

Columbines School of Botanical Studies  
 Wild Food Tending Economic Botanical Survey  
 Trip #1: Willamette Valley Oak Savannah and Riparian

Date: April 14, 2019

Abundance

- d – dominant (defines the plant community)
- a - abundant (codominant of the overstory or dominant of lower layer)
- c – common (easily seen)
- o – occasional (walk around to see)
- r – rare (trace, must search for it)

Phenology

- L - In Leaf
- FL - In Flower
- FR - In Fruit
- SN - Senescent

| Uses                             | Genus   | Name                          | Notes                   | Abun     | Phen        |
|----------------------------------|---|-------------------------------|-------------------------|----------|-------------|
| <b>Food: Roots</b>               |   |                               |                         |          |             |
|                                  | Allium sp.  | <b>Wild Onion</b>             |                         | <b>o</b> | <b>L</b>    |
|                                  | Brodiaea sp. incl Dichelostemma sp.,<br>Triteleia sp.   | <b>Harvest Lily</b>           |                         |          |             |
|                                  | Calochortus sp.   | <b>Cats Ears</b>              | No Pick                 |          |             |
|                                  | Camassia leichtlinii ssp. suksdorfii (C. l.<br>var. l.) | <b>Great Camas</b>            |                         |          |             |
|                                  | Camassia quamash  | <b>Common Camas</b>           |                         |          |             |
|                                  | Camassia sp.  | <b>Camas</b>                  |                         | <b>a</b> | <b>L-FL</b> |
|                                  | Cirsium arvense   | <b>Canada Thistle</b>         |                         |          |             |
|                                  | Cirsium vulgare   | <b>Bull Thistle</b>           |                         |          |             |
|                                  | Daucus carota   | <b>Wild Carrot</b>            |                         |          |             |
|                                  | Dichelostemma sp.                                       | <b>Harvest Lily</b>           |                         |          |             |
|                                  | Dodecatheon sp.   | <b>Shooting Star</b>          |                         | <b>r</b> | <b>FL</b>   |
|                                  | Erythronium oregonum                                    | <b>Oregon Fawn-lily</b>       | No Pick                 | <b>c</b> | <b>FL</b>   |
|                                  | Fritillaria affinis (F. lanceolata)                     | <b>Riceroor Lily</b>          | No Pick                 |          |             |
|                                  | Hypochaeris radicata                                    | <b>False Dandelion</b>        |                         |          |             |
|                                  | Lomatium bradshawii                                     | <b>Bradshaw's Lomatium</b>    | Federally<br>Endangered | <b>o</b> | <b>FL</b>   |
|                                  | Lomatium nudicaule                                      | <b>Wild Celery, "Cum-see"</b> |                         | <b>c</b> | <b>L</b>    |
|                                  | Lysichiton americanus (L. americanum)                   | <b>Skunk Cabbage</b>          | Starvation Food         |          |             |
|                                  | Osmorhiza berteroi (O. chilensis)                       | <b>Sweet Cicely</b>           |                         |          |             |
|                                  | Perideridia montana (P. gairdneri)                      | <b>Yampa</b>                  |                         | <b>?</b> | <b>L</b>    |
|                                  | Ranunculus repens                                       | <b>Creeping Buttercup</b>     | Potherb                 |          |             |
|                                  | Taraxacum officinalis                                   | <b>Dandelion</b>              |                         | <b>o</b> | <b>FL</b>   |
| <b>Food: Greens and Potherbs</b> |   |                               |                         |          |             |
|                                  | Acer circinatum   | <b>Vine Maple</b>             |                         |          |             |
|                                  | Acer macrophyllum                                       | <b>Big Leaf Maple</b>         |                         |          |             |
|                                  | Allium sp.  | <b>Wild Onion</b>             |                         | <b>o</b> | <b>L</b>    |
|                                  | Bellis perennis   | <b>Lawn Daisy</b>             |                         |          |             |
|                                  | Berberis aquifolium                                     | <b>Oregon Grape</b>           |                         | <b>c</b> | <b>FL</b>   |

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|------|--|------------------------|-------------------------|------|------|
|      | Calochortus sp.                                      | Cats Ears              | No Pick                 |      |      |
|      | Cardamine sp.  | Bittercress            |                         |      |      |
|      | cf. Cardamine sp.                                    | Bittercress            |                         |      |      |
|      | cf. Potentilla sp.                                   | Potentilla             |                         | c    | L    |
|      | Cirsium arvense                                      | Canada Thistle         |                         |      |      |
|      | Cirsium vulgare                                      | Bull Thistle           |                         |      |      |
|      | Claytonia sibirica (Montia s.)                       | Candyflower            |                         |      |      |
|      | Daucus carota  | Wild Carrot            |                         |      |      |
|      | Dodecatheon sp.                                      | Shooting Star          |                         | r    | FL   |
|      | Epilobium sp.  | Willow Herb            |                         |      |      |
|      | Erythranthe cf. guttata                              | Yellow Monkeyflower    |                         | r    | FL   |
|      | Erythronium oregonum                                 | Oregon Fawn-lily       | No Pick                 | c    | FL   |
|      | Fragaria virginiana                                  | Wild Strawberry        |                         | c    | FL   |
|      | Fritillaria affinis (F. lanceolata)                  | Riceroor Lily          | No Pick                 |      |      |
|      | Gallium aparine                                      | Bedstraw, Cleavers     |                         |      |      |
|      | Gallium sp.  | Bedstraw, Cleavers     |                         |      |      |
|      | Heracleum maximum (H. lanatum)                       | Cow Parsnip            |                         |      |      |
|      | Hydrophyllum tenuipes                                | Waterleaf              |                         |      |      |
|      | Hypochaeris radicata                                 | False Dandelion        |                         |      |      |
|      | Lamium purpureum                                     | Dead Nettle            |                         |      |      |
|      | Leucanthemum vulgare<br>(Chrysanthemum leucanthemum) | Ox Eye Daisy           |                         |      |      |
|      | Lomatium bradshawii                                  | Bradshaw's Lomatium    | Federally<br>Endangered | o    | FL   |
|      | Lomatium nudicaule                                   | Wild Celery, "Cum-see" |                         | c    | L    |
|      | Micranthes oregana (Saxifraga o.)                    | Saxifrage              |                         | c    | FL   |
|      | Oemleria cerasiformis                                | Oso Berry              |                         |      |      |
|      | Orthocarpus sp.                                      | Owl's Clover           |                         |      |      |
|      | Osmorhiza berteroi (O. chilensis)                    | Sweet Cicely           |                         |      |      |
|      | Perideridia montana (P. gairdneri)                   | Yampa                  |                         | ?    | L    |
|      | Plantago lanceolata                                  | Plantain               |                         |      |      |
|      | Plectritis congesta                                  | Rosy Plectritis        |                         | o    | FL   |
|      | Prunella vulgaris                                    | Self Heal, Heal All    |                         |      |      |
|      | Rosa sp.   | Wild Rose              |                         |      |      |
|      | Rubus bifrons (R. discolor)                          | Blackberry             |                         | c    | L    |
|      | Rubus laciniatus                                     | Evergreen Blackberry   |                         |      |      |
|      | Rubus spectabilis                                    | Salmonberry            |                         |      |      |
|      | Rubus ursinus  | Blackberry             |                         |      |      |
|      | Rumex acetosella                                     | Sheep Sorrel           |                         |      |      |
|      | Rumex obtusifolius                                   | Bitter Dock            |                         |      |      |
|      | Sambucus racemosa                                    | Red Elder              | Flowers only            |      |      |
|      | Sanguisorba sp.                                      | Burnet                 |                         |      |      |

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|------|-------------------------------------|------------------------|----------|----------|------|
|      | Sidalcea sp.                        | <b>Checker Mallow</b>  |          |          |      |
|      | Sidalcea sp. (2)                    | <b>Checker Mallow</b>  |          |          |      |
|      | Sonchus sp.                         | <b>Sow Thistle</b>     |          |          |      |
|      | Taraxacum officinalis               | <b>Dandelion</b>       |          | <b>o</b> | FL   |
|      | Trifolium pratense                  | <b>Red Clover</b>      |          |          |      |
|      | Trifolium repens                    | <b>White Clover</b>    |          |          |      |
|      | Trifolium sp.                       | <b>Native Clover</b>   |          |          |      |
|      | Trillium albidum (T. chloropetalum) | <b>Giant Trillium</b>  | No Pick  |          |      |
|      | Trillium ovatum                     | <b>Trillium</b>        | No Pick  |          |      |
|      | Urtica dioica                       | <b>Stinging Nettle</b> | Pot Herb |          |      |
|      | Veronica sp.                        | <b>Speedwell</b>       |          |          |      |

**Food: Fruits**

|  |  |                                   |           |          |    |
|--|--|-----------------------------------|-----------|----------|----|
|  | Acer circinatum                            | <b>Vine Maple</b>                 |           |          |    |
|  | Acer macrophyllum                          | <b>Big Leaf Maple</b>             |           |          |    |
|  | Amelanchier alnifolia                      | <b>Service Berry</b>              |           |          |    |
|  | Berberis aquifolium                        | <b>Oregon Grape</b>               |           | <b>c</b> | FL |
|  | Calochortus sp.                            | <b>Cats Ears</b>                  | No Pick   |          |    |
|  | Cardamine sp.                              | <b>Bittercress</b>                |           |          |    |
|  | cf. Cardamine sp.                          | <b>Bittercress</b>                |           |          |    |
|  | Crataegus monogyna                         | <b>European Hawthorne</b>         |           |          |    |
|  | Crataegus sp.                              | <b>Native Hawthorne</b>           |           |          |    |
|  | Dodecatheon sp.                            | <b>Shooting Star</b>              |           | <b>r</b> | FL |
|  | Epilobium sp.                              | <b>Willow Herb</b>                |           |          |    |
|  | Erythronium oregonum                       | <b>Oregon Fawn-lily</b>           | No Pick   | <b>c</b> | FL |
|  | Fragaria virginiana                        | <b>Wild Strawberry</b>            |           | <b>c</b> | FL |
|  | Fritillaria affinis (F. lanceolata)        | <b>Riceroot Lily</b>              | No Pick   |          |    |
|  | Lonicera involucrata                       | <b>Twinberry</b>                  |           |          |    |
|  | Maianthemum racemosum (Smilacina racemosa) | <b>Large False Solomon's Seal</b> | Cathartic |          |    |
|  | Maianthemum stellatum (Smilacina stellata) | <b>Small False Solomon's Seal</b> | Cathartic |          |    |
|  | Malus pumila (Pyrus malus)                 | <b>Apple</b>                      |           |          |    |
|  | Oemleria cerasiformis                      | <b>Oso Berry</b>                  |           |          |    |
|  | Quercus garryana                           | <b>Oregon White Oak</b>           |           | <b>d</b> | L  |
|  | Rosa sp.                                   | <b>Rosehips</b>                   |           |          |    |
|  | Rubus bifrons (R. discolor)                | <b>Blackberry</b>                 |           | <b>c</b> | L  |
|  | Rubus laciniatus                           | <b>Evergreen Blackberry</b>       |           |          |    |
|  | Rubus spectabilis                          | <b>Salmonberry</b>                |           |          |    |
|  | Rubus ursinus                              | <b>Blackberry</b>                 |           |          |    |
|  | Rumex obtusifolius                         | <b>Bitter Dock</b>                |           |          |    |

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|---|---|-------------------------------|-------------------------|----------|------|
|   | Trillium albidum (Trillium chloropetalum) | <b>Giant Trillium</b>         | No Pick                 |          |      |
|   | Trillium ovatum                           | <b>Trillium</b>               | No Pick                 |          |      |
|   | Wyethia angustifolia                      | <b>Mules Ear</b>              |                         | <b>o</b> | L    |
| <b>Food: Spices/Teas</b>                            |   |                               |                         |          |      |
|   | Achillea millefolium                      | <b>Yarrow</b>                 |                         |          |      |
|   | Asarum caudatum                           | <b>Wild Ginger</b>            |                         |          |      |
|   | Crataegus monogyna                        | <b>European Hawthorne</b>     |                         |          |      |
|   | Crataegus sp.                             | <b>Native Hawthorne</b>       |                         |          |      |
|   | Fragaria virginiana                       | <b>Wild Strawberry</b>        |                         | <b>c</b> | FL   |
|   | Heracleum maximum (H. lanatum)            | <b>Cow Parsnip</b>            | Strong                  |          |      |
|   | Lomatium bradshawii                       | <b>Bradshaw's Lomatium</b>    | Federally<br>Endangered | <b>o</b> | FL   |
|   | Lomatium nudicaule                        | <b>Wild Celery, "Cum-see"</b> |                         | <b>c</b> | L    |
|   | Mentha pulegium                           | <b>Pennyroyal</b>             |                         |          |      |
|   | Osmorhiza berteroi (O. chilensis)         | <b>Sweet Cicely</b>           |                         |          |      |
|   | Perideridia montana (P. gairdneri)        | <b>Yampa</b>                  |                         | <b>?</b> | L    |
|   | Prunella vulgaris                         | <b>Self Heal, Heal All</b>    |                         |          |      |
|   | Rosa sp.                                  | <b>Rose</b>                   |                         |          |      |
|   | Rubus bifrons (R. discolor)               | <b>Blackberry</b>             |                         | <b>c</b> | L    |
|   | Rubus laciniatus                          | <b>Evergreen Blackberry</b>   |                         |          |      |
|   | Rubus spectabilis                         | <b>Salmonberry</b>            |                         |          |      |
|   | Rubus ursinus                             | <b>Blackberry</b>             |                         |          |      |
|   | Trifolium pratense                        | <b>Red Clover</b>             |                         |          |      |
|   | Trifolium repens                          | <b>White Clover</b>           |                         |          |      |
|   | Trifolium sp.                             | <b>Native Clover</b>          |                         |          |      |
|   | Urtica dioica                             | <b>Stinging Nettle</b>        |                         |          |      |
|   | Veronica sp.                              | <b>Speedwell</b>              | Simple                  |          |      |
| <b>Alteratives incl. Diaphoretics and Diuretics</b> |   |                               |                         |          |      |
|   | Achillea millefolium                      | <b>Yarrow</b>                 | Diaphoretic             |          |      |
|   | Asarum caudatum                           | <b>Wild Ginger</b>            | Diaphoretic             |          |      |
|   | Berberis aquifolium                       | <b>Oregon Grape</b>           | Alterative              | <b>c</b> | FL   |
|   | Ceanothus cuneatus                        | <b>Red Root, Buckbrush</b>    | Alterative              | <b>o</b> | L-FL |
|   | Gallium aparine                           | <b>Bedstraw, Cleavers</b>     | Diuretic                |          |      |
|   | Gallium sp.                               | <b>Bedstraw, Cleavers</b>     | Diuretic                |          |      |
|   | Hypochaeris radicata                      | <b>False Dandelion</b>        | Alterative              |          |      |
|   | Rumex obtusifolius                        | <b>Bitter Dock</b>            | Alterative              |          |      |
|   | Sambucus racemosa                         | <b>Red Elder</b>              | Diaphoretic             |          |      |
|   | Taraxacum officinalis                     | <b>Dandelion</b>              | Alterative              | <b>o</b> | FL   |
|   | Trifolium pratense                        | <b>Red Clover</b>             | Alterative, Simple      |          |      |

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|                                | Trifolium sp.  | <b>Native Clover</b>              | Alterative, Simple      |          |      |
|                                | Urtica dioica  | <b>Stinging Nettle</b>            | Alterative              |          |      |
| <b>Aromatic/Bitters</b>        |  |                                   |                         |          |      |
|                                | Achillea millefolium                                       | <b>Yarrow</b>                     |                         |          |      |
|                                | Asarum caudatum  | <b>Wild Ginger</b>                |                         |          |      |
|                                | Berberis aquifolium  | <b>Oregon Grape</b>               | Bitter                  | <b>c</b> | FL   |
|                                | Heracleum maximum (H. lanatum)                             | <b>Cow Parsnip</b>                | Strong aromatic         |          |      |
|                                | Hypochaeris radicata                                       | <b>False Dandelion</b>            | Bitter                  |          |      |
|                                | Lomatium bradshawii  | <b>Bradshaw's Lomatium</b>        | Federally<br>Endangered | <b>o</b> | FL   |
|                                | Lomatium nudicaule   | <b>Wild Celery, "Cum-see"</b>     |                         | <b>c</b> | L    |
|                                | Mentha pulegium  | <b>Pennyroyal</b>                 |                         |          |      |
|                                | Osmorhiza berteroi (O. chilensis)                          | <b>Sweet Cicely</b>               |                         |          |      |
|                                | Rumex obtusifolius   | <b>Bitter Dock</b>                | Bitter                  |          |      |
|                                | Sonchus sp.  | <b>Sow Thistle</b>                |                         |          |      |
|                                | Taraxacum officinalis                                      | <b>Dandelion</b>                  | Bitter                  | <b>o</b> | FL   |
| <b>Astringents</b>             |  |                                   |                         |          |      |
|                                | Ceanothus cuneatus   | <b>Red Root, Buckbrush</b>        |                         | <b>o</b> | L-FL |
|                                | cf. Potentilla sp.   | <b>Potentilla</b>                 |                         | <b>c</b> | L    |
|                                | Cornus stolonifera   | <b>Creek Dogwood</b>              |                         |          |      |
|                                | Fragaria virginiana  | <b>Wild Strawberry</b>            |                         | <b>c</b> | FL   |
|                                | Geum macrophyllum  | <b>Geum, Avens</b>                |                         |          |      |
|                                | Quercus garryana   | <b>Oregon White Oak</b>           |                         | <b>d</b> | L    |
|                                | Rosa sp.   | <b>Rose</b>                       |                         |          |      |
|                                | Rubus laciniatus   | <b>Evergreen Blackberry</b>       |                         |          |      |
|                                | Rubus spectabilis  | <b>Salmonberry</b>                |                         |          |      |
|                                | Rubus ursinus  | <b>Blackberry</b>                 |                         |          |      |
|                                | Rumex obtusifolius   | <b>Bitter Dock</b>                | Mild                    |          |      |
|                                | Spirea sp.   | <b>Spirea</b>                     |                         |          |      |
| <b>Calming Herbs, Nervines</b> |  |                                   |                         |          |      |
|                                | Hypericum perforatum                                       | <b>St. John's Wort</b>            |                         |          |      |
|                                | Plectritis congesta  | <b>Rosy Plectritis</b>            |                         | <b>o</b> | FL   |
| <b>Demulcents, Emollients</b>  |  |                                   |                         |          |      |
|                                | Cynoglossum sp. incl. Adelinia sp.,<br>Andersonglossum sp. | <b>Hound's Tongue</b>             | PA's                    |          |      |
|                                | Maianthemum racemosum (Smilacina<br>racemosa)              | <b>Large False Solomon's Seal</b> |                         |          |      |

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|--|---|-----------------------------------|-----------------------------------|----------|------|
|  | Maianthemum stellatum (Smilacina stellata)        | <b>Small False Solomon's Seal</b> |                                   |          |      |
|  | Plantago lanceolata                               | <b>Plantain</b>                   |                                   |          |      |
|  | Rumex obtusifolius                                | <b>Bitter Dock</b>                | Young Leaves                      |          |      |
|  | Sidalcea sp.                                      | <b>Checker Mallow</b>             |                                   |          |      |
|  | Sidalcea sp. (2)                                  | <b>Checker Mallow</b>             |                                   |          |      |
| <b>Pain (see Tranquilizers/Muscle Relaxants)</b> |   |                                   |                                   |          |      |
|  | Heracleum maximum (H. lanatum)                    | <b>Cow Parsnip</b>                |                                   |          |      |
|  | Populus trichocarpa                               | <b>Cottonwood Buds</b>            |                                   |          |      |
|  | Quercus garryana                                  | <b>Oregon White Oak</b>           |                                   | <b>d</b> | L    |
|  | Spirea sp.  | <b>Spirea</b>                     |                                   |          |      |
| <b>Misc.</b>                                     |   |                                   |                                   |          |      |
|  | Achillea millefolium                              | <b>Yarrow</b>                     | Hemostatic                        |          |      |
|  | Ceanothus cuneatus                                | <b>Red Root, Buckbrush</b>        | Soap                              | <b>o</b> | L-FL |
|  | Crataegus monogyna                                | <b>European Hawthorne</b>         |                                   |          |      |
|  | Crataegus sp.                                     | <b>Native Hawthorne</b>           |                                   |          |      |
|  | Gallium aparine                                   | <b>Bedstraw, Cleavers</b>         | Burns                             |          |      |
|  | Gallium sp.                                       | <b>Bedstraw</b>                   | Burns                             |          |      |
|  | Iris tenax  | <b>Blue Flag</b>                  | Anti-staph (external)             |          |      |
|  | Leucanthemum vulgare (Chrysanthemum leucanthemum) | <b>Ox Eye Daisy</b>               | Allergies                         |          |      |
|  | Plantago lanceolata                               | <b>Plantain</b>                   | Drawing Poultice                  |          |      |
|  | Taraxacum officinalis                             | <b>Dandelion</b>                  | Blood Sugar, Wine, Minerals       | <b>o</b> | FL   |
|  | Trillium albidum (Trillium chloropetalum)         | <b>Giant Trillium</b>             | No Pick, Uterine Astringent       |          |      |
|  | Trillium ovatum                                   | <b>Trillium</b>                   | No Pick, Uterine Astringent       |          |      |
|  | Urtica dioica                                     | <b>Stinging Nettle</b>            | Hair, Arthritis, Fiber, Allergies |          |      |
| <b>Topics of Botanical Interest</b>              |   |                                   |                                   |          |      |
|  | Anticlea sp. (Zigadenus sp.)                      | <b>Death Camas</b>                | Poison Look-alike                 |          |      |
|  | Delphinium sp.                                    | <b>Larkspur</b>                   | Poison Look-alike                 |          |      |
|  | Dicentra formosa                                  | <b>Bleeding Heart</b>             | Poison                            |          |      |
|  | Geranium sp.                                      | <b>Geranium</b>                   | Poison Look-alike                 |          |      |
|  | Iris tenax  | <b>Blue Flag</b>                  | Camas Look-alike                  |          |      |
|  | Lysichiton americanus (L. americanum)             | <b>Skunk Cabbage</b>              | Very Big (3-4' leaves)            |          |      |

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|----------------------------|------------------------------------|--|----------------------|----------|------|
|                            | Nemophila menziesii                | <b>Baby Blue Eyes</b>                        | Pretty               | <b>o</b> | FL   |
|                            | Oenanthe sarmentosa                | <b>Pacific Water Parsley</b>                 | Poison               | <b>o</b> | L    |
|                            | Poaceae spp.                       | <b>Bunchgrass</b>                            | Ecosystem foundation | <b>d</b> | L    |
|                            | Ranunculus alismaefolius           | <b>Plantain leaved Buttercup</b>             | Poison               |          |      |
|                            | Ranunculus occidentalis            | <b>Western Buttercup</b>                     | Poison Look-alike    | <b>c</b> | L    |
|                            | Ranunculus orthorhynchus           | <b>Straightbeak Buttercup</b>                | Poison               |          |      |
|                            | Sanicula sp.                       | <b>Purple Sanicle</b>                        | Poison               |          |      |
|                            | Sisyrinchium sp.                   |  | Poison Look-alike    |          |      |
|                            | Toxicodendron diversilobum         | <b>Poison Oak, Lacquerbush, Guardian Oak</b> | Poison, Fiber        | <b>a</b> | L    |
|                            | Toxicoscordion sp. (Zigadenus sp.) | <b>Death Camas</b>                           | Poison Look-alike    |          |      |
|                            | Veratrum sp.                       | <b>Veratrum</b>                              | Very Poison          |          |      |
| <b>Animal Interactions</b> |                                    |  |                      |          |      |
|                            | Coyote Scat                        |  |                      | <b>x</b> |      |
|                            | Coyotes                            |  |                      |          |      |
|                            | Gopher Holes                       |  |                      | <b>x</b> |      |

Columbines School of Botanical Studies  
Wild Food Tending  
Field Trip #1  
April 14, 2019  
Willamette Valley Prairie, Savannah, and Woodland

Ancestral homeland of the Kalapuya peoples

Annotated plant lists

Tool overview

Tasted: *Potentilla* sp. leaf; *Fragaria virginiana* leaf; *Micranthes oregana* (*Saxifraga oregana*) leaf, stem, flower; *Lomatium nudicaule* leaf; *Erythronium oreganum* leaf; *Plectritis congesta* root, leaf and flower; *Berberis aquifolium* young leaf and flower

### **Botany**

*Lomatium bradshawii*, federally endangered and endemic to the Willamette and southern WA

Keyed: *Erythronium oreganum*

### **Willamette Valley Prairie, Oak Savannah and Woodland**

Southern Willamette Valley, we see species on the northern tip of their range here, look for pockets of unusual outliers for clues to microclimate

Oak ecosystem introduction

*Quercus garryana* as a foundation species

Looked at structure of oaks to surmise land management history and changing conditions

Observed drought-killed Douglas-fir from 2017

The “big three” cultural foods of the greater Northwest: *Lomatium* spp., *Camassia* spp., *Perideridia* spp. = Abundant staple root foods across cultures and landscapes throughout the region

Human tending through fire is necessary to maintain oak and prairie ecosystems

### **Wildcrafting**

Plant population monitoring of *Lomatium nudicaule*