# WILLAMETTE UNIVERSITY GROUNDS DEPARTMENT

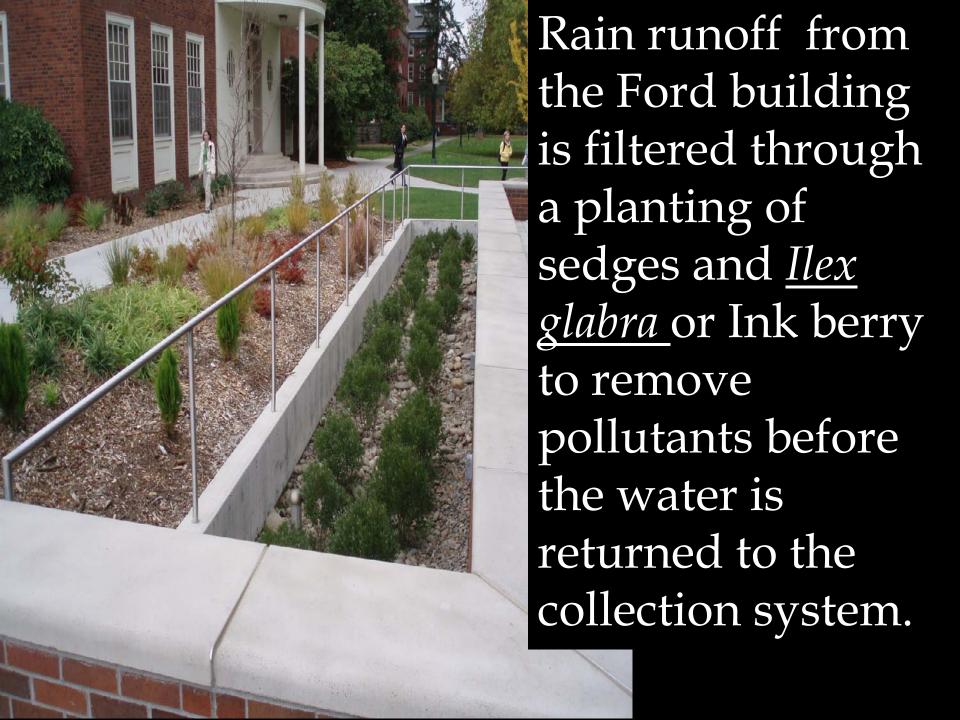
Improving the Campus Landscape Organically



The native plants along the millstream not only stabilize the stream bank but provide habitat and food for Oregon's native wildlife.

Vine maple, Douglas Spirea, Ninebark, Willow and Red Alder provide the habitat for wildlife while stabilizing the soil along the stream bank.







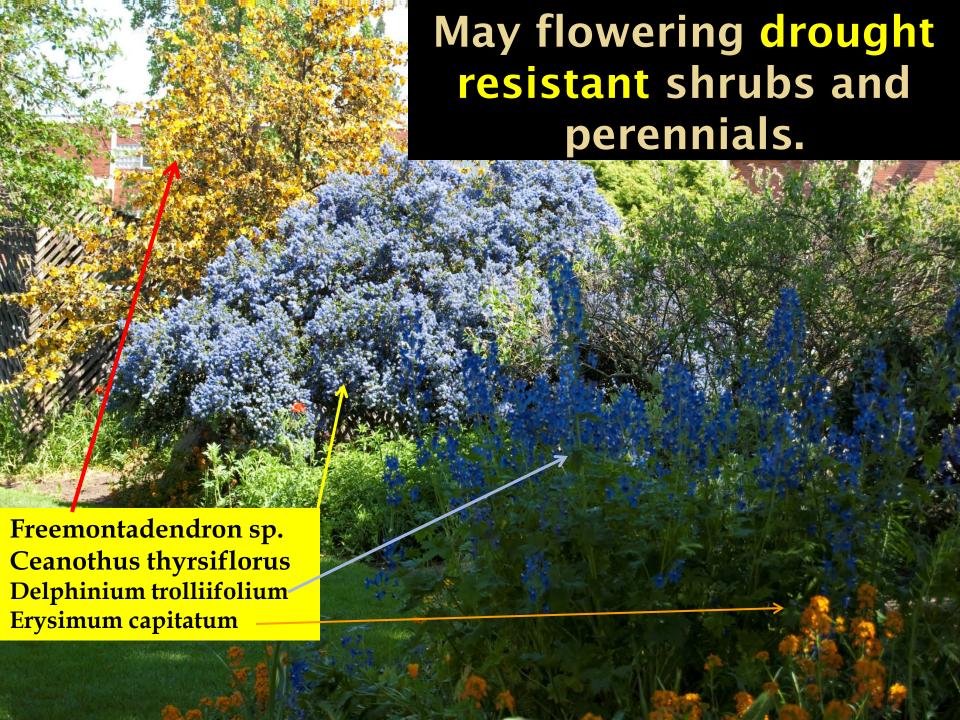
## The Martha Springer Botanical Garden

- We no longer use any petroleum based insecticides, herbicides, fungicides or fertilizers. We are accredited by Oregon Tilth.
- Water features attract wildlife and provide a relaxing setting for students and public visitors.
- The Martha Springer Botanical Garden features a collection of plants with botanical interest and features many Oregon native plants.
- We emphasis using plants that provide habitat for our native wildlife, predominantly native birds and beneficial insects.

Water Feature and native planting in Martha Springer Botanical Garden







#### Plants from the previous slide



Fremontodendron or Flannel bush a drought tolerant colorful shrub.

Delphinium trolliifolium or Cow Poison for native bumblebees





Ceanothus thyrsiflorus or California lilac attracts many native bees

Erysimum capitatum or Wallflower attracts native butterflies





plant to attract beneficial insects.

Mason bees and hover flies get an early start in spring with this self seeding winter native annual.





#### Drought tolerant - Lewsia - A native







#### Primula bulleyana in the Martha Springer Garden



Collection of unusual plants for students and interested public and students.





This is what a bushtit looks like in its nest. Remember the birds live in flocks of 40-50 birds and eat insects.



## Rudbeckia triloba (Black Eyed Susan) in the Martha Springer Garden with Praying Mantis.



### Sidalcea nelsoniana - Nelson's Checkermallow - Native of Oregon. Flowers Mid-May to fall

This
threatened
native once
was common
in the
Willamette
valley in wet
meadows that
are now rare.

The catipillar of the West Coast Lady butterfly Vanessa annabella feeds on the

Mallow plant

family.



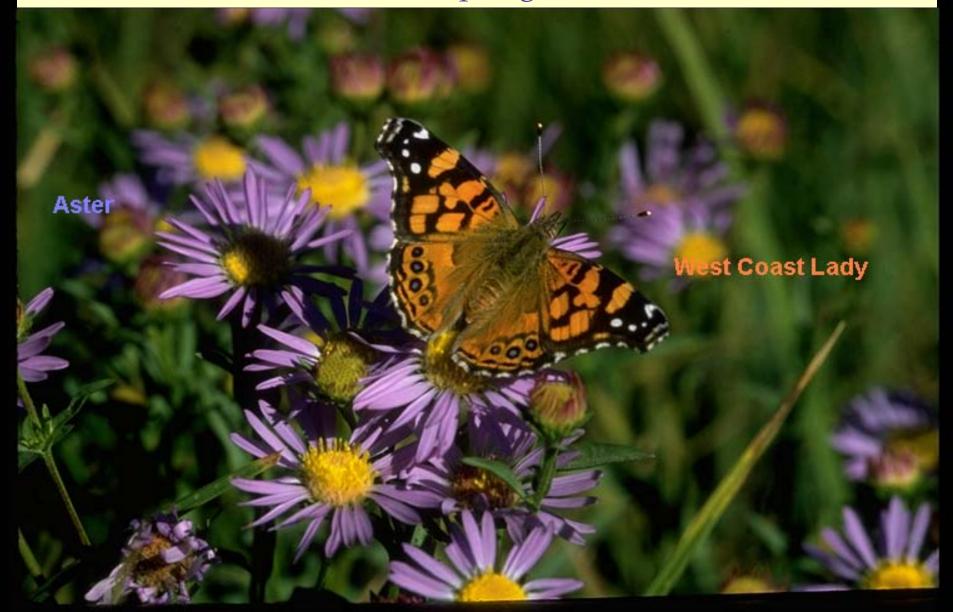
In the Martha Springer Botanical Garden the native stream violet (*viola glabella*) blooms in the spring.







In the late summer you can see butterflies and insects on the flowers in the Martha Springer Botanical Garden.





# REMOVAL OF INVASIVE IVY AND RECLAIMING LAND FOR NATIVE WILDLIFE

Reclamation Project on South East side of Sparks







After removing the ivy, soil amendments and rock terracing and structure is added to prepare for the planting of natives and xeric plants to attract wildlife.

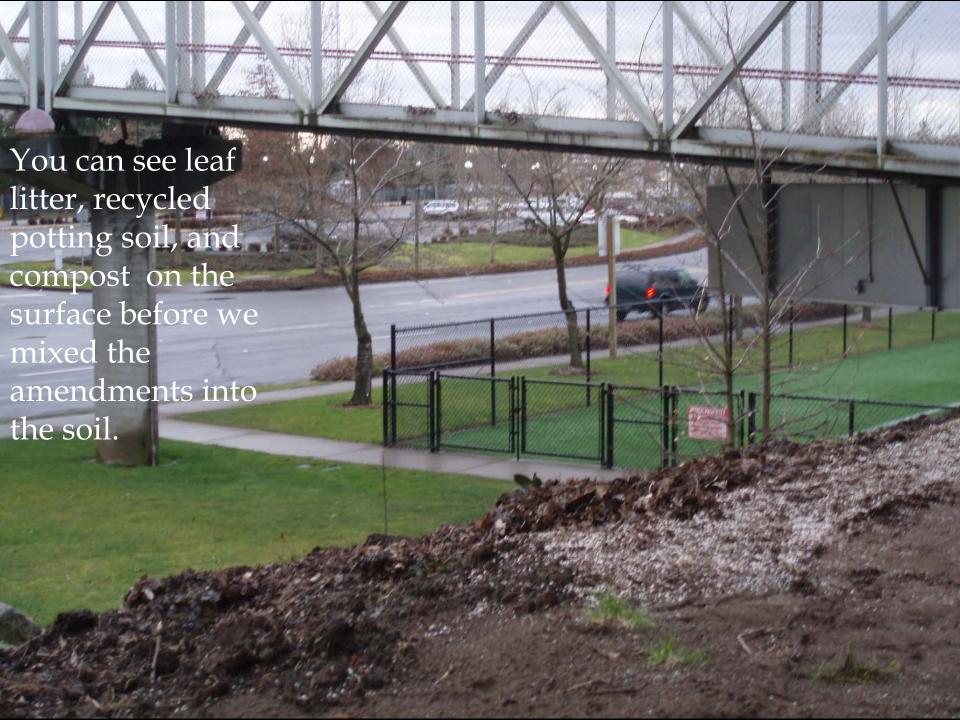


The North West side of Sparks is very hot and sunny in the summer. After removing the English Ivy the soil is being prepared for deep rooted natives that are drought tolerant. These natives will provide food and nectar for our native wildlife.

South East Sparks reclamation project in process











This is the first year after the English Ivy was removed. Some of the non- natives in this planting are annuals that fill in the space between the native Shrubs and Trees and attract native bees and butterflies.

## Some of the Plants on the 12<sup>th</sup> street site after Ivy removal

- 1. Ceanothus thyrisiflorus Blue blossom ceanothus (Coast range foothills)
- 2. Freemontodendron californicum California flannelbush
- 3. Delphinium trolliifolium Columbian larkspur
- 4. Erysimum capitatum Western Wallflower
- 5. Atriplex hortensis Red or purple orache
- 6. Eriophyllum lanatum Oregon Sunshine
- 7. Papaver rhoeas Corn Poppy
- 8. Brodea congesta Harvest Lily
- 9. Epilobium canum California fuschia
- 10. Ribes sanguineum Red Flowering Currant
- 11. Mimlus cardinalis Scarlet Monkeyflower
- 12. Lonicera cilosa Orange honeysuckle or Western Trumpet Honeysuckle
- 13. Arctostaphylos sp. Several species
- 14. Arbutus menziesii Pacific Madrone
- 15. Tsuga mertensiana Mountain hemlock
- 16. Abies grandis Grand Fir
- 17. Lithocarpus densiflorus Tanbark Oak
- 18. Umbellularia californica Oregon Myrtle
- 19. Rhododendron macrophyllum Pacific Rhododendron
- 20. Rhododendron occidentale Western Acalea
- 21. Native penstemons

Green indicates native plants

e landscape. It grows fast and is like a stained glass window where the evening sun passes through the leaves.







Oregon Sunshine – *Eriophyllum lanatum* and Corn Poppy – *Papaver rhoeas* 







Oregon Sunshine is a beautiful native composite that blooms early summer

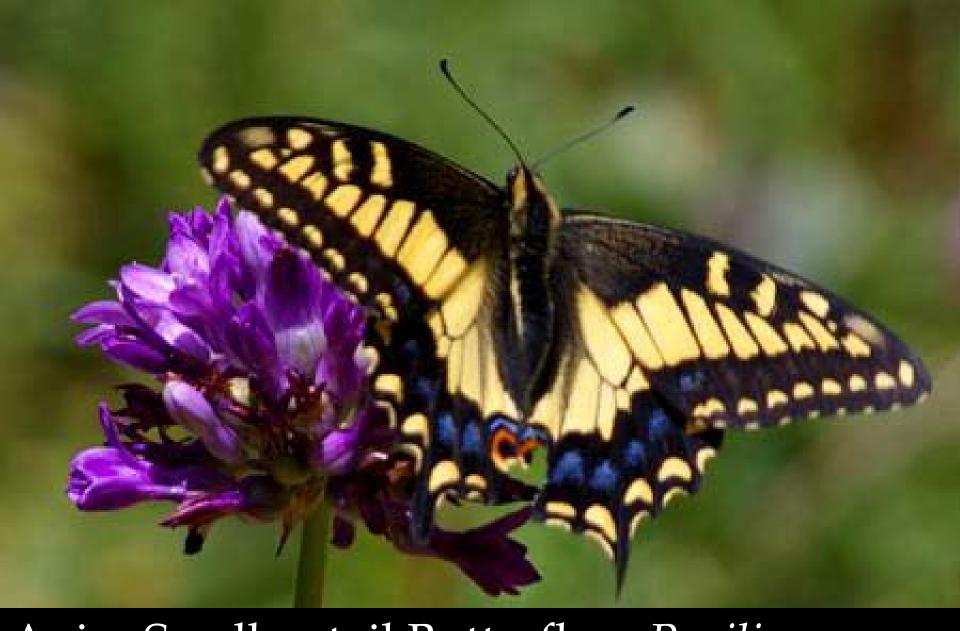
## Brodiaea congesta Harvest lily



Brodiaea congesta is a <u>native</u> blooming in late may.

Grows in dry conditions often in gravely soil at low elevations and needs no supplemental watering





Anise Swallowtail Butterfly - Papilio zelicaon - on Brodia congesta or Harvest Lily



Western Wallflower- Erysimum capitatum





Western Swallowtail Butterfly (*Papilio rutulus* ) on Native Wallflower



Included in the planting is Oregon's native milkweed (*Asclepias speciosa*) or Showy milk which supports the Monarch butterfly.













## Golden current - Ribes aureum another native for the





