SUMMARY
This herbarium book contains scanned plant specimens collected from the Estero Americano Preserve, which is located near the town of Bodega, California. This project arose out of the grassland monitoring project designed to evaluate the effectiveness of cattle grazing for coastal grassland enhancement. During the spring to summer months of 2009 and 2010 specimens were collected, pressed, verified for identification, labeled, and scanned, so that future participants working on the monitoring project will have a helpful aid for noting species present at the Preserve.

ESTERO AMERICANO PRESERVE
The Sonoma Land Trust’s Estero Americano Preserve is a scenic and biologically diverse 127-acre property located near the town of Bodega along the Estero Americano, a tidal estuary that extends from Valley Ford to the Pacific Ocean. The Preserve was acquired in 1997 and 2001 in partnership with California State Coastal Conservancy and the Sonoma County Agricultural Preservation and Open Space District. The Preserve was purchased with the goal of protecting the coastal estuary, upland environments and other sensitive resources; allowing for restoration of habitat areas; and providing limited public access.
COASTAL GRASSLAND ASSESSMENT

A 2007 coastal grassland assessment by local consulting botanists identified much of the grassland area of the Preserve as coastal prairie. Coastal prairie is a perennial-grass dominated community with at least 10-15% relative cover of native grasses and forbs. Some of the native plant species found on the Preserve include: California oatgrass, purple needlegrass, tufted hairgrass, june-grass, lupine, harlequin lotus, early blue violet, Douglas’s iris, and California blackberry. These plant species persist among non-native annual and perennial grasses and forbs that arrived in the area some years ago.

CATTLE GRAZING FOR COASTAL PRAIRIE ENHANCEMENT

Coastal grassland systems are threatened by shrub and tree encroachment, invasion and dominance by non-native annual and perennial grasses, and habitat loss due to housing development. Management activities such as mowing, grazing and prescribed burning can mimic beneficial disturbance regimes, control brush encroachment and the negative impacts of non-native species as well as promote native species. Grazing is often the most economical, practical and reliable method for managing grasslands at a large scale.

Drawing on previous research across California grassland ecosystems, SLT is working under the assumption that livestock grazing will benefit native flora found in the Estero grasslands by reducing the biomass and cover of exotic grasses, such as wild oats and brome grasses. Central to this management assumption is that native species are limited by competition with exotic grasses, and that properly-timed grazing will decrease exotic grass cover and biomass and correspondingly increase the abundance of native species.
PARTNERSHIPS

To better understand the role of livestock grazing and other management activities at the Estero, SLT is working with multiple partners to assess the coastal grasslands, improve grazing infrastructure, and develop plans for grazing management and ecological monitoring for the coastal prairie grassland found on the property. The State Coastal Conservancy (SCC), Gold Ridge Resource Conservation District (RCD) the Natural Resources Conservation Service (NRCS), and the U.S. Fish and Wildlife Service (USFWS) have provided funding and technical assistance for coastal grassland management and water quality enhancement projects. SLT is also collaborating with the Coastal Prairie Enhancement Feasibility Study (CPEFS) to utilize grazing exclosures for the study the cattle grazing impacts on invasive velvetgrass (*Holcus lanatus*).

GRAZING PLAN AND GRASSLAND MONITORING PLAN

Gold Ridge RCD has generously supported SLT with the development of both a grazing management plan and a grassland monitoring plan to guide and track livestock management activities at the Estero Americano Preserve for years to come. Certified Rangeland Manager Lisa Bush assessed the Preserve to determine grassland production values and appropriate stocking levels for the grazing management plan and Dr. Caroline Christian developed the grassland monitoring plan to evaluate the effectiveness of cattle grazing in achieving SLT’s conservation goals for the Preserve. Livestock are managed by local operator Joe Pozzi, recently honored with the Farm Bureau’s first Luther Burbank Conservation Award for his efforts to protect the county’s natural resources.

These plans set clear management goals and provide an opportunity to manage the property adaptively based on information from the monitoring program. The grazing management and monitoring plans are aimed at highlighting conservation values, such as the preservation of native species, healthy soils, and water quality, while at the same time supporting a working landscape that promotes historical uses of the land.
GRASSLAND MONITORING PROJECT

Each spring, SLT works with volunteers and Sonoma State University interns to measure various aspects of the grassland vegetation at 29 permanent one square meter monitoring plots throughout the preserve. Examples of the variables monitored include: percent cover and frequency and richness (number) of all native and exotic plant species. Measurement of these variables helps to provide a more complete picture about the health of the grasslands through time and help SLT staff determine if invasive plant species like velvet grass are increasing or decreasing in abundance.

EXOTIC SPECIES

As with all grasslands found throughout California, exotic grasses – both perennial and exotic dominate the Estero grasslands. Overall, 80% of the grassland is covered by exotic species, mostly annual grasses. Although this number may seem high to those unfamiliar with grasslands, grassland ecosystems have been hit hard by invasive species, leaving little room for native plant species to thrive. The monitoring program is designed to look at several noxious grassland weeds and to detect the arrival of new exotic species.

NOTABLE NATIVES

Given the dominance of invasive grasses, the team was pleased to learn that the Preserve has a phenomenal amount of native perennial grass, rush and sedge species, which together comprise on average over 20% of the vegetation cover in the grasslands. During the spring, tall stands of California hairgrass, purple needlegrass, and California brome undulate across the hillsides as coastal breezes sweep in from the Estero. Some notable native wildflowers also found in the spring include bulbs, such as ground brodiaea, blue-eyed grass, and Ithuriel’s spear, and forbs, such as California acaena, lupine, and a multitude of clovers.
ACKNOWLEDGEMENTS

Many individuals contributed to the success of the grassland monitoring project and herbarium book. Special thanks go to Dr. Caroline Christian of Sonoma State University whose vision and guidance made these efforts possible. Dr. Christian authored the monitoring plan and continues to provide direction for its implementation. Gold Ridge Resource Conservation District generously supported the development of the grazing management and grassland monitoring plans, and RCD staff Noelle Johnson, Brittany Heck, and Sierra Cantor assisted with data and plant specimen collection. Liz Parsons and Michael Hogan of the CNPS Milo Baker Chapter helped identify plant species during the 2009 monitoring and Peter Warner, botanical consultant, identified specimens in 2010 and verified all of the samples within the herbarium. Sonoma State University interns Karissa Westphal and Tammie Lindstrom and volunteer April Owens spent many hours preparing the plant specimens for this book. The monitoring project and herbarium book effort was coordinated by Shanti Wright, Sonoma Land Trust’s Stewardship Project Manager for the Estero Americano Preserve.

The herbarium book introduction was prepared by Dr. Caroline Christian, faculty with the Environmental Studies and Planning Department at Sonoma State University, in collaboration with Shanti Wright. The herbarium book is a work in progress that will expand over time. For updates to this document, or for additional information about vegetation management activities occurring at the Estero Americano Preserve, please contact Sonoma Land Trust at: (707) 526-6930 or visit www.sonomalandtrust.org.
Legend
- Property Boundary
- Study Points
- 40 ft contours


Vegetation Monitoring Plots

Estero Americano Preserve
## ESTERO AMERICANO PRESERVE PLANT LIST


Plant list additions and Jepson name changes provided by Peter Warner, 2010.

<table>
<thead>
<tr>
<th>GROUP</th>
<th>FAMILY</th>
<th>SCIENTIFIC NAME</th>
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<td>Koeleria macrantha</td>
<td>Junegrass</td>
<td>yes</td>
<td>136</td>
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<td>Lolium multiflorum</td>
<td>Italian ryegrass</td>
<td>no</td>
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<td>Lolium perenne</td>
<td>perennial ryegrass</td>
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<td>Nassella lepida</td>
<td>foothill needlegrass</td>
<td>yes</td>
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<td>Nassella pulchra</td>
<td>purple needlegrass</td>
<td>yes</td>
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<td>Poa annua</td>
<td>annual bluegrass</td>
<td>no</td>
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<td>Poa pratensis ssp. pratensis</td>
<td>Kentucky bluegrass</td>
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<td>Polypogon monspeliensis</td>
<td>annual beard grass</td>
<td>no</td>
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<td>hairy oatgrass</td>
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<td>Schedonorus arundinaceus</td>
<td>tall fescue</td>
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<td>Medusahead</td>
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<td>six-week's fescue</td>
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<td>Themidaceae</td>
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<td>Brodiaea terrestris ssp. terrestris</td>
<td>ground brodiaea</td>
<td>Liliaceae, yes</td>
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<td>Triteleia laxa</td>
<td>Ihurie's spear</td>
<td>Liliaceae, yes</td>
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FAMILY
Blechnaceae

SCIENTIFIC NAME
Woodwardia fimbriata

COMMON NAME
giant chain fern

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 27, 2010
FAMILY
Dennstaedtiaceae

SCIENTIFIC NAME
Pteridium aquilinum

COMMON NAME
bracken

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
<table>
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<tr>
<td>SCIENTIFIC NAME</td>
<td>Polystichum munitum</td>
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<td>COMMON NAME</td>
<td>western sword fern</td>
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<td>COLLECTION DATE</td>
<td>End of May–Early June 2009</td>
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FAMILY
Equisetaceae

SCIENTIFIC NAME
Equisetum telmateia
ssp. Braunii

COMMON NAME
giant horsetail

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 2010
FAMILY
Woodsiaceae

SCIENTIFIC NAME
Athyrium filix-femina
var. cylosorum

COMMON NAME
common lady fern

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 2010
FAMILY
Apiaceae

SCIENTIFIC NAME
Conium maculatum

COMMON NAME
poison hemlock

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Apiaceae

SCIENTIFIC NAME
Daucus pusillus

COMMON NAME
rattlesnake weed

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May–Early June 2009
<table>
<thead>
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<th>FAMILY</th>
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<tr>
<td>SCIENTIFIC NAME</td>
<td>Eryngium armatum</td>
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<td>armed coyote thistle</td>
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<td>COLLECTION DATE</td>
<td>July 27, 2010</td>
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FAMILY
Apiaceae

SCIENTIFIC NAME
Lomatium utriculatum

COMMON NAME
spring gold lomatium

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2010
FAMILY
Asteraceae

SCIENTIFIC NAME
Achillea millefolium

COMMON NAME
yarrow

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May–Early June 2009
FAMILY
Asteraceae

SCIENTIFIC NAME
Atremisia douglasiana

COMMON NAME
Douglas's mugwort

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 2010
<table>
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<tr>
<td>SCIENTIFIC NAME</td>
<td>Bellis perennis</td>
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<td>End of May-Early June 2009</td>
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FAMILY
Asteraceae

SCIENTIFIC NAME
Carduus pycnocephalus

COMMON NAME
Italian thistle

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May- Early June 2009
FAMILY
Asteraceae

SCIENTIFIC NAME
Cirsium quercetorum

COMMON NAME
brownie thistle

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Asteraceae

SCIENTIFIC NAME
Cirsium vulgare

COMMON NAME
bull thistle

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Asteraceae

SCIENTIFIC NAME
Cotula coronopifolia

COMMON NAME
brass buttons

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 27, 2010
<table>
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<th>FAMILY</th>
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<td>SCIENTIFIC NAME</td>
<td><em>Ganchoeta purpurea</em></td>
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<tr>
<td>SCIENTIFIC NAME</td>
<td><em>Grindelia stricta</em></td>
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<td>COMMON NAME</td>
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<tr>
<td>SCIENTIFIC NAME</td>
<td><em>Helium puberulum</em></td>
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<td>COMMON NAME</td>
<td>sneeze-weed</td>
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<td>COLLECTION DATE</td>
<td>July 27, 2010</td>
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FAMILY
Asteraceae

SCIENTIFIC NAME
Hypochaeris radicata

COMMON NAME
rough cat’s ear

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
May–Early June 2009
FAMILY
Asteraceae

SCIENTIFIC NAME
Jaumea carnosa

COMMON NAME
marsh jaumea

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 27, 2010
FAMILY
Asteraceae

SCIENTIFIC NAME
Madia gracilis

COMMON NAME
slender tarweed
grassy tarweed
NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 2010
<table>
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<th>FAMILY</th>
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<tr>
<td>SCIENTIFIC NAME</td>
<td><em>Madia sativa</em></td>
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<td>Estero Americano Preserve</td>
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<td>COLLECTION DATE</td>
<td>July 2010</td>
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FAMILY
Asteraceae

SCIENTIFIC NAME
Matricaria matricarioides

COMMON NAME
pineapple weed

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Asteraceae

SCIENTIFIC NAME
Microseris bigelovii

COMMON NAME
silver puffs

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Asteraceae

SCIENTIFIC NAME
Pseudognaphalium ramosissimum

COMMON NAME
pink cudweed

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 27, 2010
FAMILY
Boraginaceae

SCIENTIFIC NAME
Heliotropium curassavicum

COMMON NAME
salt heliotrope

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 2010
FAMILY
Boraginaceae

SCIENTIFIC NAME
Myosotis discolor

COMMON NAME
changing forget-me-not

NATIVE
no

LOCATION
Esteros Americanos Preserve

COLLECTION DATE
End of May-Early June 2010
FAMILY
Brassicaceae

SCIENTIFIC NAME
Nasturtium officinale

COMMON NAME
watercress

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 2010
FAMILY
Caprifoliaceae

SCIENTIFIC NAME
symphoricarpos albus
var. laevigatus

COMMON NAME
common snowberry

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 2010
FAMILY
Caryophyllaceae

SCIENTIFIC NAME
Silene gallica

COMMON NAME
windmill pink

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May–Early June 2009
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<td>July 2010</td>
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FAMILY
Chenopodiaceae

SCIENTIFIC NAME
Atriplex triangularis

COMMON NAME
fat hen

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 27, 2010
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<td><strong>SCIENTIFIC NAME</strong></td>
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FAMILY
Convulaceae

SCIENTIFIC NAME
Calystegia subacaulis

COMMON NAME
cost range false bindweed

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Convolvulaceae

SCIENTIFIC NAME
Convolvulus arvensis

COMMON NAME
bindweed

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Crassulaceae

SCIENTIFIC NAME
Dudleya farinosa

COMMON NAME
powdery live-forever

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 2010
FAMILY
Cucurbitaceae

SCIENTIFIC NAME
Marah oreganus

COMMON NAME
coast man-root

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Fabaceae

SCIENTIFIC NAME
Acmispon parviflorus

COMMON NAME
miniature lotus

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 2010
FAMILY
Fabaceae

SCIENTIFIC NAME
Anisopon americanus

COMMON NAME
Pursh's lotus

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July, 2010
FAMILY
Fabaceae

SCIENTIFIC NAME
Hosackia gracilis

COMMON NAME
harlequin lotus

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2010
FAMILY
Fabaceae

SCIENTIFIC NAME
*Lathyrus hirsutus*

COMMON NAME
Caley pea

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 2010
FAMILY
Fabaceae

SCIENTIFIC NAME
*Lotus angustissimus*

COMMON NAME
slender lotus

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May–Early June 2010
<table>
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FAMILY
Fabaceae

SCIENTIFIC NAME
Lupinus bicolor

COMMON NAME
miniature lupine

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Fabaceae

SCIENTIFIC NAME
Lupinus varicolor

COMMON NAME
varied lupine

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
May 26, 2010
FAMILY
Fabaceae

SCIENTIFIC NAME
Trifolium dubium

COMMON NAME
little hop clover

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Fabaceae

SCIENTIFIC NAME
Trifolium macrasi

COMMON NAME
Macrae's clover

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2010
FAMILY
Fabaceae

SCIENTIFIC NAME
Trifolium subterraneum

COMMON NAME
subterranean clover

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Fabaceae

SCIENTIFIC NAME
Trifolium striatum

COMMON NAME
knotted clover

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2010
FAMILY
Fabaceae

SCIENTIFIC NAME
Trifolium wormskieldii

COMMON NAME
cow clover

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 27, 2010
FAMILY
Fabaceae

SCIENTIFIC NAME
Vicia hirsuta

COMMON NAME
tiny purple vetch
hirshute vetch

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2010
FAMILY
Fabaceae

SCIENTIFIC NAME
Vicia sativa

COMMON NAME
vetch

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Fabaceae

SCIENTIFIC NAME
Vicia tetrasperma

COMMON NAME
lentil vetch

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 2010
FAMILY
Frankeniaceae

SCIENTIFIC NAME
Frankenia salina

COMMON NAME
alkali seaheath

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 27, 2010
FAMILY  
Gentianaceae  

SCIENTIFIC NAME  
Zeltinera muehlenbergii  

COMMON NAME  
Muhlenberg's centaury  

NATIVE  
yes  

LOCATION  
Estero Americano Preserve  

COLLECTION DATE  
July 27, 2010
FAMILY
Geraniaceae

SCIENTIFIC NAME
Geranium dissectum

COMMON NAME
cutleaf geranium

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May–Early June 2009
FAMILY
Grossulariaceae

SCIENTIFIC NAME
Ribes divaricatum

COMMON NAME
cost black gooseberry

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 2010
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<tr>
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</table>
FAMILY
Lamiaceae

SCIENTIFIC NAME
Stachys rigida var. rigida

COMMON NAME
rigid hedge-nettle

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May–Early June 2009
FAMILY
Linaceae

SCIENTIFIC NAME
Linum bienne

COMMON NAME
pale flax

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Myricaceae

SCIENTIFIC NAME
Morella californica

COMMON NAME
Caliòmia wax-myrtle

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 27, 2010
FAMILY
Onagraceae

SCIENTIFIC NAME
Clarkia amoena

COMMON NAME
l'arewell-to-spring

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 27, 2010
FAMILY
Onagraceae

SCIENTIFIC NAME
Epilobium ciliatum

COMMON NAME
fringed willowherb

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 27, 2010
FAMILY
Papaveraceae

SCIENTIFIC NAME
Eschscholzia californica

COMMON NAME
California poppy

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Phrymaceae

SCIENTIFIC NAME
Mimulus aurantiacus

COMMON NAME
sticky bush monkeyflower

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May–Early June 2009
FAMILY
Phrymaceae

SCIENTIFIC NAME
Mimulus guttatus

COMMON NAME
common monkeyflower

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 27, 2010
FAMILY
Papaveraceae

SCIENTIFIC NAME
Plantago erecta

COMMON NAME
California plantain

NATIVE
yes

LOCATION
Estero Americano Preserve

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FAMILY
Plantaginaceae

SCIENTIFIC NAME
Plantago subnuda

COMMON NAME
tall coastal plantain

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 2010
FAMILY
Plantaginaceae

SCIENTIFIC NAME
Veronica americana

COMMON NAME
American speedwell

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 27, 2010
FAMILY
Polygonaceae

SCIENTIFIC NAME
Eriogonum latifolium

COMMON NAME
coast buckwheat

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
<table>
<thead>
<tr>
<th>FAMILY</th>
<th>Polygonaceae</th>
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<tbody>
<tr>
<td>SCIENTIFIC NAME</td>
<td><em>Rumex acetosella</em></td>
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<td>COMMON NAME</td>
<td>sheep sorrel</td>
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<td>End of May-Early June 2009</td>
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FAMILY
Polygonaceae

SCIENTIFIC NAME
Rumex pulcher

COMMON NAME
fiddle dock

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Polygonaceae

SCIENTIFIC NAME
Rumex conglomeratus

COMMON NAME
clustered dock

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 2010
FAMILY
Ranunculaceae

SCIENTIFIC NAME
Ranunculus californicus

COMMON NAME
california buttercup

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May–Early June 2010
<table>
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<th>FAMILY</th>
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<tbody>
<tr>
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<td><strong>SCIENTIFIC NAME</strong></td>
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FAMILY
Rosaceae

SCIENTIFIC NAME
Physocarpus capitatus

COMMON NAME
ninebark

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 27, 2010
FAMILY
Rosaceae

SCIENTIFIC NAME
Potentilla anserina ssp. pacifica

COMMON NAME
silverweed cirquefoil

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2010
FAMILY
Rosaceae

SCIENTIFIC NAME
Rubus ursinus

COMMON NAME
California blackberry

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Rubiaceae

SCIENTIFIC NAME
Sherardia arvensis

COMMON NAME
field madder

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Scrophulariaceae

SCIENTIFIC NAME
Scrophularia californica

COMMON NAME
bee plant

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
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FAMILY
Agavaceae

SCIENTIFIC NAME
Chlorogalum pomeridianum

COMMON NAME
soap plant

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Cyperaceae

SCIENTIFIC NAME
Carex barbara

COMMON NAME
Santa Barbara sedge

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Cyperaceae

SCIENTIFIC NAME
Carex densa

COMMON NAME
dense sedge

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
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<table>
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<td>Carex gymnoida</td>
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<td>SCIENTIFIC NAME</td>
<td>Carex obturata</td>
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<td>COMMON NAME</td>
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<tr>
<td>SCIENTIFIC NAME</td>
<td>Carex subbracteata</td>
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FAMILY
Cyperaceae

SCIENTIFIC NAME
Carex tumulicola

COMMON NAME
foothill sedge

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Iridaceae

SCIENTIFIC NAME
Iris douglasiana

COMMON NAME
douglas's iris

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Iridaceae

SCIENTIFIC NAME
Sisyrinchium bellum

COMMON NAME
blue-eyed grass

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 27, 2010
FAMILY
Juncaceae

SCIENTIFIC NAME
Juncus bufonius

COMMON NAME
toad rush

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May–Early June 2010
FAMILY
Juncaceae

SCIENTIFIC NAME
Juncus effusus var. bimneus

COMMON NAME
soft rush

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
**FAMILY**
Juncaceae

**SCIENTIFIC NAME**
*Juncus occidentalis*

**COMMON NAME**
western rush

**NATIVE**
yes

**LOCATION**
Estero Americano Preserve

**COLLECTION DATE**
FAMILY
Juncaceae

SCIENTIFIC NAME
Juncus patens

COMMON NAME
spreading rush

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 27, 2010
<table>
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<th>FAMILY</th>
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<tr>
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</table>
FAMILY
Juncaceae

SCIENTIFIC NAME
Luzula comosa

COMMON NAME
hairy wood rush

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Poaceae

SCIENTIFIC NAME
Agrósis gigantea

COMMON NAME
retdop bentgrass

NATIVE
no

LOCATION
Esteró Americano Preserve

COLLECTION DATE
July 27, 2010
FAMILY
Poaceae

SCIENTIFIC NAME
Agrostis sp.

COMMON NAME
Hall's bentgrass

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2010
<table>
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<tr>
<th>FAMILY</th>
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FAMILY
Poaceae

SCIENTIFIC NAME
Anthoxanthum odoratum

COMMON NAME
sweet vernal grass

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2010
FAMILY
Poaceae

SCIENTIFIC NAME
Avena barbata

COMMON NAME
slender wild oat

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
FAMILY
Poaceae

SCIENTIFIC NAME
Brachypodium distachyon

COMMON NAME
false brome

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Poaceae

SCIENTIFIC NAME
Briza maxima

COMMON NAME
rattlesnake grass

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Poaceae

SCIENTIFIC NAME
Briza minor

COMMON NAME
little quaking grass

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Poaceae

SCIENTIFIC NAME
Bromus carinatus var. carinatus

COMMON NAME
California brome

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 27, 2010
FAMILY
Poaceae

SCIENTIFIC NAME
Bromus diandrus

COMMON NAME
rip gut brome

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Poaceae

SCIENTIFIC NAME
Bromus hordeaceus

COMMON NAME
soft chess

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May–Early June 2009
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<th>FAMILY</th>
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<tr>
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FAMILY
Poaceae

SCIENTIFIC NAME
Dactylis glomerata

COMMON NAME
orchard grass

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Poaceae

SCIENTIFIC NAME
Danthonia californica var. californica

COMMON NAME
california oatgrass

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Poaceae

SCIENTIFIC NAME
Deschampsia cespitosa ssp. cespitosa

COMMON NAME
tufted hairgrass

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May–Early June 2009
FAMILY
Poaceae

SCIENTIFIC NAME
Distichlis spicata

COMMON NAME
saltgrass

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 2010
FAMILY
Poaceae

SCIENTIFIC NAME
Elymus glaucus ssp. glaucus

COMMON NAME
blue wildrye

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Poaceae

SCIENTIFIC NAME
Ehrharta erecta

COMMON NAME
panic veldtgrass

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 27, 2010
FAMILY
Poaceae

SCIENTIFIC NAME
Holcus lanatus

COMMON NAME
velvet grass

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
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FAMILY
Poaceae

SCIENTIFIC NAME
 Hordeum brachyantherum

COMMON NAME
 meadow barley

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May–Early June 2010
FAMILY
Poaceae

SCIENTIFIC NAME
Hordeum marinum ssp. gussoneanum

COMMON NAME
barley

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
FAMILY
Poaceae

SCIENTIFIC NAME
Hordeum murinum

COMMON NAME
mouse barley

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Poaceae

SCIENTIFIC NAME
Koeleria macrantha

COMMON NAME
junegrass

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2010
FAMILY
Poaceae

SCIENTIFIC NAME
Lolium perenne

COMMON NAME
perennial ryegrass

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY  
Poaceae

SCIENTIFIC NAME  
Nassella pulchra

COMMON NAME  
purple needlegrass

NATIVE  
yes

LOCATION  
Estero Americano Preserve

COLLECTION DATE  
End of May-Early June 2010
FAMILY
Poaceae

SCIENTIFIC NAME
Poa pratensis ssp. pratensis

COMMON NAME
Kentucky bluegrass

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Poaceae

SCIENTIFIC NAME
Polypogon monspeliensis

COMMON NAME
annual beardgrass

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
July 2010
FAMILY
Poaceae

SCIENTIFIC NAME
Rytdosperma penicillatum

COMMON NAME
hairy oatgrass

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2010
FAMILY
Poaceae

SCIENTIFIC NAME
Rytiodesperma penicillatum

COMMON NAME
hairy oatgrass

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2010
FAMILY
Poaceae

SCIENTIFIC NAME
Vulpia bromoides

COMMON NAME
six-week's fescue

NATIVE
no

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
FAMILY
Themidaceae

SCIENTIFIC NAME
Brodiaea terrestris ssp. terrestris

COMMON NAME
ground brodiaea

NATIVE
yes

LOCATION
Estero Americano Preserve

COLLECTION DATE
End of May-Early June 2009
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