Video

https://www.youtube.com/watch?v=YAer4rDnA6I
Thank you to....

Today’s Hosts!

- Ruth
- Pauline
- Ginny
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 (what is our impact?)
• Publications
• Timetable/snacks/restrooms
• Contributions
Bringing Birds to your Garden

Gail Fulbeck
Pat Trimble
UCCE Master Gardeners
El Dorado County
Birds need....

Food
Water
Shelter (cover)
Plants as Food

– Start with natives
– Flowers, fruits, and seeds
– Co-evolution
Toyon

*Heteromeles arbutifolia*
Mexican elderberry
*Sambucus mexicana*
Mexican elderberry
*Sambucus mexicana*
Valley Elderberry Longhorn Beetle
*Desmocerus californicus dimorphus*

- Associated with host plant *Sambucus mexicana* all life stages (mutualism)
- Foraging activities of adults help dislodge and transfer pollen
- American River Parkway, urban riparian forest (90% has been lost to development)
- VELB listed as federally Threatened in 1980
Valley Elderberry Longhorn Beetle
Mexican elderberry
*Sambucus mexicana*
Pink flowering currant
*Ribes sanguineum*
Manzanita
Arctostaphylos
Serviceberry
Amelanchier alnifolia
Spotted Towhee
California Towhee
California Quail
Black Oak
*Quercus kelloggii*
Black Oak
*Quercus kelloggii*
Black Oak
Quercus kelloggii
Blue Oak
*Quercus douglasii*
Blue Oak
Quercus douglasii
Wood Duck
Interior Live Oak
*Quercus wislizenii*
Bullock’s Oriole
Female
Western Tanager
Western Tanager
Female
Salal

*Gaultheria shallon*
California Coffeeberry
Frangula californica
Below:  
Sierra mountain lilac  
*Ceanothus cuneatus*

Above:  
Holly Leaf Mountain Lilac  
*Ceanothus “Blue Jeans”*  
Deer Resistant
California lilac
*Ceanothus* "Ray Hartman"
Saint Catherine’s Lace

Eriogonum giganteum
Catalina Currant
Ribes viburnifolium
Snowberry
Symphoricarpos albus
Wild ginger

*Asarum canadense*
– Woodland strawberry

Wild grape
Sulphur buckwheat
*Eriogonum umbellatum*
Salvia - Sage
Sages

Only bees of right weight can push into the flower to reach nectar

Causes anthers to bend down and dust pollen on bee

Or stigma to bend & touch pollen on bee’s back
Sonoma Sage -
*Salvia sonomensis*
White-crowned Sparrow

Golden-crowned Sparrow
Anna’s Hummingbird
Rufous Hummingbird
Black-chinned Hummingbird
Insects

– Birds rely heavily on insects to feed young
96% of terrestrial bird species rear their young on insects.

Babies want bugs!
Dark-eyed Junco
Non-Bee Insect Pollinators

- Flower flies
- Ants
- Beetles
- Butterflies
- Mosquitoes
- Moths
- Wasps
Native *Prunus* = 456 species of caterpillars
Plant Choice = White Oak

<table>
<thead>
<tr>
<th>Insect/Stage</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Banded tussock moth</td>
<td>4</td>
</tr>
<tr>
<td>Nason’s slug</td>
<td>2</td>
</tr>
<tr>
<td>Pear slugs</td>
<td>104</td>
</tr>
<tr>
<td>Bagworms</td>
<td>3</td>
</tr>
<tr>
<td>Leaf-tip rollers</td>
<td>21</td>
</tr>
<tr>
<td>Yellow-necked caterpillar eggs</td>
<td>80</td>
</tr>
<tr>
<td>Yellow-necked caterpillars</td>
<td>115</td>
</tr>
<tr>
<td>Pyralid leaf rollers</td>
<td>4</td>
</tr>
<tr>
<td>Saddled prominent</td>
<td>3</td>
</tr>
<tr>
<td>Tortricid leaf tiers</td>
<td>34</td>
</tr>
<tr>
<td>Leaf miners</td>
<td>12</td>
</tr>
<tr>
<td>Geometrid inch worm</td>
<td>1</td>
</tr>
<tr>
<td>Bucculatrix ainsliella</td>
<td>1</td>
</tr>
<tr>
<td>Midrib webber</td>
<td>5</td>
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<tr>
<td>White-dotted prominent</td>
<td>2</td>
</tr>
<tr>
<td>Double-lined prominent</td>
<td>2</td>
</tr>
<tr>
<td>Douglasiidae</td>
<td>1</td>
</tr>
<tr>
<td>Lepidoptera eggs</td>
<td>12</td>
</tr>
<tr>
<td>Leaf folders</td>
<td>4</td>
</tr>
</tbody>
</table>

410 caterpillars
19 species

July 25 2014
Plant Choice = Black Cherry

<table>
<thead>
<tr>
<th>Insect</th>
<th>Count</th>
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</thead>
<tbody>
<tr>
<td>Pear slugs</td>
<td>12</td>
</tr>
<tr>
<td>Saddleback caterpillar</td>
<td>1</td>
</tr>
<tr>
<td>Leaf-tier</td>
<td>1</td>
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<tr>
<td>Tent caterpillar eggs</td>
<td>175</td>
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<tr>
<td>Tenthredinid sawfly</td>
<td>1</td>
</tr>
<tr>
<td>Bucculatrix pomifoliella</td>
<td>8</td>
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<tr>
<td>Leaf –folder</td>
<td>3</td>
</tr>
<tr>
<td>Tufted bird dropping moth</td>
<td>2</td>
</tr>
<tr>
<td>Ugly nest caterpillar</td>
<td>13</td>
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<tr>
<td>Leaf miners</td>
<td>16</td>
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<tr>
<td>Large Pyralid</td>
<td>1</td>
</tr>
<tr>
<td>Acleris variegena</td>
<td>1</td>
</tr>
<tr>
<td>Bagworm</td>
<td>1</td>
</tr>
<tr>
<td>Leaf-roller</td>
<td>4</td>
</tr>
</tbody>
</table>

239 caterpillars
14 Species

July 25 2014
Plant Choice = Bradford Pear

Geometrid inchworm 1

1 Caterpillar
1 Species
Supplemental Feeding

– Sometimes plants can’t provide enough food
– Feeders can be used to supplement the natural food you provide through plants
If you feed birds in the winter, consider joining Project Feederwatch and contribute Data to help monitor bird population trends.
Suet

– High energy food source for winter
– Woodpeckers, nuthatches, chickadees, titmice and hawks
– Feed only from October - April or May
Unexpected Consequences?
Nectar Protector
Unexpected Consequences?
Butterfly Feeders
Fermented Nectar....
Water
Birds Love Water

https://www.youtube.com/watch?v=YAer4rDnA6I
Butterflies Love Water

Puddling station
– Start with native plants
– Think diversity and layers
Rock Outcroppings
Yarrow

Sticky monkeyflower

Lupine

Linum - western blue flax

Douglas Iris

Mimulus cardinalis
Mock Orange

*Philadelphus lewisii*

Ssp. californicus ‘Covelo’
– Spice bush
– *Calycanthus occidentalis*

**Western Columbine**
*Aquilegia formosa*
Seven Tips for Landscaping for Birds
1. Provide Water
2. Plant Native Vegetation
3. Manage Pets
4. Reduce Pesticide Use
5. Limit the Amount of Lawn

6. Increase Vertical Layering

7. Provide Snags, Brush Piles, Rock Piles
National Wildlife Federation’s GARDEN FOR WILDLIFE™

Garden Certification Walk-through Checklist

It’s easier than you think to create your own wildlife garden! Use this walk-through checklist to confirm you have all the elements necessary to be certified:

*Note: this checklist is only a tool to prepare your garden, please certify online at www.nwf.org/certifiedwildlifehabitat

FOOD: Your habitat needs three of the following types of plants or supplemental feeders:

- Seeds from a plant
- Fruits
- Sap
- Pollen
- Suet
- Berries
- Bird Feeder
- Squirrel Feeder
- Hummingbird Feeder
- Nectar
- Butterfly Feeder
- Nuts
- Foliage/Twigs
Resources

- UCCE Central Sierra
  - http://ucanr.org/smartlandscape
- Cornell Lab of Ornithology
  - www.birds.cornell.edu
- Backyard Bird Problems
- University of Maine Cooperative Extension
  - http://extension.umaine.edu
- National Wildlife Federation
  - www.nwf.org
- National Audubon Society
  - www.audubon.org
Resources

- University of California Butterfly Site
  - http://butterfly.ucdavis.edu/
- Pollinator Partnership
  - http://pollinator.org
- Sherwood Demonstration Garden
  - http://mgeldorado.ucanr.edu/Demonstration_Garden/
- UC Davis Arboretum
  - Arboretum.ucdavis.edu/
- CalFlora
  - http://www.calflora.org/
Resources

- Wildlife Habitat certification
  - [Http://nwf.org/Garden-for-Wildlife/Create](http://nwf.org/Garden-for-Wildlife/Create)
- Las Pilitas Bird Gardening Plant List
  - [http://www.laspilitas.com/bird.htm](http://www.laspilitas.com/bird.htm)
THE REDBUD CHAPTER OF NEVADA AND PLACER COUNTIES

Placer and Nevada Counties are located on the western slope of the Sierra Nevada mountain range between Sacramento and Lake Tahoe. Although these two counties represent only 1.6% of the land mass of California, its vascular plants are found here. Our native plants grace the landscape in habitats from the Sacramento Valley grasslands, through the foothills, and into the high peaks of the Sierra Nevada mountain range. This land area represents a large variation in elevation, rainfall, and temperature. The snowmelt from the rugged peaks feeds the Yuba, Bear, American and Rubicon Rivers with water to support the more populous areas of the state.
UC Davis Arboretum

California Native Plant Garden
UC Davis Arboretum All-Stars

- 100 tough reliable plants
- Easy to grow
- Low water use
- Few pest/disease problems
- Outstanding garden qualities
- About 1/3 are California natives
**Plant Name:**

<table>
<thead>
<tr>
<th>Type:</th>
<th>Tree</th>
<th>Shrub</th>
<th>Groundcover</th>
<th>Vine</th>
<th>Perennial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size:</td>
<td>Small</td>
<td>Medium</td>
<td>Large</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exposure:</td>
<td>Full Sun</td>
<td>Part Shade</td>
<td>Shade</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Ceanothus maritimus 'Valley Violet'** - valley violet maritime ceanothus
  California native plant; best small ceanothus for Central Valley gardens; clusters of dark-violet flowers bloom in spring; attracts beneficial insects.
  [More Details](#)

- **Salvia apiana** - California white sage
  California native plant; spring flowers attract pollinating bees; leaves contain fragrant oils.
  [More Details](#)

- **Salvia clevelandii 'Winnifred Gilman'** - Winnifred Gilman Cleveland sage
  California native plant; evergreen shrub produces maroon-stemmed, blue-violet flowers; heat and drought tolerant; attracts hummingbirds, butterflies and beneficial insects.
  [More Details](#)

- **Viguiera parishii** - desert goldeneye
  California native plant; golden daisies blossom from early spring until mid-fall among triangular-shaped green leaves; tolerates full sun or part shade and is low maintenance.
  [More Details](#)
Sherwood Demonstration Garden

Next to Folsom Lake College, Placerville
Carpenteria californica

The granddaddy of online plant selection tools
Calochortus superbus  Yellow mariposa

1 record (1 CCH)

Calycadenia multiglandulosa  Rosin weed

3 records (2 CCH)
Toyon

*Heteromeles arbutifolia*
THE CALIFORNIA NATIVE LANDSCAPE
The Homeowner’s Design Guide to Restoring Its Beauty and Balance
GREG RUBIN & LUCY WARREN

DESIGNING CALIFORNIA NATIVE GARDENS
The Plant Community Approach to Artful, Ecological Gardens
Glen Koster and Alice Middlebrook

NATIVE TREASURES
Gardening with the Plants of California
M. Nevin Smith

- Describes the use of plants in native landscapes and gardens
- State-of-the-art propagation techniques
- Beautifully illustrated
Questions?
UCCE
El Dorado Master Gardeners

Contact us:
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mgeldorado@ucdavis.edu
Visit us at 311 Fairlane, Placerville