Plant Guide

Bioretention & Rain Garden





Zone 1—The bottom of the rain garden, subject to frequent standing and flowing water. May become dry in summer. Plants should to be able to withstand prolonged wet soil and standing water as well as drought.

Zone 2—The sides of the rain garden. Periodically wet, sometimes saturated during large storms. Plants should be able to withstand saturated soil, as well as standing water and drought for intermittent periods.

Zone 3—The upper area of the rain garden. Infrequently subject to saturation, but often wet in the winter and dry in the summer. Plants should be able to tolerate wet to dry soil and be drought tolerant.

This guide is not intended to be an all inclusive list of all genus, species and varieties of plants suitable for rain gardens, but rather a representation of some of the most commonly seen rain garden plants in Kitsap County at the time this guide was created.





Characteristics

Perennial groundcover that spreads by trailing stems that take root and form new plants.

Dark green, coarsely toothed, leathery leaves grow in clusters of 3 and often turn red in the winter.

Spring blooming white flowers occur in clusters of 5–15. Red strawberries may follow.

May spread freely; allow ample space.



Native Habitat PNW native found on seaside bluffs and sand dunes

Light Conditions Sun to part shade

Soil Moist to dry, well-drained sandy soil

Zone 2 and 3



Weed around plants until full coverage is established.

Grass

Qo

Emergen



Characteristics

Leaves grow in a fan shape from the ends of rhizomes. Rhizomes eventually form a round clump.

Narrow, arching, golden variegated leaves form a low growing mound.

Leaf color will be more intense in full sun.

Flowers and seed heads are inconspicuous.



Native Habitat

Non-native ornamental variety used in bogs, along pond edges and in shallow water

Light Sun to part shade

Soil Wet to moist

Zone 1 and 2



Optional: Prune foliage to the ground in late winter to tidy plant. Rhizomes can be divided every 2–3 years in early spring.

Slough Sedge Carex obnupta

Evergreen/Deciduous Semi-evergreen to evergreen

Mature Size 2–3 ft. H and widely spreading

Characteristics

Densely tufted growth spreads by thick, creeping rhizomes.

Coarse, leathery grass-like leaf blades are arching and have sharp edges.

Leaf color is yellowish green to reddish purple at the base of the plant.

Slender, drooping, brown seed heads can persist into winter.

Grass & Emergent



Native Habitat PNW native found in marshes, swamps, bogs, wet forest openings and meadows

Light Sun to part shade

Soil Standing water, saturated to moist soil, dry conditions

Zone 1 and 2



Optional: To improve appearance, cut back at the base of the plant in late summer, after the sedge has produced seeds.

w.kingcount



Characteristics

A slow growing fibrous rooted sedge that forms clumps of cascading foliage.

Mounds of narrow, floppy, yellowish green leaves are produced in profusion.

Noticeable inflorescence and seed heads are prickly in appearance. Seed heads are brown.



Native Habitat PNW native found in wet meadows, ditches, clearings, swamps, along streams and lake shorelines

Light Sun to part shade

Soil Moist to wet

Zone



Optional: Cut back foliage before new growth begins in spring.

* Montenbrook@LED TANTS database



Characteristics

A clump forming sedge with arching foliage.

Finely textured leaves turn deep orange in sun and olive green in shade.

May spread by self-seeding in moist soils.



Native Habitat Non-native ornamental variety of sedge

Light Sun to part shade

Soil Moist to wet

Zone 2 and 3



Optional: Comb through with gloved hand to remove dead foliage. Can be cut back or divided every few years in early spring.



Evergreen/Deciduous to Semi-evergreen

Characteristics

Densely tufted grass with narrow stiff green leaves and clumps of upright to arching foliage. Leaf color is medium green.

The inflorescence is upright to nodding, open and airy and held on stems that are up to 4 ft. in height.

Seed heads are purplish to tawny in color and decorative through fall.

Variegated forms are available.



Native Habitat PNW native found in tidal marshes, moist meadows, rocky areas of bogs and on beaches

Light Sun to part shade

Soil Moist to wet

Zone 1 and 2



Optional: Cut back dead foliage in early spring before new growth begins.





Characteristics

A densely tufted perennial that can have short rhizomes.

Stems are leafy and rounded. Green leaves are half round and have a hollow cross section.

The inflorescence has groups of small flowers that bloom from late spring to late summer and are greenish brown to straw colored.

Seed heads are small, brown, 3 sided capsules.



Native Habitat PNW native found in marshes, bogs, ditches and shallow water

Light Sun to part shade

Soil Wet

Zone 1



Optional: Remove dead foliage by combing through the plant with a gloved hand or cut back in late winter or early spring, before new growth begins.





Characteristics

A clump forming rush with upright slightly fanning growth. Spreads slowly from rhizomes that are 6–10 in. long and grow just beneath the surface.

Rounded stems and leaves are deep green.

Tiny greenish brown flowers bloom in small clusters from late spring to mid-summer. Small straw colored seeds form in a 3 celled capsule.

May spread freely; allow ample space.



Native Habitat

PNW native found in moist to wet pond margins, pastures, coastal tide flats, ditches, clearing bogs, and along roads

Light

Sun to part shade

Soil Moist to wet

Zone 1 and 2

Fred Weinmann



Optional: Remove dead foliage and old flowering stems in early spring.

Grass

20

Emergen

Evergreen/Deciduous Semi-evergreen 2 ft. H and

Characteristics

Annual shoots grow from thick extensive rhizomes.

Medium green leaves are flattened and resemble iris leaves.

Small dense roundish inflorescences are greenish to purplish brown. They occur at the tips of the flowering stalks and bloom from early to late summer. Seeds form in small oblong capsules.

widely spreading



Native Habitat

PNW native found in moist to wet pond margins, wet meadows, on lake shores and along stream banks

Light

Sun to part shade

Soil Wet

Zone



Optional: Remove dead foliage in spring.

Sheri Hagwood@USDA-NRCS PLANTS database

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Characteristics

Stiff upright vigorous growing rush that spreads by rhizomes.

Rounded foliage is a striking blue grey color.

Dark brown inflorescence sprout from the sides of the stems summer through fall. Seed heads are reddish to brown spherical capsules.



Native Habitat Cultivar of a California native

Light Sun to shade

Soil Wet, moist to dry

Zone 1 and 2



Optional: Cut back in late winter every 3–4 years. Other years comb through with gloved hand to remove dead foliage.





Evergreen/Deciduou

Mature Size 6 in.–2 ft. H and widely spreading

Characteristics

A tufted rush with a fibrous root system.

Stems are slender, round and bright green. Leaves are approximately ½ in. wide and slightly rounded.

Small inflorescences are green to tan colored and form a compact to loose cluster. Blooms from June to September.

Seeds form in small capsules that are pointed at the tip.

Grass & Emergent



Native Habitat PNW native found in moist usually disturbed sites such as road sides, ditches and pastures

Light Sun to part shade

Soil Wet to moist, tolerates dry

R.W. Smith, Lady Bird Johnson Wildflower Center

Zone 1 and 2



Optional: Remove dead foliage in spring by combing with a gloved hand or cutting back.

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Characteristics

Clustered growth from a sturdy rhizome.

Stems are coarse and triangular shaped. The green leaves are flat and grass like, about 1/2 in. wide and 8 in. long and reddish purple where they attach to the stem.

Inflorescences are made up of many tiny dark scaly flower spikes arranged in large rounded clusters at the ends of the stem. Flowers bloom from early to late summer.



Native Habitat PNW native found in wetlands, roadside ditches, wet clearings and along stream banks

Light Sun to part shade

Soil Wet to moist

Zone



Optional: Remove dead foliage before new growth begins in spring.

Ben Legle



Evergreen/Deciduous Dormant in winter

Mature Size 2–4 ft. H

Characteristics

Flowering perennial that grows in expanding clumps and will re-seed.

Smooth straight stems grow in dense clumps. Bristly oblong leaves are up to 3 in. wide by 6 in. long with widely spaced teeth.

Flowers bloom mid-summer to fall and have a spiny, domed, orange center and drooping lavender petals.

Seed heads provide food for birds.



Native Habitat

North American native perennial found primarily in prairies and open woods

Light Conditions

Sun to part shade

Soil

Rich to sandy well drained soil

Zone

2 and 3



Optional: Either leave the late season flowers on the plant to attract birds or cut the stems back once the blooms fade for a tidier look.

Divide plants every 3–4 years by lifting the clump when new growth is beginning and splitting it into smaller divisions.

Cheryl Bosley

Cheryl Bosley



Evergreen/Deciduous Deciduous

Mature Size 3–4 ft. H and widely spreading

Characteristics

Flowering perennial that grows from a creeping rhizome.

Stems are leafy, unbranched and hairy. Leaves are alternate and leaf shape varies from lance shaped to oval depending on where it occurs on the stem. Leaves are up to 5 in. long and often have toothed edges.

Flowers bloom from July through October and have blue to purplish overlapping petals and yellow centers.



Native Habitat PNW native found in meadows and moist clearings, along steam banks and on beaches

Light Sun to part shade

Soil Moist to dry, tolerates salt spray

Zone 2 and 3



Optional: Remove dead stalks before new growth begins in spring.

Cheryl Bosley



Evergreen/Deciduous Dormant in winter.

Mature Size 1–3 ft. H

Characteristics

Ground covering perennial that grows from a bulb.

Grass like leaves, approximately 1 in. wide x 20 in. long, grow from the base of the plant.

Large light to dark blue, sometimes white flowers, bloom in spiked clusters from mid to late spring.

Seeds are papery, egg shaped capsules on stalks which curve in toward the stem.



Native Habitat PNW native found in moist, open, grassy slopes and meadows

Light Sun

Soil Wet to moist

Zone 2 and 3



No maintenance recommendations

.kingcounty.gov/gonative



Evergreen

Mature Size 2–3 ft. H x 2–3 ft. W

Characteristics

A perennial iris that grows from clumping rhizomes.

Flowering stems are approximately 20 in. tall and often branched.

Dark green evergreen leaves are 1 in. wide x approximately 36 in. long.

Flowers bloom from early to late spring in shades that include cream, reddish and bluish purple and lavender. Plants will re-seed.



Native Habitat PNW native found on seaside bluffs and grassy hillsides

Light Sun to part shade

Soil Moist to dry well drained soil

Zone 1 and 2 (A)

Optional: Remove dead foliage from the center of the clumps in autumn. Cut back flowering stems after blooms fade.

Plants can be divided in late fall or winter after roots are developed but before blossoms form. Remove a division of rhizome with roots, set in prepared soil, and water.

ally & Andy Wasowski, ady Bird Johnson Wildflower Cente



Evergreen/Deciduous Semi-evergreen Mature Size 6–18 in. H

Characteristics

A clump forming perennial plant in the iris family.

Thin erect grass-like leaves grow from the base of the plant.

Star shaped flowers with blue to purple petals and a yellow center, bloom on a flat stem from mid spring to mid-summer.

Seed capsules turn brown to black and split open to reveal black seeds. May self sow.

Perennial



Native Habitat

PNW native found in moist and wet grassy meadows, near seeps and in ditches

Light

Sun to part shade

Soil Wet to moist

Zone 1 and 2



Optional: Can be divided every 2–3 years.



Fern



Evergreen/Deciduous outer fronds: evegreen, inner fronds: deciduous

Mature Size 2–3 ft. H x 2–3 ft. W

Characteristics

Arching evergreen fronds, often lying flat on the ground, surround a central clump of upright deciduous fronds.

Leaflets on the upright deciduous fronds are narrow and often curled. Leaflets on both fronds are bigger at the center of the frond and get progressively smaller at either end.

Leaflets are attached to the stem along the entire base of the leaflet, unlike leaflets of sword ferns, which are attached by small stalks.



Native Habitat

PNW native found in moist conifer forests, along stream banks and occasionally in bogs

Light

Part to dappled shade or sun (with adequate moisture)

Soil

Wet, moist or dry (in shade only)

Zone

1, 2, and 3



Optional: Cut back the deciduous fronds in the center, once they begin to die back in the fall and winter.

Fern



Characteristics

Roots are dense, fibrous woody rhizomes.

Lance shaped fronds arise in clusters from the center of the plant. Young fiddleheads unroll from the center of the plant in spring.

Individual leaflets are dark green, and have sharply toothed edges. Each leaflet has a small upward pointing lobe at its base and is attached to the stem by a small stalk.



Native Habitat PNW native found in moist coniferous and deciduous forests

Light Part sun to shade

Soil Moist organic to dry soil

Zone 2 and 3



Optional: Trim oldest fronds in spring. Large clumps can be divided when dormant to make more plants.



Evergreen/Deciduous Deciduous

Mature Size 3–6 ft. H x 4–6 ft. W

Characteristics

A thicket-forming shrub that spreads by dense woody rhizomes.

Slender twigs grow in an opposite branching pattern.

Leaves are $\frac{3}{4}$ -2 $\frac{1}{2}$ in. long, oval shaped and opposite. New leaves may be lobed. Older leaves have smooth edges.

Pink to white, bell shaped flowers bloom from late spring to early summer in dense clusters.

White, berry-like fruits remain on the plant through winter.

May spread freely; allow ample space.



Native Habitat PNW native found on open slopes, in dense woods, and moist to dry thickets

Light Sun to part shade

Soil Moist to dry

Zone 2 and 3



Optional: Prune in early spring if needed to control size.



Rhizomatous thicket-forming shrub with thorny to almost thornless stems.

Leaves up to 3 in. long with serrated edges. A pair of thorns appears immediately below where leaves attach to stem.

Pink, fragrant flowers up to 3 in. wide bloom singly or in pairs at the tips of the stem late spring to late summer.

Round hips (fruit) are 1½–3 in. wide, purplish-red when ripe and persist until winter.

May spread freely; allow ample space.



Native Habitat

PNW native found along streams, lakes and forest edges, in meadows and forested areas

Light

Sun to part shade

Soil Moist to dry

Zone 2 and 3



Optional: Prune after flowers fade to improve appearance or control size.



Rhizomatous thicket-forming shrub with stems that range from thorny to almost thornless.

Leaves are up to 1½ in. long and have serrated edges. There is a pair of thorns immediately below where the leaves attach to the stem.

Small, pink, fragrant flowers bloom in clusters at the tips of the stem from late spring to late summer.

Clusters of small bright to dark red hips (fruit) often remain on the shrub into winter.

May spread freely; allow ample space.



Native Habitat PNW native found in wetlands, roadside ditches, and along streams

Light Sun to part shade

Soil Wet, moist to fairly dry

Zone 1, 2 and 3



Optional: Prune after flowers fade to improve appearance or control size.





Thornless, upright, loosely bunched stems with reddish brown bark.

Leaves are $1\frac{1}{2}$ -3 in. long, slightly hairy, with 3–5 lobes.

Reddish buds stand out on bare branches in winter. Showy flowers bloom in drooping clusters from early spring to early summer, and range from light to deep pink, sometimes white.

Dark blue-black berries are small, waxy and have a whitish bloom.



Native Habitat PNW native found in dry to lightly moist wooded or open sites

Light Sun to part shade

Soil

Dry to moist; does not tolerate saturated soil

Zone

2 and 3



Optional: Cut back shoots to strong buds after flowering if desired to reduce size.



Spreads easily from tough rhizomatous roots. Has stiff branched upright stems.

Green glossy, prickly foliage is oval shaped and resembles holly leaves. Cold and sun can turn the foliage burgundy-red.

Bright yellow fragrant flowers bloom in clusters at the tips of the stems in early to late spring.

Small blue waxy grape-like fruit.



Native Habitat PNW native found in conifer forests, in thickets and on rocky slopes

Light Sun to shade

Soil Moist to dry soil

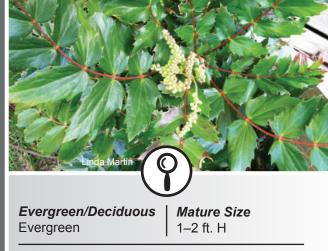
Zone 2 and 3



Optional: Can be pruned back to control spreading. Leaves are very prickly; avoid planting near paths.

> Julie Makin, Lady Bird Johns Wildflower Center

ne Bartlet



Spreads by rhizomes and produces stiff upright stems.

Green glossy, holly like leaves grow in tufts at the ends of the stems. Prickly leaves have spiny margins. Cold and sun turn the foliage a reddish purple color. Older foliage turns red before falling off.

Pale yellow fragrant flowers bloom in narrow clusters in early to late spring.

Small blue waxy grape-like fruit.



Native Habitat PNW native found in conifer forests, in thickets and on rocky slopes

Light PNW native found in forested areas

Soil Moist to dry soil

Zone 2 and 3



Can be slow to establish and may need to be watered during drought.



Compact rounded shrub with dark red stems in winter.

Foliage is glossy green with red to maroon color in autumn. Leaves are narrow and oblong.

Cream colored flowers in late spring are followed by white fruits.



Native Habitat Ornamental cultivar of a PNW native

Light Sun to part shade

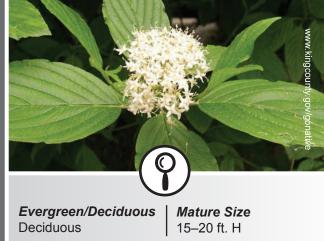
Soil Moist to wet

Zone 2



Optional: Cut back before new growth begins in spring to increase red stem color. To control leaf spot and/or anthracnose, avoid overhead irrigation, rake and dispose of leaves in the fall, prune out and destroy affected twigs.





A multi-stem thicket-forming shrub with a dense root system. Low growing branches may take root where they touch the ground.

Bark on younger stems is smooth and bright red and on older stems is grayish green.

Oval leaves, approximately 4 in. long, have parallel veins and pointed tips. Light green summer foliage turns deep red in fall.

Flat top clusters of small white to cream colored flowers bloom from late spring to mid-summer. Clusters of light blue to white fruit follow flowers.

May spread freely; allow ample space.



Native Habitat PNW native found in wetlands, moist to wet woods and along streams

Light Sun to shade

Soil Moist to wet

Zone 1, 2, and 3



Optional: Cut back before new growth begins in spring to increase red stem color. To control leaf spot and/or anthracnose, avoid overhead irrigation, rake and dispose of leaves in the fall, prune out and destroy affected twigs.

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A large shrub with multi-stemmed trunk, angled branches and an upright to arching form. Shredded peeling bark is reddish to yellowish brown.

Leaves are alternate, lobed with serrated edges and grow approximately 3 in. long.

Small white star-shaped flowers bloom in dense rounded clusters, from late spring to early summer.

Small, red to pinkish brown clusters of seeds often remain on the plant into winter.



Native Habitat PNW native found in wetlands and moist woods, along lakes and streams

Light Sun to part shade

Soil Moist to wet; can tolerate drought

Zone 1, 2 and 3



No maintenance recommendations



A multi-trunked shrub or small tree that forms thickets. Extensive root system with horizontal and vertical rhizomes. Bark is smooth, brown-red.

Leaves are alternate, oval to round, toothed, about 1 ¹/₂" long. New leaves reddish, turning blue-green in summer, red to gold fall color.

White flowers with 5 narrow petals, in clusters from mid-spring/early summer.

Small fruits resemble blueberries, start red, turning purplish.

May spread freely; allow ample space.



Native Habitat PNW native found in open forests and on hillsides

Light Sun to part shade

Soil Moist to dry, drought tolerant

Zone 2 and 3



Vasowski. Lady

Sing Johnson Wildflower Ce

No maintenance recommendations

ally & Andy Wasowski, Lady Bird ohnson Wildflower Center



A thicket-forming shrub spreading by rhizomes; multiple stems are slender and upright.

The 3–4 in. long, oblong, alternate leaves have a rounded tip and upper half of leaf margins are toothed. Leaf undersides are sometimes fuzzy and are paler than the top.

Light to dark pink flowers bloom early to late summer, in dense spires at stem ends. The long flower stamens cause clusters to appear fuzzy.

Dry, brown flower heads remain on the plant through winter.

Will spread freely; allow ample space.



Native Habitat PNW native found along streams, in wet meadows, marshes and bogs

Light Sun to part shade

Soil Wet to moist

Zone 1 and 2



No maintenance recommendations

Judy Guttorms

Shrub



Characteristics

Compact growing shrub with a mounded and somewhat spreading form.

Small oval leaves with pointed tips and serrated edges emerge bright orange-yellow and change to an orange tinged chartreuse over time.

Bright to deep pink flowers bloom in early summer, in flat clusters at the ends of the branches.

Showy leaf color, in shades of orange, continues into fall.



Native Habitat Non-native ornamental variety of spirea

Light Conditions Sun to part shade

Soil Moist well drained

Zone 2 and 3



Optional: Prune a few stems to the ground every year in the winter or cut the entire plant back every 3–4 years, to control size.





Often a multi-trunked tree with leggy branches that can take root and form new plants.

Slender new branches have thin greenish bark; older bark is reddish.

Fan shaped leaves 2–4 in. across with 5–9 lobes. New leaves are reddish and fuzzy, later turning green; red, orange, gold fall color.

Reddish-purple flowers in small clusters early spring to early summer.

Typical "helicopter" seeds in late summer.



Native Habitat PNW native found in forests, clearings and along stream banks

Light Sun to shade

Soil Moist to dry

Zone 2 and 3



Optional: Prune to reduce size or improve form.

Cheryl Bosley

Bioretention & Rain Garden

BOOKS

Plants of The Pacific Northwest Coast, Washington, Oregon, British Columbia and Alaska, compiled and edited by Jim Pojar and Andy Mackinnon

Sunset Western Garden Book, 2001 and 2012 editions

Grow Your Own Native Landscape, Micahel Leigh

Encyclopedia of Northwest Native Plant for Gardens and Landscapes,Kathleen A. Robson, Alice Richter and Marianne Filbert

WEBSITES American Beauties Native Plants. www.abnativeplants.com

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folio: Social Garden Tracker and Organiser http://myfolia.com

gardenguides.com www.gardenguides.com

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Missouri Botanical Garden Plant Finder: www.missouribotanicalgarden.org/gardens-gardening/ your-garden/plant-finder.aspx

Pacific Northwest Plant Disease Management Handbook: http://pnwhandbooks.org

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Royal BC Museum www.royalbcmuseum.bc.ca/ Natural_History/Plants.aspx

Royal Horticultural Society http://apps.rhs.org.uk/advicesearch/profile.aspx?pid=186

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University of Washington Arboretum Plant Sale List: http:// uwarboretum.org/foa/plant_sale/ Fox%20Sedge.pdf

University of Washington Botanic Gardens Elizabeth C. Miller Library: http://depts.washington. edu/hortlib/resources/resource_ search.php?term=2056

USDA Natural Resources Conservation Service Plants Database,.http://plants.usda. gov/java/ Washington Native Plant Society. www.wnps.org/landscaping /herbarium/index.html

Wildflowers Institutue. http://wildflowers.org/

WSU College of Agricultural, Human and Natural Resources Sciences. http://cahedb.wsu.edu/ nativePlant/scripts/webDisplay-Plant.asp?ID=nv072

WSU Kitsap Rain Garden Mentor Volunteers Who Contributed to this Project Cheryl Bosley • Judy Guttormsen • Linda Martin

This program brought to you by:











This publication was funded through a grant from:



Printing sponsored by:

