



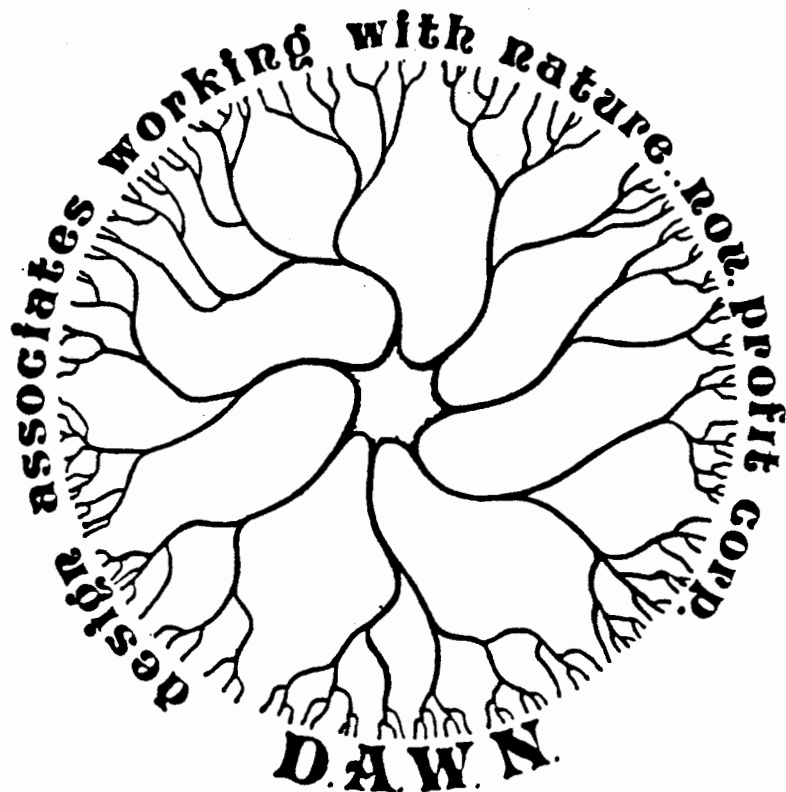
Stipa pulchra

DAWN



Design Associates Working with Nature

a non-profit corporation



We educate the general public on the ecological and recreational value of natural eco-systems and the evolutionary process of land regeneration.

We encourage the protection of and increased contact with native plants, birds and marine communities.

We promote park planting and development to allow for complete habitats.

We encourage the development and regeneration of land into urban parks which provide open space to meet all community recreational needs.

DAWN



DESIGN ASSOCIATES WORKING WITH NATURE

DAWN is a non-profit corporation dedicated to ecological restoration and management of California native plant communities. DAWN's strength lies in its capability of carrying projects from conception through planning and implementation. Services available include:

- * advance-project consultation
- * project planning and consultation
- * production of native plants
- * collection of seed
- * establishment and maintenance of native plant communities
- * reduction of exotic species on wildlands
- * integrated weed management
- * monitoring and evaluation

DAWN's clients include city, regional and state agencies and community groups. Our approach has been successful in both urban parks and wildland settings. The scope of our work has varied from small landscaping beds to over 150 acres with projects lasting from 1 month to 3 years.

The DAWN staff has expertise in ecology (range management, plant ecology, soils), landscaping (design, planning and contracting), horticulture and community involvement. These talents are combined on projects in an innovative approach to vegetation restoration and management. Our restoration approach utilizes a combination of landscaping and ecological management techniques to create environmental conditions and simulate ecological processes that foster the establishment and growth of the native community. At the same time competition is reduced from non-native species: a stable, low-maintenance plant community is the end product.



PLANNING AND CONSULTATION

DAWN's integrated management programs begin with planning and consultation. DAWN has developed vegetation management plans for such purposes as revegetation, restoration of original plant communities, grazing management, erosion control, and reduction of exotic species. The staff has planning and consultation expertise in the following areas:

- * advance project consultation
- * site analysis
- * seed collection methods
- * propagation techniques of native plant materials,
including liner production of native grasses
- * seed collection and plant production timetables
- * site preparation specifications
- * planting, irrigation and plant protection specifications
- * maintenance techniques and scheduling
- * enhancement of rare plants or native communities
through reduction of exotics
- * project phasing for successional planting schemes
- * experimental design, monitoring and evaluation programs

Representative Projects:

- * Controlling Purple Star Thistle and Artichoke Thistle on
East Bay Municipal Utility District Land, A Management Plan,
EBMUD
- * The Use of California Native Plants in the Planning and
Design Process on Maintained Landscapes of East Bay
Regional Parks District Lands, Consultation, EBRPD
- * Revision of East Bay Regional Park District Maintenance
Handbook, Project Coordination, EBRPD
- * Plan for Codornices Park Creekside Project, City of Berkeley



PLANT PRODUCTION AND SEED COLLECTION

DAWN has two plant production facilities which specialize in growing central California coastal native plants. The nursery at the Berkeley Waterfront has small quantities of many species in stock, while the facility at Caspar is a restoration and research facility. Over 150 species of native plants have been produced and field tested in staff projects. This includes most of the dominant species of the coastal plant communities, many of which are not commercially available. DAWN has one of the few production facilities that grow native grasses in quantity.

Large quantities require advance orders. Short liners of native grasses suitable for outplanting can be produced from seed in 6-8 weeks. A typical large-scale production or special order contract is filled in 4 months or less if seed is available. A list of species grown at DAWN's nursery is available, formatted by either plant communities or by horticultural types (i.e., deciduous trees).

DAWN has an established seed collection program throughout coastal central California and also contracts for on-site seed collection. Special orders for seed must be requested prior to the collecting period of May to October.

Projects for which DAWN has produced plants:

- * North Waterfront Park, Phase I, City of Berkeley
- * Berkeley Marina, City of Berkeley
- * Alameda Beach, East Bay Regional Park District
- * Codornices Park, City of Berkeley

Seed Collection Projects:

- * Bodega Head Restoration Project, State Department of Parks and Recreation
- * Berkeley Hills and the East Bay, City of Berkeley



PLANTING AND MANAGEMENT

One of DAWN's unique contributions to restoration is its extensive expertise in implementing plans, either its own or those developed by agencies and community groups. DAWN has a skilled labor force capable of performing quality planting, site preparation and maintenance services. DAWN has also contracted for several habitat enhancement and target pest removal projects. The results of monitoring and project evaluation are available in DAWN publications and articles.

Representative Projects:

- * Native Plant Restoration Project, Phase I, North Waterfront Park, City of Berkeley
- * Controlling Purple Star Thistle and Artichoke Thistle, Projects on EBRPD (1981-1985) and EBMUD (1985) Lands
- * Gorse Control at Jughandle State Reserve, Resource Restoration and Improvement, State Department of Parks and Recreation
- * Eucalyptus Removal for Oak/Bay Woodland Succession, EBRPD
- * Mariposa Lily Habitat Enhancement Program, EBRPD
- * Codornices Park Creekside Restoration Project, City of Berkeley
- * The Alameda Manzanita (Arctostaphylos pallida) Recovery Program, East Bay Regional Parks Department and CA State Dept. Fish and Game, Endangered Species Program



EDUCATION AND RESEARCH

As a non-profit organization, DAWN incorporates educational and research components into projects and offers membership to both interested public and professionals. An active Board sets policies and confers with the staff.

DAWN's educational program provides information to members, the public, technicians and professionals. A wide variety of educational activities are offered to the public, including field trips to restoration sites and classes and workshops on native plant horticulture and plant identification.

Training programs on native plant horticulture and on-site restoration and implementation (installation, type conversion, maintenance and pest plant control) involve both college interns and conservation crews.

Research programs conducted by the staff include native plant horticultural techniques, perennial grassland establishment and experimental methods for target pest plant control.

The following publications and project reports may be ordered through DAWN:

- * Controlling Purple Star Thistle, A Case Study, David Amme (5pp)
- * Nursery Production of Western Native Perennial Grasses,
David Amme (7pp)
- * Flora of the Berkeley Dump, Mark Blumler and David Amme (7pp)
- * Closing the Circle, David Kaplow (4pp)
- * Coastal Ecology Restoration on Landfill, David Kaplow (5pp)
- * A Guide to the Native Plants of the Berkeley North Waterfront Park, David Kaplow (17pp)

NATIVE PLANTS FOR COASTAL LANDSCAPES

The following list of plants grown by DAWN is arranged according to form and/or landscape use. A list of these same species is also available by native plant community.

DECIDUOUS TREES

Acer macrophyllum -- Big-Leaf Maple
Aesculus californica -- California Buckeye
Alnus oregona -- Red Alder
Alnus rhombifolia -- White Alder
Populus fremontii -- Fremont Cottonwood
Populus trichocarpa -- Black Cottonwood
Quercus douglasii -- Blue Oak
Quercus lobata -- Valley Oak
Salix scouleriana -- Scouler's Willow
Sambucus caerulea -- Elderberry

EVERGREEN TREES

Abies grandis -- Grand Fir
Arbutus menziesii -- Madrone
Cupressus abramsii -- Santa Cruz Cypress
Cupressus goveniana -- Gowen Cypress
Cupressus guadalupensis -- Guadalupe Cypress
Cupressus macrocarpa -- Monterey Cypress
Cupressus pygmaea -- Pygmy Cypress
Limonanthus floribundus asplenifolius -- Catalina Ironwood
Picea sitchensis -- Sitka Spruce
Pinus contorta -- Shore Pine
Pinus muricata -- Bishop Pine
Pinus radiata -- Monterey Pine
Pinus torreyana -- Torrey Pine
Quercus agrifolia -- Coast Live Oak
Umbellularia californica -- California Bay

VINES

Clematis lasiantha -- Clematis, Virginia-Bover
Eriophyllum staechidifolium -- Eriophyllum
Galvezia speciosa -- Island Snapdragon
Lonicera involucrata -- Honeysuckle

MEDIUM TO TALL SHRUBS

Arctostaphylos bakeri -- Manzanita
Arctostaphylos columbiana -- Hairy Manzanita
Arctostaphylos crumacea -- Brittleleaf Manzanita
Arctostaphylos pallida -- Alameda Manzanita
Artemisia californica -- California Sagebrush
Atriplex canescens -- Saltbush
Atriplex lentiformis ssp. *Breweri* -- Saltbush
Baccharis pilularis consanguinea -- Coyote Bush
Carpenteria californica -- Tree Anemone
Ceanothus mexicanus -- California Lilac
Ceanothus papillosus -- California Lilac
Ceanothus sorediatus -- Jim Brush
Ceanothus thyrsiflorus -- Blue Brush
Diplacis aurantiacus -- Monkeyflower
Eriogonum giganteum -- St. Catherine's Lace
Garrya elliptica -- Silktassel
Haplopappus ericoides -- Haplopappus
Heteromeles arbutifolia -- Toyon
Isomeris arborea -- Bladderpod
Lavatera assurgentiflora -- Tree Mallow
Lupinus albiifrons -- Lupine
Lupinus arboreus -- Lupine
Lupinus varicolor -- Lupine
Mahonia aquifolium -- Oregon Grape
Myrica californica -- Wax-Myrtle
Prunus ilicifolia -- Holly-Leaved Cherry
Prunus lyonii -- Catalina Cherry
Rhamnus californica -- Coffeeberry
Rhamnus tocea -- Redberry
Rhus integrifolia -- Lemonadeberry
Rhus ovata -- Sugar Bush
Ribes aureum -- Golden Currant
Ribes sanguineum var. *glutinatum* -- Currant
Rosa californica -- Rose
Salvia cleavelandii -- Sage
Salvia leucophylla -- Sage
Salvia mellifera -- Black Sage
Sambucus callicarpus -- Red Elderberry
Vaccinium ovatum -- Huckleberry
Xylococcus bicolor -- Mylococcus

LOW SHRUBS AND SUBSHRUBS

Arctostaphylos hookeri var. *franciscana* -- Manzanita
Arctostaphylos andersonii var. *imbricata* -- Heartleaf Manzanita
Arctostaphylos nummularis -- Ft. Bragg Manzanita
Arctostaphylos ravenii -- Manzanita
Artemisia pycnocephala -- Dune Sagebrush
Coreopsis gigantea -- Coreopsis
Corethrobyne californica -- Beach Aster
Corethrobyne filaginifolia -- Beach Aster
Eriogonum arborescens -- Santa Cruz Island Buckwheat
Eriogonum fasciculatum -- California Buckwheat
Eriogonum parvifolium -- Wild Buckwheat
Eriophyllum staechidifolium var. *artemisiaefolium* -- Eriophyllum
Franseria chamissonis -- Ambrosia
Franseria chamissonis ssp. *bipinnatisecta* -- Ambrosia
Gaultheria shallon -- Salal
Grindelia maritima -- Gum Plant
Haplopappus venetus var. *sedoides* -- Haplopeppus
Lotus scoparius -- Bird's Foot Trefoil
Lupinus littoralis -- Lupine
Lupinus varicolor -- Lupine
Lupinus versicolor -- Lupine
Physocarpus capitatus -- Ninebark
Salvia leucophylla -- Purple Sage

GROUNDCOVERS

Arctostaphylos uva-ursi -- Bearberry
Artemisia californica prostrata -- Sagebrush
Astragalus nuttallii -- Locoweed
Astragalus nuttallii var. *virgata* -- Locoweed
Baccaris pilularis pilularis -- Prostrate Coyote Bush
Ceanothus gloriosus -- Point Reyes Ceanothus
Ceanothus griseus var. *horizontalis* -- California Lilac
Dudleya farinosa -- Live Forever
Fragaria californica -- Strawberry
Fragaria chiloensis -- Beach Strawberry
Grindelia stricta -- Gum Plant
Juniperus communis var. *serotilis* -- Dwarf Juniper
Mesembryanthemum chilense -- Sea Fig
Rubus vitifolius -- California Blackberry

PERENNIAL GRASSES, RUSHES AND SEDGES

Agropyron spicatum -- Wheat Grass
Aristida ballii -- Bent Grass
Bromus carinatus -- Brome
Bromus maritimus -- Brome
Carex brevicaulis -- Sand Reed Grass
Danthonia californica -- California Oat Grass
Deschampsia caespitosa -- Tufted Hair Grass
Deschampsia holciformis -- Hairgrass
Eleocharis acicularis -- Spike Rush
Elymus condensatus -- Rye Grass
Elymus glaucus -- Rye Grass
Elymus mollis -- Rye Grass
Elymus pacificus -- Rye Grass
Elymus triticoides -- Rye Grass
Elymus vancoverensis -- Rye Grass
Festuca californica -- California Fescue
Festuca tenuis -- Fescue
Festuca idahoensis -- Fescue
Festuca rubra -- California Red Fescue
Hordeum brachyantherum -- Meadow Barley
Hordeum californicum -- Coastal Meadow Barley
Koeleria cristata -- June Grass
Melica californica -- Melic Grass
Muhlenbergia rigens -- Deergrass
Poa confinis -- Bluegrass
Poa douglasii ssp. *macrantha* -- Bluegrass
Poa scabrifolia -- Bluegrass
Poa unilaterialis -- Bluegrass
Phalaris californica -- Canary Grass
Stipa lepidota -- Needle Grass
Stipa pulchra -- Purple Needle Grass

ANNUAL BORDERS

Clarkia purpurea -- Clarkia
Clarkia unguicularis -- Clarkia
Echolzalia californica -- California Poppy
Lupinus nanus ssp. *latifolius* -- Lupine
Lupinus succulentus -- Lupine

PERENNIALS FOR TALL BORDERS OR EFFECT

Artemisia douglasiana -- Sagebrush
Aster subspicatus -- Aster
Coreopsis maritima -- Coreopsis
Eriogonum glaucum -- St. Catherine's Lace
Eriogonum latifolium ssp. *auriculatum* -- Wild Buckwheat
Eriogonum nudum -- Wild Buckwheat
Eriogonum tubescens -- Wild Buckwheat
Eriophyllum lanatum -- Eriophyllum
Grindelia humilis -- Gum Plant
Grindelia latifolia -- Gum Plant
Grindelia latifolia ssp. *platyphylla* -- Gum Plant
Haplopappus dentatus -- Haplopappus
Heracleum lanatum -- Cow Parsnip
Iris douglasiana -- Douglas Iris
Iris longipetala -- Iris
Oenothera hookeri -- Evening Primrose
Parideridia kelloggii -- Yampa
Salvia anaiana -- White Sage
Salvia sarracena -- Pitcher Sage
Scrophularia californica -- California Bee Plant

PERENNIALS FOR LOW OR MEDIUM BORDERS

Acena californica -- Acena
Achillea borealis ssp. *arenicola* -- Yarrow
Achillea borealis ssp. *californica* -- Yarrow
Anaphalis margaritacea -- Pearly Everlasting
Artemisia maritima var. *californica* -- Thrift
Artemisia sudsorffii -- North Coastal Sagebrush
Cardionema ramosissimum -- Cardionema
Chrysoopsis villosa -- Golden Aster
Dentaria californica var. *integrifolia* -- Toothwort
Eriogonum glaucum -- Seaside Daisy
Eriogonum latifolium -- Wild Buckwheat
Erysimum concinnum -- Wallflower
Erysimum franciscanum -- Franciscan Wallflower
Echacholzia californica -- California Poppy (maritime form)
Gentiana oregona -- Oregon Gentian
Gnaphalium ramosissimum -- Everlasting
Grindelia hirsutula -- Gum Plant
Mimulus guttatus -- Monkeyflower
Phacelia bolanderi -- Phacelia
Phacelia californica -- Phacelia
Ranunculus californicus -- Buttercup
Sidalcea malvaeflora -- Checker
Sisyrinchium bellum -- Blue-eyed Grass
Sisyrinchium californicum -- Golden-eyed Grass
Solidago spathulata -- Goldenrod
Tanacetum samohoratum -- Dune Tansy
Wyethia anemifolia -- Mules Ear
Zauschneria californica -- California Fuschia

ROCK GARDEN OR DUNE PERENNIALS

Dudleya farinosa -- Live Forever, Bluff Lettuce
Eriogonum umbellatum -- Wild Buckwheat
Horkelia californica -- Horkelia
Horkelia cuneata -- Horkelia
Horkelia cuneata ssp. *sericea* -- Horkelia
Oenothera cheiranthifolia -- Evening Primrose
Poligonum paronychia -- Knotweed
Sedum spathulifolium var. *pruinatum* -- Stoncrop

NATIVE PLANTS OF CALIFORNIA COASTAL COMMUNITIES

DAWN has grown the following native plants, many of which are currently available at the nursery. Some of the species on this list and other species of coastal communities can be contract grown. The common names of these species are provided in the plant list arranged by life form and landscape use.

COASTAL STRAND

| <u>Perennials</u> | <u>Shrubs</u> | <u>Trees</u> |
|-----------------------------------|--|---------------------------------|
| <i>Acaena californica</i> | <i>Arctostaphylos uva-ursi</i> | <i>Picea sitchensis</i> |
| <i>Achillea b. arenicola</i> | <i>Artemesia californica</i> | <i>Umbellularia californica</i> |
| <i>Anaphalis margaritacea</i> | <i>Artemesia pycnocephala*</i> | |
| <i>Armeria m. californica</i> | <i>Astragalus nuttallii</i> | |
| <i>Bromus maritimus</i> | <i>Astragalus n. virgata</i> | |
| <i>Cardionema ramosissimum</i> | <i>Atriplex canescens</i> | |
| <i>Coreopsis maritima</i> | <i>Atriplex l. breweri</i> | |
| <i>Elymus mollis</i> | <i>Baccharis p. pilularis</i> | |
| <i>Elymus pacificus</i> | <i>Ceanothus gloriosus</i> | |
| <i>Elymus vancouverensis</i> | <i>Coreopsis gigantea</i> | |
| <i>Erigeron glaucus</i> | <i>Corethrogyne filaginifolia</i> | |
| <i>Eriogonum latifolium</i> | <i>Eriophyllum s. artemisiaefolium</i> | |
| <i>Eriogonum l. auriculatum</i> | <i>Franseria chamissonis*</i> | |
| <i>Eriogonum nudum</i> | <i>Happlopappus eriocoides*</i> | |
| <i>Eschscholzia californica</i> | <i>Happlopappus v. sedoides</i> | |
| <i>Fragaria chiloensis*</i> | <i>Lotus scoparius</i> | |
| <i>Gnaphalium ramosissimum</i> | <i>Lupinus arboreus*</i> | |
| <i>Grindelia latifolia</i> | <i>Lupinus littoralis</i> | |
| <i>Grindelia l. platyphylla</i> | <i>Lupinus variicolor</i> | |
| <i>Grindelia stricta</i> | <i>Lupinus versicolor</i> | |
| <i>Horkelia cuneata</i> | <i>Rhamnus californica</i> | |
| <i>Horkelia c. sericea</i> | <i>Rubus vitifolius</i> | |
| <i>Lonicera involucrata</i> | | |
| <i>Hesembryanthemum chilense</i> | | |
| <i>Oenothera cheiranthifolia*</i> | | |
| <i>Poa confinis</i> | | |
| <i>Poa douglasii macrantha</i> | | |
| <i>Poa unilateralis</i> | | |
| <i>Polygonum peronychia</i> | | |
| <i>Salvia spathacea</i> | | |
| <i>Solidago spathulata</i> | | |
| <i>Tanacetum camphoratum</i> | | |

COASTAL PRAIRIE

| <u>Grasses</u> | <u>Broad-leaf Herbs</u> | <u>Shrubs</u> |
|----------------------------------|---------------------------------|---------------------------------|
| <i>Agrostis hallii</i> | <i>Aster subspicatus</i> | <i>Corethrogyne californica</i> |
| <i>Anaphalis margaritacea</i> | <i>Chrysopsis villosa*</i> | <i>Lupinus variicolor*</i> |
| <i>Bromus carinatus</i> | <i>Dentaria c. integrifolia</i> | <i>Lupinus versicolor</i> |
| <i>Bromus marginatus</i> | <i>Erysimum concinnum</i> | |
| <i>Calamagrostis nutkaensis*</i> | <i>Erysimum franciscanum</i> | |
| <i>Carex brevicaulis</i> | <i>Eschscholzia californica</i> | |
| <i>Danthonia californica*</i> | <i>Gentiana oregana</i> | |
| <i>Deschampsia holciformis*</i> | <i>Grindelia hirsutula*</i> | |
| <i>Elymus glaucus</i> | <i>Horkelia californica</i> | |
| <i>Elymus triticoides</i> | <i>Iris douglasiana*</i> | |
| <i>Festuca rubra</i> | <i>Iris longipetala</i> | |
| <i>Hordeum brachyantherum</i> | <i>Lonicera involucrata</i> | |
| <i>Hordeum californicum</i> | <i>Perideridia kelloggii</i> | |
| <i>Koeleria cristata</i> | <i>Ranunculus californicus</i> | |
| <i>Melica californica</i> | <i>Sidalcea malvaeflora</i> | |
| <i>Poa scabrella</i> | <i>Sisyrinchium bellum*</i> | |
| <i>Stipa lepida</i> | <i>Wyethia angustifolia</i> | |
| <i>Stipa pulchra</i> | | |

COASTAL MARSHES

| <u>Perennials</u> | <u>Perennials</u> |
|---------------------------------|--|
| <i>Calamagrostis nutkaensis</i> | <i>Franseria chamissonis ssp. bipinnatisecta</i> |
| <i>Carex brevicaulis</i> | <i>Grindelia stricta</i> |
| <i>Distichlis spicata*</i> | <i>Ranunculus californicus</i> |
| <i>Franseria chamissonis</i> | <i>Sisyrinchium californicum</i> |

* Denoted by Munz (1968) as an indicator species of the plant community.

NORTHERN COASTAL SCRUB

Perennials

Acaena californica
*Anaphallis margaritacea**
Armeria maritima
Cardionema ramosissimum
Chrysopsis villosa
Deschampsia holciformis
Dudleya farinosa
*Erigeron glaucus**
Erysimum concinnum
Erysimum franciscanum
Eschscholzia californica
Fragaria chiloensis
Gentiana oregana
Grindelia stricta
Heracleum lanatum
Horkelia californica
Horkelia c. sericea
Phacelia californica
Poa unilateralis
Scrophularia californica
Sedum spathulifolium
Solidago spathulata

Shrubs

Arctostaphylos columbiana
Arctostaphylos uva-ursi
Artemesia douglasiana
*Artemesia suksdorfii**
*Baccharis p. pilularis**
Baccharis p. consanguinea
Ceanothus gloriosus
Ceanothus griseus
*Diplacus aurantiacus**
Eriogonum latifolium
*Eriophyllum staechadifolium**
E. s. artemisiaefolium
Garrya elliptica
Gaultheria shallon
Grindelia maritima
Lupinus albifrons
Lupinus arboreus
Lupinus littoralis
*Lupinus variicolor**
Lupinus versicolor
Myrica californica
Rhamnus californica
*Rubus vitifolius**
Sambucus callicarpa

COASTAL SAGE SCRUB

Perennials

Artemesia douglasiana
Cardionema ramosissimum
Carex brevicaulis
Coreopsis maritima
Dudleya farinosa
Elymus condensatus
Grindelia hirsutula
Grindelia latifolia
*Horkelia cuneata**
Mesembryanthemum chilense
Poa unilateralis
*Salvia spiana**
Stipa lepida
Stipa pulchra
Zauschneria californica

Shrubs

*Artemesia californica**
Atriplex lentiformis
Baccharis p. pilularis
Coreopsis gigantea
Erigeron glaucus
*Eriogonum fasciculatum**
Eriogonum giganteum
Eriophyllum s. artemisiaefolium
Haplopappus v. sedoides
Lotus scoparius
Lupinus arboreus
Rhamnus californica
Rhamnus crocea
*Rhus integrifolia**
Salvia leucophylla
*Salvia mellifera**

CHAPARRAL

Perennials

Clematis lasiantha
Elymus condensatus
Eriogonum l. auriculatum
Eriogonum nudum
Erysimum franciscanum
Gentiana oregana
Gnaphalium ramosissimum
Muhlenbergia rigens
Perideridia kelloggii
Phacelia californica
Salvia spiana
Salvia spathacea
Stipa lepida
Stipa pulchra
Zauschneria californica

Shrubs

*Arctostaphylos crustacea**
Arctostaphylos imbricata
Arctostaphylos pallida
Baccharis p. consanguinea
Ceanothus megacarpus
*Ceanothus papillosus**
Ceanothus sorediatus
*Ceanothus thrysiflorus**
Eriogonum giganteum
Eriophyllum staechadifolium
Garrya elliptica
*Heteromeles arbutifolia**
Lotus scoparius
*Prunus ilicifolia**
*Rhamnus californica**
Rhamnus crocea
Ribes s. glutinosum
Salvia clevelandii
Salvia mellifera

COASTAL OAK WOODLAND

Perennials

Agrostis hallii
Dentaria c. integrifolia
Elymus condensatus
Festuca rubra
Horkelia cuneata
Koeleria cristata
Melica californica
Melica torreyana
Salvia spathacea
Stipa pulchra

Shrubs

Baccharis p. consanguinea
Diplacus aurantiacus
Heteromeles arbutifolia
*Rhus integrifolia**
*Rhus ovata**
Ribes aureum
Ribes s. glutinosum

Trees

*Aesculus californica**
Arbutus menziesii
*Quercus agrifolia**
Quercus douglasii
Quercus lobata
Sambucus caerulea
Umbellularia californica

COASTAL RIPARIAN WOODLAND

Perennials

Calamagrostis nutkaensis
Clematis lasiantha
Elymus triticoides
Heracleum lanatum
Lonicera involucrata
Mimulus guttatus

Shrubs

Artemesia douglasiana
Baccharis pilularis
Eriogonum giganteum
Myrica californica
Physocarpus capitatus
Ribes aureum
Ribes sanguineum
Rosa californica
Rubus vitifolius
Sambucus callicarpa

Trees

Acer macrophyllum
Alnus oregona
Alnus rhombifolia
Populus fremontii
Populus trichocarpa
Salix scouleriana
Umbellularia californica

MIXED EVERGREEN FOREST

Perennials

Agrostis hallii
Calamagrostis nutkaensis
Dentaria c. integrifolia
Festuca californica
Gnaphalium ramosissimum
Iris douglasiana
Melica californica
Perideridia kelloggii
Phalaris californica
Sidalcea malvaeflora

Shrubs

Arctostaphylos columbiana
Baccharis pilularis
Ceanothus papillosus
Ceanothus sorediatus
*C. thyrsiflorus**
Diplacus aurantiacus
Garrya elliptica
Gaultheria shallon
Mahonia aquifolium
Rhamnus californica
Rhamnus crocea
Ribes s. glutinosum
Rubus vitifolius
Vaccinium ovatum

Trees

Abies grandis
*Arbutus menziesii**
Cupressus pygmaea
Sambucus caerulea
*Umbellularia californica**

CLOSED-CONE PINE FOREST

Perennials

Armeria maritima
Calamagrostis nutkaensis
Horkelia cuneata
Horkelia c. sericea
Lonicera involucrata
Phalaris californica

Shrubs

Arctostaphylos hookeri
Arctostaphylos nummularia
Ceanothus gloriosus
Ceanothus griseus
Diplacus aurantiacus
Gaultheria shallon
Lupinus arboreus
Myrica californica
Ribes s. glutinosum

Trees

Abies grandis
Cupressus abramsii
*Cupressus goveniana**
*Cupressus macrocarpa**
*Cupressus pygmaea**
*Pinus contorta**
*Pinus muricata**
*Pinus radiata**

NORTH COASTAL CONIFEROUS FOREST

Perennials

Deschampsia caespitosa

Shrubs

Arctostaphylos columbiana
Gaultheria shallon
Holodiscus discolor
Myrica californica
Physocarpus capitatus
Rhododendron macrophyllum
Rubus spectabilis
Sambucus callicarpa
Vaccinium ovatum

Trees

Abies grandis
Cupressus pygmaea
Picea sitchensis

SOUTHERN CALIFORNIA COASTAL AND ISLAND COMMUNITY

Perennials

Coreopsis gigantea
Coreopsis maritima
Haplopappus dentoneus
Salvia spiana

Shrubs

Artemesia californica
Eriogonum arborescens
Eriogonum giganteum
Galvezia speciosa
Haplopappus v. sedoides
Isomeris arborea
Lavatera assurgentiflora
Prunus lyonii
Rhus integrifolia
Rhus ovata
Salvia leucophylla
Xylococcus bicolor

Trees

Lyonothamnus asplenifolius
Sambucus mexicana

RESUME

David Amme
1314 Curtis St.
Berkeley, California 94702

Education

M.S. Range Management, 1981.
Dept. of Forestry and Resource Management
University of California, Berkeley

B.A. Anthropology, 1970
University of California, Berkeley

Professional Experience

Researcher & Field
Supervisor

Design Associates Working with Nature, Inc. DAWN.
non-profit corporation. 1981-85.

Alameda Manzanita Recovery Plan. East Bay Regional
Park District and Dept. of Fish and Game Endangered
Plant Program. In progress.

Purple star thistle and artichoke thistle control
management plan. East Bay Municipal Utility District.
1985.

Chabot Grassland Enhancement Project. EBRPD. 1985
Briones Black Oak Management Experiment. EBRPD. 1985
Tilden Mariposa Lily Habitat Enhancement. EBRPD. 1984
Tilden Eucalyptus Thinning Experiment--Native Plant
Succession. EBRPD. 1984

Purple star thistle pilot project for EBRPD. 1981-85.

Private Consultant

Spring and fall range survey. EBMUD. 1985

Vegetation survey and recommendations for Bodega
Head restoration project. Calif. State Dept. of
Parks and Recreation 1985.

Executive Director

Design Associates Working with Nature, Inc. non-profit
corporation, Living Laboratory Research Facility and
three acre demonstration management project for the
City of Berkeley. 1979-83.

These projects center on collecting and producing a
wide variety of coastal native plants for Berkeley's
North Waterfront Park. Duties included writing grants
(1984, \$9400; 1983-84, \$18800; 1980-81, \$16000) and
reports; teaching and supervising volunteers and three
part time workers; planting landscape demonstration
areas; seeding experiments with native perennial
grasses and wildflowers; attending City and agency
meetings; and budget writing.

Post-Graduate
Researcher

Dr. Paul Zinke, Department of Forestry and Resource
Management, U.C. Berkeley and California Department of
Parks and Recreation. Gorse Control at Jughandle
State Reserve. 1981-82, half time.

Resource inventory and analysis of the north coast
prairie and forest ecotone as related to gorse (*Ulex*)
control and prairie restoration. Resource management
plan.

Research Assistant

Dr. Savelle, Department of Forestry and Resource Management. 1980.

Collected and identified California native grasses, research California flora bibliographies, class assistant in agrostology. Emphasis on California grassland ecology.

Research Assistant

James B. Roof, Director, Regional Park Botanic Garden. 1974-81.

Photographic work, collecting and field research for the Botanic Garden. Assisted with the editing and layout of *The Four Seasons* 5:3&4. Literature and herbarium research of California native plants with extensive field trips throughout the state and adjacent plant communities in Oregon, Nevada, Arizona and Baja, Mexico. Special expertise on California's island botany.

Native Plant
Horticulturist

Self-employed, Berkeley, California. Buckeye--Native Plant Gardens and Landscapes. 1970-79.

Design, construction, and maintenance of native plant landscapes with emphasis on plant diversity and low maintenance. Native plant propagator for the California Native Plant Society.

Publications and Reports

1985. Controlling Purple Star Thistle: A Case Study *Fremontia* 3:2, Journal of the California Native Plant Society.

1985. Controlling Purple Star Thistle and Artichoke Thistle on EBMUD Land. DAWN, Inc.

1985. Nursery Production of Western Native Perennial Grasses for Site Stabilization. Proc. of Conf. XVI International Erosion Control Ass. Feb. 1985. pp.149-153

1983. Gorse Control at Jughandle State Reserve: Resource Restoration and Improvement. California Department of Parks and Recreation.

1982. Purple Star Thistle Control on East Bay Regional Park District land. DAWN, Inc.

1980. Flora of the Berkeley Landfill. DAWN, Inc.

1977. The Torrey Pines and its Big Cone Relatives. *Fremontia* 4:4, Journal of the California Native Plant Society.

1975. The Torrey Pines of Santa Rosa Island, *The Four Seasons* 5:1, Journal of the East Bay Regional Park Botanic Garden.

Offices Held

1980-83. President, Design Associates Working with Nature, Inc., non-profit corporation.

1979. Corresponding Secretary, S.F. Bay Chapter of the California Native Plant Society.

1978. Vice-president, S.F. Bay Chapter of the California Native Plant Society.

Teaching

1974-75. Photography Technique. Berkeley Adult School.

1972. Wilderness Landscape Photography. The Screen Printing Academy, Berkeley, California

Professional Affiliations

California Native Plant Society

California Botanical Society

Society for Range Management

CHARLICE WITHERS DANIELSEN
10 Kerr Avenue
Kensington, CA 94707

EDUCATION

B.A., Education: California State University
at Northridge, 1963.

PROFESSIONAL EXPERIENCE

Nursery School and Elementary Teaching.
1961-1983 in Los Angeles, CA; Ottawa,
Ontario, and the East Bay.
Nursery Manager, 1983-1985. DAWN (Design
Associates Working with Nature).

OTHER HORTICULTURAL EXPERIENCE

California Native Plant Society. 1977-present.
San Francisco Bay Chapter Sale Committee.
East Bay Regional Parks Botanic Garden Volunteer.
1980-1984.
University of California Blake Garden Volunteer.
1983-present.

ORGANIZATIONAL EXPERIENCE

Association for Early Childhood Education, Ottawa
Chapter: Editor, Professional Newsletter.
California Department of Fish and Game:
Rare Plant Advisory Committee, 1986.
California Native Plant Society:
* San Francisco Bay Chapter:
Field Trip Chairman, 1976-1978.
Vice President, 1978-1980.
President, 1980-1982.
Membership Chairman, 1982-1983.
Escaped Exotics Chair, 1983-1984.
* Statewide Organization:
Personnel Management. Chair, 1980-1985.
Contributor, Fremontia, 1982.
Plant Count Com. Chair, 1982-1984.
Membership Services Com., 1983-1985.
Vice President, Administration, 1984-1985.
President, 1985-present
DAWN (Design Associates Working with Nature):
Board of Directors, 1982-present.
Executive Director, 1983-1984.
Secretary Treasurer, 1984-1985.
East Bay Regional Park District:
Wildcat Canyon Planning Task Force, 1984-1985.

OTHER AFFILIATIONS

The Nature Conservancy
California Botanical Society
San Francisco Early Music Society

DAVID KAPLOW

1642-C Russell St.

Berkeley, California 94703

(415) 845-0729

EDUCATION

1982. M.S. University of California, Berkeley
Wildland Resource Science
Concentration: Watershed Management, Soils, Hydrology
1977. B.A. Rutgers University
New Brunswick, New Jersey

PROFESSIONAL EXPERIENCE

- 1983 - President of DAWN (Design Associates Working with Nature)
Coordinated programs. Conducted and attended meetings.
Wrote reports and proposals.
- 1982 - Landscape Experience with DAWN
Consulted with the Berkeley Parks System.
Implemented native plant landscape at the Berkeley North
Waterfront Park.
Ran seed collection program.
Supervised volunteer park landscaping crews at Codornices Park.
- 1981-1982 Teaching assistant to Dr. Paul Zinke, U. C. Berkeley
Course name: Forest Influences.
1981. Research Assistant to Dr. John Helms, U. C. Berkeley
Silviculture. Growth of Sierra conifers after overstory
removal.
1980. Research Assistant to Dr. Ronald Wakimoto, U.C. Berkeley
Fire Ecology. Management Plan for Vandenburg Air Force Base.

PUBLICATIONS AND CONFERENCES

(In Press) Kaplow, David. "Coastal Ecology Restoration on Landfill".

The Four Seasons. Berkeley, California.

1984 _____ . "Restoration: An Ecological Approach",
Presented to Native Plant Revegetation Symposium,
San Diego. Nov 15, 1984.

1984 _____ . and David Amme. "DAWN Program Spearheads West
Coast Restoration", Restoration and Management Notes,
Summer, 1984.

ERIK VAN LENNEP
2321 Webster Street, #18
Berkeley, CA 94705

telephone:
(415) 486-1327

PROFESSIONAL EXPERIENCE

Head of Consultations and Design Department. Magic Gardens, Berkeley, CA. (1985-present).

Combination retail plant nursery and residential landscape design/construction operation. Responsible for running consultation and design portion of operation. Duties include client contact, proposal and bid writing, residential site design, securing materials and sub-contracting, on-site supervision of construction, re-organization of departmental structure to increase efficiency of operations, and overall quality control.

Erik van Lennep, Landscape Consultant. Northampton and Boston, MA. (1983-1985). Owner.

Owner-operated full service landscape design and environmental consultation office. Projects range from residential to public scale. Oversee installation of projects, and supervise crews as required. Areas of expertise include low maintenance designs and environmental psychology, native plant materials, environmental restoration, and design for wildlife.

Guest Lecturer. New England Environmental Conferences, Tufts University, Medford, MA. 1984

Conducted seminar on Landscape Design as a Tool for Social Change.

Design Team Co-leader. Conway School of Landscape Design, Inc. Conway, MA. (1982-1983).

Organized and conducted workshops on site suitability analysis for local land trust. Assisted instruction of plant materials and native plant communities.

Greenhouse Manager. Plant Breeder. North Star Orchids, Belfast, ME and Wayland, MA. (1975-79).

Owned and operated retail/wholesale orchid business. Responsibilities included jungle collection of plants, wholesale buying, greenhouse management, marketing, sales, and consulting. Designed and operated propagation and breeding program. Supervision of 3-14 employees seasonally. Owned and operated full service F.T.D. florist shop in conjunction with greenhouse.

SIGNIFICANT SKILLS

Project Analysis: Synthesize information rapidly, integrating details of project into overall plan; strong conceptual and analytic abilities. Work well with team members and clients. Extensive horticultural background.

Communication: Convey information clearly, both in writing and in effective client communication, good listener; skilled at problem solving, organization, and

management. Readily able to isolate and identify client needs. Adept at instruction and supervision. Broad range of consultative and sales experience.

Project Implementation: Design/construction experience, including installations, cost estimates, maintenance recommendations, referrals, project supervision, and punch lists.

EXHIBITIONS AND SHOWS

Massachusetts Orchid Society Annual Show, Jan. 1977

Eastern Orchid Congress, Nov. 1977.

Designed and constructed educational and promotional exhibits. Managed sales booth. Received "Best Educational Exhibit" and numerous cultural awards of excellence and merit at both shows.

EDUCATION

Master of Landscape Design 1983. Conway School of Landscape Design, Conway, MA.

Bachelor of Science, Plant Breeding, 1982. University of Massachusetts, Amherst, MA.

PROFESSIONAL EXPERIENCE OVERSEAS

Spain, 1984. Researched article for Horticulture magazine in Catalonia and the Balearic Islands.

Montserrat, B.W.I., 1977. Consultant for establishment of tropical plant nursery.

Ecuador and Bolivia, 1975, 1976, 1977. Exploration and plant collection in montane and lowland jungles and deserts.

FOREIGN LANGUAGES

French, Spanish, and German.

PROFESSIONAL AFFILIATIONS

American Society of Landscape Architects
American Forestry Association
American Orchid Society
California Native Plant Society
International Council for Research in Agroforestry
Regenerative Agriculture Association

References available upon request.

DENNIS ROGERS
147 Lake Avenue
Rodeo, CA 94572
(415) 799-6551

EDUCATION

B.A. History of Science, University of California,
Berkeley, CA.
* Achievements: Student Body President
All-American Swim Team
Finals National Debates

PROFESSIONAL EXPERIENCE

Landscape Design/Construction and Maintenance.
1970-present. Includes the following:

-- Commerical Landscape/Irrigation Designer-Estimator --

Types of Projects:

- * Condominium
- * College Campuses
- * Highway right-of-ways
- * Low-income Housing
- * Community Parks

Responsibilities:

- * Specification Writing
- * Estimating
- * Directing Field Personnel
- * Bidding/Negotiating Contracts
- * Design Layout and Graphics

-- Residential Landscape Designer-Contractor: Native Plant Specialist --

Types of Projects:

- * construction and planting of a freshwater pond and habitat
- * re-creation of vernal pool and riparian habitat
- * naturalistic rock outcroppings for habitat
- * revegetation of steep, rocky, infertile roadcuts
- * repair of slope failures
- * streambank reconstruction/revegetation

Skills:

- * collecting native seeds, transplanting from wild, and container propagation for landscape use
- * extensive experimentation with direct seeding of annuals and perennials in native perennial grasslands
- * pruning, spraying and protection of oaks and madrones from construction activities

ROGERS(2)

PROFESSIONAL EXPERIENCE: (con't.)

-- Erosion Control Experience --

- * hydroseeding
- * organic mulches
- * road construction
- * retaining walls
- * irrigation systems
- * jutemesh
- * culvert installation
- * concrete and steel structures
- * drainage engineering

-- Community Maintenance Experience --

- * East Bay Regional Parks District
 - golf course and irrigation maintenance
- * University of California Botanical Garden (Berkeley)
 - directed special projects: naturalistic design and construction of new Tropical Greenhouse; renovation of Herb Garden for the American Herb Society
- * City of Berkeley, Parks and Recreation Department
 - turf maintenance (parks, totlots, median strips, bowling green).
 - extensive pest control experience

-- Experience with DAWN (Design Associates Working with Nature) --
(1979-1981, 1985-present)

- * Speaking engagements and consultation with community groups and agencies:
 - City of Berkeley Marina, North Waterfront Park Planning Staff
 - City of San Francisco Parks and Recreation Commission
 - Bernal Heights Community Group
 - Codornices Park Community Group
- * Writing position papers and specifications for park development based on the use of native perennial bunchgrasses/range management techniques.
- * Wrote specifications for Phase III of Berkeley Marina native perennial bunchgrass landscaping and hard Fescue play areas.
- * Field collection of Stipa, Melica, Danthonia, Festuca, and Deschampsia seed.

PUBLICATIONS

Rogers, Dennis. 1981. Planting and Maintenance of Native Perennial Bunchgrasses. Fremontia Vol. 9(1): 24-28.

AFFILIATIONS

The California Native Plant Society (member since 1969)

JAN STRAHAN
475-16th Avenue
San Francisco, CA 94118
(415) 387-3348

EDUCATION

- Ph. D. Wildland Resource Science (in progress).
University of California, Berkeley, CA.
Areas of Specialization: plant ecology/
vegetation management for planning, emphasis
on riparian zones.
- M. S. Wildland Resource Science. 1981. University
of California, Berkeley, CA. Emphasis in
plant ecology/vegetation management.
- B. A. Landscape Architecture. 1979. University of
California, Berkeley, CA. Emphasis on
native plant use in design and planning.
- Undergraduate Study. 1969-1972. University of
California, Davis, CA. Emphasis on ornamental
horticulture/environmental science.

PROFESSIONAL EXPERIENCE

- Executive Director, DAWN (Design Associates Working
with Nature). 1984-present.
- Instructor. 1984. University of California, Berkeley,
Department of Landscape Architecture:
Landscape Architecture 11 and 11 Lab,
Ecological Analysis.
- Research Assistant. 1985. Investigation of the effects
of streamflow regulation on riparian vegeta-
tion along 30 streams in CA. Project jointly
funded by UC Berkeley Dept. of Forestry and
Resource Management and CA State Water Resources
Center, Davis, CA.
- Researcher. 1983, 1984. Two fellowships received from the
The Research Ranch Foundation to study riparian
vegetation on the National Audubon Society's
Appleton-Whittell Research Ranch.
- Research Assistant. 1980-present. Research conducted
under the direction of Dr. Joe McBride, Dept.
of Forestry & Resource Mgt., UC Berkeley.
Research topics include: riparian plant
ecology, riparian wildlife habitat, historic
landscape restoration, vegetation change in
the Sierra Nevada.
- Teaching Assistant. 1980. Landscape Architecture 10
and 10 Lab, Ecological Analysis, UC Berkeley.

STRAHAN (2)

PROFESSIONAL EXPERIENCE (con't.)

- Consultant. 1979-1984. Representative projects:
- * The Distribution of Riparian Vegetation on the Kern River Preserve, A Vegetation Mgt. Plan (The Nature Conservancy). 1984.
 - * Vegetation Analysis for the City of Roseville's proposed bicycle-pedestrian path along Linda, Cirby and Dry Creeks (Circuit Rider Productions). 1983.
 - * Vegetation-Hydrologic Field Survey for Del Monte Gulch Channel Stability Assessment (Jones and Stokes subcontract). 1983.
 - * Vegetation field study for Stanford University Reforestation Plan (Haygood and Zebrowski). 1982.
 - * Vegetation and wildlife study for McLaren Park Environmental Impact Report (Damans and Associates). 1981.
 - * Assessment of lower Dry Creek riparian vegetation. Warm Springs Dam Project (Elgar Hill, Environmental Planning & Analysis). 1981-1982.
 - * Vegetation Analysis for Warm Springs Dam, Vegetation Management Program (Elgar Hill). 1979-1980.
 - * Vegetation analysis for environmental impact reports (Elgar Hill). 1979-1980.
- Nursery Manager. Las Animas Garden Center, Gilroy, CA. 1976-1978.
- Environmental Education Specialist. Tulare County Environmental Education Program. 1973-1975.

PUBLICATIONS--PRESENTATIONS

- McBride, J.R. and Jan Strahan. 1984. Establishment and survival of woody riparian species on gravel bars of an intermittent stream. The American Midland Naturalist Vol. 112 (2): 235-245.
- _____. Historic vegetation restoration: development of a methodology at Fort Ross, CA. Manuscript in preparation.
- _____. A methodology for wildlife habitat for planners: a case study in the riparian zone. Manuscript in preparation.
- _____. 1983. The effects of bank stabilization on re-establishment of riparian vegetation. California Agriculture 37 (5 & 6): 7-9.

STRAHAN (3)

PUBLICATIONS (con't.)

- McBride, J.R. and Jan Strahan. 1981. The influence of fluvial geomorphology on riparian vegetation along lower Dry Creek, Sonoma County, CA. Paper presented at the California Riparian Systems Conference, September 17-19, 1981, University of California, Davis, CA. IN: Warner, Richard E. and Kathleen M. Hendrix, eds. 1984. California Riparian Systems: Ecology, Conservation and Productive Management. UC Press, Berkeley, CA.
- _____. 1981. Development of a methodology for historic vegetation restoration. Restoration and Management Notes 1: 53.
- Strahan, Jan and Richard Hewett. 1986. Riparian reforestation along the South Fork Kern River, CA. Restoration and Management Notes (in press).
- Strahan, Jan. California's changing landscapes: 100 years of vegetation change in the Sierra Nevada. Manuscript in preparation
- Strahan, Jan and J.R. McBride. 1982. The movement of Bishop pine into coastal grasslands. Paper presented at the Ecological Research Society Conference, March 17, 1982, Sacramento, CA.
- Strahan, Jan. 1981. Regeneration of riparian forests of the Central Valley. Paper presented at the California Riparian Systems Conference, September, 17-19, 1981, University of California, Davis, CA. IN: Warner, Richard E. and Kathleen M. Hendrix, eds. 1984. California Riparian Systems: Ecology, Conservation and Productive Management. UC Press, Berkeley, CA.

AFFILIATIONS

Ecological Society of America
The Nature Conservancy
Association of Environmental Professionals
The California Native Plant Society

