES:	
<i>Acer macrophyllum</i>	Big Leaf Maple
* <i>Cercis occidentalis</i> (shrub)	Western Redbud
* <i>Heteromeles arbutifolia</i>	<i>Toyon</i>
* <i>Quercus chrysolepis</i>	Canyon Oak
<i>Quercus garryana</i>	Oregon Oak
<i>Quercus kelloggii</i>	California Black Oak
<i>Torreya californica</i>	California Nutmeg
SHRUBS:	
* <i>Arctostaphylos</i> spp.	<i>Manzanita</i>
* <i>Berberis pinnata</i>	<i>California Holly Grape</i>
* <i>Ceanothus thyrsiflorus</i>	<i>Blue Blossom</i>
* <i>Corylus cornuta</i> var. <i>californica</i>	<i>Western Hazelnut</i>
* <i>Mimulus aurantiacus</i>	Sticky Monkey Flower
* <i>Rhododendron occidentale</i>	<i>Western Azalea</i>
<i>Calycanthus occidentale</i>	Spice Bush
<i>Carpenteria occidentalis</i>	Tree Anemone
<i>californica</i> <i>Garrya elliptica</i>	Coast Silk Tassel Bush
<i>Ribes sanguineum</i> var. <i>glutinosum</i>	<i>Red Flowering Currant</i>
GROUND COVER:	
<i>Adiantum aleuticum</i>	<i>Wood Strawberry</i>
<i>Fragaria vesca</i> var. <i>californica</i>	<i>Western Sword Fern</i>
<i>Polystichum munitum</i>	Yerba Buena
<i>Satureja douglasii</i>	False Solomon's Seal
<i>Smilacina racemosa</i>	<i>Slim Solomon's Seal</i>
<i>Smilacina stellata</i> var. <i>sessilifolia</i>	<i>Giant Chain Fern</i>
<i>Woodwardia fimbriata</i>	

CHAPARRAL / BACCHARIS SCRUB

Predominant native species at UCSC with commercial availability

	<u>Scientific Name</u>	<u>Common Name</u>
SHRUBS:	<i>*Arctostaphylos spp.</i>	<i>Manzanita</i>
	<i>*Ceanothus thyrsiflorus</i>	Blue Blossom
	<i>*Quercus wislizenii</i>	Interior Live Oak, Shru
	<i>*Rhamnus californica</i>	Coffeeberry
	<i>*Vaccinium ovatum</i>	Huckleberry
	<i>*Baccharis pilularis</i>	<i>Coyote Brush</i>
	<i>*Mimulus aurantiacus</i>	Sticky Monkey Flower
	<i>Eriodictyon californicum</i>	<i>Yerba Santa</i>
GROUND COVER:	<i>Helianthemum scoparium</i>	Sunrose
OTHERS:	<i>*Rubus ursinus</i>	<i>California Blackberry</i>
	<i>Atriplex spp.</i>	Quail Bush
	<i>*Dendromecon rigida</i>	Bush Poppy
	<i>Pickeringia montana</i>	Chaparral Pea
	<i>Garrya fremontii</i>	Fremont Silktassel
	<i>*Heteromeles arbutifolia</i>	Toyon

PLANTS IN CHAPARREL FOR FIRE SAFETY

Acceptable native plant species

<u>Scientific Name</u>	<u>Common Name</u>
<i>*Arctostaphylos spp.</i>	<i>Manzanita</i>
<i>Cercis occidentalis</i>	<i>Western Redbud</i>
<i>Fremontodendron spp.</i>	<i>Flannel Bush</i>
<i>Prunus ilicifolia</i>	<i>Hollyleaf Cherry</i>
<i>Ribes malvaceum</i>	<i>Chaparral Currant</i>

GRASSLANDS

Native and Naturalized Planting Mix

<u>Scientific Name</u>	<u>Common Name</u>
<i>Centaurea cyanus</i>	<i>Dwarf Cornflower</i>
<i>Cheiranthus allionii</i>	<i>Wallflower</i>
<i>Chrysanthemum leucanthemum</i>	<i>Ox-eye Daisy</i>
<i>Clarkia amoena</i>	<i>Farewell-to-Spring</i>
<i>Clarkia unguiculata</i>	<i>Mountain Garland</i>
<i>Collinsia heterophylla</i>	<i>Chinese Houses</i>
<i>Eschscholzia californica</i>	<i>California Poppy</i>
<i>Gilia capitata</i>	<i>Globe Gilia</i>
<i>Gilia tricolor</i>	<i>Bird's Eye</i>
<i>Gypsophila muralis</i>	<i>Baby's Breath</i>
<i>Layia platyglossa</i>	<i>Tidy Tips</i>
<i>Linanthus grandiflorus</i>	<i>Mountain Phlox</i>
<i>Linum grandiflorum var. Rubrum</i>	<i>Scarlet Flax</i>
<i>Lupinus densiflorus cv. Ed Gedling</i>	<i>Golden Lupine</i>
<i>Lupinus succulentus</i>	<i>Arroyo Lupine</i>
<i>Lupinus vallicola</i>	<i>Valley Lupine</i>
<i>Nemophila menziesii</i>	<i>Baby Blue Eyes</i>
<i>Grindelia hirsutla</i>	<i>Gumplant</i>
<i>Solidago californica</i>	<i>California Goldenrod</i>
<i>Anaphalis margaritacea</i>	<i>Pearly Everlasting</i>
<i>Achillea millefolium</i>	<i>Yarrow</i>
<i>Plantago erecta</i>	<i>Dwarf Plantain</i>
<i>Oenothera hookeri</i>	<i>Hookers Evening Primmrose</i>
<i>Sisyrinchium bellum</i>	<i>Blue-eyed Grass</i>
<i>Nassella pulchra</i>	<i>Purple Needlegrass</i>
<i>Nassella lepida</i>	<i>Foothill Needlegrass</i>

NATIVE PLANTS WITH ORNAMENTAL CHARACTERISTICS FOR INTERIOR COMPLEXES

	<u>Scientific Name</u>	<u>Common Name</u>
TREES:	<i>Acer macrophyllum</i>	Big Leaf Maple
	* <i>Aesculus californica</i>	California Buckeye
	<i>Cercis occidentalis</i>	Western Redbud
	<i>Cornus nuttallii</i>	Western Dogwood
	<i>Lyonothamnus floribundus</i>	Catalina Ironwood
	<i>Quercus agrifolia</i>	Coast Live Oak
	<i>Quercus kelloggi</i>	California Black Oak
	<i>Sequoia sempervirens</i> 'Soquel' or 'Aptos Blue'	Coast Redwood
	<i>Torreya californica</i>	California Nutmeg
SHRUBS:	* <i>Arctostaphylos spp.</i>	<i>Manzanita</i>
	* <i>Calycanthus occidentalis</i>	<i>Spice Bush</i>
	<i>Carpenteria californica</i>	Bush Anemone
	* <i>Ceanothus spp.</i>	Ceanothus
	<i>Cornus sericea ssp. sericea</i>	Redtwig Dogwood
	* <i>Dendromecon harfordii</i>	Island Bush Poppy
	<i>Eriogonum arborescens</i>	Island Buckwheat
	<i>E. giganteum</i>	St. Catherine's Lace
	<i>Fremontodendron californica</i>	Flannel Bush
	<i>Galvezia speciosa</i>	Island Bush Snapdragon
	<i>Garrya elliptica</i>	Silk Tassel Bush
	* <i>Heteromeles arbutifolia</i>	Toyon
	<i>Holidiscus discolor</i>	Ocean Spray
	<i>Lupinus arboreus</i>	Bush Lupine
	<i>Berberis aquifolium</i>	Oregon Grape
	* <i>Mimulus aurantiacus</i>	Sticky Monkey Flower
	* <i>Myrica californica</i>	California Wax Myrtle
	* <i>Prunus ilicifolia</i>	Hollyleaf Cherry
	* <i>Rhamnus californica</i>	Coffeeberry
	<i>Rhododendron occidentale</i>	Western Azalea
	<i>Rhus integrifolia</i>	Lemonade Berry
	<i>Ribes sanguineum var. glutinosum</i>	Red Flowered Currant
	<i>R. speciosum</i>	Fuchsia Flower Gooseberry
	<i>Rubus parviflorus var. velutinus</i>	Thimbleberry
	<i>Salvia leucophylla</i>	Purple Sage
	* <i>Sambucus caerulea</i>	Blue Elderberry
	<i>Spirea densiflora</i>	Mountain Spirea
* <i>Vaccinium ovatum</i>	California Huckleberry	

GROUND COVER:	Arctostaphylos edmundsii	
	A. 'Emerald Carpet'	
	A. 'Carmel Sur'	
	A. hookeri 'Monterey Carpet'	
	A. 'Point Reyes'	
	A. uva-ursi 'Radiant'	
	Baccharis pilularis 'Pigeon Point' or 'Twin Peaks'	
	*Ceanothus gloriosus 'Anchor Bay' or exaltus 'Emily Brown' or porrectus	
	C. griseus 'Yankee Point'	
	C. 'Joyce Coulter'	
	Eriogonum grande var. rubescens	Island Buckwheat
	Ribes viburnifolium	Evergreen Currant

RECOMMENDED NON-NATIVE PLANTS

Currently in use at developed parts of campus

	<u>Scientific Name</u>	<u>Common Name</u>
NON-NATIVE TREES	Acer palamatum	Japanese Maple
	Cedrus spp.	Albizia spp. Cedar
	*Cornus capitata	Evergreen Dogwood
	Ginko biloba	Maidenhair Tree
	Jacaranda mimosifolia	Jacaranda
	Magnolia spp.	Magnolia
	Maytenus	Mayten
	Melaleuca spp.	Heath Melaleuca
	Metasequoia glyptostroboides	Dawn Redwood
	*Olea spp.	Olive (fruitless)
	Platanus "Columbia"	London Plane Tree
	Podocarpus gracilior(?)	Fern Pine
	Podocarpus macrophyllus	Yew Pine
	Prunus spp.	
	Prunus yedoensis	Akebono Flowering Cherry
	'Akebono'	Cork Oak
	Quercus suber	Scarlet oak
	Quercus coccinia	

NON-NATIVE
SHRUBS:

Asparagus densiflorus 'Sprengeri'	Sprenger Asparagus
Azalea	varieties
*Berberis	Barberry
*Camellia spp.	
*Chaenomeles	Flowering Quince
Choisya ternata	Mexican Orange
*Cistus spp.	Rockrose
Correa spp.	Australia Fuchsia
*Cotinus	Smoke tree
Daphne	Daphne
Diosma	Breath of Heaven
*Echium fastuosum	Pride Of Madeira
Eleagnus spp.	
Erica spp.	Heather
*Escallonia spp.	
Euryops spp.	
Fremontodendron spp.	Fremontia
Felicia amelloides	Blue Margarite
Feijoa sellowiana	Pineapple Guava
Grevillea spp.	
Grewia	Starflower
Hakea spp.	Hakea
*Hebe spp.	
*Hydrangea	Hydrangea
*Juniperus spp.	Juniper
Kerria Japonica	Kerria
Lavandula spp.	Lavender
Leptospermum spp.	Tea Tree
Ligustrum spp.	Privet
Leonotis leonurus	Lion's Tail
Osmanthus spp.	Osmanthus
Nandina domestica	Heavenly Bamboo
Pieris japonica	Lily-Of-The-Valley Shrub
*Podocarpus spp.	
Rhododendron	
Rhus ovata	varieties
Rosmarinus spp.	Sugar Bush
Salvia spp.	Rosemary
Sarcococca spp.	Sage
*Sollya	Australian Bluebell
Teucrium	Germander
*Trachelospermum jasminoides	Star Jasmine
Viburnum spp.	
Westringia	

NON-NATIVE
VINES & GROUND
COVERS:

Ajuga	Carpet Bugle
Clematis	varieties
Coprosma	varieties
Grewia	Starflower
* <i>Hardenbergia violacea</i>	<i>Hardenbergia</i>
Hibbertia scandens	Guinea Gold Vine
*Hypericum	St. Johnswort
Jasminum spp.	Jasmine
Pachysandra	Honeysuckle
	Japanese Spurge

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RECOMMENDED TURF GRASS SEED MIX FOR UCSC CAMPUS

A. Turf Grass

- Varieties of blue grass and varieties of rye grass that have been successfully blended and used on campus are as follows: Varieties change. I'm sure these are old.

Blue Grass	Rye Grass
Glade	Britestar
Merit	Manhattan III
Majestic	Blazer
Rugby	Pennant
Gnome	Quickstart
	Laredo

The proper blend between blue grass and rye grass should be 75% rye grass to 25% blue grass by weight.

- Turf type Tall Fescue is *acceptable* as a less water consumptive alternative turf material. Three varieties of fescue should be blended with a small percentage (~5%) of aggressive blue grass. Varieties used: Coyote, Jaguar, Tulsa. Varieties change. I'm sure these are old.

B. Native Pasture: refer to "Grasslands", above.

- C. Erosion Control Grass Mix 1. Soil Stabilization (**For soil stabilization during construction. Not to be used for restoration. Contractor shall submit seed label and seed analysis to UCSC representative for approval prior to application).**

Mix	# per acre	%
Barley, U.C. 603	180	100
Total	48	100

2. **Meadow Erosion Mix (For post-construction restoration. Contractor shall submit seed label and seed analysis to UCSC representative for approval prior to application. Prefer locally collected seed)**

Mix	# per acre
California Brome (<i>Bromus carinatus</i>)	12-18
Meadow Barley (<i>Horedum brachyantherum</i>)	12-18
Blue Wild Rye (<i>Elymus glaucus</i>)	12
Purple Needle grass (<i>Nassella pulchra</i>)	12

D. *Hydroseed: apply at the following rates:*

	<u># per acre</u>
<i>Mulch with seed</i>	1000
<i>6-20-20 fertilizer</i>	400
<i>Binder</i>	80-100