

El Dorado County Master Gardeners Present



SHADE GARDENING IN OUR MEDITERRANEAN CLIMATE



**Presented By: Merry Campbell, Susan Corey-McAlpine,
& EJ Kipping**

Thank you to....

Today's Hosts!

- Alison
- Anne
- Donna
- Laurel
- Muriel



Welcome!



- We are the UCCE MGs of EDC
- Volunteers, trained by the U of C
- Goal of providing research-based information to our community's home gardeners
- Sign in & evaluation form
- Statewide survey
- Publications
- Timetable/snacks/restrooms
- Contributions

UC ANR

University of California Agriculture & Natural Resources Strategic Initiatives Survey

- Endemic and invasive pests and diseases
- Healthy families and communities
- Sustainable food systems
- Sustainable natural ecosystems
- Water quality, quantity and security

What brought you here today?





Shade Gardening in our Mediterranean Climate

- **What is a Mediterranean Climate?**
- **What is shade?**
- **Design considerations**
- **Plants to consider for conditions of shade**
- **Wrap Up and Questions**

DEFINITIONS OF SHADE

- **Definitions of shade**
 - **Full shade**
 - **Partial shade**
 - **Partial sun**
 - **Full sun**
- **By light density**
- **Wet vs. dry shade**

SHADE DENSITY

- Filtered or Dappled
- High or Open
- Dense or Full

FILTERED OR DAPPLED SHADE



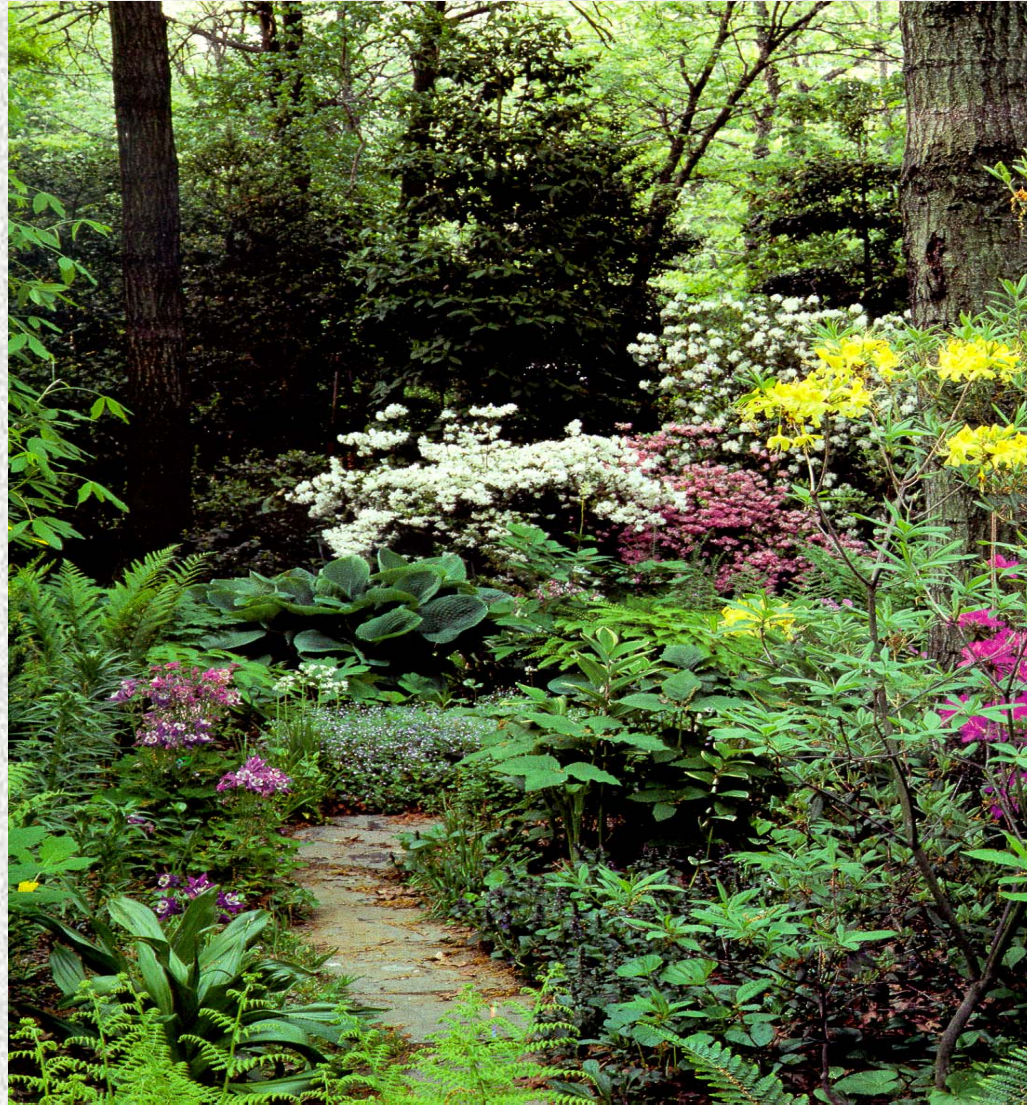
FILTERED OR DAPPLED SHADE



HIGH OR OPEN SHADE



HIGH SHADE



FULL SHADE

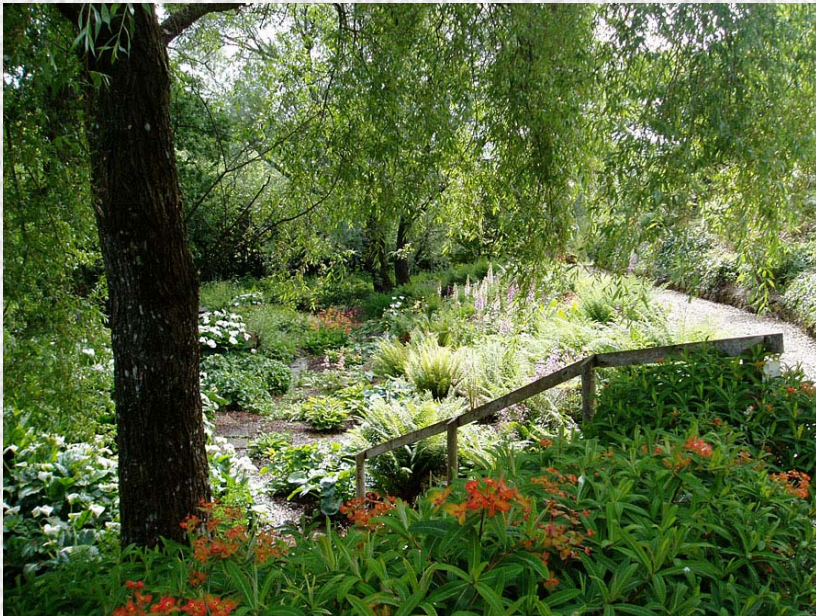


MOISTURE AVAILABILITY

- Wet Shade vs. Dry Shade**
- Moisture competition**

MOISTURE AVAILABILITY

Wet Shade



Dry Shade

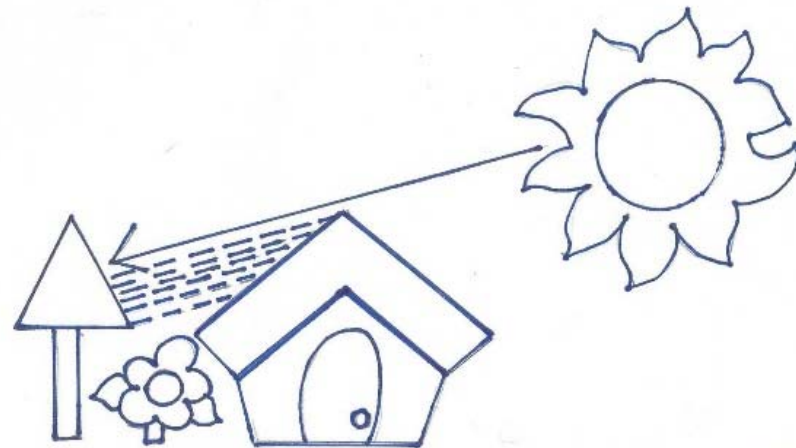


SHADE VARIATIONS

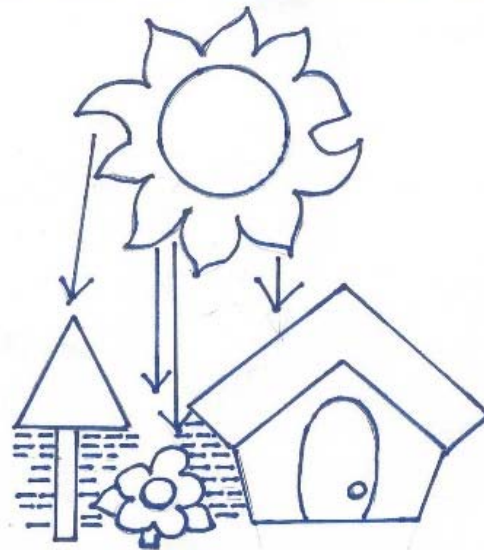
- **Seasonal**
- **Time of Day**

SEASONAL VARIATION

DECEMBER 22
WINTER SOLSTICE



JUNE 22
SUMMER SOLSTICE

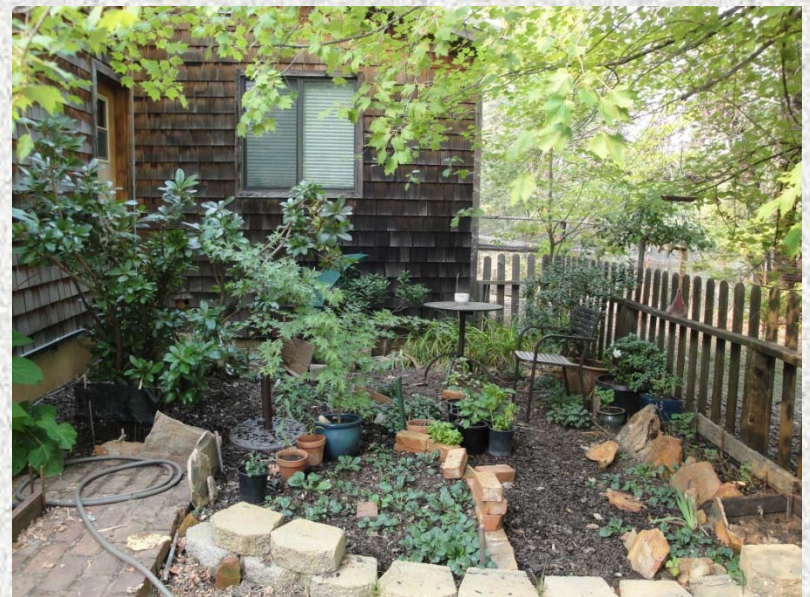


SEASONAL SHADE

dependent upon the canopy



March



September

CULTURAL CHALLENGES UNDER OAKS



CULTURAL CHALLENGES UNDER OAKS



CULTURAL CHALLENGES UNDER OAKS



ADAPTING CONDITIONS TO BETTER SUIT SHADE PLANTS

- **Spacing**
- **Use of Containers**
- **Shelters**
- **Design**
 - **Grouping**
 - **Existing Plants**

SHELTERS - PERGOLA



SHELTERS - LATH



SHELTERS - ARBOR



VEGETATION

- **Add trees and shrubs**
 - For more shade
 - To protect a certain plant
- **Limb up trees**
 - Open canopies for more light

DESIGN CONSIDERATIONS

- **Layout**
 - Include understory trees and shrubs
 - Plant in groups and masses
- **Hardscape**
- **Colors**
- **Textures**
- **Changing conditions**

TEXTURE



PLANTS TO CONSIDER

- **Annuals**
- **Bulbs and Corms**
- **Groundcovers**
- **Perennials**
- **Trees and Shrubs**
- **Vines**

Annuals



Begonia sempiflorens
Fibrous/Wax Begonia



Browallia americana
Amethyst Flower



Fuchsia x hybrid



Heliotropium arborescens
Heliotrope



Impatiens balsamina

Annuals



Begonia sempiflorens
Fibrous/Wax Begonia



Browallia americana
Amethyst Flower



Fuchsia x hybrid



Heliotropium arborescens
Heliotrope



Impatiens balsamina

Annuals



Lobelia erinus



Solenostemon scutellarioides
Coleus



Torenia fournier
Wishbone Flower



Tropaeolum majus
Nasturtium

Bulbs, Corms & Tubers



Convallaria majalis
Lily-of-the-Valley



Chionodoxa spp.
Glory-of-the-Snow



Crocus spp.

Bulbs, Corms & Tubers



Convallaria majalis
Lily-of-the-Valley



Chionodoxa spp.
Glory-of-the-Snow



Crocus spp.

Bulbs, Corms & Tubers



Erythronium Californicum
Fawn Lily



Erythronium dens-canis
Dogtooth Violet



Hyacinthoides hispanica
Bluebell; Wood Hyacinth



Ipheion uniflorum
Blue Star Flower

Bulbs, Corms & Tubers



Leucojum estivum
Summer Snowflake



Leucojum vernal
Spring Snowflake



Lilium spp.



Scilla siberica
Bluebell; Squill

Groundcovers



Ajuga spp.
Carpet Bugle



Bergenia cordiflora
Heartleaf Bergenia/Pig Squeak



Carex flacca
Blue Sedge



Ceratostigma plumbaginoides
Dwarf Plumbago

Groundcovers



Chamaemelum nobile
Chamomile



Convolvulus sabatius
Ground Morning Glory



Cotula squalida
New Zealand Brass Buttons



Fragaria chiloensis
Beach/Sand Strawberry

Groundcovers



Galium odoratum
Sweet Woodruff



Houttuynia
cordata



Lamium maculatum
Dead/Spotted Nettle



Mahonia repens
Creeping Mahonia

Groundcovers



Galium odoratum
Sweet Woodruff



Houttuynia
cordata



Lamium maculatum
Dead/Spotted Nettle



Mahonia repens
Creeping Mahonia

Groundcovers



Pachysandra terminalis
Japanese Spurge



Sagina subulata
Scotch/Irish Moss



Satureja douglasii
Yerba Buena

Perennials



Acanthus spp.
Bear's Breech



Aconitum napellus
Monkshood



Alchemilla mollis
Lady's Mantle



Anemone japonica
Japanese Anemone

Perennials



Aquilegia spp.
Columbine



Aruncus dioicus
Goat's Beard

Perennials



Astilbe spp.
False Spirea



Brunnera macrophylla
Bugloss



Campanula spp.
Bellflower/Bluebells

Perennials



Dicentra spectabilis
Bleeding Hearts



Digitalis spp.
(except *purpurea*)
Foxglove



Doronicum
Leopard's Bane

Farfugium japonicum
Leopard Plant



Perennial Ferns



Adiantum pedatum
Maidenhair Fern



Asplenium scolopendrium
Hart's Tongue Fern



Athyrium spp.
Lady Fern/
Japanese Painted Fern

Perennial Ferns



Matteuccia struthiopteris
Ostrich Fern



Osmunda cinnamomea
Cinnamon Fern

Polypodium hesperium
Polypody Fern



Perennials



Filipendula spp.



Francoa ramosa
Maiden's Wreath

Perennials



Geum spp.



Helleborus niger
Christmas Rose



Helleborus orientalis
Lenten Rose

Perennials



Geum spp.



Helleborus niger
Christmas Rose



Helleborus orientalis
Lenten Rose

Perennial Hostas

xHosta



'First Frost'



'Bressingham Blue'



'Guacamole'

Perennials



Isolepis cernua
Fiber Optics Plant



Ligularia dentata



Linaria purpurea
Toad Flax

Perennials



Liriope
Lily Turf



Lobelia cardinalis
Cardinal Flower



Lychnis chalcedonia
Maltese Cross



*Mertensia
pulmonarioides*
Virginia Bluebell

Mertensia ciliata
Mountain Bluebell



Perennials



Polemonium
Jacob's Ladder



Polygonatum biflorum
Solomon's Seal



Primula spp.
Primrose



Pulmonaria caeruleum
Lungwort



Thalictrum spp.
Meadow Rue

Perennials



Tiarella

Foam Flower/Sugar Scoop



Tradescantia virginiana

Spiderwort



Tricyrtis hirta

Toad Lily



Trillium chloropetalum

Wake Robin

Trees and Shrubs



Abelia chinensis



Acer palmatum
Japanese Maple



Arbutus unedo
Strawberry Tree

Trees and Shrubs



Arctostaphylos spp.
Manzanita



Aucuba japonica
Japanese Aucuba



Rhododendron spp.
Azalea

Trees and Shrubs



Buddleja spp.
Butterfly Bush



Calycanthus occidentalis
Spice Bush



Camellia spp.

Trees and Shrubs



Carpenteria californicum
Bush Anemone

Cornus spp.
Dogwood



Trees and Shrubs



Daphne cneorum
Garland Daphne



Daphne odora
Winter Daphne



Daphne x transatlantica
'Eternal Fragrance'

Trees and Shrubs



Fatsia japonica
Japanese Aralia



Frangula californica
Coffeeberry



Fuchsia magellanica
Fuchsia



Gardenia jasminoides
Gardenia

Trees and Shrubs



Garrya fremontii
Fremont Silktassel



Halesia carolina
Snowdrop Tree



Heteromeles arbutifolia
Toyon



Hydrangea spp.

Trees and Shrubs



Ilex cornuta
Chinese Holly



Jasminum humile
Italian Jasmine



Jasminum floridum
Jasmine

Trees and Shrubs



Kerria japonica
Kerria



Laurus nobilis
Sweet Bay



Loropetalum chinense
Chinese Fringe Flower

Trees and Shrubs



Mahonia spp.
Grape Holly/Oregon Grape



Nandina domestica
Heavenly Bamboo



Pieris japonica

Trees and Shrubs



Rhododendron spp.



Ribes sanguinenum

Red/Pink Flowering Currant



Ribes speciosum

Fuschia-Flowering Gooseberry



Sambucus caerulea

Blue Elderberry

Trees and Shrubs



Sarcococca
Sweet Box



Spirea spp.



Symphoricarpus mollis
Snowberry

Trees and Shrubs



Taxus
Yew



Weigela spp.

Vines



Aristolochia californica
Dutchman's Pipe Vine



Campsis radicans
Trumpet Vine

Wisteria sinensis
Chinese Wisteria



Questions?



Contact Information

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Tuesday to Friday (9am to noon)

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Websites:

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www.ipm.ucdavis.edu