



MAY 2013

### Why?

Protection of our water resources is important for our river, and associated economy; and for protection of our drinking water aquifers. Low impact development measures that help to retain stormwater and infiltrate it through the soil can be a useful for protecting water quality.

### Thank You

The City of Bend appreciates the ongoing work and advice of the Stormwater Quality Public Advisory Group (PAG) for assisting staff to create products to protect stormwater quality. Special thanks goes to Chris Hart-Henderson of Heart-Springs Landscape Design, LLC and Rick Martinson (WinterCreek Restoration) for the valuable tips herein.

### Disclaimer

The plants included here are only suggestions. The City of Bend accepts no liability should they fail or be problematic in a specific area. The lists are not meant to be intensive, but are partial lists of locally-available plants. Please contact a landscape professional for additional guidance and specific site recommendations.

# CITY OF BEND

## (UPDATED) TIPS FOR SELECTING SUITABLE PLANTS FOR RAIN GARDENS IN CENTRAL OREGON

Finding attractive, low maintenance plants that can withstand inundation periods of 24-72 hours during and after storm events, long dry periods, our cold winters, and that are typically available locally can be a challenge here in Central Oregon. Here are a few tips for your consideration.

| Native Plants for Dry and Sunny Infiltration Areas |   |       |               |     |  |  |                                   |
|--|---|-------|---------------|-----|--|--|-----------------------------------|
| Common Name  | Botanical Name  | Shade | Partial Shade | Sun | Ongoing Irrigation Needed <sup>1</sup> | No Irrigation Likely Needed Once Established | Xeriscape Guide <sup>2</sup> Page |
| Currant, Golden                                    | <i>Ribes aureum</i>                                   |       | ✓             | ✓   |  | ✓  | 16                                |
| Desert Spray                                       | <i>Holodiscus dumosus</i>                             |       |               | ✓   |  | ✓  |                                   |
| Fescue, Idaho                                      | <i>Festuca idahoensis</i>                             |       | ✓             | ✓   |  | ✓  |                                   |
| Flax, Lewis (aka Blue)                             | <i>Linum lewisii</i>                                  |       | ✓             | ✓   |  | ✓  |                                   |
| Gilia, Scarlet                                     | <i>Ipomopsis aggregata</i>                            |       | ✓             | ✓   |  | ✓  |                                   |
| Globemallow, Native                                | <i>Sphaeralcea munroana</i>                           |       | ✓             | ✓   |  | ✓  |                                   |
| Indian Blanket Flower                              | <i>Gaillardia aristata</i>                            |       | ✓             | ✓   |  | ✓  | 27                                |
| Oregon Sunshine <sup>3</sup>                       | <i>Eriophyllum lanatum</i>                            |       |               | ✓   |  | ✓  |                                   |
| Penstemons <sup>4</sup>                            | <i>Penstemon spp.</i>                                 |       | ✓             | ✓   |  | ✓  | 25                                |
| Phlox, Native Creeping                             | <i>Phlox diffusa, Phlox douglasii or Phlox hoodii</i> |       | ✓             | ✓   |  | ✓  |                                   |
| Pussytoes  | <i>Antennaria microphylla</i>                         |       | ✓             | ✓   |  | ✓  | 25                                |
| Spiraea, Douglas                                   | <i>Spiraea douglasii</i>                              |       |               | ✓   |  | ✓  |                                   |
| Great Basin Wild Rye                               | <i>Leymus cinereus</i>                                |       |               | ✓   |  | ✓  |                                   |

Not finding what you want? For dry and sunny areas, also ask your nursery specialist about appropriate varieties of *Carex* sp. (sedges), *Juncus* sp. (rushes), and *Salix* sp. (willow, such as coyote willow or lemons willow).

<sup>1</sup> Irrigation needed after first dry season. Most plants will require some irrigation to become established.

| Native Plants for Dry and Shady Areas |   |       |               |     |  |  |                                |
|---------------------------------------|---|-------|---------------|-----|--|--|--------------------------------|
| Common Name                           | Botanical Name  | Shade | Partial Shade | Sun | Ongoing Irrigation Needed <sup>1</sup> | No Irrigation Likely Needed Once Established | Xeriscape Guide Page Reference |
| Alumroot, Tall                        | <i>Heuchera cylindrica</i>                                | ✓     | ✓             |     | ✓                                      |  |                                |
| Bleeding Heart, Pacific               | <i>Dicentra Formosa</i>                                   | ✓     | ✓             |     | ✓                                      |  |                                |
| Chokecherry                           | <i>Prunus virginiana</i>                                  | ✓     | ✓             | ✓   | ✓                                      |  |                                |
| Columbine, Western                    | <i>Aquilegia Formosa</i>                                  | ✓     | ✓             |     | ✓                                      |  | 28                             |
| Elderberry, Blue                      | <i>Sambucus carulea</i>                                   | ✓     | ✓             | ✓   | ✓                                      |  |                                |
| Geranium, Native Wild                 | <i>Geranium maculatum</i>                                 | ✓     | ✓             |     | ✓                                      |  |                                |
| Grape, Creeping Oregon                | <i>Mahonia repens</i>                                     | ✓     | ✓             |     |  | ✓  | 14                             |
| Grass, Native Blue-eyed               | <i>Sisyrinchium idahoense</i>                             | ✓     | ✓             | ✓   | ✓                                      |  |                                |
| Hairgrass, Tufted                     | <i>Deschampsia caespitosa</i>                             |       | ✓             | ✓   | ✓                                      | ✓ (if in shade)                              |                                |
| Rose, Woods                           | <i>Rosa woodsii</i>                                       | ✓     | ✓             | ✓   | ✓                                      |  | 19                             |
| Serviceberry                          | <i>Amelanchier alnifolia</i> ,<br><i>Amelanchier</i> spp. | ✓     | ✓             |     |  | ✓  | 21                             |
| Snowberry                             | <i>Symphoricarpus albus</i>                               | ✓     | ✓             |     |  |  |                                |
| Spirea, Birch Leaf                    | <i>Spirea betulifolia</i>                                 | ✓     | ✓             |     | ✓                                      |  |                                |
| Spirea, Subalpine                     | <i>Spirea densiflorus</i>                                 | ✓     | ✓             |     | ✓                                      |  | 18                             |
| Strawberry, Native Woods              | <i>Fragaria vesca</i>                                     | ✓     | ✓             |     | ✓                                      |  |                                |

| Drought-Tolerant Non-Native Perennials and Grasses |  |       |               |     |  |  |                                |
|--|--|-------|---------------|-----|--|--|--------------------------------|
| Common Name  | Botanical Name                                 | Shade | Partial Shade | Sun | Ongoing Irrigation Needed <sup>1</sup> | No Irrigation Likely Needed Once Established | Xeriscape Guide Page Reference |
| Alyssum Mt. Gold                                   | <i>Alyssum montanum</i><br><i>Mt. Gold</i>     |       | ✓             | ✓   | ✓                                      |  |                                |
| Artemesia or Wormwood                              | <i>Artemesia</i> species                       |       | ✓             | ✓   | Varies                                 | Varies                                       | 21, 27                         |
| Fall Aster   | <i>Aster novi-belgii</i>                       |       | ✓             | ✓   | ✓                                      |  |                                |
| Basket of Gold                                     | <i>Aurinia saxatile</i>                        |       | ✓             | ✓   | ✓                                      |  | 27                             |
| Bishops Weed <sup>5</sup>                          | <i>Aegopodium podagraria</i>                   | ✓     |               |     | ✓                                      |  |                                |
| Black-eyed Susan                                   | <i>Rudbeckia fulgida</i><br><i>'Goldstrum'</i> |       | ✓             | ✓   | ✓                                      |  | 27                             |
| Bugleweed  | <i>Ajuga reptans</i>                           | ✓     | ✓             | ✓   | ✓                                      |  |                                |
| Catmint  | <i>Nepeta X faassenii</i>                      | ✓     | ✓             |     | ✓                                      |  |                                |
| Columbine  | <i>Aquilegia</i> species                       | ✓     | ✓             |     | ✓                                      |  | 28                             |
| Coneflower   | <i>Echinacea purpurea</i>                      |       | ✓             | ✓   | ✓                                      |  |                                |
| Coreopsis-- Tickseed                               | <i>Coreopsis</i> species                       |       | ✓             | ✓   | ✓                                      |  | 28                             |
| Indigo, False                                      | <i>Baptisia australis</i>                      |       | ✓             | ✓   | ✓                                      |  |                                |
| Fescue, Blue                                       | <i>Festuca ovina glauca</i>                    | ✓     | ✓             |     | ✓                                      |  | 23                             |

<sup>2</sup> *An Introduction to Xeriscaping in the High Desert and Pictorial Plant Guide for Central & Eastern Oregon* (2005).

<sup>3</sup> Plant higher in rain garden as this species may drown out.

<sup>4</sup> (Showy, Lowly, Blue Mt., Richardson's Cutleaf.etc) . Consult your nursery specialist for more specificity on species for varieties that will tolerate seasonal inundation, as many varieties will not.

<sup>5</sup> Use only in controlled setting. Tendency to become invasive.

## Drought-Tolerant Non-Native Perennials and Grasses (continued)

| Common Name           | Botanical Name                        | Shade | Partial Shade | Sun | Ongoing Irrigation Needed <sup>1</sup> | No Irrigation Likely Needed Once Established | Xeriscape Guide Page Reference |
|-----------------------|---------------------------------------|-------|---------------|-----|--|--|--------------------------------|
| Germander             | <i>Teucrium chaemydris</i>            |       | ✓             | ✓   | ✓                                      |  |                                |
| Grass, Blue Oat       | <i>Helictotrichon sempervirens</i>    | ✓     | ✓             | ✓   | ✓                                      |  | 22                             |
| Grass, Karl Foerster  | <i>Calamagrostis acutiflora</i>       | ✓     | ✓             | ✓   | ✓                                      |  | 22                             |
| Hairgrass, Tufted     | <i>Deschampsia caespitosa</i>         |       | ✓             | ✓   | ✓                                      | ✓ (if in shade)                              |                                |
| Hens and Chicks       | <i>Sempervivum</i> species            |       | ✓             | ✓   |  | Varies                                       | 24                             |
| Hyssop, Sunset        | <i>Agastache rupestris</i>            |       | ✓             | ✓   | ✓                                      |  | 29                             |
| Iceplant              | <i>Delosperma nubigenum</i>           |       | ✓             | ✓   |  | Varies                                       | 24                             |
| Indian Blanket Flower | <i>Gaillardia aristata</i>            |       | ✓             | ✓   |  | Varies                                       | 27                             |
| Lavender, English     | <i>Lavender angustifolia</i>          |       | ✓             | ✓   | ✓                                      |  |                                |
| Mexican Hat           | <i>Ratbida columnifera</i>            |       | ✓             | ✓   | ✓                                      |  | 31                             |
| Pasque flower         | <i>Pulsatilla</i> species             | ✓     | ✓             |     | ✓                                      |  | 30                             |
| Penstemon-Beardtongue | <i>Penstemon</i> species              |       | ✓             | ✓   | ✓                                      |  | 30                             |
| Pincushion Flower     | <i>Scabiosa</i> species               |       | ✓             | ✓   | ✓                                      |  |                                |
| Poppies, Oriental     | <i>Papaaver orientale</i>             |       | ✓             | ✓   | ✓                                      |  | 31                             |
| Red Hot Poker         | <i>Kniphofia uvaria</i>               |       | ✓             | ✓   |  | Varies                                       | 31                             |
| Sage, Russian         | <i>Perovskia atriplicifolia</i>       |       | ✓             | ✓   | ✓                                      |  | 17                             |
| Salvia or Sage        | <i>Salvia nemerosa</i> or species     |       | ✓             | ✓   | ✓                                      |  | 31                             |
| Snow-in-Summer        | <i>Cerastium tomentosum</i>           |       | ✓             | ✓   | ✓                                      |  | 26                             |
| Speedwell             | <i>Veronica</i> species               |       | ✓             | ✓   | ✓                                      |  | 26                             |
| Stonecrop             | <i>Sedum</i> species                  | ✓     | ✓             | ✓   |  | Varies                                       | 26                             |
| Thyme                 | <i>Thymus</i> species                 |       | ✓             | ✓   | ✓                                      |  | 26                             |
| Yarrow                | <i>Achillea millefolium</i> varieties |       | ✓             | ✓   |  | Varies                                       | 31                             |

## Drought-Tolerant Non-Native Shrubs and Trees

| Common Name             | Botanical Name                             | Shade | Partial Shade | Sun | Ongoing Irrigation Needed <sup>1</sup> | No Irrigation Likely Needed Once Established | Xeriscape Guide Page Reference |
|-------------------------|--|-------|---------------|-----|--|--|--------------------------------|
| Barberry                | <i>Berberis</i> species                    | ✓     | ✓             | ✓   | ✓                                      |  | 18                             |
| Bluebeard               | <i>Caryopteris x cladonensis</i>           |       | ✓             | ✓   | ✓                                      |  | 17                             |
| Chokecherry, Canada Red | <i>Prunus virginiana</i> 'Schubert'        |       | ✓             | ✓   | ✓                                      |  | 9                              |
| Crabapple               | <i>Malus</i> hybrids                       |       | ✓             | ✓   | ✓                                      |  | 9                              |
| Grape, Oregon           | <i>Mahonia aquifolium</i> or <i>repens</i> | ✓     | ✓             | ✓   | ✓                                      |  | 14                             |
| Hawthorn                | <i>Crataegus</i> species                   |       | ✓             | ✓   | ✓                                      |  | 9-10                           |
| Honeylocust             | <i>Gleditsia triacanthos</i>               |       | ✓             | ✓   | ✓                                      |  | 11                             |
| Honeysuckle Bush        | <i>Lonicera tatarica</i> 'Arnold Red'      | ✓     | ✓             | ✓   | ✓                                      |  | 20                             |
| Juniper                 | <i>Juniperus scopulorum</i>                |       | ✓             | ✓   | ✓                                      |  | 12                             |

| Drought-Tolerant Non-Native Shrubs and Trees (continued) |  |       |               |     |  |  |                                |
|--|--|-------|---------------|-----|--|--|--------------------------------|
| Common Name  | Botanical Name   | Shade | Partial Shade | Sun | Ongoing Irrigation Needed <sup>1</sup> | No Irrigation Likely Needed Once Established | Xeriscape Guide Page Reference |
| Lilac  | <i>Syringa</i> species                                 |       | ✓             | ✓   | ✓                                      |  | 21                             |
| Maple, Amur  | <i>Acer ginnala</i>                                    | ✓     | ✓             | ✓   | ✓                                      |  | 10                             |
| Nannyberry   | <i>Viburnum lentago</i>                                | ✓     | ✓             | ✓   | ✓                                      |  | 22                             |
| Ninebark   | <i>Physocarpus</i>                                     | ✓     | ✓             | ✓   | ✓                                      |  | 21                             |
| Pea Shrub, Siberian                                      | <i>Caragana arborescens</i>                            |       | ✓             | ✓   | ✓                                      |  | 21                             |
| Pear, Chanticleer  | <i>Pyrus calleryana</i><br><i>Chanticleer</i> or equal |       | ✓             | ✓   | ✓                                      |  | 10                             |
| Pine, Austrian   | <i>Pinus nigra</i>                                     |       | ✓             | ✓   | ✓                                      |  | 12                             |
| Pine, Bosnian  | <i>Pinus leucodermis</i>                               |       | ✓             | ✓   | ✓                                      |  |                                |
| Pine, Bristlecone  | <i>Pinus aristata</i>                                  |       | ✓             | ✓   | ✓                                      |  | 12                             |
| Pine, Mugo   | <i>Pinus mugo mugo</i>                                 |       | ✓             | ✓   | ✓                                      |  | 13                             |
| Pine, Vanderwolf or Limber                               | <i>Pinus flexilis</i>                                  |       | ✓             | ✓   | ✓                                      |  | 13                             |
| Potentilla   | <i>Potentilla fruticosus</i>                           |       | ✓             | ✓   | ✓                                      |  | 17                             |
| Serviceberry Tree  | <i>Amelanchier x grandiflora</i>                       | ✓     | ✓             | ✓   | ✓                                      |  | 10                             |
| Spirea   | <i>Spirea</i> species                                  | ✓     | ✓             | ✓   | ✓                                      |  |                                |
| Spruce, Dwarf  | <i>Picea pumila</i>                                    | ✓     | ✓             | ✓   | ✓                                      |  |                                |
| Sumac, Fragrant  | <i>Rhus aromatica</i>                                  |       | ✓             | ✓   | ✓                                      |  | 18                             |
| Willow, Dwarf Arctic                                     | <i>Salix purpurea</i>                                  | ✓     | ✓             | ✓   | ✓                                      |  |                                |
| Willow, Hakuro Nishiki                                   | <i>Salix integra 'Hakuro Nishiki'</i>                  | ✓     | ✓             | ✓   | ✓                                      |  |                                |

## Of Note

These plant lists are intended for use in rain garden and other bioretention facilities, detention ponds, vegetated swales or other surface infiltration facilities. This plant list assumes the facility is well drained and briefly holds rainwater. This list assumes the facility is designed to be fully drained within 24 – 72 hours after the peak rain event.

## Other Resources

- As noted in the tables, more information on several of these plants can be found in the *An Introduction to Xeriscaping in the High Desert and Pictorial Plant Guide for Central & Eastern Oregon* guide. Want a copy? Call: 541-317-3002 (when prompted, select “3”).
- Want to make a rain garden? Consider using the plants mentioned above together with the guidance in the Oregon Rain Garden Guide, available online at: <http://www.oeonline.org/our-work/rivers/stormwater/low-impact-development/rain-garden-guide>
- Want more in depth stormwater design information? Download a copy of the Central Oregon Stormwater Manual (2010), available online at: <http://www.coic.org/cd/stormwater/index.htm>

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### Accommodation Information for People with Disabilities

To obtain this information in an alternate format such as Braille, large print, electronic formats and audio cassette tape please contact the City of Bend Accessibility Manager at 541-693-2141, [Accessibility@ci.bend.or.us](mailto:Accessibility@ci.bend.or.us), and/or fax 541-385-6676.