

APPENDIX 6B
APPROVED VEGETATION LIST

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APPROVED VEGETATION LIST**

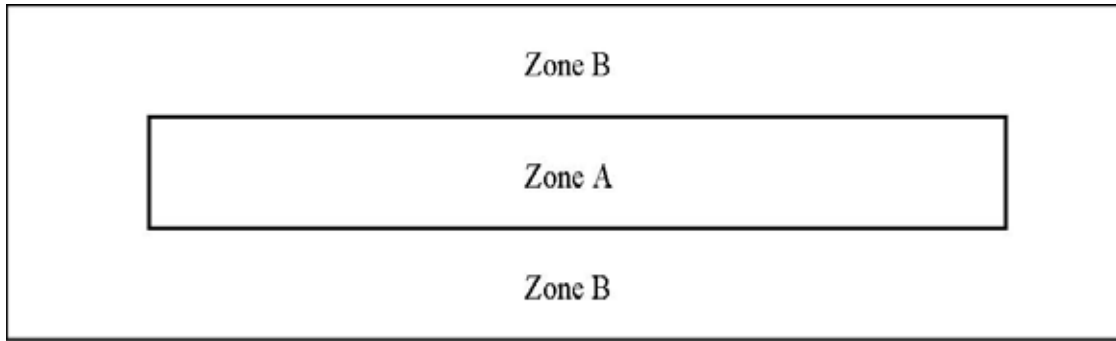
Zone A: Area of the facility defined as the bottom of the facility to the designed high water mark. This area has moist to wet soils and plants located here shall be tolerant of mild inundation.

Zone B: Area of the facility defined as the side slopes from the designed high water line up to the edge of the facility. This area typically has dryer to moist soils, with the moist soils being located further down the side slopes. Plants here should be drought tolerant and help stabilize the slopes.

Zone C/D: Area of the facility defined by the depth of the soil.

Zone W: Area of the facility defined as the bottom of the facility up to 1 foot up the side slopes. Wetland herbaceous plants (aquatic and emergent) Emergent wet to saturated.

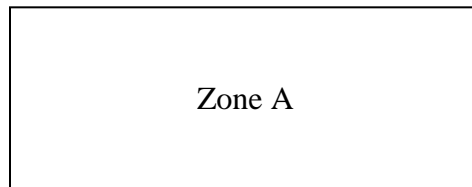
Vegetated Swale, Filter Strips Planting Zones



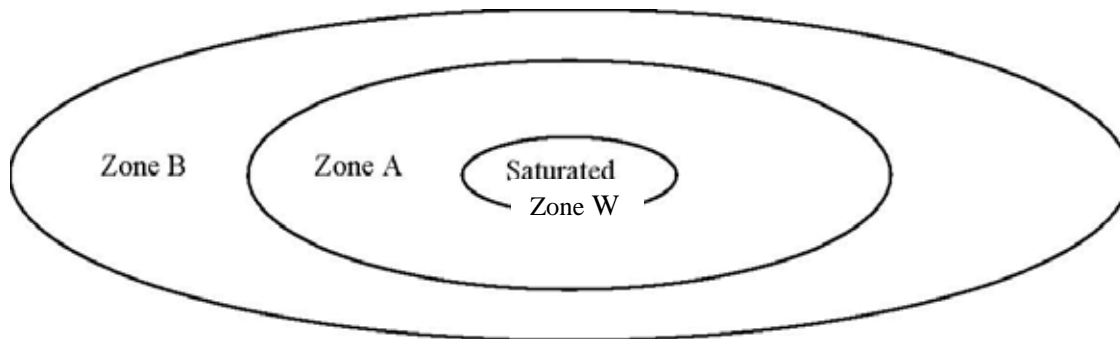
Contained Planter Zones

Note: Generally, plants requiring **moist-wet (M/W)** conditions are preferred for flow-through facilities.

Plants requiring **moist to dry (M/D)** and **wet to dry (W/D)** conditions are preferred for infiltration facilities.

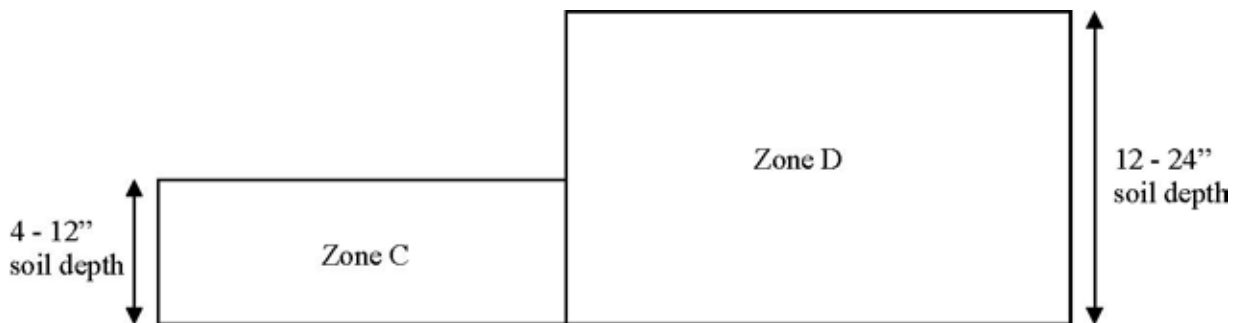


Basin, Infiltration Planter, Rain Garden, Ponds, and Constructed Wetlands Planting Zones



Eco-roof Planting Zones

For roof garden plants, it is recommended to use drought tolerant, self-sustaining native, shrubs and eco-roof plants.



Grassy Swale Native Seed Mix

Percentages are by weight:

- Hordeum brachyantherum* (Meadow Barley) = 25%
- Danthonia californica* (California Oat-grass) = 15%
- Elymus glaucus* (Blue Wild Rye) = 10%
- Bromus carinatus* (California Brome) = 10%
- Festuca romerii* (Roemer's fescue) = 10%
- Deschampsia cespitosa* (Tufted hairgrass) = 10%
- Agrostis exarata* (Spike bentgrass) = 10%
- Alopecurus geniculatus* (Water foxtail) = 5%
- Deschampsia elongata* (Slender hairgrass) = 5%

Facility Plant List

Note: Alternative plants not found on this list may be allowed with approval from City staff.

Plant Name		Proposed Facility Type					Characteristics			
Botanic Name, Common Name	Zone	Private and Public except where noted				Public	NW Native	Evergreen	Potential Height	O.C. Spacing
		Swale/Filter Strips	Contained Planter	Basin Infil. Planter Rain Garden Dry Pond	Wet Ponds C. Wetlands	Basins Ponds				
Herbaceous Plants, Ferns, Grasses										
<i>Agrostis exarata</i> , Spike Bentgrass	A	X	W/D	X		X	Y	N	36"	12"
<i>Alisma plantago-aquatica</i> var. <i>americanum</i> , Water Plantain	W				X	X	Y	N	24"	12"
<i>Allium acuminatum</i> , Hooker's Onion, Tappertip	A		M/D				Y	N	12"	12"
<i>Allium ampletens</i> , Slim Leaf Onion, Narrowleaf	A		M/D				Y	N	12"	12"
<i>Alopecurus geniculatus</i> , Water Foxtail	A	X		X	X	X	Y	Y	18"	12"
<i>Aster hallii</i> Hall's Aster	A/B	X		X	X	X	Y	N	36"	12"
<i>Aster suspicatus</i> , Douglas Aster	A/B W	X		X	X	X	Y	N	36"	12"
<i>Athyrium felix-femina</i> , Lady Fern	B	X	M	X		X	Y	N	36"	24"
<i>Beckmannia syzigachne</i> , American Slough Grass	A		M/W	X	X	X	Y	N	36"	12"
<i>Bidens cernua</i> , Nodding Beggerticks	A/B W				X	X	Y	N	24"	12"
<i>Blechnum spicant</i> , Deer Fern	B/W	X	M	X	X	X	Y	N	24"	24"
<i>Brodiaea coronaria</i> , Harvest Brodiaea, Crown Brodiaea	A		M/D				Y	N	36"	12"
<i>Bromus carinatus</i> , California Brome Grass	A/B	X	M/D	X	X	X	Y	Y	18"	12"
<i>Bromus sitchensis</i> , Alaska Brome, Sitka	A/B	X	M/D	X	X	X	Y	Y	18"	12"
<i>Bromus vulgaris</i> , Columbia Brome	A/B	X	M/D	X	X	X	Y	Y	18"	12"
<i>Camassia leichtlinii</i> , Camas Lily, Large Camas	A	X	X	X		X	Y	N	24"	12"
<i>Camassia quamash</i> , Common Camas	A/B	X	M/D	X	X	X	Y	N	24"	12"
<i>Carex deweyana</i> , Dewey Sedge	A/B	X	M/W	X	X	X	Y	Y	36"	12"
<i>Carex densa</i> , Dense Sedge	A	X	M/W	X	X	X	Y	Y	24"	12"
<i>Carex hendersonii</i> , Henderson Sedge	A			X	X	X	Y	Y	40"	24"

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		Swale/Filter Strips	Contained Planter	Basin Infil. Planter Rain Garden Dry Pond	Wet Ponds C. Wetlands	Basins Ponds				
<i>Carex obnupta</i> , Slough Sedge	A/W	X	M/W	X	X	X	Y	Y	4'	12"
<i>Carex rupestris</i> , Curly Sedge	A	X	X	X			N	Y	14"	12"
<i>Carex stipata</i> , Sawbeak Sedge	A	X	M/W	X	X	X	N	N	20"	12"
<i>Carex testacea</i> , New Zealand Orange Sedge	A	X	X	X		X	N	Y	24"	12"
<i>Carex tumulicola</i> , Foothill Sedge	A		M/D	X		X	Y	Y	24"	24"
<i>Carex unilateralis</i> , Lateral Sedge, One-sided Sedge	A	X	M/W		X		Y	N	24"	24"
<i>Carex vesicaria</i> , Inflated Sedge	A	X	X	X		X	Y	N	36"	12"
<i>Clarkia amoena</i> , Summer's Darling, Farewell To Spring	A/B	X			X	X	Y	N	24"	12"
<i>Clarkia purpurea</i> , Four Spot, Godetia	A/B	X			X	X	Y	N	36"	12"
<i>Collomia grandiflora</i> , Large Leaf Collomia	A/B	X			X	X	Y	N	36"	12"
<i>Danthonia californica</i> , California Oatgrass	A/B	X		X	X	X	Y	Y	18"	24"
<i>Deschampsia cespitosa</i> , Tufted Hair Grass	A/B	X	M/D	X	X	X	Y	N	36"	12"
<i>Deschampsia elongate</i> , Slender Hairgrass	A	X	M/D	X		X	Y	N	36"	12"
<i>Dichelostemma congestum</i> , Ookow	A		M/D				Y	N	36"	12"
<i>Downingia elegans</i> , Calico Flower	A	X					Y	N	12"	12"
<i>Eleocharis acicularis</i> , Needle Spike Rush	A	X	M/W	X		X	Y	Y	30"	12"
<i>Eleocharis ovata</i> , Ovate Spike Rush	A/W	X	M/W	X	X	X	Y	Y	30"	12"
<i>Eleocharis palustris</i> , Creeping Spike Rush	A/W	X	M/W	X	X	X	Y	Y	30"	12"
<i>Elymus glaucus</i> , Blue Wild Rye	A/B	X	M/D	X	X	X	Y	Y	24"	12"
<i>Elymus trachycaulus</i> , Slender or Bearded Wheatgrass	A		M/D				Y	Y	36"	12"
<i>Epilobium densiflora</i> , Dense Spike Primrose	A/B	X			X	X	Y	N	36"	12"
<i>Eriophyllum lanatum</i> , Oregon Sunshine	A/B	X			X	X	Y	N	18"	12"

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		Swale/Filter Strips	Contained Planter	Basin Infil. Planter Rain Garden Dry Pond	Wet Ponds C. Wetlands	Basins Ponds				
<i>Festuca occidentalis</i> , Western Fescue Grass	A	X	M/D	X		X	Y	N	24"	12"
<i>Festuca roemerii</i> var. <i>roemerii</i> , Roemer's Fescue	A/B	X	D	X	X	X	Y	Y	24"	12"
<i>Festuca rubra</i> , Red Fescue - this is a coastal native	B	X	M/D	X		X	Y	Y	24"	12"
<i>Glyceria occidentalis</i> , Western Manna Grass	A/B W	X	M/W	X	X	X	Y	Y	18"	12"
<i>Grindelia integrifolia</i> , Gumweed	A/B	X			X	X	Y	Y	30"	12"
<i>Hebe 'Autumn Glory'</i> , Hebe	B	X		X			N	Y	14"	12"
<i>Hordeum brachyantherum</i> , Meadow Barley	A	X		X		X	Y	N	30"	12"
<i>Iris douglasiana</i> , Douglas Iris - this is a coastal native	B	X		X		X	Y	N	18"	12"
<i>Iris sibirica</i> , Siberian Iris	A	X	X	X			N	N	36"	12"
<i>Iris tenax</i> , Oregon Iris	A/B	X	M/D	X	X	X	Y	N	18"	12"
<i>Juncus acuminatus</i> , Tapertip Rush, Sharp Fruited Rush	A	X	M/W		X	X	Y	N	36"	12"
<i>Juncus balticus</i> , Baltic Rush	A	X	X	X		X	Y	N	20"	12"
<i>Juncus effusus</i> var. <i>pacificus</i> , or var. <i>gracilis</i> Soft rush, Lamp Rush, Common or Pacific Rush	A/W	X	M/W	X	X	X	Y	Y	36"	12"
<i>Juncus ensifolius</i> , Dagger-leaf Rush	A/W	X	M/W	X	X	X	Y	N	10"	12"
<i>Juncus oxymiris</i> , Pointed Rush	A/W	X			X	X	Y	Y	24"	12"
<i>Juncus patens</i> , Spreading Rush, Grooved Rush	A/W	X	M/W	X	X	X	Y	Y	36"	12"
<i>Juncus tenuis</i> , Slender Rush	A/W	X	M/W	X	X	X	Y	Y	36"	12"
<i>Koeleria macrantha</i> , Junegrass	A	X	M/D		X	X	Y	Y	24"	12"
<i>Lemna minor</i> , Common Lesser Duckweed	W				X	X	Y	Y	3"	12"
<i>Lupinus micranthus</i> , Small Flowered Lupine	B	X		X		X	Y	N	18"	12"

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		Swale/Filter Strips	Contained Planter	Basin Infil. Planter Rain Garden Dry Pond	Wet Ponds C. Wetlands	Basins Ponds				
<i>Lupinus polyphyllus</i> , Large-leaved Lupine	A/B	X		X	X	X	Y	N	36"	12"
<i>Lupinus rivularis</i> , Riverbank Lupine	A/B	X		X	X	X	Y	N	36"	12"
<i>Madia elegans</i> , Showy Tarweed	A/B	X			X	X	Y	N	4'	12"
<i>Myosotis laxa</i> , Small-flowered Forget-Me-Not	A/W				X	X	Y	N	18"	12'
<i>Plagiobothrys figuratus</i> , Popcorn Flower	A	X					Y	N	12"	12"
<i>Polypodium glycyrrhiza</i> , Licorice Fern	A	X	X	X		X	Y	Y	12"	12"
<i>Polystichum munitum</i> , Sword Fern	A/B W	X	X	X	X	X	Y	Y	24'	24"
<i>Potamogeton natans</i> , Floating-leaved Pondweed	W				X	X	Y	Y	18"	12"
<i>Potentilla gracilis</i> var. <i>gracilis</i> , Graceful Cinquefoil	A/B	X			X	X	Y	N	24"	12"
<i>Prunella vulgaris</i> var. <i>vulgaris</i> , Heal All	A/B	X			X	X	N	Y	18"	12"
<i>Pteridium aquilinum</i> , Bracken Fern	A/B	X	X	X		X	Y	Y	5'	12"
<i>Ranunculus occidentalis</i> , Western Buttercup	A/B	X			X	X	Y	N	18"	12"
<i>Sagittaria latifolia</i> , Wapato	W				X	X	Y	N	24"	12"
<i>Scirpus acutus</i> , Hardstem Bulrush	A/W	X	M/ W	X	X		N	N	10"	12"
<i>Scirpus americanus</i> , American Bulrush, Three Square	A	X	X	X		X	Y	Y	30"	12"
<i>Scirpus microcarpus</i> , Small Fruited Bulrush	AB	X	M/ W	X	X	X	Y	Y	24"	12"
<i>Scirpus validus</i> , Softstem Bulrush	A	X	X	X	X		N	N	5'	12"
<i>Sedum oreganum</i> , Oregon Stonecrop	A/B	X	D				Y	Y	4"	12"
<i>Sidalcea campestris</i> , Meadow Sidalcea	B					X	Y	N	5'	12"
<i>Sidalcea nelsoniana</i> , Nelson's Checkermallow	B					X	Y	N	5'	12"
<i>Sisyrinchium californicum</i> , Yellow-eyed Grass	A/B	X	X	X			N	Y	6"	12"

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		Swale/Filter Strips	Contained Planter	Basin Infil. Planter Rain Garden Dry Pond	Wet Ponds C. Wetlands	Basins Ponds				
<i>Sisyrinchium douglasii</i> , Purple-eyed Grass	A		M				Y	Y	12"	12"
<i>Sisyrinchium idahoense</i> (or <i>S.angustifolium</i> ; <i>S.bellum</i>), Blue-eyed Grass	A/B	X	M	X	X	X	N	Y	6"	12"
<i>Sparganium emersum</i> , Narrowleaf Bur-reed	W				X	X	Y	N	24"	12"
<i>Veronica Americana</i> , American Speedwell, Brooklime	W				X		Y	N	6"	12"
<i>Veronica liwanensis</i> , Speedwell	A/W	X		X	X		N	N	2"	12"
<i>Viola palustris</i> , Marsh Violet	A/W				X	X	Y	N	6"	6"
Large Shrubs and Small Trees										
<i>Acer circinatum</i> , Vine Maple	A/B W	X	M/ W	X	X	X	Y	N	15'	10'
<i>Amelanchier alnifolia</i> , Western (Saskatoon) Serviceberry	B	X	D	X	X	X	Y	N	20'	10'
<i>Ceanothus cuneatus</i> , Buckbrush	B	X		X	X	X	Y	Y	12'	10'
<i>Ceanothus integerrimus</i> , Deerbrush	B	X		X	X	X	Y	Y	13'	10'
<i>Ceanothus sanguineus</i> , Oregon Redstem Ceanothus	B	X		X		X	Y	Y	7'	4'
<i>Holodiscus discolor</i> , Oceanspray	B	X		X	X	X	Y	N	6'	4'
<i>Lonicera involucrata</i> , Black Twinberry	B	X		X	X	X	Y	N	5'	4'
<i>Oemleria cerasiformis</i> , Indian Plum, Osoberry	A/B W	X	M/D	X	X	X	Y	N	6'	4'
<i>Philadelphus lewisii</i> , Wild Mock Orange	B	X	M/D	X	X	X	Y	N	6'	4'
<i>Ribes sanguineum</i> , Red-flowering Current	B	X	M/D	X	X	X	Y	N	8'	4'
<i>Rubus parviflorus</i> , Thimbleberry	A/B	X	M/D	X	X	X	Y	N	8'	4'
<i>Rubus spectabilis</i> , Salmonberry	A/W	X	X	X	X	X	Y	N	10'	4'
<i>Salix fluviatilis</i> , Columbia Willow	A/B W	X	X	X	X	X	N	N	13'	6'

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<i>Salix lucida</i> var. 'Lasiandra', Pacific Willow	A/W	X	X	X	X	X	Y	N	13'	6'
<i>Salix purpurea nana</i> , Blue Arctic Willow	B	X		X			N	N	8'	6'
<i>Salix sessilifolia</i> , Soft Leafed Willow	A	X	M/W				Y	N	15'	6'
<i>Salix stichensis</i> , Sitka Willow	A/W	X	M/W	X	X	X	Y	N	20'	6'
<i>Sambucus cerulea</i> , Blue Elderberry	A/B	X		X	X	X	Y	N	10'	10'
<i>Sambucus racemosa</i> , Red Elderberry	A/B	X		X	X	X	Y	N	10'	10'
<i>Spiraea betulifolia</i> , Birchleaf Spiraea, Shinyleaf	A				X	X	Y	N	24"	24"
<i>Spiraea douglasii</i> , Douglas Spiraea	A/B	X	M/W	X	X	X	Y	N	7'	4'
<i>Viburnum edule</i> , Highbush Cranberry; Squashberry	A/B	X	M	X	X	X	Y	N	6'	4'
Shrubs										
<i>Ceanothus velutinus</i> , Snowbrush	B	X	M/D	X		X	Y	Y	4'	3'
<i>Cornus sericea</i> , Red-twig Dogwood	A/W	X	M/W	X	X	X	Y	N	6'	4'
<i>Cornus sericea</i> 'Kelseyii', Kelsey Dogwood	B	X		X		X	N	N	24"	24"
<i>Gaultheria shallon</i> , Salal	B	X	M/D	X		X	Y	Y	24"	24"
<i>Mahonia (or Berberis) aquifolium</i> , Tall Oregon Grape	A/B	X	M/D	X	X	X	Y	Y	5'	3'
<i>Mahonia nervosa</i> , Dull Oregon Grape	A/B	X	M/D	X	X	X	Y	Y	24"	24"
<i>Physocarpus capitatus</i> , Pacific Ninebark	A/B W	X	M/W	X	X	X	Y	N	10'	3'
<i>Rosa gymnocarpa</i> , Baldhip Rose	B/W	X	M/D	X	X	X	Y	N	3'	3'
<i>Rosa nutkana</i> , Nootka Rose	A/B	X	M/D	X	X	X	Y	N	8'	3'
<i>Rosa pisocarpa</i> , Swamp Rose	A/B W	X	M/D	X	X	X	Y	N	8'	3'
<i>Symphoricarpos alba</i> , Common Snowberry	A/B	X	M/D	X	X	X	Y	N	6'	3'

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Groundcover										
Arctostaphylos uva-uris, Kinnickinnick	B	X		X	X	X	Y	Y	6"	12"
<i>Fragaria chiloensis</i> , Coastal Strawberry	B	X		X		X	Y	Y	6"	12"
<i>Fragaria vesca</i> , Woodland Strawberry	A/B	X		X	X	X	N	Y	10"	12"
<i>Fragaria virginiana</i> , Wild Strawberry	A/B	X		X	X	X	N	Y	10"	12"
<i>Helictotrichon sempervirens</i> , Blue Oat Grass	B	X		X			N	Y	24"	12"
<i>Mahonia repens</i> Creeping Oregon Grape – not a Lane County native	B	X		X			Y	Y	12"	12"
Trees										
<i>Abies grandis</i> , Grand Fir	A/B	X		X	X	X	Y	Y	150'	
<i>Acer griseum</i> , Paperbark Maple	A/B	X		X	X		N	N	30'	
<i>Acer macrophyllum</i> , Big Leaf Maple	B	X		X	X	X	Y	Y	60'	
<i>Alnus rhombifolia</i> , White Alder	A	X		X	X	X	Y	N	80'	
<i>Alnus rubra</i> , Red Alder	A/W	X		X	X	X	Y	N	80'	
<i>Arbutus menziesii</i> , Madrone	B	X		X	X	X	Y	N	35'	
<i>Betula papyrifera</i> , var. <i>papyrifera</i> , Paperbark Birch – Eastern OR. Native	B					X	N	N	60'	
<i>Calocedrus decurrens</i> , Incense Cedar	B	X		X	X	X	Y	Y	150'	
<i>Castanopsis chrysopylla</i> Chinquapin, Giant, Golden	B			X	X	X	Y	Y	90'	
<i>Celtis reticulata</i> , Netleaf Hackberry- Eastern OR. Native	B			X		X	N	N	20'	
<i>Cornus nuttallii</i> , Western Flowering Dogwood	A/B	X		X	X	X	Y	N	20'	
<i>Corylus cornuta</i> , Western Beaked Hazelnut	B	X		X	X	X	N	N	40'	
<i>Corylus cornuta</i> , California Hazelnut	B	X		X	X	X	Y	N	40'	
<i>Crataegus douglasii</i> (or <i>C. suksdorfii</i>), Black Hawthorn	A/W	X	M/W	X	X	X	Y	N	40'	10'

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<i>Fraxinus latifolia</i> , Oregon Ash	A/B W	X		X	X	X	Y	N	30'	
<i>Malus fusca</i> , Pacific Crabapple	A/W	X	M/ W	X	X	X	Y	N	30'	10'
<i>Metasequoia glyptostroboides</i> , Dawn Redwood	B			X		X	N	N	80'	
<i>Pinus monticola</i> , Western White Pine	A/B	X		X	X	X	Y	Y	90'	
<i>Pinus ponderosa</i> , Ponderosa Pine	B	X		X	X	X	Y	Y	70'	
<i>Populus balsamifera</i> , Black Cottonwood	A/B	X		X	X	X	Y	N	100'	
<i>Populus tremuloides</i> , Quaking Aspen	A			X		X	Y	N	40'	
<i>Prunus emarginata</i> var. <i>mollis</i> , or <i>P. virginiana</i>), Bitter or Choke Cherry	A/B W	X	M	X	X	X	Y	N	50'	
<i>Pseudotsuga menziesii</i> , Douglas Fir	A/B	X		X	X	X	Y	Y	200'	
<i>Quercus garryana</i> , Oregon White Oak	B	X		X	X	X	Y	N	100'	
<i>Quercus kelloggii</i> , California Black Oak	B	X		X	X	X	Y	N	100'	
<i>Rhamnus purshiana</i> , Cascara	A/B W	X	W/D	X	X	X	Y	N	30'	
<i>Salix hookeriana</i> , Hooker's Willow, Piper's Willow	A/B W	X	M/ W	X	X	X	Y	N	15'	
<i>Salix scouleriana</i> , Scouler's Willow	A/B W	X	M/ W	X	X	X	Y	N	15'	
<i>Sequoia sempervirens</i> , Coast Redwood	A				X		Y	Y	150'	
<i>Thuja plicata</i> , Western Red Cedar	A/W	X		X	X	X	Y	Y	150'	
<i>Tsuga heterophylla</i> , Western Hemlock	A	X		X		X	Y	Y	125'	
<i>Tsuga mertensiana</i> , Mountain Hemlock	B	X		X		X	Y	Y	125'	

Ecoroof Plant List

Note: Alternative plants not found on this list may be allowed with approval from City staff.

Plant Name <i>Botanic Name, Common Name</i>	Characteristics						
	Zone	NW Native	Evergreen	Potential Hgt.	O.C. Spacing	Full Sun	Partial Shade
Sedums and Succulents							
<i>Delosperma cooper</i> , Ice Plant <i>Delosperma nubegenum</i> , Ice Plant	C	N	Y	4"		X	
<i>Malephora crocea</i> var. <i>purpureo crocea</i> 'Tequila Sunrise', Coppery Mesemb	C	N	Y	10"		X	
* <i>Sedum telephium</i> varieties including 'Autumn Joy' and 'Variegatum' Stonecrop	C	N	N	24"		X	
<i>Sedum acre</i> , Biting Stonecrop	C	N	Y	2"		X	
* <i>Sedum album</i> , White Stonecrop	C	N	Y	3"		X	
<i>Sedum divergens</i> , Pacific Stonecrop	C	N	Y	3"		X	
<i>Sedum hispanicum</i> , Spanish Stonecrop	C	N	Y	3"		X	
<i>Sedum kamtschaticum</i> , Kirinso	C	N	N	6"		X	
* <i>Sedum oreganum</i> , Oregon Stonecrop	C	Y	Y	4"		X	X
<i>Sedum sexangular</i> , Tasteless Stonecrop	C	N	Y	4"		X	
* <i>Sedum spathulifolium</i> , Stonecrop	C	Y	Y	4"		X	
* <i>Sedum spurium</i> varieties, Stonecrop	C	N	Y	6"		X	X
* <i>Sempervivum tectorum</i> , Hens and Chicks	C	N	Y	6"		X	
Herbaceous Plants							
<i>Achillea ageratifolia</i> , Greek Yarrow	C	N	N	36"		X	
<i>Achillea millefolium</i> , Common Yarrow	C	N	N	36"		X	
<i>Achillea tomentosa</i> , Woolly Yarrow	C	N	N	8"		X	
<i>Allium acuminatum</i> , Hooker's Onion	C	Y	N	20"		X	X
<i>Allium amplexans</i> , Slim Leaf Onion	C	Y	N	20"		X	X
<i>Arenaria montana</i> , Sandwort	C	N	N	4"		X	
<i>Artemesia</i> 'Silver Mound', Artemesia	C	N	N	12"		X	
<i>Aurinia saxatilis</i> , 'Compacta', Alyssum Saxatile	C	N	N	6"		X	
<i>Brodiaea congesta</i> , Harvest Brodiaea	C	Y	N	20"		X	X
<i>Castilleja foliosa</i> , Indian Paintbrush	C	Y	N	10"		X	
* <i>Cerastium tomentosum</i> , Snow-in-Summer	C	N	Y	8"		X	X
<i>Clarkia amoena</i> , Summer's Darling	C	Y	N	30"		X	
<i>Clarkia purpurea</i> , Four Spot, Godetia	C	Y	N	30"		X	
<i>Dianthus alwoodii</i> , Pink <i>Dianthus deltoids</i> , Maiden Pink	C	N	N	12"		X	X
<i>Dichelostemma congestum</i> , Ookow	C	Y	N	20"		X	
<i>Erigeron discoideus</i> , Fleabane	C	N	N	12"		X	X
<i>Festuca glauca</i> , Blue Fescue	C	N	Y	12"		X	X
<i>Fragaria chiloensis</i> , Coastal Strawberry <i>Fragaria virginiana</i> , Wild Strawberry	C	Y	Y	10"		X	X
<i>Fragaria vesca</i> , Woodland Strawberry	C	Y	Y	10"		X	X
<i>Gaillardia aristata</i> , Birds-eye gilia	C	N	N	20"		X	X
<i>Gazania linearis</i> var. 'Colorado Gold', Gazania	C	N	N	6"		X	

Plant Name		Characteristics					
Botanic Name, Common Name	Zone	NW Native	Evergreen	Potential Hgt.	O.C. Spacing	Full Sun	Partial Shade
* <i>Gilia capitata</i> , Blue Thimble Flower	C	Y	N	12"		X	
<i>Koeleria macrantha</i> , June Grass	C	N	N	24"		X	X
<i>Linaria reticulata</i> , Purplenet Toadflax	C	N	N	20"		X	
<i>Lobularia maritima</i> , Sweet Alyssum	C	N	N	12"		X	
<i>Nierembergia repens</i> , Cup Flower	C	N	Y	6"		X	X
* <i>Polypodium glycyrrhiza</i> , Licorice Fern	C	Y	Y	12"		X	X
* <i>Polystichum munitum</i> , Sword Fern	C	Y	Y	24"		X	X
<i>Potentilla nepalensis</i> , Nepal Cinquefoil	C	N	N	14"		X	X
<i>Potentilla neumanniana</i> , Cinquefoil	C	N	N	14"		X	
<i>Thymus serpyllum</i> , Creeping Thyme, Mother of Thyme	C	N	N	3"		X	
<i>Thymus vulgaris</i> , Common Thyme	D	N	Y	12"		X	X
<i>Veronica liwanensis</i> , Speedwell	C	N	N	2"		X	X
Shrubs							
<i>Amalanchier alnifolia</i> , Saskatoon Serviceberry	D	Y	N	20'		X	
<i>Berberis thunbergii</i> , Japanese Barberry	D	N	N	4'		X	
<i>Gaultheria shallon</i> , Salal	D	Y	Y	24"		X	X
<i>Lavandula angustifolia</i> 'Hidcote', Dwarf English Lavander	D	N	Y	30"		X	
<i>Mahonia aquifolium</i> , Oregon Grape	D	Y	Y	5'		X	X
<i>Mahonia nervosa</i> , Dull Oregon Grape	D	Y	Y	24"		X	X
<i>Mahonia repens</i> , Creeping Oregon Grape	D	Y	Y	12"		X	X
<i>Nanadina domestica</i> , Heavenly Bamboo	D	N	N	4'		X	X
<i>Ribes sanguineum</i> , Red-Flowering Current	D	Y	N	12'		X	X
<i>Rosa nutkana</i> , Nootka Rose	D	Y	N	10'		X	
<i>Symphoricarpos mollis</i> , Creeping Snowberry	D	Y	N	18"		X	X

* Indicates that Portland's Bureau of Environmental Services has observed these plants generally survive in ecoroof areas that do not receive summer irrigation. Most of these locations have moderate to deep shade. To date, these plants appear very stressed by the end of summer, but they have come back each year. It is likely that many of the other plants listed above could survive in such conditions without irrigation.

Greenstreet Plant List

Note: Alternative plants not found on this list may be allowed with approval from City staff.

Plant Name <i>Botanic Name, Common Name</i>	Facility Type			Characteristics					
	Zone	Swale	Curb Extension	Planter	NW Native	Evergreen	Potential Height.	O.C. Spacing	Under Powerline
Herbaceous Plants									
<i>Camassia leichtlini</i> , Great Camas	A/B	X	X	X	Y	N	24"	12"	
<i>Camassia quamash</i> , Common Camas	A/B	X	X	X	Y	N	24"	12"	
<i>Carex comans</i> , New Zealand Hair Sedge	A	X	X	X		Y	18"	12"	
<i>Carex densa</i> , Dense Sedge	A	X	X	X	Y	Y	24"	12"	
<i>Carex obnupta</i> , Slough Sedge	A	X	X	X	Y	Y	4'	12"	
<i>Carex stipata</i> , Sawbeak Sedge	A	X	X	X	N	N	20"	12"	
<i>Carex testacea</i> , New Zealand Orange Sedge	A	X	X	X	N	Y	24"	12"	
<i>Deschampsia cespitosa</i> , Tufted Hair Grass	A/B	X	X	X	Y	N	36"	12"	
<i>Iris douglasiana</i> , Douglas Iris	B	X	X		Y	N	18"	12"	
<i>Iris tenax</i> , Oregon Iris	B	X	X		Y	N	18"	12"	
<i>Juncus patens</i> , Spreading Rush	A	X	X	X	N	Y	36"	12"	
<i>Polystichum munitum</i> , Sword Fern	A/B	X	X		Y	Y	24"	24"	
Shrubs									
<i>Cornus sericea</i> 'Kelseyii', Kelsey Dogwood	A/B	X	X	X	N	N	24"	24"	
<i>Euonymus japonicus</i> 'Microphyllus' Boxleaf Evergreen Euonymus	B	X	X		N	Y	24"	24"	
<i>Gaultheria shallon</i> , Salal	B	X	X		Y	Y	24"	24"	
<i>Lavandula angustifolia</i> 'Hidcote Blue', Dwarf Lavander	B	X	X		N	N	24"	24"	
<i>Mahonia nervosa</i> , Dull Oregon Grape	B	X	X		Y	Y	24"	24"	
<i>Spiraea betulifolia</i> , Birchleaf Spiraea	A/B	X	X	X	Y	N	24"	24"	
<i>Spiraea densiflora</i> , Subalpine Spiraea	A/B	X	X	X	Y	N	24'	24"	
<i>Rosmarinus officinalis</i> 'Huntington Blue Carpet', Creeping Rosemary	B	X	X		N	N	12"	24"	
<i>Viburnum opulus</i> 'Nanum', Dwarf European Cranberry	B	X	X		N	N	24'	24"	
Groundcovers									
<i>Arctostaphylos uva-ursi</i> , Kinnickinnick	B	X	X		Y	Y	6"	12"	
<i>Fragaria chiloensis</i> , Coastal Strawberry	B	X	X		Y	Y	6"	12'	

Plant Name		Facility Type			Characteristics				
Botanic Name, Common Name	Zone	Swale	Curb Extension	Planter	NW Native	Evergreen	Potential Height.	O.C. Spacing	Under Powerline
<i>Fragaria vesca</i> , Woodland Strawberry	B	X	X		Y	Y	6'	12'	
<i>Fragaria virginiana</i> , Wild Strawberry	B	X	X		N	Y	10'	12'	
<i>Helictotrichon sempervirens</i> , Blue Oat Grass	B	X	X		N	Y	24'	12'	
<i>Mahonia repens</i> , Creeping Oregon Grape	B	X	X		Y	Y	12'	12'	
Street Trees - Greenstreet									
<i>Acer campestre</i> 'Evelyn' Queen Elizabeth Hedge Maple	A/B	X	X	X	N	N	30'		N
<i>Acer platanoides</i> , Norway Maple	A/B	X	X	X	N	N	60'		N
<i>Acer pseudoplatanus</i> , Sycamore Maple	A/B	X	X	X	N	N	60'		N
<i>Acer rubrum</i> , Red Maple	A/B	X	X	X	N	N	60'		N
<i>Betula jacquemontii</i> , Jacquemontii Birch	A/B	X	X	X	N	N	60'		N
<i>Carpinus caroliniana</i> , American Hornbeam	A/B	X	X	X	N	N	30'		N
<i>Catalpa speciosa</i> , Western Catalpa	A/B	X	X		N	N	50'		N
<i>Celtis occidentalis</i> , Hackberry	A/B	X	X	X	N	N	50'		N
<i>Cornus nuttallii</i> , Western Flowering Dogwood	A/B	X	X		Y	N	20'		N
<i>Fraxinus Americana</i> , White Ash	A/B W	X	X	X	N	N	25'		N
<i>Fraxinus latifolia</i> , Oregon Ash	A/B W	X	X		Y	N	30'		N
<i>Fraxinus pennsylvanica</i> 'Johnson', Leprechaun, Green Ash	A/B	X	X	X	N	N	30'		N
<i>Ginkgo biloba</i> , Ginkgo	A/B	X			N	N	80'		N
<i>Gleditsia triacanthos</i> 'Impcole', Imperial Honeylocust	A/B	X	X	X	N	N	30'		N
<i>Gleditsia triacanthos</i> 'Skycole', Skyline Honeylocust	A/B	X	X	X	N	N	70'		N
<i>Koelreuteria paniculata</i> , Goldenrain Tree	A/B	X	X	X	N	N	30'		N
<i>Liquidambar styraciflua</i> , Sweet Gum	A/B	X	X	X	N	N	70'		N
<i>Nyssa sylvatica</i> , Black Tupelo, Blackgum	A	X	X	X	N	N	50'		N
<i>Prunus virginiana</i> 'Canada Red', Canada Red Chokecherry	A/B	X	X	X	N	N	25'		N
<i>Quercus bicolor</i> , Swamp White Oak	A/B	X	X	X	N	N	70'		N
<i>Quercus macrocarpa</i> , Bur Oak	A/B	X	X	X	N	N	70'		N

Plant Name		Facility Type			Characteristics				
Botanic Name, Common Name	Zone	Swale	Curb Extension	Planter	NW Native	Evergreen	Potential Height.	O.C. Spacing	Under Powerline
<i>Quercus phellos</i> , Willow Oak	A/B	X	X	X	N	N	50'		N
<i>Quercus robur</i> , English Oak	A/B	X	X	X	N	N	70'		N
<i>Quercus rubra</i> , Northern Red Oak	A/B	X	X	X	N	N	75'		N
<i>Quercus shumardii</i> , Shumard Oak	A/B	X	X	X	N	N	70'		N
<i>Rhamnus purshiana</i> , Cascara	A/B	X	X	X	Y	N	30'		N
<i>Sophora japonica</i> , Scholartree	A/B	X			N	N	60'		N
<i>Tilia cordata</i> , Littleleaf Linden	A/B	X	X	X	N	N	60'		N
<i>Tilia platyphyllos</i> , Bigleaf Linden	A/B	X	X	X	N	N	70'		N
<i>Ulmus accolade</i> , Accolade Elm	A/B	X	X	X	N	N	70'		N
<i>Umbellularia californica</i> , Oregon Myrtle	A/B	X	X	X	Y	Y	75'		N

Parking Lot Trees (Reference List)

The City of Springfield has included the parking lot tree list **to assist designers in selecting trees most appropriate** for the potentially numerous micro-climates that might exist in parking lots and in proximity to building walls. It is likely that most parking lots will be hot in summer months until the trees become established. The City has attempted to point out native species in the list and provide their suitability to various conditions.

The recommended minimum clearance from the pavement provides guidance on the amount of planting space each tree needs. It is expressed as the distance from the center of the planted tree trunk to the nearest paved surface. Comments provide guidance as to best applications of the different trees and additional information that may help in tree selection. For example, some trees are well suited to landscaped areas that will receive stormwater runoff, while others may not tolerate the additional moisture from runoff, largely depending on the soil.

There are two tables. The first consists of native trees and the second consists of trees that are not native to the Springfield area.

Native Parking Lot Trees

Scientific Name	Common Name	Min. Distance from Pavement	Comments
<i>Abies grandis</i>	Grand Fir	4 feet	Conifer, evergreen. Can grow very tall.
<i>Acer macrophyllum</i>	Big Leaf Maple	4 feet	Broadleaf, deciduous.
<i>Alnus rhombifolia</i>	White Alder	3 feet	Broadleaf, deciduous. Moisture loving. <i>Short lived species.</i>

<i>Alnus rubra</i>	Red Alder	3 feet	Broadleaf, deciduous. Moisture loving. <i>Short lived species.</i>
<i>Calocedrus decurrens</i>	Incense Cedar	4 feet	Conifer, evergreen. Prefers moist conditions and some shade.
<i>Crataegus douglasii</i> , var. <i>douglasii</i>	Black Hawthorn, wetland form	3 feet	Broadleaf, deciduous. A smaller tree. Wetland form tolerates wet areas.
<i>Fraxinus latifolia</i>	Oregon Ash	3 feet	Broadleaf, deciduous. Tolerates wet conditions.
<i>Pinus ponderosa</i> , ssp. <i>Valley</i>	Ponderosa Pine, Valley subspecies	4 feet	Conifer, evergreen. Prefers drier conditions, but Valley subspecies is adapted to Willamette Valley climate.
<i>Pseudotsuga menziesii</i>	Douglas Fir	4 feet	Conifer, evergreen. Can grow very tall.
<i>Quercus garryana</i>	Oregon White Oak	4 feet	Broadleaf, deciduous. Drought tolerant.
<i>Quercus kelloggii</i>	California Black Oak	4 feet	Broadleaf, deciduous. Drought tolerant.
<i>Rhamnus purshiana</i>	Cascara	3 feet	Broadleaf, deciduous. A smaller tree.
<i>Thuja plicata</i>	Western Red Cedar	4 feet	Conifer, evergreen. Prefers moist conditions and some shade. <i>Does not do well in direct sunlight; shade tolerant.</i>
<i>Thuja plicata</i> var. <i>hogan</i> <i>Native to Gresham OR. area</i>	Western Red Cedar 'Hogan'	4 feet	Conifer, evergreen. Prefers moist conditions and some shade. 'Hogan' is a narrow-growing variety.

Non-Native Parking Lot Trees

Scientific Name	Common Name	Min. Distance from Pavement	Comments
<i>Abies amabilis</i>	Silver Fir	4 feet	Conifer, evergreen. Native to Oregon Cascades.
<i>Acer campestre</i>	Hedge Maple; 'Queen Elisabeth'	2 feet	Broadleaf, deciduous.
<i>Acer rubrum</i>	Red Maple 'Embers Red,' 'October Glory,' 'Red Sunset,' 'Gerling,' 'Autumn Flame'	3 feet	Broadleaf, deciduous. Good for stormwater facilities
<i>Acer saccharum</i>	Sugar Maple; 'Bonfire' (except 'Legacy')	3 feet	Broadleaf, deciduous.
<i>Calocedrus decurrens</i>	Incense Cedar	3 feet	Conifer, evergreen. Drought tolerant
<i>Carpinus betulus</i>	European Hornbeam	2 feet	Broadleaf, deciduous. Shade tolerant.

Scientific Name	Common Name	Min. Distance from Pavement	Comments
<i>Celtis occidentalis</i>	Hackberry; 'Common', Prairie Pride'	3 feet	Broadleaf, deciduous.
<i>Cercidiphyllum japonicum</i>	Katsura Tree	3 feet	Broadleaf, deciduous. Prefers well-drained soils. Needs summer irrigation
<i>Cladrastis kentuckea</i>	Yellowwood	3 feet	Broadleaf, deciduous. Prefers summer irrigation and well-drained soil.
<i>Cornus kousa</i> var. <i>chinensis</i>	Chinese Dogwood	3 feet	Broadleaf, deciduous. Small tree. Fruits, but is not messy. Needs summer water.
<i>Crataegus x lavalleyi</i>	Lavalle Hawthorn	2 feet	Broadleaf, deciduous. Fruit can be messy.
<i>Fagus grandifolia</i>	American Beech	4 feet	Broadleaf, deciduous.
<i>Fagus sylvatica</i>	European Beech	4 feet	Broadleaf, deciduous.
<i>Fagus sylvatica</i> var.	European Beech 'Roseo-marginata,' 'Tricolor'	3 feet	Broadleaf, deciduous.
<i>Fraxinus americana</i>	White Ash; 'Rosehill'	3 feet	Broadleaf, deciduous. Needs plenty of water until established.
<i>Fraxinus excelsior</i>	European Ash	3 feet	Broadleaf, deciduous. Needs plenty of water until established.
<i>Fraxinus pennsylvanica</i>	Green Ash 'Marshall,' 'Patmore,' 'Summit,' 'Urbanite'	3 feet	Broadleaf, deciduous. .Needs plenty of water until established.
<i>Ginkgo biloba</i>	Ginkgo 'Shangri-la,' 'Saratoga', Maidenhair	3 feet	Measured as a broadleaf; deciduous. <i>Use the Male only. Female produces messy, smelly fruit.</i>
<i>Liquidambar styraciflua</i>	Sweetgum	4 feet	Broadleaf, deciduous.
<i>Liriodendron tulipifera</i>	Tulip Tree or Tulip Poplar	4 feet	Broadleaf, deciduous.
<i>Magnolia grandiflora</i>	Southern Magnolia, Bull Bay	4 feet	Broadleaf, evergreen.
<i>Magnolia kobus</i>	Kobus Magnolia	2 feet	Broadleaf, deciduous.
<i>Metasequoia glyptostroboides</i>	Dawn Redwood	4 feet	Conifer, deciduous.
<i>Nothofagus dombeyi</i>	South American Beech or Southern Beech	3 feet	Broadleaf, evergreen.
<i>Nothofagus obliqua</i>	Roble Beech	3 feet	Broadleaf, deciduous.
<i>Nyssa sylvatica</i>	Black Gum or Black Tupelo, Sour Gum, Pepperidge	3 feet	Broadleaf, deciduous. Good for stormwater facilities.

Scientific Name	Common Name	Min. Distance from Pavement	Comments
<i>Ostrya virginiana</i>	American Hornbeam, Eastern Hornbeam, Ironwood	2 feet	Broadleaf, deciduous.
<i>Pinus contorta</i>	Shore Pine	3 feet	Conifer, evergreen. A smaller tree.
<i>Pinus monticola</i>	Western White Pine	3 feet	Conifer, evergreen.
<i>Quercus bicolor</i>	Swamp White Oak	3 feet	Broadleaf, deciduous. Tolerates wet soil.
<i>Quercus coccinea</i>	Scarlet Oak	3 feet	Broadleaf, deciduous. Intolerant of wet soil.
<i>Quercus frainetto</i>	Hungarian Oak 'Forest Green'	3 feet	Broadleaf, deciduous.
<i>Quercus nigra</i>	Water Oak, Possum Oak, Spotted Oak	3 feet	Broadleaf, evergreen. Tolerates wet conditions.
<i>Quercus phellos</i>	Willow Oak	3 feet	Broadleaf, deciduous.
<i>Quercus robur</i>	English Oak	3 feet	Broadleaf, deciduous.
<i>Quercus rubra</i>	Northern Red Oak	4 feet	Broadleaf, deciduous.
<i>Quercus velutina</i>	Black Oak, Yellow Oak	4 feet	Broadleaf, deciduous.
<i>Sequoia sempervirens</i>	Coast Redwood	6 feet	Conifer, evergreen. Grows very tall.
<i>Sequoiadendron giganteum</i>	Giant Sequoia	8 feet	Conifer, evergreen. Trunk quickly becomes massive; needs ample space.
<i>Sophora japonica</i>	Japanese Pagoda Tree	3 feet	Broadleaf, deciduous.
<i>Taxodium distichum</i>	Bald Cypress	4 feet	Conifer, deciduous. Tolerates extremely wet conditions, but does not require it.
<i>Umbellularia californica</i>	California Laurel, Oregon Myrtle, Bay	4 feet	Broadleaf, evergreen. Drought tolerant.
<i>Zelkova serrata</i>	Sawleaf Zelkova 'Green Vase', Halka', 'Village Green'	3 feet	Broadleaf, deciduous.

Resources:

United States Department of Agriculture Plants Database:
<http://plants.usda.gov/java/>

Wildflowers of the Pacific Northwest:
<http://www.pnwflowers.com/flower/collomia-grandiflora>

The Oregon Flora Project:
<http://www.oregonflora.org/index.php>

SEED SPECIFICATION

Species listed below should only be used in the listed moisture regime for optimal success. Sow rates for **small seeded mixes** shall contain a **minimum of 20 lbs/per acre in combination** for stormwater management facilities and **30 lbs/acre for erosion control** purposes. **Sow rates for large/medium seeded mixes** should contain a **minimum of 25 lbs per acre** in combination for stormwater management facilities and 40 lbs per acre **for erosion control** purposes.

Xeric: of, relating to, or growing in dry conditions

Mesic: of, relating to, or growing in conditions of medium water supply

Grasses

Common Name	Scientific Name	Optimal Sow Season	Matrix or to Add Diversity	Swale or Pond Sow Rate (Hand)	Erosion Control Sow Rate	Moisture	Exposure	Seed Size	Commercial Accessibility of Local Eco-type
American Slough Grass	Beckmannia syzigachne	Fall/Spring	D	2 lbs/ac	NR	Inundated to wet	Sun	Medium	Easy to medium, Willamette Valley
Blue Wildrye	Elmus glaucus	Early Fall/Spring	M	25lbs/ac	40lbs/acre	Xeric to mesic	Sun to shade	Large	Easy, Portland Metro
California Brome	Bromus carinatus	Early Fall/Spring	M	25lbs/ac	40lbs/acre	Xeric to mesic	Sun	Large	Easy, Portland Metro
California Oatgrass	Danthonia californica	Fall/spring	M	30lbs/ac	NR		Sun	Large	Easy to medium, Willamette Valley
Columbia Brome	Bromus vulgaris	Fall/Spring	D	5 lbs/ac	NR	Xeric to mesic	Shade	Large	Medium, Portland Metro
Junegrass	Koeleria macrantha	Fall/Spring	M	20lbs/ac	NR	Xeric to mesic	Sun	Small	Easy to medium, PDX or Willamette Valley
Meadow Barley	Hordeum brachyantherum	Early Fall/Spring	M	25lbs/ac	40lbs/acre	Wet to mesic	Sun	Large	Easy to medium, Willamette Valley
Rice Cutgrass	Leersie oryzoides	Fall/Spring	D	5 lbs/ac	NR	Inundated to wet	Sun	Medium	Medium to difficult, Portland Metro
Roemer's Fescue	Festuca roemeri	Fall/Spring	D	2 lbs/ac	NR	Xeric to mesic	Sun	Small	Difficult, Willamette Valley
Sitka Brome	Bromus sitchensis	Early Fall/Spring	M	25lbs/ac	40lbs/acre	Wet to mesic	Sun/Shade	Large	Easy, Willamette Valley
Slender Hairgrass	Deschampsia elongata	Early Fall/Spring	M	20lbs/ac	30lbs/acre	Wet to xenic	Sun	Small	Easy, Portland Metro
Slender Wheatgrass	Elymus trachycaulus	Early Fall/Spring	M	25lbs/ac	40lbs/acre	Xenic to mesic	Sun	Large	Medium to difficult, Willamette Valley
Spike Bentgrass	Agrostis exarata	Early Fall/Spring	D	5 lbs/ac	30lbs/acre	Saturated to wet	Sun	Small	Easy to medium, Portland Metro

Common Name	Scientific Name	Optimal Sow Season	Matrix or to Add Diversity	Swale or Pond Sow Rate (Hand)	Erosion Control Sow Rate	Moisture	Exposure	Seed Size	Commercial Accessibility of Local Eco-type
Tall Mannagrass	<i>Glyceria elata</i>	Fall/Spring	D	2 lbs/ac	NR	Saturated to mesic	Shade	Small	Medium to difficult, Portland Metro
Tufted Hairgrass	<i>Deschampsia cespitosa</i>	Fall/Spring	D	2 lbs/ac	NR	Saturated to wet	Sun	Small	Easy, Willamette Valley
Water Foxtail	<i>Alopecurus geniculatus</i>	Fall/Spring	M	25lbs/ac	NR	Inundated to wet	Sun	Medium	Easy, PDX or Willamette Valley
Western Fescue	<i>Festuca occidentalis</i>	Fall/Spring	M	20lbs/ac	NR	Xeric to mesic	Sun	Small	Medium to difficult, Willamette Valley
Western Mannagrass	<i>Glyceria occidentalis</i>	Fall/Spring	M	25lbs/ac	NR	Saturated to wet	Sun	Medium	Easy to Medium, Willamette Valley

Sedges, Rushes - soil moisture as indicated into summer months

Scientific Name	Common Name	Optimal Sow Season	Matrix or to Add Diversity	Swale or Pond Sow Rate (Hand)	Erosion Control Sow Rate	Moisture	Exposure	Seed Size	Commercial Accessibility of Local Eco-type
<i>Carex obnupta</i>	Slough Sedge	Fall/Spring	D	2lbs/ac	NR	Inundated to mesic	Sun/Shade	Medium	Medium to difficult, PDX
<i>Carex scoparia</i>	Pointed Broom Sedge	Fall/Spring	D	2lbs/ac	NR	Wet to mesic	Sun	Medium	Medium to difficult, PDX
<i>Carex stipata</i>	Sawbeak Sedge	Fall/Spring	D	2lbs/ac	NR	Inundated to mesic	Sun	Medium	Medium. Willamette Valley
<i>Eleocharis ovata</i>	Ovate Spikerush	Fall/Spring	D	1lb/ac	NR	Inundated to wet	Sun	Small	Easy, PDX or Willamette Valley
<i>Eleocharis palustris</i>	Creeping Spikerush	Fall/Spring	D	2lbs/ac	NR	Inundated to wet	Sun	Small	Easy to medium, Willamette Valley
<i>Juncus acuminatus</i>	Tapertio Rush	Fall/Spring	D	.25lbs/ac	NR	Inundated to wet	Sun	Small	Medium, Willamette Valley, PDX
<i>Juncus bufonius</i>	Toad Rush	Fall/Spring	D	.25lbs/ac	NR	Wet to mesic	Sun	Small	Medium, Willamette Valley
<i>Juncus patens</i>	Spreading Rush	Fall/Spring	D	.50lbs/ac	NR	Wet to mesic	Sun/Shade	Small	Easy, PDX

Forbs

Scientific Name	Common Name	Optimal Sow Season	Matrix or to Add Diversity	Swale or Pond Sow Rate (Hand)	Erosion Control Sow Rate	Moisture	Exposure	Seed Size	Commercial Accessibility of Local Eco-type
<i>Achillea millefolium</i>	Western Yarrow	Fall	D	.25lbs/ac	NR	Wet to mesic	Sun	Medium	Easy, PDX or Willamette Valley
<i>Aquilegia formosa</i>	Western Columbine	Fall	D	1.0 lb/ac	NR	Wet to mesic	Sun	Medium	Easy to medium, Willamette Valley
<i>Alisma media</i>	Water Plantain	Fall/Spring	D	1.0 lb/ac	NR	Inundated to wet	Sun	Medium	Easy to medium, Willamette Valley
<i>Collomia frandiflora</i>	Large Flowerd Collomia	Fall/Spring	D	.50 lb/ac	NR	Xeric to mesic	Sun	Small	Medium to difficult, Willamette Valley
<i>Collinsia rattanii</i>	Blue-eyed Mary	Fall/Spring	D	.25lbs/ac	NR	Xeric to mesic	Sun	Small	Medium to difficult, Willamette Valley
<i>Epilobium densiflora</i>	Dense Spike Primrose	Fall	D	1.0 lb/ac	NR	Wet to mesic	Sun	Small	Medium, Willamette Valley
<i>Eriophyllum lanatum</i>	Wooly "Oregon" Sunshine	Fall	D	1.0 lb/ac	NR	Wet to mesic	Sun	Medium	Easy to medium, Willamette Valley
<i>Gilia capitata</i>	Blue Giia	Fall/Spring	D	2lbs/acre	1 lb/ac	Xeric to mesic	Sun	Medium	Medium, Willamette Valley
<i>Lotus purshianus</i>	Spanish Clover	Fall	D	2lbs/acre	1lbac	Xeric to mesic	Sun	Medium	Medium, Willamette Valley
<i>Lupinus albicaulis</i>	Sickle Keel Lupine	Fall	D	1lb/ac	1lb/ac	Xeric to mesic	Sun	Large	Medium, Willamette Valley
<i>Iris tenax</i>	Oregon Iris	Fall	D	2lbs/ac	NR	Xeric to mesic	Sun	Large	Easy to medium, Willamette Valley
<i>Camassia quamash</i>	Common Camas	Fall	D	1lb/ac	NR	Wet to mesic	Sun	Medium	Easy to medium, Willamette Valley
<i>Camassia leichtlinii</i>	Great "Large" Camas	Fall	D	1lb/ac	NR	Wet to mesic	Sun	Medium	Easy to medium, Willamette Valley
<i>Lupinus micranthus</i>	Small Flowered Lupine	Fall	D	1lb/ac	NR	Xeric to mesic	Sun	Medium	Medium to difficult, Willamette Valley
<i>Ranunculus occidentalis</i>	Western Buttercup	Fall	D	1lb/ac	NR	Xeric to mesic	Sun	Medium	Medium to difficult, Willamette Valley
<i>Sidalcea camp pestris</i>	Checker Mallow	Fall	D	1lb.ac	NR	Xenic to mesic	Sun	Large	Medium to difficult, Willamette Valley
<i>Lupinus rivularis</i>	Stream Lupine	Fall	D	1lb/ac	1lb/ac	Xeric to mesic	Sun	Large	Medium, Willamette Valley

Scientific Name	Common Name	Optimal Sow Season	Matrix or to Add Diversity	Swale or Pond Sow Rate (Hand)	Erosion Control Sow Rate	Moisture	Exposure	Seed Size	Commercial Accessibility of Local Eco-type
Plagiobothrys figuratus	Popcorn Flower	Fall/Spring	D	1.0lb/ac	NR	Inundated to wet	Sun	Small	Medium to difficult, Willamette Valley
Prunella vulgaris	Self Heal	Fall/Spring	D	2lbs/ac	1lb/ac	Wet to mesic	Sun/Shade	Medium	Easy to medium, PDX or Willamette Valley
Solidago canadensis	Goldenrod	Fall	D	.50lbs/ac	NR	Xeric to mesic	Sun	Small	Easy to medium, PDX or Willamette Valley

Recommended Non-Native Cover Crop Species

Common Name	Scientific Name	Optimal Sow Season	Matrix or to Add Diversity	Swale or Pond Sow Rate (Hand)	Erosion Control Sow Rate	Moisture	Exposure	Seed Size	Commercial Accessibility of Local Eco-type
Festuca rubra var. commutata	Chewings Fescue	Year Round	M	20lbs/ac	30- 40				n/a
Triticum spp.	Wheat	Year Round	M	50lbs/ac	60				n/a
Avena spp.	Oats	Year Round	M	50lbs/ac	60				n/a
Regreen	Sterile Wheat Hybrid	Year Round	M	40lbs/ac	50				n/a
Agropyron spp.	Wheatgrass	Year Round	M	30lbs/ac	40				A - trachycaulus (W.V. source)

Nuisance Grass Species NOT Recommended for use on Erosion Control or Stormwater Projects

Species	Common Name	State Listed - Noxious Weed	City
Agropyron repens	Quack Grass	Yes (B-list)	Nuisance List Portland Plant List
AQlopecurus pratensis	Meadow Foxtail	No	Nuisance List Portland Plant List
Anthoxanthum odoratum	Sweet Vernal Grass	No	Nuisance List Portland Plant List
Arrenatherum elatius	Tall Oat Grass	No	Nuisance List Portland Plant List
Brachypodium sylvaticum	False Brome	Yes (B-list)	Nuisance List Portland Plant List
Bromus diandrus	Ripgut	No	Nuisance List Portland Plant List

Species	Common Name	State Listed - Noxious Weed	City
Bromus hordaceus	Smooth Brome	No	Nuisance List Portland Plant List
Bromus inermis	Smooth Brome	No	Nuisance List Portland Plant List
Bromus japonicus	Japanese Brome	No	Nuisance List Portland Plant List
Bromus sterilis	Poverty Grass	No	Nuisance List Portland Plant List
Bromustectorum	Cheat Grass	No	Nuisance List Portland Plant List
Festuca arundinacea	Tall Fescue	No	Nuisance List Portland Plant List
Holcus lanatus	Velvet Grass	No	Nuisance List Portland Plant List
Lolium multiflorum	Annual Rye Grass	No	Nuisance List Portland Plant List
Phalaris arundinacea	Reed Canary Grass	No	Nuisance List Portland Plant List
Phalaris aquatica	Harding Grass	No	Nuisance List Portland Plant List
Phleum pratense	Timothy	No	Nuisance List Portland Plant List
Phragmites australis	Common Reed	No	Nuisance List Portland Plant List
Vulpia myuros	Rat-tailed Fescue	No	Nuisance List Portland Plant List