

UC Davis Arboretum All-Stars











Connecting people with the beauty and value of plants

Special thanks to Ellen Zagory for her photography.

What is the UC Davis Arboretum?

- An outdoor museum with a vast collection of plant species
- An integral part of the campus at University of California at Davis
 - Classes
 - Informal education
 - Recreation
 - Experiencing nature















For more information, visit http://arboretum.ucdavis.edu/



What is the Arboretum All-Star Program?

- Educational program
- Promotion for tough landscape plants; dependable
 - for gardening in hot-summer,
 interior California gardens



Chionanthus retusus Chinese fringe tree



Criteria for selecting an All-Star

Every All-Star plant must:

- Be attractive for most of the year
- Thrive in Central Valley conditions
- Be tested in the UC Davis Arboretum
- Be available at Plant Sales

All-Stars were also selected for:

- Low maintenance
- Drought tolerance
- Attracting beneficial wildlife
- Year-round interest



Goal: To encourage gardeners to replace water-loving plants with California natives and other drought-tolerant plants



Why use All-Star plants?

- MITIGATE CLIMATE CHANGE!
 With projected population growth, annual water shortages are predicted by 2020
 - warmer average temperatures
 - reduced precipitation
 - smaller snowpack
- Save money
- Save the environment
 - pollinators
 - reduced inputs
 - reduced Carbon footprint



All-Star Program Elements

- Publications
- Website
- Interpretive signs
- Expanded plant labels
- Demonstration gardens, exhibits



| Recommended Plants for Central Valley Gardens | | Arbore | ution Size | Bloom | EXP | osure Provings | Wate | ds Wote |
|---|-------------------|------------|------------|----------------------------|--------------|--|---------------------------------|--|
| PERENNIALS | | | | | | | | |
| Aquilegia eximia – serpentine columbine: California native plant; larger and showier than most columbines; attractive delicate foliage in basal mound; attracts hummingbirds. | | MWB | medium | spring, summer | * * | remove old flower stalks and foliage in the fall | | water deepl every one to two weeks |
| Aster 'Purple Dome' – purple dome Michaelmas doisy: This dwarf daisy has deep-violet flowers in late summer; attractive to butterflies and beneficial insects; resists mildew and tolerates wet soils. | | ATG | small | summer | \ | cut to ground in winter to renew | | water deepl every one to two weeks |
| Ballota pseudodictamnus – folse dittony: Soft, silver leaves and whords of timy pink flowers in late spring to early summer; tolerates poor soils and infrequent watering; useful in dry perennial border or as a groundcover. | | RRS | small | summer | \X X X | remove old flower stalks at end of season | | water deepl once or twice month |
| Bergenia crassifolia – pigsqueek: Dense clusters of pink flowers bloom in winter and early spring: classic California garden plant for dry or moist shady border; broad, shiny leaves provide textural contrast to small-leaved plants; attracts beneficial insects. | | RRS | small | winter | * | remove old flower stalks | | water deepl every one to two weeks |
| Blctilla striata – Chinese ground orchid: Easiest orchid to grow in the Central Valley and plants spread to form small colonies over time; tough and hardy perennial that blooms de- pendably in shady gardens; vivid coloration and unusual shape give a tropical effect; attracts beneficial insects. | | EAC | medium | spring | * | cut stems to ground in winter for tidy appearance | | water deep every one t two weeks |
| Bouteloua gracilis – blue gramo grass: California native plant; green flowers age to tan by the end of the summer; retains tidy, upright shape even when dormant. | The second second | MWB | medium | summer, fall | \X ♦ | mow once in late fall or winter to renew | 4 | water deep every two weeks |
| Bulbine frutescens – Cape balsom: Small, evergreen perennial is a wonderful addition to dry perennial borders with its long-blooming spikes of delicate, star-shaped yellow flowers; fleshy, bright green foliage adds a sculptural element to the garden; tolerates drought and poor soils. | | ATN | medium | spring, summer, fall | ¢ ¢ | remove old flower stalks for tidy appearance | | water deepl once or twice month |
| Carex divulsa – grassland sedge: Provides a lush appearance with little water; creates a low-maintenance meadow in the shade; easy to grow. | | MWB | small | flowers not visible | * | little or none | $\stackrel{\bigcirc}{\bigcirc}$ | water deep once or twice month |
| Cyclamen hederifolium – ivy loof cyclamen: Scented rose-pink or white flowers bloom in late summer and early fall before the leaves emerge; ornamental silver-marked foliage sparkles in dry shady gardens; tolerates a wide variety of soil types and can also grow well in containers. | | ATG | small | summer, fall | * * | little or none | | water deepl once or twice month |
| Cyrtomium falcatum – Jopanese holly fern: Evergreen fern with dramatic, dark-green glossy fronds that resemble holly leaves; provides a lush look in dark shady areas of the garden; can tolerate high-mineral irrigation water. | - Brank | EAC ATG | medium | none | * | little or none; remove old fronds for tidy appearance | | water deep every one t two weeks |

Comprehensive, educational Arboretum web site (http://arboretum.ucdavis.edu)





Arboretum All-Stars

The horticultural staff of the UC Davis Arboretum have identified 100 tough, reliable plants that have been tested in the Arboretum, are easy to grow, don't need a lot of water, have few problems with pests or diseases, and have outstanding qualities in the garden. Many of them are California native plants and support native birds and insects. We are pleased to recommend these great plants for Valley-wise gardens.

Use the All-Stars database to find the right plants for your garden.

Click here to browse through the 100 UC Davis Arboretum All-Stars.

When you visit the Arboretum demonstration gardens, you will see a series of beautiful, brightly-colored signs identifying the Arboretum All-Stars, each with a photo of the plant in bloom, a list of its outstanding features, and information about how to grow it. Also look for metal plant labels with the All-Stars logo.



Many of the All-Stars plants are available at Arboretum plant sales and will be available through many local retailers starting in spring 2009, Look for the All-Stars symbol on the plant tag. Coming soon: demonstration plantings of Arboretum All-Stars at the new Arboretum Teaching Nursery.

Click on the links below to download brochures about the Arboretum All-Stars plants:

Get a PDF of the 24-page Arboretum All-Stars Booklet, a full listing of all 100 All-Stars with detailed information on each.

If you are unable to get the entire 24 page booklet, try downloading parts of it: All-Star Perennials, pages 1-11 All-Star Groundcovers and Vines, pages 12-13 All-Star Shrubs, pages 14-21 All-Star Trees, pages 20-24

Find out which All-Stars are California natives.

While the All-Stars all use less water, these plants are water misers.

| Arboretum | VALLEY-WISE |
|-------------|-------------|
| Stars | GARDENING |
| All-Stars | EDUCATION |
| Plant Searc | & RESEARCH |
| Plant Sales | GATEWAYS |
| Nursery | PROJECT |
| Gardening | SUPPORT |

Reference

Resources

All-

PLAN YOUR

VOLUNTEER

ABOUT US CALENDAR ARBORETUM ALL-STARS



A searchable horticultural section on the Arboretum web site (http://arboretum.ucdavis.edu)



file:///C/Users/borel/Desktop/allstars_detail_21.aspx htm (1 of 2) [12/15/2008 11:55:38 AM]

Educational signage, workshops and tours

Christmas cheer poker plant *Kniphofia* 'Christmas Cheer'



- Dramatic plant brightens up the winter garden
- At the top of its tall flowering stems, brilliant orange buds open to gold tubular flowers
- Arching, sword-shaped leaves form a dense clump of evergreen foliage

Brightly colored flowers provide winter nectar for hummingbirds.

| y | |
|----------------------|-------------------|
| PLANT TYPE | perenn |
| HEIGHT | 4-5 ft. |
| WIDTH | 3-4 ft. |
| BLOOM SEASON | Decem |
| PLACEMENT | full sur |
| WATER NEEDS | deep w the dry |
| PRUNING NEEDS | remove |

NATIVE T

| 4-5 ft. 3-4 ft. | |
|---|--------|
| | |
| Descendent Falsmanne | |
| December-February | |
| full sun or part shade | |
| deep watering twice a month d the dry season | luring |
| remove old flower stalks | |
| South Africa | - |

Available for Purchase at UC Davis Arboretum Plant Sales See our website for more information: http://arboretum.ucdavis.edu Made possible by a grant from the Institute of Museum and Library Services



What is an Arboretum All-Star?

Arboretum All-Stars are our staff's top recommended plants for Central Valley gardens.

What makes a plant an Arboretum All-Star?

Each All-Star plant must have the following features:

- Attractive for most of the year
- Thrives in Central Valley conditions
- Tested in the UC Davis Arboretum

Many All-Stars also have one or more of the following features:

- Low maintenance
- Drought tolerant
- Attracts beneficial wildlife

Look for other Arboretum All-Stars as you walk through the UC Davis Arboretum.







Demonstration Gardens, Exhibits

To promote the Arboretum All-Stars and sustainable gardening practices, the Arboretum uses informal education tools to educate visitors

Demonstration gardens such as the Storer Garden – A 'Valley Wise' Garden, highlight sustainable gardening practices.





Educational exhibits are designed using a nationally recognized exhibit development strategy created by Arboretum Director, Kathleen Socolofsky.

Educational Teaching Points



RBORETUM

arboretum.ucdavis.edu

Ruth Risdon Storer Garden-A Valley-Wise Garder

Sign made possible by grants from the Elvenia I Slosson Foundation and the UC Davis Office of Administration



The Valley-Wise Garden is watered only once every two weeks for seven months of the year (April-October). Winter rains take care of the rest.



Sign made possible by grants from the Elsenia J. Slosson Foundation and the UC Davis Office of Adv

Field Testing

high, medium and low water use

(See "Field Trials identify more native plants for urban landscaping" S. Karrie Reid and Lorence R. Oki *California Agriculture* vol. 62 no. 3 pp. 97-104)



Master Gardener Demonstration Gardens



Propagation Trials

creating propagation standards for Arboretum All-Stars

Research completed for 10 species, project will be on-going based on available funds.









Introducing UCDAVIS ARBORETUM

tars

Make the "Green" **Choice for Your Great-Looking Garden** UC DAVIS ARBORETUM ALL-STARS

· Use less water

- · Require less maintenance
- · Require less fertilizer
- · Resist pests
- Make your home garden more sustainable
- Are grown and tested by the UC Davis Arboretum



purple dome Michaelmas daisy 'Purple Dome'

Cape balsam

and poor

hybrid catmint onta x faa

Octob

types, requires little water, and flowers from March through

This striking dwarf daisy blooms profusely in mid-to-late summer. It's attractive to butterflies, is happiest in full sun and tolerates wet soils. 'Purple Dome' does not have any serious pest or disease problems.



Hybrid catmint is a low-growing plant with delightful flowers and foliage, enjoyed by both you and butterflies. It tolerates many soil A California native, deergrass is a striking accent plant that will add both texture and movement to your garden. It requires almost no main-tenance and needs very little water.



Cape balsam produces compact spikes of succulent leaves and delicate, yellow flower plumes from fall through spring. It is a hardy plant, tolerating drought and oper scile

Santa Margarita foothill pens argarita B.O.P.' Bring the California's hills to your home garden with this native, drought-tolerant plant. The golden buds become intense blue blossoms that charm humming-birds and butterflies alike.

California fuchsia um caoum cultivars A native, California fuchsia comes n many different forms, each

displaying beautiful orange-red flowers in summer and fall. Hummingbirds love this plant and it gladly tolerates heat and drought

Palmer's sedum

A low-growing groundcover, Palmer's sedum has attractive rosettes of leaves and flowers prolifically in spring. This versatile plant is drought and shade tolerant.



Ed Carman's rosemary Rosmarinus officinalis 'Mo

areas of the state

A blue flower and small habit set 'Mozart' apart from other rosemary selections. Oils in the leaves add fragrance to the garden and the flowers persist from fall to spring. 'Mozart' requires little water.

Wayne Roderick seaside daisy Erigeron 'W. R.'

Engenon W. H. Low growing and great for flower borders, this California native blooms spring to fall with charming daisies. It is very popular with butterflies and does best with afternoon shade in hotter



Goodwin Creek lavender andula x ginginsii odwin Creek Grey' Add fragrance to your garden with this plant. It looks great in group-ings or alone and always attracts butterflies. Gardeners love this lavender because it tolerates heat and requires little water.



autumn sage Salvia greggii and Salvia x jao Savia greggi and Savia x jamensis These plants flower abundantly in spring and fall, constantly visited by hummingbirds and pollinators. Autumn sages are heat and drought tolerant, a wise choice for conserving water.





Purchasing UC Davis Arboretum All-Stars supports the educational programs of the UC Davis Arboretum and the California Center for Urban Horticulture. For a complete list of UC Davis Arboretum All-Star plants and landscape designs, please visit our website at http://arboretum.ucdavis.edu



Otto Quast Spanish lavender Lavandula stoechas 'Otto Quast'



There is no showier lavender than 'Otto Quast.' The bright flowers bloom in mass and attract plenty of butterflies and pollinators. This plant does great in sunny dry conditions.

Large purple flowers attract butterflies and other beneficial insects throughout the spring.



| PLANT TYPE | starub |
|---------------|---|
| Height | 2 π. |
| WIDTH | 3-4 ft. |
| BLOOM SEASON | March-May |
| PLACEMENT | full sun |
| WATER NEEDS | water deeply every two weeks |
| PRUNING NEEDS | cut back to remove old flowers and keep compact |
| NATIVE TO | Mediterranean Region |
| SUNSET ZONE | 4-24 |



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- Low maintenance
- · Drought tolerant
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Native Plants

- Native insects normally do not use non-native plants as hosts
- Native plant habitat is shrinking due to modern farming practices and suburban and urban growth
- Wildlife increasingly depends on parks, conservation areas and our urban and suburban gardens for survival



Beneficial Insects

- Predator and parasitoid insects are "natural enemies" of garden pests
- Proximity to native habitat increases the number of bee visits and better crop production

• NOTE: avoid insecticides!



Beneficial Insects

- Larval food plants (Aristolochia californica)
- Nectar (Salvia spp., lavenders)
- Pollen (buckwheat, Ceanothus)



Wildlife

- Attract insects for insectivorous bird species
- Provide fruits and seeds for seed eaters
- Nectar for hummers and butterflies





Epilobium canum

Cercocarpus betuloides ssp. blanchae

We water only twice a month



Ruth Storer Garden

Rosa 'Gruss An Aachen', Lavandula stoechas 'Otto Quast', Salvia greggiii, Nepeta





Design wisely. To conserve water, you don't have to have a dry looking garden. Remember, no one likes a ZERO-scape!



All-Star Preview

Sedum palmeri, Bulbine frutescens, Salvia greggii, Echiveria 'Imbricada'', and Aster "Purple Dome"



Large Shrub: Crape Myrtle -*Lagerstroemia indica* and hybrids





Small Tree: Chilean Lily-of-the-Valley Tree -Crinodendron patagua





Large shrubs: *Ceanothus* ,,Ray Hartman[`]and *Heteromeles arbutifolia*





Medium shrubs: *Leucophyllum frutescens, Ribes aureum*





Small shrubs: *Salvia greggii* and *S.×jamensis Lavandula stoechas* ,,Otto Quast^{*}



Grass: *Bouteloua gracilis*



Fragrance: *Philadelphus* "Belle Etoile"and *Daphne odora* "Aureo-marginata"



Sun perennials: *Lessingia* "Silver Carpet", *Penstemon* "Margarita BOP"



Shade perennials: *Heuchera* "Rosada", *Helleborus ×hybridus, Bletilla striada*



Hummingbirds: Callistemon violaceus, Isomeris arborea, Ribes malvaceum



Winter Bloomers: *Lonicera standishii, Kniphofia* ,,Christmas Cheer''



Vines

Mandevilla laxa

Chilean jasmine

Clytostoma callistegioides

violet trumpet vine





Bulbs

Sternbergia lutea, Rhodophiala bifida





In Summary: The UC Davis Arboretum All-Stars are....

Good to try because....

- Use less water
- Require less
 maintenance
- Resist pests
- Make your garden more sustainable
- Are grown and tested in the UCD Arboretum and throughout the state



The End--Questions?