

CITY OF NEWPORT
PARK SYSTEM MASTER PLAN
STANDARDS

Prepared for:



Prepared by:



March 2019

NEWPORT DESIGN STANDARDS

As part of the process for Newport’s Parks System Master Plan, the City of Newport would like to develop standards and guidelines that will help standardize Park System materials and elements such as signage, site furnishings and trails. This document describes climate appropriate materials as well as a proposed process to create a set of standards and includes goals and guidelines the City can use to do so. Developing specific standards and specification for park system elements typically is an extensive process and is generally undertaken with the assistance of a landscape architecture firm and often with robust community engagement.



Agate Beach Neighborhood Park - Concrete Picnic Table

CLIMATE APPROPRIATE MATERIALS

GOALS

Create a City-wide consistency in materials to withstand the climatic conditions of Newport including high winds, rain and moisture and salt air.

FACTORS TO CONSIDER

- Use
- Rain and Moisture
- Wind
- Corrosion
- Durability
- Maintenance
- Eco-Friendliness
- Cost



CLIMATE APPROPRIATE MATERIALS

Material	Use	Resist Rain and Moisture	Resist Wind	Resist Corrosion	Good Durability	Type of Maintenance	Eco-Friendliness	Cost
Wood (treated, stained or painted)	Bench, Picnic table, signage, shelter	Not long term	Yes	Yes	Yes	High	Yes	Low
Wood - Teak	Bench, Picnic table, signage, shelter	Yes	Yes	Yes	Yes	Low	Yes	High
Powder Coated Steel	Bench, Picnic table, Trash receptacle, bike racks, bollards, play equipment, shelters, signage	Yes	Yes	Yes	Yes	Low	Yes	Medium
Concrete	Picnic Tables, benches, trash receptacle, seat walls	Yes	Yes	Yes	Yes	Low, but need periodic inspection	Yes	Medium
Recycled Plastic (High Density Polyethylene - HDPE)	Bench, Picnic table, play equipment	Yes	Yes, bolted down	Yes	Yes	Low	Yes	Low

SITE FURNISHINGS

GOALS

1. To establish a consistent, signature style for the City of Newport’s Park System;
2. To provide designers and project managers with an easy-to-use reference manual as they implement projects; and
3. To simplify park and natural area maintenance by standardizing parts and materials

PROCESS

1. Develop a set of values for the standards (described below).
2. Decide on a certain time frame for when the standards should be finalized and create a schedule for developing, reviewing, refining and finalizing them.
3. Use a collaborative process involving a cross-departmental committee of City of Newport staff and the professional services of Landscape Architecture firm. Consider involving the broader community in reviewing options and identifying preferences.
4. Review and develop a list of the pros and cons of existing City of Newport furnishings.
5. Review an inventory of other park systems’ site furnishing standards.
6. Work with Landscape Architect on initial concepts for new standards.
7. Use values as screening criteria that each furnishing standard would be measured against before it is final recommendations.

VALUES TO CONSIDER

Sustainability Each furnishing standard should consider life cycle costs (purchase, maintenance and replacement), and an assessment and environmental and social sustainability. Locally sourced products are preferred or climate appropriate.

Accessibility Each furnishing standard should comply with the Americans with Disabilities Act (ADA).

Aesthetics All of the furnishings should contribute to a unified style that is timeless, simple, useful and congruent with the surrounding environment.

Durability Selected furnishings should require minimal maintenance and should be able to be renovated at a low cost (e.g., replacement components, if applicable, should be relatively easy to acquire quickly and inexpensively, to the greatest degree feasible).

Cost Furnishings should be competitively priced.

EXAMPLES OF CLIMATE APPROPRIATE SITE FURNISHING OPTIONS

Bench



Material: Recycled Plastic Slats, Powder Coated Steel Frame

Manufacturer: Columbia Cascade

Product Name: Parkway Bench

Model Number: 2017-6

Unit Price: \$810

Picnic Table



Material: Recycled Plastic Slats, Powder Coated Steel Frame

Manufacturer: Columbia Cascade

Product Name: Greenway Picnic Table

Model Number: 2168

Unit Price: \$1,965

Bike Racks



Material: Powder Coated Steel

Manufacturer: Columbia Cascade

Product Name: Original CycLoops

Model Number: 2170-7-E-G

Unit Price: \$450

Boardwalk



Material: Putruded Fiberglass Decking

Manufacturer: Fibergate

Product Name: Safe T Span

Model Number: I 4015

Unit Price: \$12.80 / sf (decking only)

Bollards



Material: Powder Coated Steel

Manufacturer: Columbia Cascade

Product Name: Metal Bollard

Model Number: 2190-E

Unit Price: \$150

Drinking Fountains



Material: Powder Coated Steel

Manufacturer: Columbia Cascade

Product Name: Restoration Drinking Fountain

Model Number: 2010-01

Unit Price: \$3,285

Picnic Shelter



Material: Powder Coated Steel

Manufacture: Natural Structures

Product Name: Rocky Mountain Picnic Shelter

Model Number: 98-R20030-4T

Unit Price: \$30,000

SIGNAGE

GOAL: Ensure a standardized, consistent look to park, trail and natural area signs.

PROCESS:

1. Define a clear and expedited process for:
 - Creating full sign systems
 - Adding or replacing signs in existing systems
 - Maintaining signs
 - Creating temporary signs
2. Document the process for determining the need for a sign.
3. Create a cost-effective way of producing signs.
4. Establish a visually easy-to-identify hierarchy of entrance, directional/identification and trail signage.
5. Ensure that signs harmonize with the natural environment in an aesthetic, consistent way with good site design. Standards should guarantee that signs are attractive, concise, clear and sited in the optimal locations.
6. Minimize impact of signs on parks and natural areas.
7. Create standards that incorporate durable materials and provide for cost-effective long-term maintenance.
8. Provide criteria for prioritizing signs

See example of a project GreenWorks,PC was hired by the City of Astoria to develop Wayfinding/Signage for Pedestrians.

UNIONTOWN - PORT to 3RD ST.

DOWNTOWN - 3RD to 16TH ST.



City of Astoria - Downtown Pedestrian Wayfinding - Sign Typologies



River Walk Pedestrian Directional Signage



Downtown Pedestrian Directional Signage



Trailhead Map



Interpretive Signage



TRAILS

GOALS

1. Create a Citywide system of trails to ensure a consistent look, high standard of quality, and basic level of safety.
2. Create accessible portions of the trail system.
3. Create a sustainable system that requires minimal maintenance and has minimal impacts on the environment

PROCESS

1. Create an inventory of existing trails.
2. Develop an inventory of support facilities.
3. Conduct a more detailed future needs assessment, building on work already conducted for the PSMP.
4. Identify needed improvements to specific trails.
5. Establish standards for the construction, maintenance, and rehabilitation of trails, including related to the following.
 - a. Tread Width – Actual walking surface
 - b. Clearance Width – Areas around trail to be kept free of vegetation
 - c. Clearance Height
 - d. Slope – trail stability, accessibility
 - i. Maximum Slope
 - ii. Cross slope
 - e. Trail Surface - Material
 - i. Asphalt
 - ii. Concrete
 - iii. Wood chips
 - iv. Gravel

Note: Due to the climate in Newport, natural dirt trails are not advised as they will get muddy quickly and form ruts. Ruts may increase maintenance on the trails.

Hiking Trail - Asphalt



Multi-Use Trail - Crushed Gravel



Mountain Biking Trail - Gravel



EXAMPLE OF TRAIL DEVELOPMENT STANDARDS

Trail Type	Vertical Clearance	Corridor Clearance	Treadway Width	Surfacing Materials	Trail Length	Grade
Hiking	8-10 feet	4 –8 feet	4-6 feet	Bare soil, rocks, stone dust, or wood chips. May have hardened surface (concrete, asphalt or boardwalks) in high use areas.	0.25 – 5 mi. (1/2 day) 5-15 mi. (full day)	0-5%; Max – 15% sustained; 40%+ shorter than 50 yd.; Outslope – 4% max
Multi-use-Greenway Trail	8-10 feet	10-12 ft. (1 lane) 12-16 ft. (2 lane) 16-20 ft. (2 lane – high volume)	6 ft. (1 lane) 8-10 ft. (2 lane) 12-14 ft. (2 lane – high volume)	Smooth pavement, asphalt, concrete, crushed gravel, clay or stabilized earth.	Min. – 5 mi. loop (1.5-2 hour) 15-25 mi. of linear or loop trails (day trip)	0-5%; Max: 5-10% sustained; 15% shorter than 50 yd. Outslope of 2-4%
Mountain Biking	8-10 feet	1.5 – 6 ft. (1 lane)	Novice - 36 in Intermediate - 24-30 in Advanced - 12-18 in	Firm natural surface including soil, rocks, wood; hardened surface for wet areas.	Min. – 5 mi. loop (1.5-2 hour) 15-25 mi. of linear or loop trails (day trip)	Over all grade not to exceed 10%. Climbing turns not to exceed 7-12%. Out slope of 3-5%

Resources:

<https://www.nps.gov/noco/learn/management/ncttrailconstructionmanual1.htm>

<https://www.blm.gov/sites/blm.gov/files/Guidelines-for-a-Quality-Trail-Experience-2017.pdf>

CLIMATE APPROPRIATE PLANTS

The following is an extensive list of plants that are Accessible for the Newport. Newport can have a harsh climate due to the wind and salt climate as well as sandy soils. This list is compiled from resources from Rachel Cotton with the City of Newport, Lincoln County Master Garden Association, Mike Faha with GreenWorks, PC and The Pacific Northwest Gardner Book of Lists.

This list is not a final list and should be added to as well as reviewed on a periodic basis.

Common Name	Botanical Name	Native / Non-native	Evergreen / Deciduous	Height / Width	Water Requirements	Sun / Shade Requirements	Comments
Trees							
Vine Maple	<i>Acer circinatum</i>	Native	Deciduous	15' / 10'	Medium	Full sun - part shade	Multiple trunks
Bigleaf Maple	<i>Acer macrophyllum</i>	Native	Deciduous to 100'	50' / 30'	Medium	Full sun - part shade	Large spreading tree, fall yellow color
Grand Fir	<i>Abies grandis</i>	Native	Evergreen to 120'	100' / 20'	Medium	Full sun - part shade	
Japanese Maple	<i>Acer japonicum</i>	Non-native	Deciduous	20' / 15'	Medium	Full sun - part shade	Orange fall foliage
Red Alder	<i>Alnus rubra</i>	Native	Deciduous	50' / 30'	High	Full sun - part shade	Likes wet soil, fast growing
Pacific Madrone	<i>Arbutus menziesii</i>	Native	Evergreen	50' / 30'		Full sun	
Strawberry Tree	<i>Arbutus unedo</i>	Non-native	Evergreen	30' / 15'	Low	Full sun	Pink flowers in fall, red fruit in spring
Port Orford Cedar	<i>Chamaecyparis lawsoniana</i>	Native	Evergreen	40' / 20'	Medium	Full sun - part shade	Pyramidal shape with drooping branches
Hawthorn	<i>Crataegus sp.</i>	Non-Native	Deciduous	25' / 20'	Low	Full sun - part shade	Edible Berries
Leyland Cypress	<i>Cupressocyparis leylandii</i>	Non-native	Evergreen	40' / 10'	Medium	Full sun	Dense pyramidal evergreen, fast growing
Monterey Cypress	<i>Cupressus macrocarpa</i>	CA Native	Evergreen to 60'	30' / 8'		Full sun	Upright form, likes sandy fast draining soils
Ginkgo	<i>Ginkgo biloba</i>	Non-native	Deciduous	45' / 35'	Medium	Full sun - part shade	Large pyramidal shape, yellow leaves in fall
Goldenrain Tree	<i>Koelreuteria paniculata</i>	Non-native	Deciduous	30' / 30'	Low	Full sun - part shade	
Glossy privet	<i>Ligustrum lucidum</i>	Non-Native	Evergreen	12' / 12'	Low to medium	Full sun - part shade	
Tuliptree	<i>Liriodendron tulipifera</i>	Non-native	Deciduous	60' / 30'	Medium	Full sun	
Evergreen Magnolia	<i>Magnolia grandiflora</i>	Non-native	Evergreen	50' / 20'	Medium	Full sun - part shade	Rich Loamy soil
Star Magnolia	<i>Magnolia stellata</i>	Non-native	Deciduous	15' / 10'	Medium	Full sun - part shade	Blooms in march
Crabapple 'Liset'	<i>Malus 'Liset'</i>	Non-native	Deciduous	25' / 20'	Medium	Full sun	

Common Name	Botanical Name	Native / Non-native	Evergreen / Deciduous	Height / Width	Water Requirements	Sun / Shade Requirements	Comments
Pacific Crab Apple	<i>Malus fusca</i>	Native	Deciduous	20' / 20'	Medium	Full sun	
Norway spruce	<i>Picea abies</i>	Non-Native	Evergreen	80' / 30'	Low	Full sun	Pyramidal evergreen, fast growing
Sitka spruce	<i>Picea sitchensis</i>	Native	Evergreen	150' / 30'	Medium	Full sun	Tolerates salt, wind, sandy soil. Will lift pavement. Pyramidal evergreen.
Shore Pine	<i>Pinus contorta</i>	Native	Evergreen	60' / 25'	Low	Full sun	Adaptable. Typical wind pruned tree along the coast
Austrian Pine	<i>Pinus nigra</i>	Non-Native	Evergreen	50' / 30'	Medium	Full sun	
Scotch Pine	<i>Pinus sylvestris</i>	Non-Native	Evergreen	40' / 35'	Medium	Full sun	
Japanese Black Pine	<i>Pinus thunbergii</i>	Non-native	Evergreen	50' / 20'	Medium	Full sun	
Bitter Cherry	<i>Prunus emarginata</i>	Native	Deciduous	40' / 30'	Medium	Part shade	
Flowering Cherry	<i>Prunus serrulata</i>	Non-native	Deciduous	20' / 20'	Medium	Full sun - part shade	White-Pink Flowers
Douglas Fir	<i>Pseudotsuga menziesii</i>	Native	Evergreen to 120'	80' / 20'	Medium to high	Full sun	
Holly Oak	<i>Quercus ilex</i>	Non-native	Evergreen	70' / 60'	Medium	Full sun - part shade	
Cascara Sagrada	<i>Rhamnus purshiana</i>	Native	Deciduous	40' / 12'	Low	Full sun - part shade	Upright form
Coast Redwood	<i>Sequoia sempervirens</i>	CA Native	Evergreen to 90'	100' / 25'	Medium	Full sun	
Japanese Snowbell	<i>Styrax japonica</i>	Non-native	Deciduous	30' / 30'	Medium	Full sun - part shade	
Western Red Cedar	<i>Thuja plicata</i>	Native	Likes roots in wet soil	70' / 25'	Medium	Full sun - part shade	Evergreen to 100'
Hemlock	<i>Tsuga heterophylla</i>	Native	Evergreen	60' / 20'	Medium	Full sun - part shade	Does not thrive in Sandy Soil. Tolerates Shade
Zelkova	<i>Zelkova serrulata</i>	Non-native	Deciduous	45' / 30'	Medium	Full sun - part shade	Replacement for American Elm
Shrubs							
Hairy Manzanita	<i>Arctostaphylos columbiana</i>	Native		10' / 10'	Low	Full sun	Likes well-drained, acidic soil, a southern or western exposure and is highly drought tolerant.
Kinnikinnick	<i>Arctostaphylos uva-ursi</i>	Native	Evergreen	12" / 15"	Low	Full sun	Groundcover
Coyote Bush	<i>Baccharis pilularis</i>	Native	Evergreen	4' / 10'	Low to medium	Full sun - part shade	
Barberry	<i>Berberis</i> sp.	Non-native	Evergreen	6' / 6'	Low to medium	Full sun - part shade	Broad-rounded shrub with arching branches

Common Name	Botanical Name	Native / Non-native	Evergreen / Deciduous	Height / Width	Water Requirements	Sun / Shade Requirements	Comments
Point Reyes Ceanothus	<i>Ceanothus gloriosus</i>	Non-native	Evergreen	6' / 6'	Low to medium	Full sun - part shade	Mounding, rounded, spreading form
Ceanothus	<i>Ceanothus griseus horizontalis</i>	Non-native	Evergreen	3' / 8'	Low	Full sun - part shade	Fast growing, durable ground cover
Blue Blossom	<i>Ceanothus thrysiflorus</i>	Native	Evergreen	5' / 5'	Medium	Full sun - part shade	Blue flowers attract bees. Short lived
Flowering Quince	<i>Chaenomeles japonica</i>	Non-native	Deciduous	3' / 6'	Medium	Full sun - part shade	Tolerates drought, erosion, clay soils. Easily grown in well drained soil
Mediterranean Fan Palm	<i>Chamaerops humilis</i>	Non-native	Evergreen	15' / 20'	Medium	Full sun - part shade	Multi-trunk evergreen palm with an upright irregular form that typically matures as a shrub or small tree
Mexican Orange	<i>Choysia ternata</i>	Non-native	Evergreen	8' / 8'	Medium	Part shade - full shade	Prefers areas protected from cold winter winds
Bloodtwig Dogwood	<i>Cornus sanguinea</i>	Native	Deciduous	6' / 6'	Medium	Full sun - part shade	Upright, round-topped, spreading, twiggy, multi-stemmed shrub
Western Hazelnut	<i>Corylus cornuta sp. californica</i>	Native	Deciduous	4' / 8'	Medium	Full sun - part shade	Showy, edible fruit
Smokebush	<i>Cotinus coggygria</i>	Non-native	Deciduous	15' / 15'	Medium	Full sun	
Hawthorn	<i>Crataegus sp.</i>	Non-Native	Deciduous	30' / 30'	Low to medium	Full sun	
Hopseed	<i>Dodonaea viscosa</i>	Non-native	Evergreen	12' / 8'	Medium	Full sun	
Heath (many species)	<i>Erica sp.</i>	Non-native	Evergreen	12' / 6'	Medium	Full sun - part shade	High Wind and Salt Tolerance
Escallonia	<i>Escallonia sp.</i>	Non-native	Evergreen	8' / 6'	Medium	Full sun - part shade	Dense shrub
Silktassel	<i>Garrya elliptica</i>	CA Native	Evergreen	12' / 8'	Low	Full sun - part shade	Rounded form
Salal	<i>Gaultheria shallon</i>	Native	Evergreen	6' / 8'	Medium	Full sun - part shade	High Wind and Salt Tolerance. Edible berries. Grows 2' tall in shade, up to 10' tall in sun
Oceanspray	<i>Holodiscus discolor</i>	Native	Deciduous	10' / 8'	Medium	Part shade	Attractive spring flowers
Hydrangea	<i>Hydrangea sp.</i>	Non-native	Deciduous	5' / 5'	Medium	Part shade	
Blue Pacific Shore Juniper	<i>Juniperus conferta</i>	Non-native	Evergreen	1.5' / 8'	Medium	Full sun	High Wind and Salt Tolerance
Creeping Juniper	<i>Juniperus horizontalis</i>	Native to Northern US	Evergreen	1.5' / 8'	Medium	Full sun	
Lavender	<i>Lavandula sp.</i>	Non-native	Evergreen	3' / 4'	Low to medium	Full sun	

Common Name	Botanical Name	Native / Non-native	Evergreen / Deciduous	Height / Width	Water Requirements	Sun / Shade Requirements	Comments
Twinberry	<i>Lonicera involucrata</i>	Native	Deciduous	10' / 10'	Medium	Full sun - part shade	Habitat plant. Grows into a leggy shrub. Takes wind
Japanese Honeysuckle	<i>Lonicera japonica</i>	Non-Native	Deciduous	30' / 6'	Low to medium	Full sun - part shade	
Mahonia	<i>Mahonia aquifolium</i>	Native	Evergreen	5' / 5'	Low	Part shade - full shade	
Dwarf Oregon Grape	<i>Mahonia nervosa</i>	Native	Evergreen	7' / 7'	Low	Part shade	Prefers well drained acidic soil
Creeping Mahonia	<i>Mahonia repens</i>	Native	Evergreen	2' / 4'	Medium	Full sun - part shade	Low, sprawling
Wax Myrtle	<i>Myrica californica</i>	Native	Evergreen	20' / 15'	Low to medium	Full sun - part shade	Can Suffer from Fungal Disease. Takes Pruning
Osoberry / Indian Plum	<i>Oemleria cerasiformis</i>	Native	Deciduous	15' / 10'	Medium	Part shade - full shade	Avoid wet soil
Ninebark	<i>Physocarpus capitatus</i>	Native	Deciduous	8' / 8'	Low to medium	Part shade - full shade	Rounded form
Lilly of the Valley	<i>Pieris</i> sp.	Non-native	Evergreen	7' / 7'	Medium	Full sun - part shade	
Pacific Rhododendron	<i>Rhododendron macrophyllum</i>	Native	Evergreen	8' / 8'	Low	Part shade	Prefers morning sun
Spreading Gooseberry	<i>Ribes divaricatum</i>	Native	Deciduous	10' / 3'	Low	Full sun - part shade	
Prickly Currant	<i>Ribes lacustre</i>	Native	Deciduous	7' / 5'	Low	Part shade - full shade	Upright form, fast growth rate, purple flowers
Red Flowering Currant	<i>Ribes sanguineum</i>	Native	Deciduous	13' / 7'	Low	Part shade	Upright form, pleasant fragrance, fast growth rate
Nootka Rose	<i>Rosa nutkana</i>	Native	Deciduous	4' / 4'	Low	Full sun - part shade	Pink flowers
Creeping rosemary	<i>Rosmarinus prostratus</i>	Non-native	Evergreen	2' / 3'	Low	Full sun	Medium Wind and Salt Tolerance
Rosemary	<i>Rosemarinus</i> sp.	Non-Native	Evergreen	6' / 4'	Medium	Full sun	Aromatic leaves, blue to violet flowers
Pussy Willow	<i>Salix discolor</i>	Non-Native	Deciduous	15' / 12'	Medium to high	Full sun - part shade	Thrives in wet soils
Red Elderberry	<i>Sambucus racemosa</i>	Native	Deciduous	12' / 15'	Medium to high	Full sun - part shade	
Western Spirea	<i>Spirea douglasii</i>	Native	Deciduous	7' / 4'	Medium to high	Full sun - part shade	Upright form, pleasant fragrance, fast growth rate
Snowberry	<i>Symphoricarpos albus</i>	Native	Deciduous	6' / 6'	Low	Full sun - part shade	Rounded, fountain form
Blueberry	<i>Vaccinium corymbosum</i>	Non-native	Evergreen	12' / 12'	Medium to high	Full sun - part shade	Shallow roots need constant moisture and good drainage. Plants appreciate good organic mulch.
Huckleberry	<i>Vaccinium ovatum</i>	Native	Evergreen	8' / 10'	Low	Full sun - part shade	Edible berries, neat, erect, compact, sometimes erratic growth habit

Common Name	Botanical Name	Native / Non-native	Evergreen / Deciduous	Height / Width	Water Requirements	Sun / Shade Requirements	Comments
Forbs							
Yarrow	<i>Achillea millefolium</i>	Native		3' / 1.5'	Low	Full sun - full shade	Upright, spreading form
Maiden Fern	<i>Adiantum pedatum</i>	Native		2.5' / 1.5'	Medium	Part shade - full shade	Prefers moist, hummusy, acidic soil in full shade
Ajuga	<i>Ajuga reptans</i>	Non-native		0.75' / 1'	Medium	Full sun - part shade	High Wind and Salt Tolerance
Lady's Mantle	<i>Alchemilla mollis</i>	Non-native		1.5' / 2.5'	Medium	Full sun - part shade	Low Wind and Salt Tolerance
Sea Pink	<i>Armeria maritima</i>	Non-native		1' / 1'	Low	Full sun	High Wind and Salt Tolerance
Sea Watch	<i>Angelica lucida</i>	Native					Showy white flowers
Goat's beard	<i>Aruncus dioicus</i>	AK Native		6' / 4'	Medium to high	Full sun - part shade	Best grown in moist, fertile, organically rich soils in full sun or part shade
Wild Ginger	<i>Asarum caudatum</i>	Native		0.5' / 1.5'	Medium	Part shade - full shade	Groundcover
Aster	<i>Aster chilensis</i>	Native		3' / 3'	Low	Full sun - part shade	Cheerful violet flowers
Deer Fern	<i>Belchnum spicant</i>	Native		3' / 2'	Medium to high	Part shade - full shade	Upright, fountain form
Heater (many species)	<i>Calluna sp.</i>	Native		2' / 2'	Medium	Full sun - part shade	Useful as groundcover or in a rock garden, effective when planted in mass on hillsides, also along borders
Large Camas	<i>Camassia leichtlinii</i>	Native		1' / 1'	Medium to high	Part shade	Upright form
Common Camas	<i>Camassia quamash</i>	Native		2' / 1'	Medium to high	Full sun - part shade	Upright form, great in meadows and along streamsides
Ice Dance' Sedge	<i>Carex morrowii</i>	Non-native		1.5' / 2'	Medium to high	Part shade - full shade	Medium Wind and Salt Tolerance
Slough Sedge	<i>Carex obnupta</i>	Native		2' / 2'	Medium to high	Full shade	Sedge that spreads by rhizomes, upright form. Likes moist, saline places
Snow in Summer	<i>Cerastium tomentosum</i>	Non-native		1' / 1'	Low	Full sun	Medium wind and salt tolerance
Cotoneaster	<i>Cotoneaster sp.</i>	Non-native		3' / 6'	Medium	Full sun	Medium Wind and Salt Tolerance
Indian Rhubarb	<i>Darmera peltata</i>	Native		5' / 5'	Low	Part shade - full shade	
Wood Fern	<i>Dryopteris arguta</i>	Native		2' / 2'	Low	Full sun - full shade	Grows well on slopes
Bishop's Hat	<i>Epimedium sp.</i>	Non-native		1' / 1.5'	Low to medium	Part shade - full shade	Prefers loose, organically rich loams with even moisture in part shade

Common Name	Botanical Name	Native / Non-native	Evergreen / Deciduous	Height / Width	Water Requirements	Sun / Shade Requirements	Comments
Beach Aster / Fleabane	<i>Erigeron glaucus</i>	Native		1' / 2'	Low	Full sun - part shade	High Wind and Salt Tolerance, small perennial, attractive flowers - violet, pink, spreading form
California Poppy	<i>Eschscholzia californica</i>	CA Native		2' / 2'	Low	Full sun	Low Wind and Salt Tolerance
Purple Leaf Winter Creeper	<i>Euonymus fortunei</i>	Non-native		0.75' / 3'	Medium	Full sun - part shade	Medium Wind and Salt Tolerance
Beach Strawberry	<i>Fragaria chiloensis</i>	Native		1' / 4'	Low	Full sun - part shade	Groundcover. Fruits are eaten by birds, animals. Spreading form
Fuschia	<i>Fuchsia magellanica</i>	Non-native		2' / 2'	Medium	Part shade - full shade	Showy flower, grows in organically rich, medium moisture soils
Sweet Woodruff	<i>Galium odoratum</i>	Non-native		1' / 1.5'	Medium to high	Part shade - full shade	Low Wind and Salt Tolerance
Western Geranium	<i>Geranium oreganum</i>	Native		3' / 2'	Medium	Part shade	Upright form, fast growth rate, purple flowers
Gumweed	<i>Grindelia integrifolia</i>	Native		1' / 1'	Low to medium	Full sun	Yellow Flowers. Grows in sandy beach
Lenten Rose / Hellebore	<i>Helleborus</i> sp.	Native		1.5' / 1.5'	Low	Part shade to full shade	Best grown in organically rich, humusy, well-drained soils. Clump-forming, late winter-blooming perennial with nodding flowers
Day Lily (many species)	<i>Hemerocallis</i> sp.			1' / 1'	Medium	Full sun - part shade	Medium wind and salt tolerance
Heuchera	<i>Heuchera micrantha</i>	Native		3' / 1'	Medium to high	Part shade - full shade	Prefers rocky substrate
Candy Tuft	<i>Iberis sempervirens</i>	Non-native		1' / 1.5'	Medium	Full sun	Medium Wind and Salt Tolerance
Douglas Iris	<i>Iris douglasiana</i>	Native		2.5' / 3'	Low	Full sun - full shade	Fountain form, fast grower
Beach Pea	<i>Lathyrus japonicus</i>	Non-native			Medium	Full sun	Lavender Flowers. <i>L. littoralis</i> is native variety but not as common. Grows in trailing stems typically on sand and gravel storm beaches
Shasta Daisy	<i>Leucanthemum x superbum</i>			4' / 4'	Low to medium	Full sun	Medium Wind and Salt Tolerance
Lithodora	<i>Lithodora diffusa</i>	Non-native		1' / 25'	Medium	Full sun - part shade	Best grown in humusy, moist, fertile, acidic, well-drained soils
Seashore Lupine	<i>Lupinus littoralis</i>	Native		1' / 1'	Low to medium	Full sun	Lavender, Blue Flowers. Likes sandy soil, clump or mat forming.
False Lily of the Valley	<i>Maianthemum dilatatum</i>	Native		1' / 1'	Medium to high	Part shade - full shade	Grows well in moist, shady evergreen forests

Common Name	Botanical Name	Native / Non-native	Evergreen / Deciduous	Height / Width	Water Requirements	Sun / Shade Requirements	Comments
Phlox	<i>Phlox subulata</i>	US Native		0.5' / 2'	Medium	Full sun	Medium Wind and Salt Tolerance
Silver Lace Vine	<i>Polygonum aubertii</i>	Non-native		25' / 25'	Medium	Full sun - part shade	Best grown in well-drained sandy loams with regular moisture. Needs a support structure upon which to grow unless grown as a sprawling ground cover. Somewhat weedy, spreads quickly by rhizomes.
Licorice Fern	<i>Polypodium vulgare</i>	Native		1' / 1'	Medium	Part shade - full shade	
Sword Fern	<i>Polystichum munitum</i>	Native		5.5' / 3'	Low to medium	Full shade	Needs some protection from wind. Understory plant. Upright, fountain form
Silverweed	<i>Potentilla anserine</i> sp.	Non-native		1' / 3'	Medium to high	Full sun	Yellow Flowers, ground cover
Drops-of-gold	<i>Prosartes hookeri</i>	Native		3' / 3'	Medium to high	Part shade	Shady damp areas, woodlands, oak understory
Fairy Bells	<i>Prosartes smithii</i>	Native		3' / 3'	Medium to high	Full shade	
Woundwort	<i>Prunella vulgaris</i>	Native		2' / 0.75'	Medium to high	Full sun - part shade	Found in a variety of places, including forest edges, meadows, and vernal wetlands. Prefers damp sandy loam
Bracken Fern	<i>Pteridium aquilinum</i>	Native		1.5' / 2'	Low	Full sun - part shade	Leaves turn brown in winter. Upright form
Matilija Poppy	<i>Romneya coulteri</i>	CA Native		10' / 20'	Low	Full sun	Upright columnar, weeping form
Thimbleberry	<i>Rubus parviflorus</i>	Native		8' / 8'	Medium to high	Part shade	Upright, spreading form
Santolina	<i>Santolina chamaecyparissus</i>	Non-native		2' / 3'	Low to medium	Full sun	High Wind and Salt Tolerance
Dragon's Blood Sedum	<i>Sedum spurium</i>	Native		0.5' / 1.5'	Low to medium	Full sun	High Wind and Salt Tolerance
Checkerbloom	<i>Sidalcea oregana</i>	Native		4' / 4'	Medium to high	Part shade	Upright form, prefers sandy or loamy soils.
False Solomon's Seal	<i>Smilacena racemosa</i>	Native		3' / 3'	Low	Part shade	Grows in woodlands
Goldenrod	<i>Solidago canadensis</i>	Native		5' / 3'	Low	Full sun	Grows in meadows and thickets
Fringecup	<i>Tellima grandiflora</i>	Native		3' / 2'	Medium to high	Part shade - full shade	
Wooly thyme	<i>Thymus pseudolanuginosus</i>	Non-native		0.25' / 1'	Low to medium	Full sun	High Wind and Salt Tolerance

Common Name	Botanical Name	Native / Non-native	Evergreen / Deciduous	Height / Width	Water Requirements	Sun / Shade Requirements	Comments
Piggy-Back Plant	<i>Tolmiea menziesii</i>	Native		0.5' / 0.5'	Medium to high	Part shade - full shade	Prefers rich, forest soil with well-decomposed organic component derived from decaying wood. For garden purposes add redwood compost to soil mix.
Trillium	<i>Trillium ovatum</i>	Native		2' / 1.5'	Medium to high	Part shade - full shade	Grows on moist slopes and canyon banks.
Inside-Out Flower	<i>Vancouveria hexandra</i>	Native		1.5' / 1.5'	Medium	Part shade - full shade	Easily grown in cool, organically rich, acidic, consistently moist, well-drained loams
Voilet	<i>Viola adunca</i>	Native		1' / 1'	Medium to high	Full sun - part shade	Likes sheltered places along streams. Adaptable
Stream violet	<i>Viola glabella</i>	Native		0.5' / 0.5'	Medium	Part shade	Grows along streams or in moist woods
Grasses							
Feather Reed Grass	<i>Calamagrostis acutiflora</i> 'Karl Forester'	Non-native		5' / 2.5'	Medium to high	Full sun	Prefers rich, consistently moist soils that do not dry out.
Orgen Tufted Hair Grass	<i>Deschampsia cespitosa</i>	Native		3' / 3'	Medium to high	Full sun - part shade	Fountain form
Blue Oat Grass	<i>Helictotrichon sempervirens</i>	Non-native		3' / 2.5'	Low to medium	Full sun	Medium Wind and Salt Tolerance
Blue Wild Rye	<i>Leymus racemosus</i> 'Glaucus'	CA Native		2' / 2'	Low to medium	Full sun	
Variiegated Japanese silver grass	<i>Miscanthus sinensis</i> 'Variegatus'	Non-native		9' / 5'	Medium	Full sun - part shade	Easily grown in average, medium moisture, well-drained soil
Maiden Grass	<i>Miscanthus sinensis</i> 'Gracillimus'	Native		7' / 6'	Medium	Full sun - part shade	Clump-forming warm season grass
Blue-Eyed Grass	<i>Sisyrinchium idahoense</i>	Native		1.5' / 1.5'	Medium	Full sun	Grows in open, moist, grassy places