NATIVE PLANTS OF NORTH AMERICA WHOLESALE CATALOG

Ghost meadows: stress and ecological relationships in a time of rapidly changing climate

by Roger Fuller



A tall, lush, and flowering seacoast bulrush (Bolboshoenus maritimus) meadow in the foreground with the invasive phenolicproducing narrow-leaved cattail (Typha latifolia) looming in the background.

I was out tramping around in the mud one day. I spend a lot of time slogging through wetlands, particularly ones with a twice-daily push and pull of tide and river slowing sloshing back and forth. Working my way down the estuary from the tidal fresh zone, salty ocean gradually intrudes, and plant species begin dropping out, leaving behind those that can tolerate a little salt in their soil soup. Brackish tidal marshes in the Salish Sea are often dominated by several species of bulrush, including three-square, American, seacoast, river, and softstem bulrush. Anyway, on this particular early summer day the tide was out and I was slogging through the deep mud of middle marsh dominated by a mix of close cousins seacoast and river bulrushes (Bolboschoenus maritimus and B. fluviatilis).

The only problem was that this usually-lush meadow was short and remarkably brown for early July. Eventually I stopped to look around and it dawned on me that most of these perennial plants had already senesced, having produced no flowers or fruits. Even the still-green plants were browning at the tips, far too early in the season. I got down on my knees for a closer look and noticed that each plant had a small black hole near the base.

On plants that were still mostly green, dead brown tissue surrounded the hole and was creeping up the stem, while tissue browning was similarly spreading downward from the lifeless leaf tips. Across the space of about 50 acres, nearly every single stem of bulrush was dead or soon would be.

Collecting a few stems, I slit them open and found

larvae carving their way up the inside of the stem, and in dead stems I found silk-wrapped pupae. Placing them in a sealed plastic bag, in a few days the silk mummies cracked open, releasing small brown moths. Few west coast estuarine ecologists that I've spoken with have given much thought to insect herbivores, let alone even know that bulrush stemboring moths exist. But why did 50 acres succumb at once to a native herbivore, a critter that is likely always present, even if seldom noticed? Having worked in many ecosystems, and in my own garden for that matter, I knew that full-grown plants, like trees for instance, generally don't just die when an insect attacks. The insect might be the proximal cause of death, the nail in the coffin, but the plant almost always shows other signs of accumulating stress that likely weakened it to the point that an insect could push it over the edge. A meadow of stressed-out plants might provide just the opportunity for a major outbreak of stem-boring moths.

(At this point, I should mention that the subsequent discussion is based mostly on speculation because we weren't monitoring the things that could have neatly documented what happened. Lots of lessons here, about monitoring the right and wrong things in restoration and stewardship projects, but that's a story for a different day.)

So, whence the stress that opened the door for the moth? Since this particular marsh-traipsing event, during which I discovered the ghost marsh, was in

(continued on page 10)

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Greetings,

'Change is the only constant' is one of those adages (attributed to the Greek philosopher Heraclitus-thanks Google), that is easy to point out to others but often harder to embrace. One piece of recent news that has preoccupied me is the May 2019 Global Assessment by the



Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES). The report hammers home the breadth of environmental change that is happening across the globe. The ecosystems that we, humans, and all species, depend on are in rapid decline. Though bleak the report isn't without hope. It offers evidence that conservation and restoration efforts do work and that there is still time to make a difference, IF people, towns, governments and societies are willing to embrace transformational change.

Given the stakes and the need for people to step up to the challenges of rapidly changing planet, we at Fourth Corner Nurseries are always asking if what we do matters, how to improve and how to make a bigger impact. The answers that we come back to are to champion biodiversity, promote genetic diversity, strive to improve quality and consistency, and listen to and gain inspiration from our customers. In this 37th year of operation we are excited to offer an ever-widening selection of trees and shrubs with more seed source options, a deeper inventory of bulbs and herbaceous perennials and the opportunity to pre-order a new line of plug products.

A notable change at the nursery is that our legendary propagator Rich Haard hung up his collecting pole and bucket and retired this past December at the spritely age of 80. We will miss his frenzied drive and resolute perseverance to track down seed or spore, as well as his ingenious propagation schemes. Rich truly embodied the pioneering spirit and his imprint on our nursery was profound and enduring. In this issue we share a few of our favorite photos of Rich in action.

We're committed to producing plants for a changing world; carefully curated wild plants that have roots deep in the past and the genetic diversity and resiliency to confront an unknown tomorrow. Thank you so much for you interest in and support of native plants. We wish you all a great summer and a prosperous year, and as always, look forward to working with, and serving you in the future.

Cheers, Dylan Dylan Levy-Boyd, General Manager, Fourth Corner Nurseries

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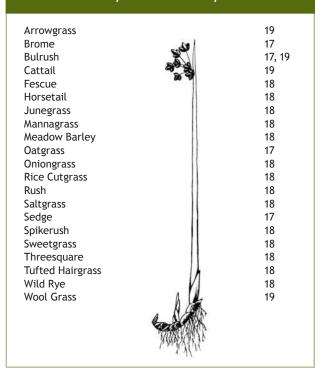
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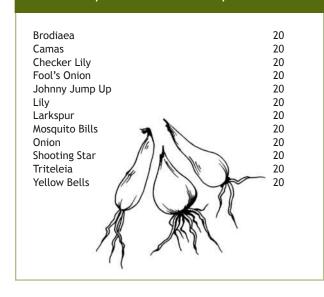
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PLUGS

Starting next year, we are offering the following species as plugs by pre-order only, with a minimum of 500 plants per species. Please place your order by the date below for finished plugs in 2020.

Constant	Outral	Con Boundation
Species	Order by	See Description
Abies amabilis (Pacific Silver Fir)	October 1st	pg. 12
Arbutus menziesii (Pacific Madrone)	November 1st	pg. 4
Calocedrus decurrens (Incense Cedar)	October 1st	pg. 12
Chamaecyparis nootkatensis (Alaska Yellow Cedar)	October 1st	pg. 12
Gaultheria shallon (Salal)	January 1st, 2020	pg. 5
Berberis [Mahonia] nervosa (Cascade Oregon Grape)	August 1st *Coming up soon!	pg. 4
Pinus monticola (Western White Pine)	October 1st	pg. 12
Pinus ponderosa (Ponderosa Pine)	October 1st	pg. 12
Rhododendron macrophyllum (Pacific Rhododendron)	January 1st, 2020	pg. 6
Tsuga mertensiana (Mountain Hemlock)	October 1st	pg. 12
Vaccinium membranaceum (Black Huckleberry)	November 1st	pg. 8

FOR YOUR INFORMATION

Contact Information

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> Sales hours: 8 AM-4 PM PST Monday through Friday

> Toll free: 800-416-8640 Fax: 888-506-1236

Wetland Indicator Status

This edition of the Fourth Corner Nurseries catalog reflects the changes encompassed in the most recent 2016 National Wetland Plant List (NWPL). It is important to note that our catalog lists the wetland indicator status for each plant in the Western Valleys, Mountains and Coast region, even if the plant occurs in or is native to another region. If you are installing plants outside of this region, please consult the NWPL to confirm the status of your plant in the region in which it will be installed. Plants not listed on the NWPL for the Western Mountains, Valleys, and Coast region (indicated as NL in our catalog) either do not occur in our region, or have not been tested in our region.

To see the full list, including the indicator status of each plant across all ten regions, please visit: http://wetland-plants.usace.army.mil/nwpl_static/home/home.html

OBL

NL

OBL - Obligate Wetland Almost always occurs in wetlands.

FACW - Facultative WetlandUsually occurs in wetlands, but may occur in non-wetlands.

FAC - FacultativeOccurs in wetlands and non-wetlands.

FACU - Facultative Upland Usually occurs in non-wetlands, but may occur in wetlands.

UPL - UplandAlmost never occurs in wetlands.

NL - Not Listed
These plants are not listed in the
Western Valleys, Mountains and Coast
region of the NWPL.

A Note on Nomenclature

Several species have recently experienced name changes resulting from continuing research. We have listed plants by their current names, with previous or other commonly used names noted. Current names are from the PLANTS Database at http://plants.usda.gov.

Terms and Conditions

Pricing and order payment: Pricing is based on stock on hand and is in U.S funds; availability and price may change without notice. Volume discounts are built into our pricing structure. Prices do NOT include shipping. Non-credit customers or customers placing contract growing orders must submit a 25% deposit within 10 days of the order being placed. The balance is due in full before shipping for all non-credit customers; unpaid orders will not be shipped and we will not be held liable for deterioration of your plants while we wait for payment. We accept Visa and Master Card. Any taxes arising from the purchase, including sales tax or any other local tax, are the responsibility of the Buyer.

Minimum orders: Minimum confirmed order for nursery stock is \$100.00 minimum. Plants are sold in multiples of 50.

Cancelations: A 25% restocking charge will be billed on all canceled or reduced orders after December 1st. Cancelations or reductions of quantity ordered must be in writing. An order may not be canceled after the preparation of the order for shipping. Orders may be cancelled by Fourth Corner Nurseries due to late payments.

Substitutions: If we are unable to supply the size plants that you have requested, we reserve the right to substitute the next available size without notice, unless you have requested in writing that you do not want substitutions. You will be charged for the size grade shipped.

Shipping: All nursery stock is shipped at the Buyer's risk and expense ex-warehouse, Bellingham, WA. Bare-root orders will be shipped by the method we think best unless you have specified otherwise. Orders are typically shipped UPS, truck freight, or delivered at cost. Orders may also be picked up at our nursery; please call a few days ahead to schedule a pickup. Tree and shrub orders held for shipping after April 1st must be prepaid in full and are subject to additional storage charges. We charge for shipping materials. Packing is included in the plant cost, however, orders not meeting the \$100 minimum for confirmed nursery stock will charged \$50 to cover sub minimum order handling charges.

Claims: We take great care to provide quality healthy nursery stock. However, we can give no guarantee, expressed or implied, as to productiveness or life span. Buyers assume responsibility of the plants as soon as they receive them. Any stock received in unsatisfactory condition must be reported to us in writing within 5 working days. Plant claims will be reviewed and credit issued where justified; at no time will we be responsible for more than the purchase price. We do not guarantee plants' survivability after leaving our care.

Non-guarantee: We do our best to fulfill all committed orders completely and on time, but will not be liable for delays or shortages that are out of our reasonable control due to: frost, heat waves, disease, flood, fire, labor shortages, errors in count, transport delays, or other circumstances beyond our control.



Rich casually collecting Amelanchier alnifolia (Serviceberry, Juneberry) seed

Grading

We take care to grade and ship high-quality, healthy plants, true to name and count. Height grades are measured from the soil line. Transplants are mostly but not always branched and have more developed root systems than seedlings. If you require special grading regarding branching or root systems, or quantities other than our standard bundle size, please ask and we will do our best to meet your needs for a small additional charge.

Seed Sourcing at Fourth Corner Nurseries

The lion's share of our plants are propagated from source identified seed. We take great pride and care in sustainably collecting the seed that we use from genetically diverse populations, and offer multiple seed sources of the most common restoration species. Knowing that much of the restoration work in our region is being done at low elevations surrounding the Puget Sound, we strive to offer at least one seed source from low elevation Puget Trough sites whenever possible.

Available sources for each species are listed in our catalog according to the EPA Level III Ecoregion from which the seed originates, two notable exceptions being: 1) conifers will be organized by the industry's tree seed zone maps; and 2) species for which the Level III Ecoregion is unknown will be organized by state. In the absence of species specific seed zones for native plants, Level III Ecoregions show promise as an approximate delimiter between populations under differing ecological conditions. If you prefer to use alternate seed zones, we are happy to work with you to determine if our specific collection sites conform to your project guidelines. We also continue to offer contract growing options which allow for propagation of particularly collected seed.

To view a map of the EPA Level III Ecoregions in the Pacific Northwest or the conifer seed zone maps, visit our website: fourthcornernurseries.com/seed-zone-maps/

Plant Availability

Each species listing is accompanied by a graphic displaying the months when that plant is generally available (indicated by green squares). A selection of grasses, sedges and rushes are available through the winter months for a slightly higher price, indicated by an additional color. Availability is subject to change.

Custom Propagation Services

If you have a project requiring plant species not listed in this publication, plants propagated from seed provenances other than those listed, or very large quantities of plants in a particular size, we encourage you to consider using our custom propagation services. We have extensive experience producing plants to meet special contract requirements. During the past ten years we have successfully completed growing contracts for the U.S. Forest Service, Seattle City Light, Seattle Metro, and the Washington Departments of Transportation, and Fish & Wildlife. Our experienced staff is always ready to discuss your plant needs-for question about trees, shrubs, perennials, and seed contact Dylan Levy-Boyd, dylan@fourthcornernurseries.com; for questions about plugs production contact Kelly Broadlick at kelly@fourthcornernurseries.com.

Unit Price
50 100 500 1000

A unit is one plant. All pricing is for individual plants based on total quantity purchased per species. Bare root plants are available in bundles of 50 only.

UNIT PRICE UNIT PRICE UNIT PRICE 500+ 1000+ GRADE 50 100+ 500+ 1000+ **GRADE** SIZE 50 100+ 500+ 1000+ **GRADE** SIZE 50 100+

A Note About Trees & Shrubs

Our trees and shrubs are propagated from source identified wild-collected seed. All stock is field grown and shipped bare root, unless noted in the species description. In early winter, once plants are fully dormant, they are dug, graded to size, counted and bundled for

Standard graded bare root seedling size classes (measured from soil line):

- 6-12" 12-18"
- 18-36'
- 36+"

Seedlings are grown in a bed for 1-2 years. Transplants are grown as seedlings for a year, then dug and replanted for at least one additional growing season. Transplants generally have a larger stem caliper, and more developed root system compared to seedlings, making them a good choice for out-planting.

Standard bundles contain 50 plants each. Some species require non-standard grading, due to growth habit or size (e.g. vining plants are often sold as 3"+ and 12"+). Prior to shipping, bare root stock are packed into bags and held in cold storage, oversized stock is bunkered into sawdust.

> Current Availability and Pricing is posted at www.fourthcornernurseries.com

Acer circinatum (Vine Maple)

Small deciduous tree native to Pacific Northwest forests. Red fall color, irregular growth habit with multiple stems to 25-35'. Has excellent soil binding and erosion control capabilities. Tolerates sun or shade. Closely related to Japanese maples. Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D	
Seedling	1-0		6-12" 12-18"			1.40 .50		.26 35		34 0	.70 .75		
			18-36"			.90	1	.71	.90 1.14		.95		
Transplant				36"+ olug-		3.80		.35		.28		90 75	
·				12-18 18-3 <i>6</i>	_	2.90		.61		.74 .86		45 55	

Acer glabrum v. douglasii (Douglas Maple)

Small deciduous tree to 35'. Prefers drier sites, sun FACU or shade. Leaves are wine-red in fall, twigs and buds red in winter. Has excellent soil binding, erosion control capabilities. Grows from British Columbia and Alberta south to California and east to Montana and Wyoming.

Provenance: 02-Puget Lowland, 15-Northern Rockies

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling	1-0		(ó-12"		1.20	1	.08	.7	72	.6	0
_			1	12-18"		1.30	1	.17	.78		.65	
	2-0		1	8-36	5" 1	.60	1	.44	.9	96	.8	0
			3	36"+	1	.60	1	.44	.9	6	.8	0

Acer macrophyllum (Bigleaf Maple)

Grand deciduous shade tree to 100' for large open FACU spaces. Rapid growth quickly provides shade and large woody debris for stream banks. Flowers are an early nectar source. Bright yellow fall color. Has excellent soil binding, erosion control capabilities. Native from British Columbia to California.

Provenance: 02-Puget Lowland, 03-Willamette Valley

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Seedling		12-18" 1.20				.20	1	.08		.72		0
			1	18-36"		.40	1	1.26		34	.70	
				36"+		.40	1.26		6 .84		.7	0

FACW

Alnus incana ssp. tenuifolia (Mountain Alder, Thinleaf Alder)

Native nitrogen-fixing shrub or small tree to 35', with attractive white bark. Prefers moist ground, most commonly found east of the

Cascades; widespread across western North America. Provenance: 09-E.Cascade Slope/Foothills

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Seedling			1	12-18" 18-36" 36"+		1.50 1.70 1.70	1	.35 .53 .53	1.	90 .02 .02	.7. 8.	35

Alnus rubra (Red Alder)

Rapid-growing native deciduous tree to 80-100'. Nitrogen-fixing pioneer species on mineral soils, yellow fall color. Native from Alaska to California, Idaho, and Montana.

Provenance: ALRU3-Nooksack, ALRU4-PugetSound, ALRU5-UpperChehalis, 03-Willamette Valley

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling			12-18"			1.20	0 1.08		.7	72	.60	
			1	8-36	," ′	1.40	1	.26	.84		.70	
			3	6"+	•	1.40		1.26		34	.70	
Transplant	nt			18-36"			1	1.26		34	.70	
	•		F	P-1		1.48		1.33		38	.74	
Plug			St	Styro-15		1.48	1.33		.88		.7	4

Alnus viridis ssp. sinuata (Sitka Alder)

Native shrub or small tree to 20-25'. Nitrogen-fixer **FACW** with good ornamental or urban buffer tree potential; tolerates wide variety of soil and light conditions. Tolerates salt spray in shoreline plantings. Has excellent soil binding, erosion control capabilities. Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling				12-18 8-36		1.20 1.40		1.08 1.26		.72 .84		0
			3	86"+	1	.40	1.	.26	3.	34	.7	0

Amelanchier alnifolia (Serviceberry)

Lovely shrub from 6-20' tall on moist to dry welldrained sites. Showy white flowers, edible fruit. An important shrub for wildlife habitat. Tolerates

salt spray in shoreline plantings. Has excellent soil binding, erosion control capabilities. Native across most of northern North America.

Provenance: 02-Puget Lowland, 03-Willamette Valley, 09-E.Cascade Slope/Foothills

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Seedling			1	5-12" 2-18 8-36	" 1	.20 .40 2.00	1	.08 .26 .80		72 84 .20	.7	0 0 00
Transplant			3	86"+ 12-18 8-36	3" 1	.60	1 1	.80 .44 .80	1.	.20 96 .20	1. .8	00

Amelanchier utahensis (Utah Service-

Forms a shrub or small tree 6-12' tall. Deciduous, blooms in May with clusters of white flowers. Purplish-black fruits stay on the shrub longer than

A. alnifolia. Plants provide cover, nesting sites, and food for birds. Generally found on dry, rocky sites above 5,000' from Wyoming to Oregon and south to New Mexico and California. Provenance: UT

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling			-	5-12" 2-18	-	.20	-	.08	.7	72 84	.6 .7	0
				8-36		2.00		.80	• • •	.20	1.	00

Arbutus menziesii (Pacific Madrone)

A striking broad-leaved evergreen tree with a **UPL** spreading canopy, white flowers, red berries, and exfoliating cinnamon red bark that reveals lime green layers underneath. Native to the western edge of North America, this tree is most commonly found on well drained slopes. Grows to 90'.

Provenance: 02-Puget Lowland

*Limited quantities available this year. **Available by pre-order only next year. Order by November 1st for 2020 plugs.

Available in plug trays only; inquire for pricing

Aronia melanocarpa (Black Chokeberry) Non-Native

Eastern North America with white flowers and dark moist sites. Our seed source is not from North America. Provenance: EU

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling	1-0 2-0		_	6-12" 12-18"		.40 .60	-	.26 .44	• • •	34 96	.7 .8	-
			1	8-36	" 1	.80	1	.62	1.	.08	.9	0

Note: Berberis [Mahonia] often defoliate during transplanting; once new roots are established they will quickly re-foliate.

Berberis [Mahonia] aquifolium (Tall Oregon Grape, Höllyleaved Barberry)

A Northwest native shrub with shiny evergreen foliage, yellow flowers and dusty blue berries. Berries eaten by birds and mammals, nectar by pollinators, flowers attract native bees. Prefers moist to dry well-drained soil in full sun to partial shade. Tolerates salt spray in shoreline plantings. Grows to 3-7' in height, strongly rhizomatous. Provenance: 02-Puget Lowland, 03-WillametteValley,

					_ ′					• • •		
Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Seedling	1-0 2-0		_	3-6" 5-12"		.30		.17 .44		76 96	.6 .8	
			-	2-18 8-36		.70		.53		.02	8.	5
Transplant				12"+		.70		.53	-	.02	.8	

Berberis [Mahonia] nervosa (Cascade Oregon Grape, Cascade Barberry)

Rhizomatous, evergreen shrub with yellow flowers in early spring followed by blue berries, which are eaten by birds and mammals. Grows in dry to moist welldrained soil in partial to full shade. Native from Washington to California, and northern Idaho.

Provenance: 02-Puget Lowland **Available by pre-order only. Order by August 1st for 2020 plugs.

Available in plug trays only; inquire for pricing

Berberis [Mahonia] repens (Creeping Oregon NLGrape, Creeping Barberry)

Evergreen groundcover for sun or part shade, yellow flowers early spring followed by blue berries eaten by birds and wildlife; 12-18" tall. Flowers attract native bees. Native from the Pacific states to the Rockies.

Provenance: 15-Northern Rockies, UT

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling				1-3" 3-6"		.30 .50		.17 .35	.7	'8 0	.6. .7	
			6-12"		-	.60		.44	.9	6	.8	-

Betula occidentalis (Water Birch)

Attractive small tree or large clump-forming shrub **FACW** to 30' tall with reddish-brown bark. Found along streams and in moist forests, Alaska to California, east of the Cascades.

Provenance: 10-Columbia Plateau

FACU

UPL

FACW

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Seedling				12-18		.30	1	.17	.7	78	.6	5
			1	8-36	5" 1	.60	1	.44	.9	96	.8	0
			3	36"+		.60	1	.44	.9	6	.8	0

Betula papyrifera (Paper Birch)

Widespread across northwestern North America, this native deciduous tree grows to 100'. White peeling bark in older plants and oval to round leaves with golden fall color make this an attractive ornamental or restoration species. Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Seedling			1	12-18	g" <i>'</i>	1.30	1.	.17	.7	8	.65	5
			18-36"		j" 1	.60	1.	44	.9	6	.80	0
			36"+		-	1.60	1	44	q	6	8	Λ

Calycanthus occidentalis (Western Sweetshrub)

Attractive California native shrub 6-12' with fragrant, deep red flowers May-August. Deer resistant, grows in sun to part shade, common in riparian habitats.

Provenance: 05-Sierra Nevada

Available	J	F	М	Α	М	J	J	Α	S	0	z	D
Seedling			•	6-12" 12-18"		1.10 1.30	•	99 .17	.6	6	.5 .6	
			-	8-36		.40	-	.26	.8	4	.7	0

NL

Carya ovata (Shagbark Hickory)

Large deciduous tree native to the eastern US, growing to 90'. Shaggy bark peels off of straight trunk. Nuts are edible. Provenance: PA

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling			•	3-6" 5-12"	-	.50		.35	.9	0	.7!	5 n

Ceanothus sanguineus (Redstem Ceanothus)

NLDeciduous shrub to 9' tall, with red stems and white flowers. Difficult to grow in a container. Found on gravelly soil in southern British Columbia to California, eastward to Mon-

Provenance: 02-Puget Lowland, 09-E. Cascade Slope/Foothills

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Seedling			6	5-12"	1	.30	1	.17	.7	'8	.6	5
			1	12-18	3" 1	.40	1	.26	.8	4	.7	0
Transplants			1	2"+	1	.40	1.	.26	.8	4	.70	0

Ceanothus velutinus (Mountain Balm, Snowbrush NL Ceanothus)

This aromatic shrub, native to western North America, grows to 3-12' depending on conditions. An attractive, evergreen ornamental with fragrant white flowers. Prefers sunny or partially shaded conditions, drought tolerant. Nitrogen-fixing capabilities allow the species to thrive in nutrient-poor soils. Difficult to grow in a container. Important host plant and nectar source for butterflies.

Provenance:	02-	Puge	et Lo	wla	nd

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Seedling	1	-0	6	-12"	1	.30	1	.17	.7	8	.6	5
			12-18"		" 1	.40	1.	.26	8.	34	.7	0
	2	2-0	18-36"		5" 1	.50	1.	.35	.9	0	.7	5

UNIT PRICE 100+ 500+ 1000+ SIZE 50

UPL

GRADE

pink blosson deer resista southern On	nt; a	ttra	cts b	outte	erflie	es. E	aste		,		01	
Available J F M A M J J A S O												D

Pea family, multi-stemmed deciduous tree with

Cercis canadensis (Eastern Redbud)

Seedling	6-12" 12-18"		

Celtis occidentalis (Common Hackberry)

Deciduous tree from 60-100'. Native from Utah eastward. Tolerant of alkaline soils, heat and drought.



1	riovenance.	V V I											
	Available	7	F	М	Α	М	J	J	Α	S	0	Z	D
	Seedling			6	-12"	1.	10	.9	9	.6	6	.5!	5
				1	2-18'	' 1.	.20	1.	.08	.7	2	.60	0

Cercocarpus ledifolius (Curl-Leaf Mountain NL Mahogany)

Shrub or small tree to 30' with time. Evergreen foliage accents white bark; drought-deciduous in extreme conditions. Most widely distributed Mountain Mahogany, native to inland northwest, south to California, Arizona, and Baja California. Provenance: UT

Α	vailable	J	F	М	Α	М	J	J	Α	S	0	Ν	D
See	edling			6	5-12"	1	.30	1.	17	.7	8	.6	5

Cercocarpus montanus v. montanus NL(Alderleaf Mountain Mahogany)

Shrub or small tree, growing 8-20', native to interior western states to edge of plains states. Attractive semi-evergreen leaves, does well in cold, dry sites. Provenance: CO

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling			6	-12"	1	.30	1.	.17	.7	8	.65	5

Clematis ligusticifolia (Western White Clematis)

Climbing vine native east of the Cascades and throughout the western United States with small white flowers and puffy white seed heads. Used for erosion control in intermittent stream areas of the arid west as it tolerates moisture as well as drought. Provenance: 10-Columbia Plateau

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling			6)"+	1	.20	1.	.08	.7	2	.60)

Cornus alternifolia (Alternateleaf dogwood)

Eastern US native large shrub to 25 feet tall common in forest understories. Also known as Pagoda dogwood for its horizontal branching and flat-topped crown. White flowers in mid-may and fruit eaten by birds, fall foliage is maroonish. Provenance: LA

Available	J	F	М	Α	М	J	J	Α	S	0	Z	О
Seedling				5-12" 2-18'		.40 50	1.	26 35	.8 9	34 0	.7	0

Cornus mas (Cornelian Cherry Dogwood)

Used as a specimen shrub, hedge or trained into a small tree this Eurasian native is prized for its ornamental qualities. Clusters of yellow flowers bloom before leaves emerge. Fruits are edible, though can be sour.

i iovendice.												
Available	J	F	М	Α	М	J	J	Α	S	0	Z	D

In production, inquire about availability



Rich going to great heights after the always elusive Salix scouleriana (Scouler's willow)

UNIT PRICE SIZE 50 500+ 1000+

Cornus stolonifera [sericea] (Redtwig Dogwood, Red Osier Dogwood)

FACW Thicket-forming native shrub with dark red stems, white flower clusters, white berries. Great wildlife and erosion-control plant. Grows to 10-14' tall, often used as an ornamental. Native across most of North America. Our Puget Lowland strain is disease resistant here. Provenance: 02-Puget Lowland, 03-Willamette Valley, 09-E. Cascade Slope/Foothills

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling				12-18		1.10	•	99	.6	6	.5	_
			1	8-36	" 1	.20	1.	.08	.7	'3	.6	0
			3	36"+	1	.20	1.	.08	.7	73	.6	0

Corylus cornuta v. californica (Beaked Hazelnut)

FACU Small tree or multistem shrub to 25' tall in sun or shade. Excellent wildlife plant; nuts are food for birds and squirrels. Coppices quickly after disturbance. Native from British Columbia south through the coastal states to California. Provenance: 02-Puget Lowland, 09-E. Cascade Slope/Foothills 77-North Cascades

111113, 77-1901	ui C	asca	iues									
Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Seedling			6	5-12"	3	.00	2	.70	1.	.80	1.	50
			1	2-18	" 3	.00	2	.70	1.8	80	1.	50
			1	18-36	5" 3	.00	2	.70	1.	.80	1.	50
Transplant			•	12-18	3"	.00	2	.70	1.	80	1.	50
			1	18"+	3	.00	2	.70	1.	80	1.	50

Crataegus douglasii (Douglas Hawthorn, Black Hawthorn)

Shrubby tree to 30' tall with large thorns, white flowers in early spring, and black fruit. Excellent wildlife plant; flowers attract butterflies and fruit attracts birds. Commonly found along streams throughout most of northern North America.

Provenance: 02-Puget Lowland, 03-Willamette Valley, 05-Sierra Nevada , 09-E. Cascade Slope/Foothills 10-Columbia Plateau

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling			•	5-12"		20		08	.7	_	.60	
			-	2-18' 8-36		.30 .40		.17 .26	.7 .8	•	.6! .7	
Transplants			1	2+	1	.40	1.	.26	.8	4	.70)

Dasiphora fruticosa (Shrubby Cinquefoil)

Small shrub to 3-4', with yellow flowers, drought tolerant. Ours is seed grown native, not a cultivar. Native from the western states and across the northern tier of the continent.

Provenance:	77-	Nort	h Ca	ascad	des							
Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Transplant			1	12"+	1.	.50	1.	.35	.9	0	.7!	5

Elaeagnus communtata (Silverberry)

Rhizomatous deciduous shrub to 5-10' tall with silvery foliage and fragrant flowers. Native to the Rocky Mountain region from the Yukon to Utah. Nitrogen-fixing and drought tolerant, this shrub is often used in reclamation sites or hedgerows and windbreaks where a shorter stature is desirable. Provenance: ND

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D	
Seedling		6	5-12"	1.	.20	1.	.08	.7	'2	.6	0		
	1	2-18	" 1.	40	1.	26	.8	4	.7	0			

Frangula [Rhamnus] purshiana (Cascara Buck-

Small tree with glossy green deciduous leaves, reaching 40'. Excellent ornamental potential. Prefers moist soils in full sun to partial shade. Birds like the black fruit, and beavers rarely bother this tree in stream bank plantings. Grows from British Columbia south to California, east through Idaho and Montana.

Provenance:	02-1	Puge	t Lo	wla	nd, ()3-W	illar	nett	e Va	lley		
Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling		08 17	.7 .7	8	.60 .6	-						
Transplant			-	8-36 2"+		.60 .60		44 .44	.9 .9	-	.80 .80	

Fraxinus latifolia (Oregon Ash)

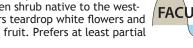
Northwest native deciduous tree to 60'. A true wetland tree with bright green, pinnately compound leaves. Wildlife enjoy seeds. British Columbia south through California, primarily west of Cascade Range. Provenance: 02-Puget Lowland, 03-Willamette Valley

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling	1	-0	6	5-12"	1	.20	1	.08	.7	2	.6	0
	2	-0	1	2-18	" 1	.40	1	.26	.8	4	.7	0
			1	8-36	" 1	.50	1	.35	.9	90	.7	5
			3	6"+	1	.50	1	.35	.9	0	.7	5
Transplant			1	8-36	" 1	.60	1	.44	.9	6	.8	0

Gaultheria shallon (Salal)

GRADE

Broad-leaved evergreen shrub native to the western coast states. Bears teardrop white flowers and edible, blueberry-like fruit. Prefers at least partial shade, grows to 4'.



UNIT PRICE

100+ 500+ 1000+

Provenance: 02-Puget Lowland

*Limited quantities available this year.

**Available by pre-order only next year. Order by January 1st for 2020 plugs.

Available in plug trays only; inquire for pricing

Hamamelis virginiana (American Witchhazel)

Fall-blooming, deciduous shrub or small tree, Grows to 15' with equal spread. Prefers moist soils. Native to eastern North America. Often used as rootstock.



i iovenance.												
Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling			6	-12"	1	.60	1.	44	.9	6	.8	0

Holodiscus discolor (Ocean Spray)

Deciduous shrub to 8-15', with creamy white flowers in long clusters, orange fall color. Provides nectar for pollinators, larval food for many butterfly species, and seeds for birds. One of our most beneficial native shrubs for landscape use. Prefers partial shade to full sun and well-drained soil. Tolerates salt spray in shoreline plantings. Native from British Columbia south to California and Arizona, east to Montana.

Provenance: 02-Puget Lowland, 03-Willamette Valley, 09-ECascadeSlope/Foothills

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Seedling	1	1-0	6-12"			.40		.26			.7	0
			12-18"		" 1	.50	1	.35	.9	90	.7	5
	7)-O	1	8-36	" 1	60	1	44	Ç	16	80)

Lonicera hispidula (Pink Honeysuckle)

West Coast native trailing, deciduous vine with FACU pink flowers and red fruits. Grows to 6', sun to shade, drought tolerant. Hummingbirds like the flowers, other birds the red berries. Can climb, or use as groundcover.

Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Seedling			6	5"+	1	.40	1	.26	.8	4	.7	0

Lonicera involucrata (Black Twinberry, Twinberry Honeysuckle)

Deciduous shrub 6-14' in height. Yellow flowers and purplish-black fruit are great for wildlife. This shrub is fast growing and provides excellent erosion control. Prefers moist, open to partially shaded sites. Tolerates salt spray in shoreline plantings. Grows throughout the western states and across Canada. Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Seedling			6	5-12"	1	.20	1	.08	.7	2	.6	0
			1	2-18	" 1	.30	1.	.17	.7	8	.6	5
			1	8-36	5" 1	.40	1.	.26	.8	4	.7	0
Transplant			1	8"+	1	.50	1.	.35	.9	0	.7	5

Mahonia aquifolium (Tall Oregon Grape) please see Berberis aquifolium

Mahonia nervosa (Cascade Oregon Grape) please see Berberis nervosa

Mahonia repens (Creeping Oregon Grape) please see Berberis repens

Malus fusca (Pacific Crabapple)

Shrubby tree to 35' tall. Flowers and fruits are at-**FACW** tractive and beneficial for many kinds of wildlife. Prefers moist to wet habitats, including near salt from Alaska and British Columbia south to northwestern

Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Seedling			6	5-12"	1.	.20	1.	.08	.7	7 2	.6	0
				2-18		30		17	• • •	78	.6	
			1	8-36	" 1	.60	- 1.	.44	.9	6	.8	0
Transplant			1	2"+	1	.60	1.	.44	.9	6	.8	0

Morella californica (Pacific Wax Myrtle, Pacific Bayberry)

Evergreen shrub or small tree, 6-20' tall, with aromatic leaves, inconspicuous flowers, and bumpy, purplish-black fruit in fall. Grows in full sun to shade; drought tolerant when established. Plants tolerates salt spray, roots fix nitrogen. Grows along the Pacific coast from central Washington to southern California. Provenance: 01-Coast Range

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
In production, inquire for qualifability												

In production; inquire for availability

UNIT PRICE UNIT PRICE UNIT PRICE SIZE 50 500+ 1000+ **GRADE** GRADE 100+ 50 100+ 500+ 1000+ SIZE 100+ 500+ 1000+

Morella pensylvanica (Northern Barberry)

Attractive evergreen shrub to 10-30' tall, with glossy aromatic leaves. Prefers sunny, medium to dry conditions. Tolerates salt spray in shoreline plantings. Wax used in making candles.

Provenance: OH

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D

In production; inquire for availability

Myrica gale (Sweet Gale)

Deciduous shrub 3-4' tall. Found along margins of OBL bogs, estuaries, and lakes across northern North America; leaves emit sweet scent when rubbed. Coppices quickly after disturbance, waxy fruits eaten by birds in winter. Tolerates salt spray in shoreline plantings. Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Seedling			6	-12"	1	.60	1	.44	.9	6	.8	80
			1	2-18	" 1	.70	1	.53	1.	02	.8	5
Transplants			1	2"+	1	.80	1	.62	1.	26	.9	0

Oemleria cerasiformis (Indian Plum, Osoberry)

Our earliest native spring bloomer, reaching 12-18' with white flowers and purple fruit. Male and female flowers on separate plants. A bird favorite. This is one of our most attractive and beneficial native shrubs for landscape use. Coppices quickly after disturbance, best in moist rich soil, sun to partial shade. Grows west of the Cascades and Sierras, from British Columbia to California. Provenance: 02-Puget Lowland, 03-Willamette Valley

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling		1-0		6-12'	' 1	.20	1	.08	.7	72	.6	0
_				12-18"		1.30	1	.17	.7	78	.6	5
		2-0	1	12-18 18-36"		.50	1.	.35	.9	0	.7	5
				36"+	1	.50	1	.35	.9	90	.7	′5
Transplant			•	18-36	b" 1	1.60	1	.44	.9	96	.8	0

Philadelphus lewisii (Mock Orange)

An attractive, hardy native with fragrant, white flowers; attracts butterflies. Prefers a sunny well-drained site. Grows to 8-12' tall from British Columbia and Alberta south to California, Idaho, and Montana.

Provenance: 02-Puget Lowland, 03-Willamette Valley, 10-Columbia Plateau, 15-Northern Rockies

Available	J	F	Λ	Α	М	J	J	Α	S	0	Z	D
Seedling			6	5-12"	1	.20	1.	.08	.7	2	.6	0
			1	2-18	" 1	.30	1	.17	.7	8	.6	5
			1	8-36	" 1	.40	1	.26	8.	34	.7	0

Physocarpus capitatus (Pacific Ninebark)

Tall shrub with attractive leaves and beautiful creamy-white pom-pom flower clusters in spring. Benefits wildlife with cover, nesting sites, and food. Fibrous roots have excellent soil binding qualities. Prefers moist ground in sun to partial shade; 15-18'. Grows from Alaska south to California, and in Idaho. Provenance: 02-Puget Lowland, 03-Willamette Valley

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling		1-0		6-12'	' 1	.20	1	.08	.7	7 2	.6	0
				12-18	3" 1	.30	1	.17		78	.6	5
		2-0	1	18-36	5" 1	.40	1	.26	3.	34	.7	0
Transplants			1	18-36	5" 1	.40	1.	.26	8.	34	.70	0

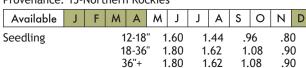
Populus balsamifera ssp. trichocarpa (Black Cottonwood)

Western North American deciduous tree. Fast growing to 120'. Likes deep moist soils and full sun. Provenance: 03-Willamette Valley, POTR2-PugetSound, POTR7-Yakima

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Seedling	Seedling					.00	• •	90	.6	0	.5	-
			1	8-36	" 1	.10	.9	99	.6	6	.5	5
			2	6"±	1	10	C	00	6	6	5	5

Populus tremuloides (Quaking Aspen)

North American native tree to 90'. White bark and heart-shaped "quaking" leaves make it nice as a small grove. Spreads by rhizomes. Provenance: 15-Northern Rockies



Prunus pumila v. besseyi (Western Sandcherry)

Deciduous, suckering shrub 4-6' tall and wide. White flowers in spring, cherry-like, edible dark purple fruit in summer. Leathery grey-green leaves turn red and purple in autumn. Native to Oregon, Utah, and the Rockies east through the

Provenance: NE

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling			6	5-12"	1	.30	1	.17	.7	' 8	.6	5
			1	12-18	" 1	.50	1	.35		90	.7	5
			1	18-36	5" 1	.80	1	.62	1	.08	.9	0

Prunus emarginata (Bitter Cherry)

NL

Western North American shrub or small tree, **FACU** reaching 45' in height. Common in moist forests, along streams, and in open areas. Bright red fruit is wildlife food.

Provenance: 02-Puget Lowland, 09-E.Cascade Slope/Foothills

Available	٦	F	М	Α	Μ	J	J	Α	S	0	Z	D
Seedling			1	5-12" 12-18 8-36	5" 1 5" 1	.30 .50 .80	1	.17 .35 .62	1.	78 90 .08		5
				36"+	1	.80	1	.62	1.	.08	.9	0

Prunus virginiana v. melanocarpa (Black Chokecherry)

Shrub or small tree to 20', native to western North America. Black fruits are favored by birds. Commonly found in moist sites east of the Cascades. Provenance: 03-Willamette Valley, 15-Northern Rockies

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling			•	5-12"		.10	•	99	.6	6	.5	
			1	2-18'	' 1	.20	1	.08	.7	'2	.6	0
Transplants			1	2"+	1	.20	1.	.08	.7	72	.6	0

Purshia tridentata (Antelope Bitterbrush)

Semi-evergreen shrub with gray leaves that grows 4-5' tall and has cream colored flowers. Grows in the desert in eastern Washington and from British Columbia to California, east to Montana, Colorado, and New Mexico. Provenance: CA

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
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In production; inquire for availability

Quercus garryana (Garry Oak, Oregon White Oak)

Our coastal oak, native from British Columbia to California, A broad, gnarled deciduous tree to 80' tall. Acorns are wildlife food. Prefers good drainage. Provenance: 02-Puget Lowland, 03-Willamette Valley

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling		2-0		6-12' 12-18 18-3 <i>6</i>	3" -	1.60	1	.35 .44 .62	.9	0 6 08		75 80 90

Rhamnus purshiana (Cascara Buckthorn) please see Frangula purshiana

Rhododendron macrophyllum (Pacific Rhododendron)

This broad-leaved evergreen shrub, with large clusters of showy pink flowers, is the state flower of Washington. Inhabits dry, open forests and edges. Prefers some shade, grows to 24'.

Provenance: 02-Puget Lowland

*Limited quantities available this year.

**Available by pre-order only next year. Order by January 1st for 2020 plugs.

Available in plug trays only; inquire for pricing

Rhus glabra (Smooth Sumac)

NL North American native rhizomatous shrub to 15' tall, prefers sun and well-drained soil. Bright orange-red fall color, red berries are good wildlife food. Will spread to form a thicket, control erosion.

Provenance: 10-Columbia Plateau

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling			1	5-12" 2-18 8-36	" 1	.00 .10 .20	.9	00 99 .08	.6 .6 .7	-	.5 .5! .6!	5

Rhus trilobata (Skunkbrush Sumac) NL

Western native drought tolerant shrub to 6' tall. Small flower clusters lead to fuzzy orange fruits. Provenance: CO, UT

	/											
Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling			6	5-12"	1	.40	1.	.26	3.	34	.7	0
		•	12-18	" 1	.60	1	.44		96	.8	0	



Rich seeding plants in our field

NL

Ribes aureum (Golden Currant)

Attractive deciduous shrub to 9' tall, with fragrant yellow flowers and fruit that attracts birds. Found east of the Cascades in moist to dry sites, and across much of the United States.

Provenance: 10-Columbia Plateau, 13-Central Basin & Range

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling			6	5-12"	1	.30	1.	17	.7	8	.6!	5
_			1	2-18	" 1	.50	1.	.35	.9	0	.7!	5
			1	8-36	" 1	.70	1.	53	1.	.02	.8	5
Transplant			1	2"+	1	.70	1	.53	1.	.02	.8	5

Ribes bracteosum (Stink Currant)

Sun or shade loving shrub, 4-8', of stream banks and wet places. Broad maple-like leaves with pungent but not unpleasant odor. Long clusters of white and greenish-yellow flowers in May and June followed by dusty blue-black berries, which are eaten by birds and small mammals. Native from coastal southeast Alaska southward to the northwest coast of California. Grows on both sides of the Cascades in Washington. Provenance: 77-North Cascades

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Seedling		2-0	6	ó-12"	•	1.50	1	.35	.9	0	.7	5
			1	2-18	' 1	.70	1	.53	1.	.02	.8!	5
Transplant			1	12"+	1	80	1.	62	1.0	80	.90)

NL

Ribes cereum (Wax Currant)

NL

FACU

Native deciduous shrub to 6' tall, with white to light pink flowers and red fruit. Found east of the Cascades in dry sunny locations. Also grows across much of the western United States and into British Columbia Provenance: 09-E. Cascade Slope/Foothills

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Seedling			•	5-12"		1.30		.17	.7	78	.6	
			•	12-18	3" 1	1.50	1.	.35	.9	0	.7	5
				18-36	5" 1	.70	1.	.53	1.	.02	.8!	5

Ribes divaricatum (Black Gooseberry, Spreading Gooseberry)

Heavily thorned small shrub from moist to wet habitats west of the mountains, Washington to California. Black fruit is wildlife food. Good for hedgerow, wildlife, and barrier plantings. Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling			•	5-12"		.30		.17	.7	78	.6	
			1	12-18"		.50	1.	.35	.9	90	.7	5
			1	8-36	" 1	.70	1.	53	1.	02	.8	5

Ribes lacustre (Swamp Gooseberry, Prickly Currant)

North American prickly shrub 2-4' tall, with pale red flowers and black fruit. Prefers moist to wet

sites in partial shade. Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Seedling				8-6"	-	.30		17	.7	_	.6	
			6	5-12"	1	.50	1.	.35	.9	0	.7	5
			1	2-18	" 1	.70	1.	53	1.	02	.8	5

Ribes sanguineum (Red Flowering Currant) Shrub with showy pink-red flowers in the spring that attract hummingbirds, and dark blue berries. Prefers well-drained conditions in sun or partial shade. Grows 6-12'. Native west of the Cascades

and Sierras from southern British Columbia to California. This species may be difficult to grow in containers. Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling			6	5-12"	1	.40	1.	26	3.	34	.7	0
_			1	12-18	" 1	.60	1.	44	.9	6	.8	0
			1	18-36	5" 1	.70	1.	53	1.	02	.8	5

Rosa gymnocarpa (Bald Hip Rose, Dwarf Rose)

Woodland rose with masses of pink flowers in May and June, small red hips, nice in dry shade plantings. Grows to 5', prefers partial shade. Native throughout the Pacific Northwest, from British Columbia to northern California, and across northern Idaho to western Montana.

Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling				5-12"	-			08	.7	2	.6	-
			1	2-18	1	.40	1.	26	.8	4	.7	U
			1	8-36	5" 1	.50	1.	35	.9	0	.7	5

Rosa nutkana (Nootka Rose)

Western native rose with showy pink flowers, and large, solitary hips. Strongly rhizomatous, will form thickets 6-8' tall in dryish to moist habitats. Good for erosion control, wildlife, and barrier plantings. Tolerates salt spray in shoreline plantings. Provenance: 02-Puget Lowland, 03-Willamette Vallev

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Seedling		1-0	6	-12"	1.	.20	1.	.08	.7	2	.6	0
		2-0	• • • • • • • • • • • • • • • • • • • •	2-18' 8-36'		.30		.17 26	.7 .8	_	.65 .70	-
Transplant	•	20	18-36" 18-36"		-	.40		26		4	.70	

50

UNIT PRICE

500+ 1000+

FACW

FACW

FACW

100+

<u>UNIT PRICE</u>

GRADE SIZE 50 100+ 500+ 1000+

Rosa pisocarpa (Peafruit Rose, Cluster Rose)

Western rose native from British Columbia to northern California with clusters of pink flowers and small, pear-shaped red hips. Rhizomatous, grows 6-8', likes moist habitats, full sun to part shade.

grows 6-8', likes moist habitats, full sun to part shade. Good for erosion control, wildlife, and barrier plantings. Can handle some drought.

Provenance: 02-Puget Lowland, 03-Willamette Valley

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Seedling		1-0 2-0	1	-12" 2-18' 8-36	' 1	.10 .20 .30	1	99 .08 .17		6 '2 8	.5. .6.	0

Rosa rugosa (Rugosa Rose) Non-native

Introduced shrubby rose with pink or white fragrant flowers and large red hips. Good for urban plantings. Full sun to light shade.

Provenance: EU

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling		1-0	6	5-12"	1	.20	1.	.08	.7	2	.6	0
_		2-0	1	2-18	" 1	.30	1.	.17	.7	8	.6	5
			1	8-36	" 1	.50	1.	.35	.9	0	.7	5
			3	16"±	1	50	1	25	Q	Λ	7	5

Rosa woodsii (Woods' Rose)

Rhizomatous, thicket-forming rose with fragrant pink flowers, June-August, and clusters of red hips. Native across Canada, and east of the Cascades south through the Sierras in California, and eastward to the Dakotas, Nebraska, and Minnesota. Grows in wide variety of habitats, as a pioneer plant on disturbed sites, to open bluffs and meadows, and even as understory in open forests. Provenance: 10-Columbia Plateau

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Seedling		1-0	6	5-12"	1	.20	1	.08	.7	7 2	.60	0
			1	2-18	" ′	1.30	1	.17	.7	8	.6	5
		2-0	18-36"		," ′	1.40	1.	.26	3.	34	.7	0
			3	36"+		1.40	1	.26	3.	34	.7	0

Rubus leucodermis (Blackcap Raspberry, Whitebark Raspberry)

Western North American prickly shrub to 5' tall, with tasty black fruit. Not rhizomatous, but arching branches will root at the tip to form new clumps. Tolerates dry rocky soils, partial shade.

Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling			-	3-6" -12"		.20 .40	-	.08	.7	_	.60 .70	-
			1	2"+	1	.50	1.	.35	.9	0	.7	5

Rubus parviflorus (Thimbleberry)

Vigorous shrub to 5-8', rhizomatous, with good soil binding properties. A common plant with showy white flowers and edible red fruit, beneficial for wildlife. Tolerates salt spray in shoreline plantings. Prefers moist to dry soil in sun or partial shade. Native across western North America, and from the Great Lakes to Hudson Bay. Provenance: 02-Puget Lowland, 03-Willamette Valley

Available	J	F	Μ	Α	М	J	J	Α	S	0	Ν	D
Seedling			6	-12"	1	.30	1.	.17	.7	8	.65	5
J			1	2-18'	' 1	.40	1.	26	.8	4	.70)
			1	8-36	" 1	.50	1.	35	.9	0	.75	5

Rubus spectabilis (Salmonberry)

Native to the west coast of North America, this shrub grows 6-10', with reddish-purple flowers and edible fruit. Flowers are an important early nectar source. Rhizomatous and thicket-forming in moist to wet conditions.

Provenance: 02-Puget Lowland, 03-Willamette Valley

										,		
Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling		1-0	6	-12"	1	.10	.9	99	.6	6	.5	5
		2-0	1	2-18	" 1	.20	1.	.08	.7	2	.6	0
			1	8-36	" 1	1.30	1.	.17	.7	8	.6	5
			3	36"+	1	.30	1.	17	.7	8	.6	5
Transplant			1	2"+	1	.30	1.	.17	.7	8	.65	5

Rubus ursinus (Pacific Blackberry)

Our only native blackberry—a prickly vine, with long trailing stems rooting at the tip, white flowers, and tasty black berries. Common along the coast and in lowland clearings, from British Columbia to California, Idaho and Montana. Tolerates salt spray in shoreline and bluff plantings. Good for erosion control. Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Seedling			3	3-12" 12"+		.30 .40		.17 .26	.7 .8	8 4	.6 .7	_

Salix amygdaloides (Peachleaf Willow)

In production, inquire about availability

GRADE

A medium sized multi-trunked tree reaching 50'.
Native from the east slope Cascades across the northern plains to New York. Important for controlling erosion along streambanks.
Provenance: 09-E. Cascade Slope/Foothills

Available J F M A M J J A S O N D

Salix bebbiana (Bebb Willow)

Common willow in wet to dry sites. Shrubby, to 12' tall. Native from the Cascades to the Rockies, and across the northern states to New England.

Provenance: 10-Columbia Plateau

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling			-	2-18 8-36	-		• •	00 .08	.6 7	0	.5 .6	-
			-	6"+	-	.20	-	.08	.7	2	.6	

Salix exigua (Narrowleaf Willow, Sandbar Willow)

Western North American native willow commonly found on sandy steambanks and lakeshores. In Washington, only present east of the Cascades. Quick to form thickets and stabilize steambanks, can be aggressive under some conditions. Grows to 20'.

Provenance: 10-Columbia Plateau

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Seedling			1	2-18' 8-36 6"+	" 1	.00 .20 .20	1.	00 .08 .08	.6 .7	50 '2 '2	.5 .6 .6	0

Salix geyeriana (Geyer Willow)

Western North American native willow to 15' tall for wet habitats. Provides food for small birds and mammals, which eat buds, shoots, leaves, and catkins.

Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling			-	2-18	-			0	.6	0	.5	0
			-	8-36 6"+		.20 .20		.08 .80		_	.6 .6	_

Salix hookeriana (Hooker Willow, Dune Willow)

A coastal wet habitat willow with cottony leaves and stems. Has a shrubby growth form reaching 20' tall, and produces a good spring bloom. Provenance: 02-Puget Lowland, 03-Willamette Valley

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Seedling			1	2-18	3" 1	.00	.9	0	.6	0	.5	0
			1	8-36	5" 1	.10	.9	19	.6	6	.5	5
			3	36"+	1	.10	.9	19	.6	6	.5	5
Transplants			1	8-36	" 1	.10	.9	9	.6	6	.5	5

Salix lucida ssp. lasiandra (Pacific Willow)

Shrubby tree to 40-60' tall with elongated leaves, and yellow-green bark. Excellent soil binding and wildlife enhancing properties. Likes wet habitats. Grows across North America.

Provenance: 02-Puget Lowland, 03-Willamette Valley

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling			1	2-18'	" 1	.00	.9	90	.6	0	.50	0
			1	8-36	" 1	.10	.9	9	.6	6	.5	5
			3	6"+	1	.10	.9	9	.6	6	.5	5
Transplants			1	8-36	" 1	.10	.9	9	.6	6	.5	5

Salix piperi (Hooker Willow, Dune Willow) please see Salix hookeriana



Learning the Haard-way: collecting pounds of fireweed seed is not an easy job

Salix prolixa (MacKenzie's Willow)

GRADE

Shrubby willow to 25'; common along rivers and creeks in western North America from the low-lands up into the mountains. Blooms early spring, food source for early pollinators, roots help prevent erosion. Provenance: 02-Puget Lowland, 10-Columbia Plateau

SIZE

UNIT PRICE

100+

500+ 1000+

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling				12-18 8-36		.00	•	90 .08	.6	0	.5	-
			3	0-30 86"+		.20	-	.08	.7	2	.60	0

Salix rigida (MacKenzie's Willow) please see Salix prolixa

Salix scouleriana (Scouler's Willow)

Fast-growing, multi-stemmed tree common on the coast and inland in moist to dry conditions in gravelly soils, full sun to partial shade. Drought and salt spray tolerant. Grows 30-50' tall. Has excellent soil binding, erosion control capabilities. Rapidly colonizes burned areas. Early spring bloom feeds pollinators.

Provenance: 02-Puget Lowland, 03-Willamette Valley

	Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
	Seedling			1	2-18'	' 1	.00	.9	0	.6	0	.5	0
				1	8-36	" 1	.20	1	.08	.7	2	.60	0
				3	6"+	1	.20	1	.08	.7	72	.6	0
•	Transplant			1	8"-36	5" 1	.20	1	.08	.7	2	.6	0

Salix sessilifolia (Northwest Sandbar Willow)

Native streambank willow with strong running roots. Excellent erosion control qualities. Grows to about 25' tall.

Provenance: 03-Willamette Valley

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Seedling				2-18			•	90	.6	50	.5	-
			1	8-36)¨ 1	.20	1.	.08	./	2	.6	0
			7	36"+	1	.20	1.	.08	.7	72	.6	0

Salix sitchensis (Sitka Willow)

Our most common shrubby willow, coast to mountains. Tolerates wide range of soil and moisture conditions in full sun to partial shade. Excellent erosion control qualities. Grows 3-24'.

Provenance: 02-Puget Lowland, 03-WillametteValley

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Seedling			1	12-18	" 1	.00		90	.6	0	.5	0
			1	18-36	5" 1	.10		99	.6	6	.5	5
			3	36"+	1	.10		9	.6	6	.5	5
Transplants			1	8-36	" 1	.10	.9	19	.6	6	.5	5

Willows for Restoration

All of our bare root willows are propagated directly from seed collected yearly from wild populations. The ecological advantages of this approach (vs. stock derived purely from hardwood cuttings) are: 1) enhanced genetic variability bestowed by sexual recombination, and 2) automatic inclusion of both males and females—ensuring that the new planting will be self-sustaining.

Willows can be variable in their morphology. We identify our stock carefully, but our Salix lucida ssp. lasiandra, for example, may look somewhat different than the plants in your area due to natural variation within the species.

Sambucus caerulea (Blue Elderberry) please see Sambucus nigra ssp. cerulea

Sambucus nigra ssp. cerulea (Blue Elderberry)

Northwest native shrub 15-20' tall, with showy white flower clusters that attract butterflies and hummingbirds. Blue fruit is wildlife food and can be made into jellies and wines. Prefers moist to dry soils in sun to partial shade. Fast-growing once established, provides some erosion control.

Provenance: 02-Puget Lowland, 03-Willamette Valley, 09-E. Cascade Slope/Foothills, 10-Columbia Plateau

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Seedling				row			•	99		6	.5	
			S	mall	. 1	.20	1	.08	.7	2	.60	J
			li	arge	1	.70	1.	.53	1.	02	.8	5

Sambucus racemosa (Red Elderberry)

One of the best shrubs for wildlife. A dense, pyramidal shrub with clusters of creamy-white flowers that attract butterflies and hummingbirds. Red fruit is loved by many bird species. Vigorous, to 20'. Tolerates salt spray in shoreline plantings, provides some erosion control. Native across most of North America. Provenance: 02-Puget Lowland, 03-Willamette Valley

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Seedling			S	rowr mall arge	. 1	.20	1	99 .08 .53	.6 .7 1.	6 2 02	.5! .60 .8!)

UNIT PRICE 500+ 1000+ SIZE 50

Shepherdia argentea (Silver Buffaloberry)

Deciduous shrub with both silvery-gray bark and foliage growing to 20'. Native from the intermountain west to the western plains states. Dioicous (separate males and females), with thorns. Tolerates poor, alkaline soils and very hardy. Provenance: 15-Northern Rockies

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling			6	-12"	1	.70	1.	.53	1.	02	.85	5

Shepherdia canadensis (Russett Buffaloberry, Soapberry)

Nitrogen-fixing deciduous shrub to 15' tall with russet leaves and stems, tiny yellow flowers and red berries eaten by birds. Male and female flowers on separate plants. Prefers well-drained sites in sun or partial shade. Coastal strain is relatively fast-growing, tolerates salt spray. Interior strain is very slow-growing. Provenance: 15-Northern Rockies

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
-----------	---	---	---	---	---	---	---	---	---	---	---	---

In production inquire about availability

Sorbus scopulina (Greene's Mountain Ash)

Western North American shrub to 12' tall, with FACW white flower clusters May-July, and orange-red fruit in September. The fruit persists through the winter, and is an important food source for birds. Prefers sun and medium-moist conditions. Grows from the foothills to the subalpine. Lovely in bloom, and spectacular in autumn with foliage in shades of orange to maroon, and colorful fruit. Provenance: 04-Cascades

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Transplant			6	-12"	1	.70	1.	.53	1.	02	.85	5

Sorbus sitchensis (Sitka Mountain Ash)

Small shrub 3-12', with leaves divided into 7-11 leaflets. Grows from mid elevations to subalpine in the mountains of the Pacific Northwest. White flowers in late spring, berry clusters ripen to red, hang on after the leaves have fallen in autumn. Autumn leaf color vibrant orange to red. Berries are an important food source for migrating birds.

Provenance: 77-North Cascades

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Seedling			3	-6"	1.	.40	1.	.26	.8	4	.70)
			6	-12"	1	.60	1	.44	.9	6	.80)

Spiraea densiflora var. splendens (Subalpine Spirea) NL

Low shrub to 3' tall with pink flowers. Likes moist conditions in sun or partial shade. Native to the mountains in western North America.

Provenance: 04-Cascades, 77-North Cascades

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling			6	-12"	1	.20	1	.08	.7	2	.6	0
			1	2-18	" 1	.30	1	.17	.7	8	.65	5
Transplant			1	2"+	1.	20	1.	.17	.7	8	.65	5

Spiraea douglasii (Hardhack Spirea)

Deciduous shrub native to western North America, FACW grows 6-12' tall with showy pink flowers. Prefers wet habitats, sea level to subalpine, spreading vigorously by rhizomes. Competes favorably with reed canary grass. Tolerates salt spray in shoreline plantings. Provenance: 02-Puget Lowland, 03-Willamette Valley

Available	J	F	M	Α	Μ	J	J	Α	S	0	N	D
Seedling			6	-12"	.9	0		31	.5	4	.4	5
			1	2-18	" 1	.10		99	.6	6	.5	5
			1	8-36	" 1	.20	1	.08	.7	72	.6	0
			3	6"+	1	.20	1	.08	.7	2	.60	0
Transplant			1	8-36	" 1	.20	1	.08	.7	2	.6	0

UNIT PRICE 50

Spiraea lucida [betulifolia] (Shinyleaf Spirea) Low native shrub 2-3' with beautiful ornamental qualities, soft green foliage and white flower clusters in early summer. Dry, sunny to partially shaded conditions. Drought tolerant.

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling			•	5-12"		.20	-	.08	.7	2	.60	-
Transplants			1	2-18 2"+		.30 .30		.17 .17	./ .7	'8 '8	.6 .6	

Symphoricarpos albus (Common Snowberry)

Provenance: 77-North Cascades

Common deciduous shrub to 4-7' tall with persis-**FACU** tent white fruit, which is an important winter food source for birds. Spreading by rhizomes, this shrub provides excellent erosion control and is tolerant of a wide range of conditions from wet to dry, full sun to mostly shady. Tolerates salt spray in shoreline plantings. Native across most

Provenance: 02-Puget Lowland, 03-Willamette Valley, 10-Columbia Plateau, 15-Northern Rockies

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling		1-0	6	5-12"	1	.10		90	.6	6	.5	5
		2-0	1	2-18	" 1	.20	1.	.08	.7	2	.60)
			1	8-36	" 1	.60	1	.44	.9	6	.80)
			3	6"+	1	.60	1	.44	.9	96	.80	0
Transplant			1	8-36	" 1	.60	1	.44	.9	96	.8	0

Symphoricarpos hesperius (Trailing Snowberry)

Prostrate shrub with light pink flowers and white berries. Native in Pacific coast states and Idaho woodlands. Provenance: 04-Cascades

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Transplant			6	ó"+	1	.90	1	.71	1.	14	.95	5

Symphoricarpos mollis please see Symphoricarpos hesperius

Symphoricarpos occidentalis (Western Snowberry)

Deciduous shrub found in moist places east of the Cascades. Small white berries often cling through winter to provide food for wildlife. Native east of the Cascades in Washington, southern British Columbia to Utah and east to the Atlantic coast.

Provenance: ND

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D	ı

In production, inquire about availability

Symphoricarpos orbiculatus (Coralberry)

Deciduous, dense shrub with arching stems, pink-UPL ish-white flowers June-July, and showy clusters of coral-red berries in the fall. Berries persist through winter, attracting birds. Grows 2-5' tall, full to part sun, well-drained soil, although it tolerates a wide range of soil types. Spreads by runners. Native from the Great Plains eastward to the central Atlantic coast, with scattered populations in Utah.

Provenance: PA Available J F M A M J J A S O N D

In production, inquire about availability

NL

UNIT PRICE

Symphoricarpos oreophilus v. utahensis (Utah Snowberry)

Deciduous shrub reaching 5' in height, with pink flowers June-August, and white fruits. Found in open sites generally between the Cascade and Sierra mountain ranges and the Rocky Mountains, with some spillover in eastern Montana. Grows from the foothills to high elevations, tolerates light shade, some drought.

Provenance: 10-Columbia Plateau

i i overiance.		Cota	11101	<i>a</i>	iccui	4						
Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Seedling				5-12' 2-18'		.60		.44	.9	6 08	.8	0

Vaccinium membranaceum (Black Huckleberry)

Choice berries are sought after for baking, preserving, and trailside snacking across the western United States. Fruit is shiny and black when ripe. Deciduous shrub, grows to 6'.

Provenance: 04- Cascades

*Limited quantities available this year.

**Available by pre-order only next year. Order by November 1st for 2020 plugs.

Available in plug trays only; inquire for pricing

Vaccinium ovatum (Evergreen Huckleberry)

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Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
2" pots					2	.00						

Vaccinium parvifolium (Red Huckleberry)

Deciduous huckleberry found in the shaded understory of western forests. Prefers moist soil with plenty of organic matter, fruits better with more sunshine. Cloned from selected northwestern Washington lowland plants. Available in containers only. Provenance: WA

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
2" pots					2	.00						

NL

Viburnum ellipticum (Oval Leaved Viburnum, Common Viburnum)

Northwest native deciduous shrub to 12' tall, with white flowers, black fruit, and reddish fall color. Found in dry, open woodlands in southern Washington to northern California, but can tolerate moist sites with dappled shade. Drought tolerant, good restoration plant for dry sites. Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Seedling			3	3-6"	1	.40	1	.26	3.	34	.7	0
			6	6-12"		.60	1.44		.96		.8	0
			1	2-18	" 1	.80	1	.62	1	.08	.9	0

Viburnum opulus v. americanum (American Cranberry Bush)

Native across Canada and northern tier of United States in moist to swampy habitats. Shrubby growth to 8-12' tall and wide with white lacecap flowers in late spring, drooping clusters of cranberry-like fruits in the fall. Plants attract birds and butterflies. Provenance: PA

Available J F M A M J J A S O N C	D
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Marsh moth attack. Fifty acres of bulrush died, each with a small dark hole near the stem base, showing where moth larvae had begun to hollow out the stem.

2015 so my first thought was salt. You might recall that in 2015 precipitation quantities weren't too abnormal, but the warm winter meant it mostly came as rain, not snow. Without much snowpack, flows in Puget Sound rivers began dropping below normal as early as March, and by summer were at record lows. In July, the Stillaguamish river, whose estuary hosted the dead marsh, was running at 15-20% of its long-term median. July being the heart of the tidal wetland growing season, a massive drop in freshwater input means the salty tide can push higher up the system. Indeed, we measured soil salinities that were two to three times higher than normal across the entire estuary, and plant productivity declines of 35-40% in most places (Fuller 2018). For B. maritimus there was also generally a failure to flower and set seed. Interestingly, the extreme 2015 flows were not much worse than what is projected to be common sometime around 2050 (Mauger et. al. 2015).

But that wasn't the only likely source of stress. At this site, restoration had happened three years earlier, restoring normal tidal flow to the wetland which had once been diked and farmed. We had expected, and observed, some marsh decline because part of the meadow was at a lower elevation pre-restoration than it would normally occur under natural tidal flooding. But the big 2015 die-back was a big surprise and got us thinking about stress. Several indicators suggested that soil physical and chemical conditions post-restoration may have led to unusually high levels of soil saturation that could have triggered chemical stresses like redox potential, with implications for oxygen availability, toxic hydrogen sulfide, and other biogeochemical cycles like N and Fe (Fuller 2017). Alas, we weren't monitoring the indicators that would have documented sources of stress, because stress wasn't something contemplated in our monitoring plan.

In 2017, I observed another, smaller dieback of less than 10 acres of bulrush, also caused by the hungry little moth. The river was running relatively high that spring, so salinity wasn't an issue. Indeed, the freshwater-loving cattails, particularly the nonnative narrow-leaved cattail (Typha angustifolia) had exploded in the same area and were tall and lush. So why the dead bulrush? The absence of obvious stressors pushed me to contemplate competition, and the rapidly expanding and robust non-native cattail. A quick lit search found a conveniently specific greenhouse study testing the allelopathic effects of narrow-leaved cattail on river bulrush (Jarchow and Cook 2009). When both were grown together (as seacoast and river bulrush were growing with the cattail in the dieback wetland), the cattail had a substantial allelopathic effect on bulrush, but when activated carbon was added to the soil to absorb the cattail's phenolics, the bulrush was able to curtail cattail growth by competing effectively for resources. Native cattails (T. latifolia) also produce phenolics, but different ones to which its native marsh neighbors appear to have adapted.

So, perhaps the 2017 moth-triggered bulrush dieback was facilitated by soil chemical stress induced by the very rapid expansion of the non-native and allelopathic narrow-leaved cattail. Yet another example of interesting ecological shenanigans that I wasn't prepared to monitor.

Plants are part of broad, diverse communities of organisms that include not just other plants, herbivores, and other animals, but a particularly wide spectrum of fungal and bacterial microbes. Ecology in the U.S. has a long history of examining the individual organism as an independent player, succeeding or failing based on its own aptitudes...a sort of "rugged individualist" scientific philosophy that undoubtedly stems from the same cultural and economic philosophy that came to dominate U.S. society as it pushed west across the continent. Since the 1980's, research began to really unravel the remarkably complex, and frequently microscopic interactions of ecosystems, revealing for example the importance of endophytic and epiphytic microbial communities to the health, productivity, and life of individual plants. The success of an individual seems to have a great deal to do with its biotic partnerships.

For example, Rusty Rodriguez found that our beloved native dunegrass (Leymus mollis) can grow in coastal wetlands and dunes because it hosts an endophytic fungal partner that imparts salt tolerance (Rodriguez et. al. 2008), i.e. it reduces salt stress so much that dunegrass can grow and indeed thrive where most plants succumb to stress. (As a fascinating aside, the fungal partnership is passed maternally, with the seed coat being "infected" with the appropriate fungus.) Dunegrass that grows in habitats that lack salt, don't host that particular fungal partnership.

One way in which long-lived and relatively slowevolving trees can keep up an effective chemical defense against short-lived and rapidly-evolving fungal pathogens and insect herbivores is to team up with just-as-rapidly-evolving fungal symbionts. Our native Douglas fir hosts a tiny fungi called Rhabdocline parkeri within its leaves which appears to produce a toxin in response to insect herbivory that protects the tree (Carroll 1988). Another interesting study of tropical trees found important relationships between the bacteria in the phyllosphere (the leaf realm) and individual tree fitness traits like height, diameter, growth rate, longevity, wood density, leaf mass, and leaf N and P content (Kembel et. al. 2014). Differences like that at the individual scale obviously will affect ecosystem-scale processes and services provided to humans.

Study after study have shown that the rate of growth and the health of individual organisms depends in large part on the ecological relationships that individuals form, particularly with their internal and external microbiome. One of the most well-known examples in the plant world is the importance of mycorrhizal relationships. Since our own internal and external microbiome has been shown to be so critical to our own health, it should hardly come as a surprise that the same holds true for other organisms. And yet, this is a hot bed of research and discovery right now.

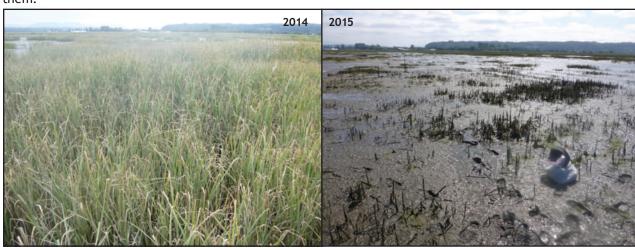
Research is also beginning to examine the question of what happens when high stress levels hit organisms and their microbiome. For example, the effect of stress on the foundational plant of Gulf Coast tidal marshes, smooth cordgrass (Spartina alternifolia), found that plants stressed by the Deepwater Horizon oil spill experienced disassociation of the leaf and root fungal endophytes that healthy plants host (Kandalepas et. al. 2015). This brings to mind the well-documented phenomenon of coral bleaching in response to heat stress. When under severe stress, some organisms seem to lose many of the key microbial partnerships that sustain and protect them.

Which brings us back to contemplating the possible effects of climate change in ecosystems. We understand the basic impacts of climate change quite well because they follow fairly simple physical and biological rules: temperature rises, and that affects local precipitation as well as ecosystem water dynamics (things like runoff and evapotranspiration). But I think the timing of impacts and the real surprises of climate change will manifest as a result of the myriad indirect impacts on biotic interactions. By tweaking the dials on temperature and water dynamics, all manner of known and unknown ecological interactions are tweaked in different and sometimes contrasting or unpredictable ways, with the potential to result in apparently rapid and substantial ecological change. We saw 50 acres of tidal marsh disappear in 2015, a year of low summer river flow and extremely high soil salinity. But it wasn't the low snowpack that killed the plants, it was a moth.

Plant species, and all organisms, operate within a dynamic but somewhat predictable matrix of stress that determines which environments will support the species. A little more of this or that stress, and the species distribution changes. Plants develop critical partnerships with other organisms that enable them to survive and thrive in their environments. And, as with humans, when plants come under significant stress, their ability to ward off disease, pathogen, and herbivore is reduced. I think the significant ecological impacts and surprises we face from climate change will often come as a result of the way climate change tweaks the dials on all the existing relationships and sources of stress in the world of a plant. Slightly increased stress pressure from multiple directions, or the addition of one new source of stress may push a plant over a survival threshold. And when that plant forms both the basic physical structure and the biological foundation for an ecosystem, such as the bulrushes of the brackish tidal middle marsh, the entire system may collapse in short order.

As practitioners, climate change and its unknown future impacts should be incorporated into how we approach our work. The first step is acknowledging that stresses on the natural resources we steward will continue to increase substantially in the future, not just from climate change, but also from other stresses related to the demands of our burgeoning population and economy. The second step is considering deeply what this means for our restoration and stewardship projects. Knowing that sources of stress will increase in the future should give us greater impetus to reduce the stresses we know about today. Sources of stress like invasive species are obvious, and we should perhaps take them more seriously in light of climate change. Species diversity matters a great deal at all levels from microbes to carnivores, and we need to become less focused on the success of individual species and more focused on the health, diversity, and functioning of the larger system. The soils on many restoration sites have been modified by past land use, particularly agriculture, and may have substantially altered physical structure, microbial communities, drainage, and nutrient conditions that will place stress on restored vegetation communities. Restoration projects should more carefully consider land use legacy effects on soil, and address them in the design phase.

We need to think critically about how stresses interact with each other, and how climate change may magnify the stress load by small tweaks to multiple stressors. For example, at the site described in this story, there are herbivores (snow geese) whose grubbing for bulrush rhizomes loosens soil, increasing erosion during winter storms. Climate change



Photos of the same monitoring plot in 2014 and 2015, showing the extent of marsh die-back, caused by the stem-boring moth.

is increasing herbivore populations and raising the sea level, increasing the disturbance from both herbivores and wave erosion. Summer river flows are declining, increasing soil salinities and stress on bulrushes. There is also a legacy of a levee system that has re-routed freshwater and it's suspended sediment away from marshes, sediment that could rebuild those eroding marshes and freshwater that could decrease salt intrusion.

There are many sources of stress, many vulnerabilities to climate change, and many opportunities for us to improve our stewardship and restoration programs to account for climate change. It's time we got a little more strategic.

Roger Fuller coordinates the restoration and stewardship program at the Padilla Bay National Estuarine Research Reserve. He can be reached at rfuller@padillabay.gov

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Harvest Brodiaea and the Bounty of the Balds

by Abe Lloyd

By Mid-June, the last camas flowers have usually fallen, their green leaves withered, and the grass around them is parched golden under the long day's sun. All around the Salish Sea the plants of thin soiled, treeless "balds" prepare for the dry summer by setting seed and retreating to subterranean perennial parts. Visiting a bald on an island at the mouth of the Skagit River, I was surprised by a final flush of color. Amongst camas seed pods, dry moss, and crisp licorice fern fronds were the vital tones of orchid, orobanche, onion, and brodiaea.

Edible roots grace numerous bald species including Spring Gold (Lomatium utriculatum) Common Camas (Camassia quamash), two species of onions (Allium acuminatum, A. cernuum) and brodiaeas. I was especially keen to have my first taste of brodiaea. Both Harvest Brodiaea (Brodiaea coronaria) and White Brodiaea (Triteleia hyacinthina) were present but this account is limited to the slightly earlier flowering, shallower rooted and easier to harvest Brodiaea.

Harvest Brodiaea is an herbaceous perennial that grows from a small spherical to ovate corm $\frac{1}{4}$ - $\frac{1}{2}$ inch in diameter. Several linear basal leaves emerge early in the spring and a single leafless flowering stalk 2-12 inches tall arises as the soil begins to dry in late spring and the leaves wilt. One to ten flowers are clustered in an umbel that is subtended by the remnants of the papery sheath which protects the embryonic flowers (similar to onion flowers) but ruptures as the flowers mature. Each flower is 1-2 inches long with 6 blue to purple tepals and a greenish white striped tube. Seed capsules filled with black seeds form in the early summer and the seeds are shaken out of the capsules by heavy wind

Harvest Brodiaea ranges from southern Vancouver Island to Southern California and has the largest range of the 19 species in its genus (all in Western North America). The Comox valley on Vancouver Island is the northern extent of its range and it is commonly found in prairies and thin soiled rocky balds throughout the islands and mainland region surrounding the Salish Sea. Further from the coast Harvest Brodiaea is less common, but a few populations are found in the Thompson and Fraser River valleys in British Columbia, the rocky slopes of the upper Skagit (Ross Lake) and Thurston County outwash prairies in Washington; the Lower Columbia and Willamette valleys in Oregon host sporadic populations as well. From the Siskiyous southward, Harvest Brodiaea once again becomes more common and can be found in both wet and dry sites including yellow pine forests, riparian wetlands, and grasslands.

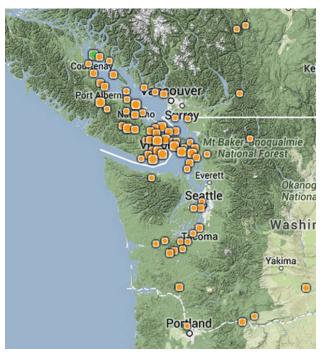
At the time of first European contact, the Coast Salish collected Harvest Brodiaea. Captain George Vancouver's naturalist Archibald Menzies wrote in his May 28, 1792 journal "On the Point near the Ship [Restoration Point, Puget Sound] where...a few families of Indians live in very Mean Huts or Sheds formed of slender Rafters & covered with Mats. Several of the women were digging on the Point which excited my curiosity to know what they were digging for & found it to be a little bulbous root of the liliaceous plant which on searching about for the flower of it I discovered to be a new Genus of the Triandia monogyna [i.e. Brodiaea]. This root with the young shoots of Raspberries & a species of Barnacles formed at this time the chief part of



Harvest Brodiaea (Brodiaea coronaria)



Brodiaea coronaria Harvest fl bulb Craft Island



Brodiaea coronaria range



Brodiaea coronaria Harvest

their wretched subsistence (in Pojar and Mackinnon 1994)." However, there is almost no mention of the traditional food value of Harvest Brodiaea among later ethnobotanical studies of the Coast Salish (Turner and Bell 1971) or Indigenous peoples in British Columbia or Washington. Knowledge of other brodiaea species ranges from vague recollections of use among the Thompson (Turner et al. 1990) and Okanagan (Turner et al. 1980) to precise knowledge and active harvest among some Sahaptin people (Hunn 1990).

Further south, the ethnobotanical knowledge of Harvest Brodiaea is more vivid. In Oregon, several Athabaskan speaking peoples know the plant as 'small camas' due to the similarity in appearance and use (Notes on Ethnobotany of Western Oregon). In California, the corms are traditionally eaten by the Atsugewi, Miwok, Pomo, Kashaya, Yurok, Yana, and other Native American groups (Native American Ethnobotany). Research by ethnobotanist Kat Anderson (2005) has shown that traditional techniques of harvesting and tending patches of brodiaea and onions actually increases their abundance. By all accounts, the roots of Harvest Brodiaea are dug in the late spring while flowering and boiled or baked in earth ovens before being eaten.

I boiled a few corms for 10 minutes in unsalted water to give myself an unadulterated taste of the little morsels. They quickly softened and I found their texture and flavor very similar to a boiled potato. The skins were tough and I spit them out. All the remaining roots went into the garden to multiply for future meals.

The genus Brodiaea honors Scottish Botanist James Brodie (1744-1824) and the species epithet coronaria means "used for garlands" in Latin. I can't think of a nicer garnish for my next meal of brodiaea.

T. Abe Lloyd is an adjunct instructor at Western Washington University and Whatcom Community College where he teaches courses related to natural history and ethnobotany. He is the author of Wild Berries of Washington and Oregon (Lone Pine) and keeps a foraging blog called "Wild Harvests" (www.arcadianabe. blogspot.com) where he chronicles more of his foraging adventures and experiments.

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Conifer plugs are stored frozen and should be allowed to thaw before planting. Once plugs thaw their shelf-life is limited; please plant as soon as possible after thawing.

Abies amabilis (Pacific Silver Fir)

This tall forest tree grows from southeastern Alaska to western British Columbia and south to northwestern California. It ranges from sea level in the north to above 3000' in the Cascades, and above 7000' in the southern end of the range. The old common name for this tree—lovely fir (amabilis means lovely)—is quite fitting; the grey bark with horizontal resin blisters and dark green flat needles clothing the branches are quite lovely. *Limited quantities available this year.

**Available by pre-order only next year- order by October 1st. Seed Zone: ABAM-2 at 1000' elevation (0-1500' band)

	(
Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Plug-6					1	50	1	25				

Abies grandis (Grand Fir)

The most common true fir of the lowlands, with glossy, deep green needles, grand fir provides important cover, nesting sites, and seeds for birds, squirrels, and other wildlife. Maximum height 200-250'. Native from British Columbia south to California, Idaho, and Montana. Seed Zone: ABGR-5 and ABGR-3 at 500-1000' elevation (0-1000' band)

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	О
Plug-10					1	.36	1	.22	3.	32	.6	8
Plug-15					1	.48	1	.33	3.	39	.7	4

Callitropsis (Chamaecyparis) nootkatensis (Alaska Yellow Cedar)

Long-lived conifer with pendulous branches, blueish-green leaves and shaggy grey bark. Found in moist to wet sites in coastal montane forests from 2000-7500' in the Oregon and Washington Cascades down to sea level in Southeast Alaska. Its strong and light wood was used by many coastal peoples to make bows, paddles, and tool handles.

*Limited quantities available this year.

**Available by pre-order only next year- order by October 1st. Seed Zone: Indian Lake, BC

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Plug-15						2.00	1	.80	1	.20		

Calocedrus decurrens (Incense Cedar) NL

This "beautiful cedar" (the meaning of Calocedrus) makes a handsome landscape tree with aromatic wood that resists decay and insects. Native from the dry side of the Oregon Cascades through southern California and Mexico, this tree grows biggest in moist, well-drained, fertile soil but will tolerate hot, dry sites with poor soil. Prefers full sun to light shade. Fire and drought tolerant. Grows to 120' tall. *Limited quantities available this year.

**Available by pre-order only next year- order by October 1st. Seed Zone: Oregon (old seed zone 262) at 500' elevation

2004 2010: 0.05011 (014 2004 2010 202) 41 000 010 441011												
Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Plug-15					1	.75	1	.58	1	.05		

Picea sitchensis (Sitka Spruce)

Lowland conifer reaching 120-200' tall, common in wet habitats. Fast growing, with dense root systems for erosion control. Provides important wildlife habitat and shade for streams. Native from Alaska south to California. Tolerates salt spray in shoreline plantings. Seed Zone: PISI-4 at 1000-1500' elevation (only one elevation band exists)

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Plug-10 Plug-15					-	.36 .48	-	.22 .33		32 39	.6 .7	8

Pinus contorta v. contorta (Shore Pine)

Two-needled pine with rounded stature to 40'.

Adaptable to many soil types, from moist areas around lakes and bogs west of the Cascades to well-drained or nutrient-poor locations. Tolerates salt spray along shorelines. Native from Alaska south to northern California.

Seed Zone: PICO-6 at 500' elevation (0-1000' band)

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Plug-15					1	.48	1	.33	3.	39	.7	4

Pinus monticola (Western White Pine)

This five-needled pine grows from BC to California and east to Montana, found at higher elevations in the southern part of its range but down to sea level in Washington and BC. An important timber species, this tree has been hugely impacted by white pine blister rust. Our seed is collected from trees with naturally occurring resistance. Grows to 120' tall.

*Limited quantities available this year.

**Available by pre-order only next year- order by October 1st. Seed Zone: WA/ID/MT- rust resistant

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Plug-15					1	.75	1	.58	1.	.05		

Pinus ponderosa (Ponderosa Pine)

Long-lived tree native to the western United States. Grows 55-90' tall, drought tolerant, found in wide variety of soils, from fine textured to rocky, shallow to deep. The seeds are eaten by many birds, and the needles provide food for grouse.

*Limited quantities available this year.

**Available by pre-order only next year- order by October 1st.

Seed zone: I	PÍPO	-5 a	t 250	00' é	leva	tion	(20	00-3	000'	ban	d)	
Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Plug-15					1	48	1	33	,	₹9		

Pseudotsuga menziesii (Douglas Fir)

Fast-growing, long-lived tree with densely set, soft needles that are dark green to blue-green in color. Native to western North America. Grows to 70-250' in height, preferably in deep, moist soil and full sun. Seed Zone: Seed Zone: PSME-4 and PSME-7 at 200-500' elevation (0-1000' band)

Available	J	F	M	Α	Μ	J	J	Α	S	0	N	D	
Plug-6					.9	8	.8	38	.5	9	.4	9	
Plug-10					1.	.36	1.	.22	3.	32	.6	8	
Plug-15					1	.48	1	.33	8.	9	.7	4	

Thuja plicata (Western Red Cedar, Canoe Cedar)

A magnificent tree along the coast with drooping branches. Shade tolerant but not dependent. Grows to 80-200' tall in moist to wet soils. Native from southeastern Alaska to the northern coast of California. Seed Zone: THPL-2 at 100-500' elevation (0-2000' band)

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Plug-10 Plug-15					-	.36 .48		.22		32 39	.6 .7	8 4

FACU

Tsuga heterophylla (Western Hemlock)

An important conifer in western forests, tolerant of sun or shade in well-drained soil. Recognized by its graceful pendant branches and spire-like drooping crown. Grows to 200' tall.

Seed Zone: TSHE-3 at 0-500' elevation (0-1200' band)

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Plug-10 Plug-15						.36 .48	1. 1.	.22		32 39	.6 .7	8 4

Tsuga mertensiana (Mountain Hemlock)

A lovely tree, with its graceful form, spire crown, and needles that look like little stars on the hanging branches. Can grow to 100' but often only grows to 20-30'. Generally a mountain tree, it is native from sea level to 3000' in Alaska south through the West Coast mountains to over 8000' in Sequoia National Park. Shade tolerant, grows best in cool, moist sites.

Seed Zone: Vancouver Island, BC *Limited quantities available this year.

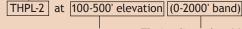
**Available by pre-order only next year-order by October 1st

Available b	у рі	6-01	uei	Only	пех	t ye	ai - C	nuei	DУ	OCIC	bbei	151.
Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Plug-6					1	.50	1	.35				
P-2					1	.75	1	.58	1.	.05		

A quick guide to deciphering conifer seed zones:

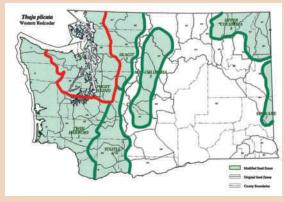
Species-specific seed zones were developed for many of our native conifers by the US Forest Service and the Washington State Department of Natural Resources in 2002. These research-based zones are better guidelines for seed transfer than generic ecoregions, and we use them whenever they are available. Despite their usefulness, these seed zones can be a bit confusing. Unlike the old conifer seed zones (developed in 1966), the new zone boundaries, zone names and numbers, and elevation bands are different for each species. We list the zone numbers, elevation of the collection, and relevant elevation band for each of our offerings. The seed zone for Thuja plicata is broken down below as an example.

Thuja plicata has seven seed zones in Washington state. Our seed is from the Puget Sound-2 zone, outlined in red on the map below.

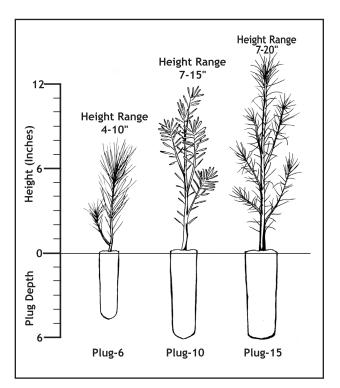


The seed collection was made between 100-500' in elevation.

Thuja plicata has 2000' elevation bands, so these trees can be safely planted at appropriate sites between 0-2000'.



Seed zone maps for each species are available on our website at fourthcornernurseries.com/seed-zone-maps/





Rich in the early years of Fourth Corner Nurseries

UNIT PRICE

Anaphalis margaritacea (Western Pearly Ever-

North American native perennial with attractive

white flower clusters, woolly gray-green foliage.

J F M A M

Antennaria microphylla (Littleleaf Pussytoes)

Mat-forming perennial with white-woolly leaves, and white to

pink-tinged flower clusters on 2-12" stems. Does well in dry

 $A \mid M \mid$

Α

SOND

Provenance: 02-PugetLowland

sites with full sun to partial shade.

J | F | M |

Provenance: 77-North Cascades

Rhizomatous and drought tolerant, effective for erosion control, also a good butterfly plant. Grows 1-4' tall.

lasting)

Available

Available

Bare-root seedling

Bare-root seedling

tains.

Montana.

FACU

Provenance: 77-North Cascades

Bare-root seedling

Bare-root seedling

Available J F M A M

Asarum caudatum (Wild Ginger)

Provenance: 02-Puget Lowland

Available | J F M A M J

Groundcover in moist shady areas redolent of ed-

heart-shaped leaves. Rhizomatous, can form large mats. Grows from sea level to about 3000', from southern

British Columbia south to northwestern California, Idaho, and

1.50

ible ginger. Curious maroon flowers hide under

UNIT PRICE

SIZE 200+ GRADE 50 100+ **GRADE** SIZE 100+ 200+ **GRADE** SIZE 50 100+ 200+ Asclepias fascicularis (Narrowleaf Milkweed) Antennaria rosea (Rosy Pussytoes) A Note About Perennials Generally found in the mountainous areas of the Long, narrow leaves and large clusters of white to western United States, the northern Great Plains, pale lavender flowers in summer distinguish this Our herbaceous perennial species are propagated from and Alaska. Mat-forming perennial with whitemilkweed. Grows 2-4' tall. Native from southeastsource identified wild-collected seed. All stock is field woolly leaves, and pink flower clusters on 2-12" stems. Does ern Washington south through California and adjacent Idaho. grown and shipped bare root unless noted. Plants are well in dry sites with partial sun to partial shade. Nevada, and Utah, in open fields and meadows. More toleravailable in the fall as they senesce and begin to go Provenance: 10-Columbia Plateau ant of clay soil and garden conditions than most milkweeds. dormant for winter, and again in early spring before Available | J | F | M | A | M | J | J | A | S | O | N | D Provenance: 03-Willamette Valley, 05-Sierra Nevada regrowth of their main flowering stem. This window Available J F M A M J J A S O N D is specific to each species, so please review the avail-In production; inquire for availability ability calendar and check with us to determine the Bare-root seedling .90 .60 .45 best time to receive your order. Our hardiest species NL Aquilegia flavescens (Yellow Columbine) are available through the winter as well, with species-Asclepias speciosa (Showy Milkweed) North American native perennial to 2' tall, with showy pale appropriate storage techniques: freezing, refrigeration, yellow flowers. Found in moist, open to partially shaded sites Widespread across western North America in drier or digging to order. Standard bundles contain 50 plants east of the Cascades. habitats. Rhizomatous perennial with pink to red-Provenance: 09-E. Cascade Slope/Foothills dish-purple flowers, grows to 4'. Found commonly Please order by November 1 for winter perennial orders east of the Cascades in moist, loamy to sandy soil. Showy Available J F M A M J J A S O N D to accommodate our digging and processing schedule. fragrant flowers attract butterflies and other pollinators. In production; inquire for availability Provenance: 03-Willamette Valley, 10-Columbia Plateau J | F | M | A | M | J | S Aquilegia formosa (Western Columbine) Available J Α 0 Abronia latifolia (Coastal Sand Verbena) NLWestern North American native perennial to 3' tall, Rhizome Prostrate, fleshy, mat-forming perennial with bright yellow with showy reddish-orange and yellow flowers. flowers in round-topped clusters. Commonly found on west Found in moist, sunny to partially shaded sites. Aster subspicatus (Douglas Aster) please see coast beaches. Provenance: 02-Puget Lowland, 03-Willamette Valley Symphyotrichum subspicatum v. subspicatum Provenance: 02-Puget Lowland Available J F M A M J J A S O N D Available J F M A M JA S O N D Balsamorhiza deltoidea (Deltoid Balsamroot) NL Bare-root seedling .90 .90 .60 .45 Bare-root seedling Northwest perennial with basal leaves and large yellow Argentina egedii (Pacific Silverweed) please see sunflower-like flowers. Prefers dry sunny habitats at low Achillea millefolium (Common Yarrow) Potentilla anserina elevations, from southern British Columbia to California. North American native perennial herb, to 1-3' tall. Transplants best in the fall. Grows 1-3' tall. FACU Provenance: 02-Puget Lowland Soft fern-like foliage; white or pink flower clusters Armeria maritima (Sea Thrift) attract butterflies. Rhizomatous and drought toler-Saltwater shorelines perennial with tufted narrow Available | J | F | M | A | M | J J A S O N ant nature making an effective as well as attractive erosion leaves and globular pink flowers. Attracts native control. Bare-root seedling .90 .60 pollinators. Drought tolerant. The native species Provenance: 02-Puget Lowland exhibits twisted leaves and flowering stems distinctive from Campanula rotundifolia (Harebells, Bluebell commercial varieties. Grows 6-12" tall. М S OND Available Α Bellflower) Provenance: 02-Puget Lowland Bare-root seedling .70 .47 .35 Delicate bellflower with tiny heart-shaped leaves SOND Available J F M A M Α and attractive large blue bells. Found from sea Achlys triphylla (Vanilla Leaf) NLBare-root seedling .80 .54 .40 level to mountain meadows. Grows 4-12" tall. Attractive rhizomatous groundcover composed of three Provenance: 02-Puget Lowland fan-shaped leaves atop a slender stalk, with a showy 1-2" Arnica chamissonis (Leafy Arnica) Available J F M A M J J A S spike of tiny white flowers in spring. Dried foliage smells like **FACW** Native across Canada and the western United In production; inquire for availability States, this herbaceous perennial has cheerful Provenance: 02-Puget Lowland yellow daisy flowers. Prefers moist meadows and Castilleja hispida (Harsh Paintbrush) NL Available | J | F | M | A | M | J | N D thickets. Grows 1-3'. J A S O Bright red to red-orange flowered paintbrush with cut-leaved Provenance: 77-North Cascades, CO 1.25 Bare-root seedling foliage commonly found in lowland meadows to the subal-Available | J | F | M | A | M | J | J A S O N D pine. Grows both sides of the Cascades, British Columbia to Agastache occidentalis (Western Giant Hyssop) NL Oregon, as far east as Montana. In production; inquire for availability Native perennial redolent of licorice complete with its Provenance: 02-Puget Lowland sweetish flavor, purple flowers attract butterflies. Found in NL Arnica cordifolia (Heart-leaf Arnica) Available | J | F | M | A | M | J | J | A | S | O | N | D vernally wet areas east of the Cascades. Yellow-flowered, rhizomatous perennial with heart shaped In production; inquire for availability Provenance: 09-E. Cascade Slope/Foothills leaves that grows to 2'. Found in woodlands and meadows at SON F M A М Α D Available J mid to high elevation in Western North America from Alaska Chamerion [Epilobium] angustifolium Bare-root seedling .40 to New Mexico. (Fireweed) Provenance: 09-E. Cascade Slope/Foothills Widespread North American native perennial to Allium cernuum (Nodding Onion) 4-6' tall, with showy pink flowers, good for honey Available J F M A M J J A S O N D production and butterflies. Strong rhizomes provide excel-Small wild onion native across most of North **FACU** lent erosion control. Common in sunny, dry to moist dis-In production; inquire for availability America with nodding umbels of pink flowerets. turbed areas Grows 4-20" tall. Provenance: 02-Puget Lowland Artemisia suksdorfii (Coastal Mugwort, Coast-Provenance: 02-Puget Lowland al Wormwood) J F M A M J S Available Α 0 N Available J F M Α М Α S OND Northwest native perennial with clustered stems to Bare-root seedling .80 .54 .40 Bare-root seedling .54 .40 4' and leaves green above and cottony white below. Pleasing sage scent when brushed. Common near the coast Corydalis scouleri (Scouler's Fumewort) Please see our BULB section for more Allium on bluffs and on rocky, gravelly, or sandy beaches. Ornate perennial resembling overgrown bleedspecies Provenance: 02-Puget Lowland ing heart with delicate foliage and elongate pink Available J F M A M S ON blooms. Explosive seed pods add additional excite-Angelica lucida (Sea Watch) ment. Prefers moist woodland sites. Grows 2-3' tall. Bare-root seedling .80 .54 .40 Stout perennial of saltwater shorelines, reaching Provenance: 02-Puget Lowland 5' with large divided leaves and showy carrot-like Available | J | F | M | A | M | J | J | A | S | O | flowers. Found in moist areas along the Pacific Aruncus dioicus (Goatsbeard, Bride's Coast and sporadically in New England. Feathers) In production; inquire for availability Circumboreal, from southern British Columbia to Available J F M A M J J A S O N D northern California, this 3-6' tall perennial has showy plumes of white flowers. Flowers in sun or shade. In production; inquire for availability Grows in damp to wet rocky areas, stream banks, meadows, and forest openings, from low elevation up into the moun-



UNIT PRICE

Rich strolling around to find seeds

OND

FACU

.40

JASOND

SIZE

UNIT PRICE

50

100+

200+

GRADE

UNIT PRICE

100+

200+

GRADE

50

SIZE

<u>GRADE</u>

Coreopsis lanceolata (Lanceleaf Tickseed) Fragaria vesca ssp. bracteata (Woodland Hydrophyllum tenuipes (Pacific Waterleaf) Strawberry) Rhizamatous, spreading, herbaceous plant for Yellow blooming perennial that grows to 2' tall. **UPL FACU** shady, moist sites that can dry out in late summer. Likes hot, dry, poor soil areas and flowers April to North American groundcover native to western Large, fuzzy leaves with sharp-pointed leaflets and July. Native to most of North America. states. Strongly stoloniferous, with white flowers clusters of lovely creamy flowers in mid to late and small edible berries. Good for shady areas. spring add interest. Native from southern British Columbia to Available J F M A M J J A S O N D Provenance: 02-Puget Lowland northwestern California. Grows 8-32" tall. J A S O N D Available J F M A M J Provenance: 02-Puget Lowland Bare-root seedling .80 .54 .40 Bare-root seedling .54 .40 .80 Available | J | F | M | A | M | J Dicentra formosa (Western Bleeding Heart, Bare-root seedling .45 Fragaria virginiana ssp. platypetala (Virginia Pacific Bleeding Heart) FACU Strawberry) West Coast native herbaceous perennial with FACU NL Iris chrysophylla (Yellowleaf Iris) Western North American groundcover with white strong rhizomes, fern-like leaves, showy reddish-Striking native iris; creamy white flowers with yellow stripe pink flowers. Likes moist, shady sites, from southern British flowers and edible berries. Found in forest openand maroon veining on 8" to 1' stems. Found in open wood-Columbia to central California. Grows 1-2' tall. ings and meadows. lands in western Oregon and California. Provenance: 02-Puget Lowland Provenance: 02-Puget Lowland Provenance: 78-Klamath Mountains J F M A M J Available Available J A S O N D F M A M Α S | O | N | D J Available J F M A М Α Bare-root seedling .90 .60 Bare-root seedling .54 .40 Bare-root seedling .90 .60 NLEchinacea angustifolia (Narrow-leaved Coneflower) Frasera albicaulis var. columbiana (Whitestem NLIris douglasiana (Douglas Iris) NL Frasera, Columbia Frasera) Prairie wildflower to 2-3' with showy pink-purple flow-Pale pink to purple flowers with yellow center stripe on ers. Commonly used as a medicinal plant, also at-This pale blue tinted-flower grows 12-30" tall, with narrow, sepals; 1-2' tall branched stems. Native in open grassy areas tracts butterflies. Native from the Rocky Mountains silver-edged leaves. Found in open plains to mid-elevation in Oregon south to California. eastward through the Midwest and south to Texas. areas in the mountains east of the Cascades in Washington Provenance: 01-Coast Range Provenance: ID and Oregon Provenance: 04-Cascades F M A M J Available J Α SOND Available J F Α Μ Α SOND Available J F M A M J J A S O N D Bare-root seedling .90 .60 Bare-root seedling .90 In production; inquire for availability NL Iris missouriensis (Western Blue Flag Iris) Echinacea purpurea (Eastern Purple Coneflower) White to blue flowers on 1-2' tall branched stems. FACW Gaillardia aristata (Blanket Flower) North American prairie wildflower with showy purple flow-Grows from sea level to high in the mountains. Showy yellow and orange sunflower-like flowers on 1-2' stems ers on 2-3' stalks. Medicinal, good cut flower, and attracts Native to the western half of the United States. characterize this wildflower. Grows in sunny, moist to dry arbutterflies. Prefers full sun. Native from the Midwest to the Provenance: 01-Coast Range eas widespread across western and northern North America. East Coast. Provenance: 02-Puget Lowland Available J F M A M J J A S Provenance: ID SOND Available J F M Α М J Α In production; inquire for availability Available Α Bare-root seedling .45 Bare-root seedling .80 Iris setosa (Alaska Wild Iris) NL Wild iris of northern latitudes with stout leaves and stems to Geum macrophyllum (Largeleaf Avens) Equisetum hyemale (Rough Horsetail, Scouringrush 2', dark blue flowers. Prefers a moist or wet sunny location. North American perennial with short rhizomes Horsetail) please see GRASSES, SEDGES, RUSHES Provenance: SE Alaska and cheerful yellow flowers, reaching 3' in height. Found in forests and open areas. Reseeds prolifi-Available J | F | M | A | M | J J A S O N D Erigeron glaucus (Seaside Daisy, Seaside Fleacally. Bare-root seedling .80 .54 bane) Provenance: 02-Puget Lowland FACU This coastal perennial has low, multi-branched Available J OND Iris tenax (Oregon Iris, Toughleaf Iris) NL stems with succulent, evergreen leaves, grows Showy western native iris with blue to purple flowers on 1' Bare-root seedling .70 .47 .35 2-12" tall and 1 ½-2' wide, with showy pink to lavender daisy flowers with yellow centers. Native to Oregon and California tall stems, found in sunny locations. Native from southern coasts, growing on dunes, bluffs, and beaches. Geum triflorum (Prairie Smoke) Washington to northern California. Provenance: 01-Coast Range, 02-Puget Lowland, 03-Willa-Provenance: 01-Coast Range Beautiful wildflower with a basal rosette of fern-FACU metteValley like foliage, soft pink nodding flowers on 4-18" Available | J F M A M J | J A S O N D stems, and a puff of pink 'smoke' for a seed head. Available J F M A M J J A S O N D In production; inquire for availability Prefers sunny dry sites. Native to most of North America. Bare-root seedling .80 Provenance: 10-Columbia Plateau Erigeron philadelphicus (Philadelphia Flea-SOND Available Μ bane) M J | A | Lathyrus japonicus v. maritimus (Beach Pea) Perennial with trailing stems up to 4' and reddish-Widespread North American wildflower with small, Bare-root seedling .90 .60 **FACU** but numerous showy pink flowers. Prefers moist, purple flowers, found on sandy and gravelly beach-Glehnia leiocarpa (Beach Carrot, American sunny locations from the lowlands to the mountains. Not a es of the Pacific Coast, Great Lakes, and Hudson Silvertop, American Glehnia) long-lived plant, but will bloom prolifically and reseed itself **FACU** freely. Growing 1- 4' tall. Provenance: 02-Puget Lowland Prostrate, taprooted perennial found along sandy Provenance: 77-North Cascades shorelines and dunes. Thick, leathery, spreading Α Μ S N D Available M J Α 0 leaves green above and white-woolly on undersides, with Available | J | F | M | A | M | J | J | A | S | O | N | D Bare-root seedling white flowers May-July. Grows along the coast from Alaska to In production; inquire for availability northern California. Lomatium utriculatum (Spring Gold) NLProvenance: 02-Puget Lowland Erigeron speciosus (Showy Fleabane, Aspen NL Deep green ferny basal foliage emerges in the fall in prepa-Available J F M A M J J A S O N D Fleabane) ration for the bright lemony yellow flowers that begin a long In production; inquire for availability Showy plant with large lavender daisy-like flowers from late blooming season in early spring. West side species found on spring into the summer. Native in the Pacific Northwest and lowland coastal balds. Grows 4-24" tall. Grindelia integrifolia (Puget Sound Gumweed) the Rocky Mountains, in sunny, dry to moist woodland open-Provenance: 02-Puget Lowland ings from foothills to mid-elevations in the mountains. Grows FACW Robust native perennial of Pacific coastal areas Available | J | F | M | A | M | J N D 1-3' tall. with showy yellow flowers, 3-4' tall. Late season Provenance: 02-Puget Lowland Bare-root seedling .90 .60 .45 bloomer, salt spray tolerant. Provenance: 02-Puget Lowland Available | J | F | M | A | M | J | J | A | S | O | N | D Bare-root seedling .35 Bare-root seedling Eriophyllum lanatum (Oregon Sunshine, Woolly NL Sunflower) Heracleum maximum (Cow Parsnip) Low, spreading woolly herb with bright yellow daisy-like North American native perennial with large, lobed flowers that attract butterflies. Prefers dry, open habitats

leaves and striking 6' stems topped with large

from the Greek because of its large size.

In production; inquire for availability

Provenance: 02-Puget Lowland

Provenance: 02-PugetLowland

Available | J | F | M |

Bare-root seedling

Crevice Alumroot)

Idaho.

white flower clusters. Attracts beneficial insects

Heuchera micrantha (Small Flowered Alumroot,

and many insect-eating bird species. Named after Hercules

Available J F M A M J J A S O N D

Evergreen foliage and numerous sprays of tiny white flowers

on stems to 2' tall. Found along stream banks and in rock

crevices from southern British Columbia to California, and



UNIT PRICE

100+

200+

50

SIZE

Rich staging seed during fall planting

NL

.45

Bare-root seedling .40

vigorously by stolons. Common along the coast on beaches

and rocky bluffs, from Alaska south to California. Thrives in

across the western states to southwestern British Columbia.

0

FACU

Provenance: 02-Puget Lowland, 03-WillametteValley

Fragaria chiloensis (Coastal Strawberry, Beach

West Coast groundcover with shiny dark green

FMA

sunny conditions. Drought tolerant.

Provenance: 01-Coast Range

J

leaves, white flowers, and edible berries. Spreads

F M A M J

Grows 4-20" tall.

Bare-root seedling

Available

Strawberry)

Available

SIZE

Northwest deciduous shrubby perennial with up-

right prickly stems to 9' tall. This member of the

Ginseng family has large primordial-looking leaves,

greenish-white flowers, and bright red berries in showy clus-

ters in the fall. Prefers moist, partially shady to shady sites.

Common Alaska south to Oregon, east to Montana. Available

Oplopanax horridus (Devil's Club)

UNIT PRICE

100+

200+

GRADE

Serrulate Penstemon)

Provenance: 77-NorthCascades

50

UNIT PRICE

100+

200+

FACU

50

SIZE

Penstemon serrulatus (Cascade Penstemon,

Beautiful wildflower with showy pinkish-purple to

deep blue flowers, on stems 8-28" tall. Prefers sun or partial shade, moderate moisture. Native from southern

Mountains to sea level. Blooms June to early August.

Alaska to northern Oregon, in and west of the Coast-Cascade

UNIT PRICE

100+

200+

OND

S

Α

GRADE

only in containers.

NL

50

SIZE

Prostrate lupine of seashores and dunes with clusters of blue

and white flowers and 2' stems. Salt and drought tolerant. Native from southwestern British Columbia to northwestern

A M

Lupinus littoralis (Seashore Lupine)

F M

Provenance: 02-Puget Lowland

J

<u>GRADE</u>

California.

Available

Provenance: 02-Puget Lowland Bare-root seedling .45 .60 Available J F M A M J JA S Available J F M A M J J A S O N D Lupinus polyphyllus (Bigleaf Lupine) Bare-root seedling .80 .54 .40 In production; inquire for availability Tall lupine to 4' tall with spikes of showy blue flowers. Fixes nitrogen to enhance poor soils. Wide-Penstemon speciosus (Royal or Showy Penstemon) NL Oxalis oregana (Woodland Sorrel, Redwoodspread across the western and northeastern United An evergreen perennial, growing 2' tall, with 1-2" sky-blue to States. light purple flowers in late spring and summer. Grows in dry This western version of the shamrock makes a good Provenance: 02-Puget Lowland meadows, scrub, and slopes at mid to high elevations on the low maintenance groundcover, 2-8" tall, with light OND Available J F M A M Α S east side of Washington south through California, Nevada and pink flowers for shady sites. Native along the West Coast, Idaho. Drought tolerant, attracts many pollinators. Bare-root seedling .54 .40 from southern British Columbia to northern California. Also Provenance: 09-ECascadeSlope/Foothills available in containers. Available J F M A M J J A S Lupinus rivularis (Riverbank Lupine) Provenance: 02-Puget Lowland Lupine found in coastal meadows and riverbanks. In production; inquire for availability Available F M A M J Α SOND Reddish-brown stems with violet-blue flowers. .60 Bare-root seedling .45 Shrubby plant to 3 ½' tall. Native from southern Petasites frigidus v. palmatus (Western Coltsfoot) British Columbia to northern California. Penstemon cardwellii (Cardwell's Penstemon, NL Provenance: 02-Puget Lowland Rhizomatous perennial 1-2' tall, with large palmate Cardwell's Beardtongue) Available | J | F M A J | J | A | S | O | N | D leaves and white to pinkish flowers March to July. M Mat-forming shrubby Penstemon to 12" tall, with showy, Common in wet areas in low to mid elevation forests and Bare-root seedling .80 blue-purple flowers that likes sun and well drained openings along the west coast, Maine, a sprinkling in the soils. Blooms May to early August. Grows in forest open-Great Lakes region, and north through Canada. Lysichiton americanus (Skunk Cabbage) please see ings and rocky slopes at mid-elevations in the moun-Provenance: 02-Puget Lowland **AQUATICS** tains of southwest Washington south through Oregon. Provenance: WA Available | J | F | M | A | M | J ON JA S Maianthemum dilatatum (False Lily-of-the-Available J F M A M J J A S O N D Bare-root seedling .90 .60 Bare-root seedling .90 .60 .45 Plantago maritima v. juncoides (Sea Plantain, Low growing native perennial, rhizomatous and Goose Tongue) shade loving. Grows 2-4". Clusters of tiny white Penstemon davidsonii (Davidson's Penstemon) NL **FACW** flowers hover above deep green heart shaped foliage. Common West Coast perennial with fleshy linear Western shrubby, mat-forming penstemon with pink-lavender Common in rich, shady areas. leaves, and 2-10" flower spikes May to July, found flowers, grows 3-6" tall. Found on dry rocky slopes at mid- to Probenance: 02-Puget Lowland on seashores and salt marshes. An important food source for high elevations from coastal British Columbia and the Coast waterfowl, also edible for people. Also found along north-Available | J | F | M | A | M | J | J | A | S | O | N | D and Cascade Mountains to the Sierras in California. eastern seaboard. Provenance: 77-North Cascades 1.25 Bare-root seedling Provenance: 02-Puget Lowland Available | J | F | M | A | M | J | J | A | S | O | N | D Available J | F | M | A | Μ Α S OND Mentha arvensis (Wild Mint, Field Mint) In production; inquire for availability FACW Rhizomatous plant in the mint family, grows 6-24" Bare-root seedling tall, and is strongly aromatic. Purple flowers are Penstemon fruticosus (Shrubby Penstemon) NLgood for butterflies, seeds eaten by wildlife. Potentilla anserina (Pacific Silverweed) Low evergreen shrub to 2' tall, with pink to purple flowers Common in wet places, sun or partial shade, across North **OBL** A quickly spreading groundcover with attractive that attract pollinators and hummingbirds. Native eastern America. yellow flowers and leaves with silvery undersides. British Columbia to Alberta, south east of the Cascades to Provenance: 02-Puget Lowland Found along edges of lakes and streams, wet Oregon, east to Montana and Wyoming in dry exposed areas. meadows, and on sandy beaches. Salt-tolerant for shoreline Available M A М Provenance: 09-E. Cascade Slope/Foothills plantings. Native on the west coast of the U.S., New York Bare-root seedling .40 Available | J | F | M | A | M | and New England, and across Canada. Provenance: 02-Puget Lowland In production; inquire for availability Mertensia platyphylla (Broadleaf Bluebells) NL Available J F M A M J A S O Bell-shaped light blue wildflowers on 1-2' leafy stems. Penstemon newberryii (Mountain Pride) NL Spreads slowly by rhizomes. Stream banks and moist for-Bare-root seedling .35 Shrubby, mat-forming up to 1' tall plant with tubular lavenest habitats, sun to part shade. Native to Washington and der flowers. Rocky outcrops and talus slopes at mid to high Oregon. Potentilla gracilis (Graceful Cinquefoil, Slender elevations in southern Oregon and northern California. Provenance: 03-Willamette Valley Cinquefoil) Provenance: 05-Sierra Nevada Western North American wildflower with palmately Available | J | F | M | A | M J Α SOND Available J F | M | A | M | J | J | A | S | O | N | compound leaves and yellow flowers. Grows 1-2 Bare-root seedling .90 .60 .45 tall. Found in moist meadows from the lowlands to the In production; inquire for availability mountains. Mimulus guttatus (Yellow Monkeyflower, Seep Penstemon ovatus (Broadleaf Penstemon, Provenance: 02-Puget Lowland NL Monkeyflower) OBL Eggleaf Beardtongue) Available J F M A M J S A showy, highly variable wildflower native to west-Bright blue flowered penstemon with deep green, glossy ern North America with red-spotted yellow flowers. Bare-root seedling .70 .47 .35 spade-shaped leaves, grows 1'-3' tall. Ranges from woodland Also known as Erythranthe guttata. Grows in a wide variety to sunny slopes, British Columbia to Oregon. of moist habitats from salt spray areas along the Pacific Provenance: 09-E. Cascade Slope/Foothills Ocean, deserts, high in the mountains, and even on toxic copper mine tailings. Pollinated by bumblebees. Both annual Available J F M A M J Α SOND and perennial forms occur. Grows 2-30" tall. .54 .40 Bare-root seedling Provenance: 02-Puget Lowland Penstemon procerus (Small-flowered Penste-Available | J | F | M | A | M | J | J | A | S | O | N | D | Penstemon with dense whorls of lovely blue to Mimulus lewisii (Purple Monkeyflower) purple flowers. Native across Canada and south through California to Colorado from mid to high elevations Showy fuchsia-colored monkeyflower found in FACW in the mountains. Prefers dry, sandy to gravelly soils. Grows moist subalpine meadows and stream sides. A good 4-12" tall. butterfly and hummingbird plant, adds interest and Provenance: 09-E. Cascade Slope/Foothills wildlife value to ornamental ponds. Native to western North America. Grows 1-3' from a sturdy, branching rhizome. F M A M Available SOND J Provenance: 77-North Cascades Bare-root seedling Available J F M AM J A S O N D J Penstemon richardsonii (Cutleaf Penstemon) NL Bare-root seedling An unusual penstemon with dissected leaves and bright Monardella odoratissima (Mountain Monarpink flowers. Native from British Columbia south through Washington and Oregon, generally east of the Cascades. This beautiful pollinator-attractor is drought tolerant, often found Western native perennial with fragrant foliage and in open rocky habitats. Grows 8-32" tall. lavender flowers. Prefers dry, sunny areas, espe-Provenance: 10-Columbia Plateau cially east of the Cascades in the steppe and montane zone. Attracts butterflies and bees. Grows 4-20" tall. Available J F M A M J J A S O N D Provenance: 77-North Cascades In production; inquire for availability J F M A M J Available J A S O N Bare-root seedling Oenanthe sarmentosa (Water Parsley) Please see our **AQUATICS** section Mimulus lewisii (Purple Monkeyflower)

UNIT PRICE UNIT PRICE UNIT PRICE <u>GRADE</u> SIZE 50 100+ 200+ **GRADE** SIZE 50 100+ 200+ **GRADE** SIZE 50 100+ 200+ Potentilla pacifica (Pacific Silverweed) please see Sisyrinchium californicum (Yellow-eyed Grass) Symphyotrichum subspicatum v. subspicatum [Aster subspicatus] (Douglas Aster) Potentilla anserina Coastal wildflower with iris-like leaves in a slowly **FACW** FACW West coast native aster of moist habitats, especialexpanding clump and beautiful yellow flowers, ly estuaries. Grows 3-4' tall branching stems and Prunella vulgaris (Self Heal) 6-12" tall, from British Columbia to California. Likes many purple flowers attract butterflies. Tolerates North American low growing perennial with short early spring moisture, will spread by seed. salt spray in shoreline plantings. Provenance: 02-Puget Lowland rhizomes and purple to pink flowers. Has medicinal Provenance: 02-Puget Lowland value. Prefers moist sites, sun or shade. Available J F M A M J J A S O N D Provenance: 02-Puget Lowland, 77-North Cascades Available J F M A M J J Α S 0 Bare-root seedling .80 .54 .40 F M A M J J A S O N D Available J Bare-root seedling .35 Sisyrinchium idahoense (Western Blue-eyed Bare-root seedling .35 .70 Tellima grandiflora (Fringecup, Bigflower Grass) FACW Ranunculus occidentalis (Western Buttercup) Wildflower with beautiful blue flowers and iris-like Rhizomatous perennial with small white flowers leaves, 6-12" tall, in a slowly expanding clump. Showy buttercup of lowland balds and Garry Oak **FACW** with fringed petals fading to pink, April to July. Likes early spring moisture. Native to the western states and meadows, from Alaska south to California and Prefers partial shade, commonly found in moist woods and British Columbia. Nevada, Grows 6-16" tall. Prefers moist soil: along stream banks. Found from Alaska south to California, Provenance: 02-Puget Lowland spreading, goes dormant in summer. west of the Cascade crest, sea level to mid elevation in the Provenance: 02-Puget Lowland Available J F M A M SOND mountains. Grows 1-2' tall. Available J F M A M J Provenance: 02-Puget Lowland . J | A | S O N D Bare-root seedling .80 .54 .40 Available J F MA Μ S 0 Bare-root seedling .60 .45 Sium suave (Hemlock Waterparsnip) Bare-root seedling Rudbeckia alpicola (Showy Coneflower, North American native perennial with white carrot-**OBL** Wenatchee Mountain Coneflower) type flowers, common in low marshy ground and Tolmiea menziesii (Youth on Age, Piggybackshallow water. Adds interest and wildlife value to Unusual perennial with summer flowers in a black plant) cone that attracts birds when seeds are mature. ornamental ponds. Grows 2-4' tall. Northwest rhizomatous perennial to 2' tall, with Provenance: 02-Puget Lowland Grows to 2-6'. A medicinal plant native to the western states. small pinkish-brown flowers in spring. Found in Provenance: 02-Puget Lowland MAM Available OND moist shady habitats. Spreads by little plantlets on the par-Available J F M A M J | J | A | S | O | N | D ent leaves. Native from southern British Columbia to north-Bare-root seedling .80 .54 .40 ern California at low elevations. Bare-root seedling .60 .45 Provenance: 02-Puget Lowland Solidago canadensis var. lepida (Canada Goldenrod) NLSedum divergens (Spreading Stonecrop, Pacific Available J F M A M J please see Solidago lepida Stonecrop) Bare-root seedling .80 Solidago lepida [S. canadensis var. lepida] Deep green compact leaves of this West Coast spreading stonecrop are offset by bright sprays of yellow flowers that (Western Canada Goldenrod) Typha latifolia (Common Cattail) please see GRASSES, attract butterflies North American native perennial with showy yel-SEDGES, RUSHES Provenance: 09-ECascadeSlope/Foothills low flower spikes in late summer that attract butterflies and pollinators. Common in moist to dry areas. Wide SOND J F M A M J Α Vancouveria hexandra (Inside-out Flower) Available NL tolerance of soil conditions and rhizomatous roots make this Bare-root seedling Rhizomatous woodland perennial with delicate white flowa good choice for erosion control. Grows 2-5' tall ers in May and June. Common in moist, shady forests from Provenance: 02-Puget Lowland NLSedum lanceolatum ssp. nesioticum (Spearleaf the south Puget Trough in Washington, western Oregon, and F M A M SOND Available J J Α northwestern coastal California. Grows 12-18" tall. Stonecrop) Provenance: 02-Puget Lowland Bare-root seedling .80 .40 Compact stonecrop with football-shaped leaves topped by bright yellow flowers in late spring. Common on rocky balds Available | J | F | M | A | M | J | J Α S OND along the coast and inland. Native to the northwest and Sparganium emersum (Simplestem Bur-reed) please Bare-root seedling .45 southeast corners of Washington and north into British Cosee AQUATICS Veronica americana (American Speedwell), please see Provenance: 02-Puget Lowland Stachys chamissonis v. cooleyae [S. cooleyae] **AQUATICS** (Coastal Hedgenettle) FACW Available J F M A M Α S OND Rhizomatous perennial 2-3' tall, with pink flowers Bare-root seedling .54 .40 Viola adunca (Prairie Violet, Hookedspur in mid-summer that attract butterflies and hum-Violet) mingbirds. Common in moist clearings from Alaska to coastal NL Sedum oreganum (Oregon Stonecrop) California. Containerize for ornamental ponds. Deep purple violet of low elevation prairies and Succulent creeping perennial found on coastal bluffs and Provenance: 02-Puget Lowland rocky coastal outcrops. Heart-shaped deep green rocky mountain slopes from Alaska south along the coast to leaves, grows to 4" tall. Widespread from southern Alaska the northwest corner of California. Starry yellow flowers in Available | J | F | M | A | M | J | J | A | S | O | N | D across Canada, and the western states. Blooms April to spring and summer attract butterflies. In production; inquire for availability Provenance: 02-Puget Lowland Provenance: 02-Puget Lowland OND Stachys cooleyae (Cooley's Hedge-nettle) please see Available F M A M J J Α S Available J F M A M J JAS Stachys chamissonis v. cooleyae Bare-root seedling Bare-root seedling Symphyotrichum (Aster) eatonii (Eaton's Aster) NL Sedum spathulifolium (Broadleaf Stonecrop) NL Viola nuttallii v. praemorsa (Canary Violet) Wildflower with blue-purple flowers, attracts but-Bluish-green succulent foliage develops red highlights in the Bright yellow flowering violet occurring in uplands and terflies, prefers moist conditions. Grows up to 3'. winter and bright yellow flowers that attract butterflies in prairies of the Pacific Northwest. Fuzzy green gray leaves. Adds color and wildlife value to ornamental ponds. the late spring. Native from southern British Columbia to Sprouts form short rhizomes. Native west of the Rocky Mountains from Canada to New California. Provenance: 02-Puget Lowland Mexico. Provenance: 02-Puget Lowland Provenance: 02-Puget Lowland F M A M Available J J J S OND Α Available F M М Α SOND Available J F M A M J J A S O N D Bare-root seedling .60 .45 Bare-root seedling In production; inquire for availability Viola palustris (Marsh Violet) Sidalcea campestris (Meadow Checkerbloom) **OBL** Spreading pale lavender violet of wet marshy ar-Western Oregon and Puget Sound wildflower with FACU eas. Native across Canada and south through the beautiful white or light pink flowers. Found in open ern United States Grows to 8 meadows and fields. Grows 2-6' tall May to July. Provenance: 03-Willamette Valley Provenance: 02-Puget Lowland Available J F M A M S Available J F M A Bare-root seedlings .54 .40 Bare-root seedling Sidalcea hendersonii (Henderson's Checker-Yucca glauca (Small Soapweed) NL **FACW** Evergreen perennial with tough sword-shaped leaves and Taprooted perennial that sends up spikes of mingreenish-white flowers in tall clusters. Native from Montana iature pink hollyhock-like flowers. Found in wet and N. Dakota south to Texas and across to Arizona. Easy to meadows and tidal marshes along the coast from Alaska to grow and long lived, drought tolerant; grows 18" tall and 24-Oregon. Grows 2-4' tall. 36" wide, mature plants bloom late spring, early summer. Provenance: 02-Puget Lowland Provenance: CO Available J F M A M J Available J F M A M J SOND Bare-root seedlings .80 .54 .40 Bare-root seedling .60 .45 Sidalcea malviflora ssp. virgata (Dwarf Check-Rich in a field of Symphyotrichum (Aster subspicatus) suberbloom. Rose Checkermallow) **FACW** spicatum v. subspicatum (Douglas Aster),a bit too early to Clump-forming, taprooted perennial, stems trailing collect seeds

cies in Washington.

Bare-root seedling

Provenance: 03-Willamette Valley

Available J F M A M

and freely rooting. Spikes of pink flowers provide nectar for pollinators. In prairies and meadows west of Cascades, from Oregon to California, and Thurston County. Species of concern in Washington. It is an endangered spe-

J

J A S O N D

.40

GRASSES, SEDGES, RUSHES

<u>UNIT PRICE</u>

UNIT PRICE 100+ 500+ 1000+ 50 <u>Grade</u>

A Note About Graminoids

Our graminoids and wetland emergent species are propagated from source identified wild-collected seed and cuttings. All stock is field grown and shipped bare root. Plants are available while they are actively growing from spring through fall. This window is specific to each species, so please check with us to determine the best time to receive your order. Some robust rhizomatous species are also available through winter as noted.

Standard bundles contain 50 plants each. Shoot heights are trimmed to 12", or as specified. All bare root stock is dug to order, packed into bags and shipped immediately. It is helpful to remember that these plants are perishable -- treat them like lettuce. Their survival depends on being harvested, transported, and transplanted during cooler temperatures, with adequate water after planting. Please be ready to care for your plants as soon as they arrive. We cannot ensure survival after plants have left our care.

Bolboschoenus [Scirpus] maritimus (Cosmopolitan Bulrush)

Rhizomatous rush with strong triangular culms to 5'. Fresh or brackish marshes, 0-1' deep, across the United States, except the southeast. Provenance: 02-Puget Lowland

		_										
Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Bare-root se	edli	ng		.57		47		37	.3	3		

OBL

OBL

OBL

OBL

FACW

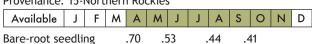
Bromus carinatus (California Brome)

Western North American grass found in moist to dry meadows. May be short-lived, but will reseed under favorable conditions. Grows 1-3' tall. Provenance: 02-Puget Lowland

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Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Bare-root se	edli	ng		57		47		37	.3	33		

Carex amplifolia (Big-leaf Sedge)

Western sedge with impressive large broad leaves, flowering spikes to 4'. Attractive for ornamental ponds. Prefers moist soil. Provenance: 15-Northern Rockies



Carex aperta (Columbian Sedge)

Northwest native rhizomatous sedge for wet areas. Grows 2-3' tall.

Provenance:	03-	willa	amei	ite v	alle	y						
Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Available J F M A M J J A S O N D Bare-root seedling .70 .53 .44 .41												

Carex aquatilis v. dives [C. sitchensis] (Sitka Sedge)

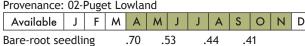
West coast sedge, from Alaska to northwestern California, tufted on short rhizomes with pretty, drooping flower heads. Attractive for ornamental ponds. Common in wet meadows, marshes and lake shores. Grows 1-4' tall.

Provenance: 77-North Cascades

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Bare-root se	edli	ng		57		47		37	.3	33		

Carex athrostachya (Slenderbeak Sedge)

Western North American tufted sedge found in seasonally wet meadows. Tolerant of late summer drought. Grows 1-3' tall. Provenance: 02-Puget Lowland



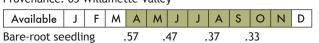
Carex comosa (Bristly Sedge, Longhair Sedge)

OBL Attractive sedge of freshwater marshes and wet meadows. Occurs sporadically across North America. Listed as sensitive in the state of Washington. Grows 1 ½-3' tall. Does not have long rhizomes, so not suitable for sites subject to siltation. Provenance: 02-Puget Lowland

		5-			-							
Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Bare-root se	edli	ng		.70		53		44	.4	1		

Carex densa (Dense Sedge)

West Coast tufted sedge of seasonal wetlands and wet meadows at low elevations. Listed as sensitive in the state of Washington. Grows 1-3' tall. Provenance: 03-Willamette Valley



100+ 500+ 1000+ SIZE 50

Carex exsiccata (Western Inflated Sedge)

OBL Large tufted sedge, sometimes with short rhizomes, 1-3' tall. Found in wet meadows, lake shores, seasonal pools in winter, usually in shallow water, 0-12", sea level to mid-elevation in the mountains. Can dominate communities, good species for restoration. Grows west of Cascades in Washington and Oregon, found on the east side occasionally; British Columbia to California and Montana.

Provenance: 02-Puget Lowland

A	vailable	J	F	М	Α	М	J	J	Α	S	0	Z	D
Baı	re-root se	edli	ng				70		53		44	.41	

Carex lenticularis (Lakeshore Sedge) please see C. kelloggii

Carex kelloggii [lenticularis] (Lakeshore Sedge)

Tufted sedge found in wet, sunny or partially shaded sites. Native across most of North America. except for midwestern and southern states. Grows 1-3' tall. Stays green in winter. Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Bare-root se	edli	ng		.57	.4	47 -		 37		33		

Carex leptopoda (Slender-foot Sedge, Taperfruit Shortscale Sedge)

The most common sedge found in western Washington and Oregon moist forest understory habitats. The most frequently encountered member of the Carex deweyana complex. Grows from British Columbia and Alberta south through our western states, Washington to Montana down to Arizona and New Mexico, Grows 1-2' tall. Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D	
Bare-root se	edli	nø		70		53		14		41			

Carex lyngbyei (Lyngbye's Sedge)

Large, rhizome forming sedge, common along saltwater shorelines from Alaska to northern California. Grows 1-3' tall.

Provenance: 02-Puget Lowland Available | J | F | M | A | M | J Bare-root seedling .47 .37 .33

Carex macrocephala (Largehead Sedge)

Rhizomatous sedge found on sandy seashores, from FACU Alaska to Oregon. Flowering heads large, 2-3" on 0.5-1.5' tall plant.

Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D	
Bare-root se	edli	ng		.70	.!	53	.4	14		41			

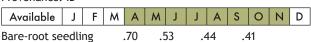
Carex mertensii (Merten's Sedge)

Densely tufted sedge, with attractive flowering spikes, found in dry to moist habitats of the northwest, from Alaska through British Columbia and Alberta south to northern California. Excellent ornamental and rain garden potential. Grows 1-2.5' tall. Provenance: 77-North Cascades

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Bare-root se	edli	ng		.57	.4	47		37	.:	33		

Carex nebraskensis (Nebraska Sedge)

Common sedge in wet areas east of the Cascades into the western Plains states. Tolerant of disturbances. Grows 1-3' tall. Provenance: ID





Rich in the early years of Fourth Corner Nurseries in our field of graminoids

Carex obnupta (Slough Sedge)

SIZE 50

GRADE

OBL

OBL

OBL

OBL West Coast evergreen sedge for moist to wet freshwater or brackish sites, 0-12" depth; rhizomatous and vigorous. Attractive sedge for shade or sun. In shallow water, creates important egg-laying habitat for amphibians. Containerize for ornamental ponds. Grows 2-3' tall. Provenance: 01-Coast Range, 02-Puget Lowland

UNIT PRICE

100+ 500+ 1000+

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Bare-root se	edli	ng		.57	.4	17	.3	37	.3	33 (Apr-1	(vol
Bare-root se	edli	ng		.80	.6	60	.4	1 6	.4	1 3 (Dec-	Mar)

Carex pachystachya (Chamisso Sedge)

Common western North American tufted sedge found in the transition zone from wet to dryish open habitats. Great potential rain garden species. Grows 0.5-2' tall. Provenance: 02-Puget Lowland



Bare-root seedling .33 .37

Carex pansa (Sand Dune Sedge)

West Coast rhizomatous sedge with sharply triangular stems found along sandy shorelines. Important species for helping stabilize sandy beaches. Has been used as a substitute for lawn grass in well-drained soils. Grows 0.5-1.5' tall.

Provenance: 02-Puget Lowland

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Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Bare-root se	edli	nø		70	ı	53	4	4	4	41		

OBL

Carex stipata (Sawbeak Sedge, Awlfruit Sedge)

North American native sedge forming solid clumps in moist areas. Attractive light green foliage, flowering stems to 4'.

Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Bare-root se	edli	ng		.57	.4	17	.3	37	.3	33 (Apr-N	lov)
Bare-root se	edli	ng		90	.6	55	F	55	.4	15 (I	Dec-l	Mar)

Carex tumulicola (Splitawn Sedge)

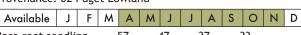
Western native tufted sedge with slowly-expanding /FACU rhizomes. Found in sunny dry meadows and open forests. Grows 1-3' tall.

Provenance: 02-Puget Lowland, 03-Willamette Vallev

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Bare-root se	edli	ng		.70		53	.4	14	.4	41		

Carex unilateralis (Lateral Sedge)

Western native rhizomatous sedge found in shallow FACW or seasonal wetlands. Grows ADD 1-2.5' tall. Provenance: 02-Puget Lowland



Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Bare-root se	edli	ng		57	.4	47	.:	37	.:	33		

Carex utriculata (Northwest Territory Sedge)

OBL Widespread North American sedge with lovely foliage, triangular stems, and flowering heads to 4'. Rhizomatous, forms large stands in perennially wet freshwater sites. In shallow water, creates important egglaying habitat for amphibians. Provenance: 77-North Cascades

J | F | M | A | M | J |

Bare-root seedling	.70	.53	.44	.41	
Carex vesicaria (Bli	ster Sec	<i>lae</i>) nle	356 566	Carey ex	rsic-

cata, these are distinct species; C. exsiccata grows in western Washington, and C. vesicaria is its very similar counterpart in eastern Washington.

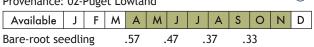
Carex vulpinoidea (Fox Sedge)

Clumping sedge found in moist meadows, marshes OBL and ditches in habitats scattered across the United States. Great potential rain garden plant. More common east of the Cascades but ours is from a Whatcom County population. Grows 1-3' tall. Provenance: 02-Puget Lowland

J F M A M J Available J A S O N D Bare-root seedling

Danthonia californica (California Oatgrass)

Bunchgrass found in moist to dry, sunny meadows across western North America. Grows 1-4' tall. Provenance: 02-Puget Lowland



Danthonia spicata (Poverty Oatgrass)

Widespread North American bunchgrass found in moist to dry, sunny meadows. Grows 0.5-2' tall. Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Bare-root se	edli	ng		.57		47	.3	7	. :	33		

NL

GRASSES, SEDGES, RUSHES

UNIT PRICE UNIT PRICE UNIT PRICE SIZE 50 100+ 500+ 1000+ **GRADE** SIZE 50 100+ 1000+ **GRADE** SIZE 50 100+ 500+ 1000+ Hierochloe odorata [Anthoxanthum hirtum] NLJuncus oxymeris (Pointed Rush) Deschampsia caespitosa (Tufted Hairgrass) (Sweetgrass) Tufted grass native to marshes and wet prairies **FACW** Beautiful Northwest rush with iris-like leaves, **FACW** across much of North America. Attractive narrow Aromatic grass traditionally used in crafts and spiritual cercommon west of the Cascades in wet meadows and foliage and 1-1.5' tall flowering plumes. Can handle emonies in both the Old and New World. From cultivation. lake shores, sometimes where it dries out in late summer. Strong rhizomes are important for erosion control Grows 1-2.5' tall. salt spray. Provenance: 02-Puget Lowland Provenance: 02-Puget Lowland and sediment retention. Grows from British Columbia to California, 1-3' tall. Potential rain garden plant. Available J F M A Available J F M A M J D ASOND Provenance: 02-Puget Lowland .33 Bare-root seedling Bare-root seedling .37 Available J F M A M J Distichlis spicata (Seashore Saltgrass, Inland Hordeum brachyantherum (Meadow Barley) Bare-root seedling .33 Saltgrass) FACW FACW Attractive clumping native grass, a common com-Juncus patens (Spreading Rush) Rhizomatous grass found in salt marshes and also ponent of salt marshes and moist meadow habitats dry upland areas across much of the western across the western United States and Canada. West Coast native rhizomatous rush. Excellent **FACW** United States. An important food source for waterfowl, host Grows 1-2.5' tall. Prefers moist soils but tolerates dry condichoice for wetland habitats that may dry out in plant for butterfly larvae (Wandering Skipper), and erosion late summer. Potential rain garden plant, grows 1-3' tions as well. Provenance: 02-Puget Lowland control in estuaries. Inland strains are extremely drought tall. Provenance: 03-Willamette Valley tolerant, and may be invasive in some situations. Available J F M A M J A S O N D Provenance: 02-Puget Lowland Available | J | F Bare-root seedling .33 Available | J | F | M | A | M | J | J | A | S | O | N | D Bare-root seedling .37 .33 Bare-root seedling Juncus acuminatus (Tapertip Rush) Juncus supiniformis (Hairyleaf Rush) **OBL** Common tufted rush found in lake margins and Eleocharis palustris (Common Spikerush) **OBL** meadows that remain wet all year. Grows across Compact rush, growing horizontally and rooting at **OBL** Widespread North American emergent with narrow North America, primarily on the West Coast and the nodes. Common in estuarine and freshwater dark green culms, rhizomatous and mat-forming in east of the Mississippi; 1-2.5' tall. wetlands and ditches, often where inundated in shallow freshwater habitats, from 0-2' deep. Cre-Provenance: 02-Puget Lowland the winter, drier in late summer. Native from Alaska south to ates important egg-laying habitat for amphibians. Containernorthern California, grows 0.5-1' tall. Available J F M A A S O N ize for ornamental ponds. Grows 1-2' tall. Provenance: 02-Puget Lowland Provenance: 02-Puget Lowland, 03-Willamette Valley Bare-root seedling .57 .37 .33 J F M A Available A S O N D Available | J | F | M | A | M | J | J | A | S | O | N | D Juncus arcticus ssp. littoralis [J. balticus] Bare-root seedling .33 **FACW** (Baltic Rush) Bare-root seedling .33 Juncus tenuis (Slender Rush) North American rush, strongly rhizomatous, com-Elymus glaucus (Blue Wildrye) mon in brackish marshes, tide flats, salt marshes, Common tufted rush in habitats across North America that are saturated in the winter but dry out Drought tolerant native bunchgrass for sunny to and freshwater habitats from lowlands up into the subalpine, partially shaded sites. Native across much of North in 0-12" of water. Grows 1-3' tall. in the summer. Potential rain garden plant. Grows America. Great for interplanting with trees and Provenance: 02-Puget Lowland 0.5-2' tall. shrubs in restoration plantings to cover bare soil. Populations Provenance: 02-Puget Lowland Available | J | F | M | Α SOND are genetically variable regarding leaf color and density. Available J F м SO Bare-root seedling Grows 1-6' tall. Provenance: 02-Puget Lowland Bare-root seedling .57 Juncus articulatus (Jointleaf Rush) Available J F M A M Koeleria macrantha (Prairie Junegrass) NL Common in freshwater wetlands and brackish **OBL** Bare-root seedling Silvery green spike seed heads grow to 1-2' on this perennial marshes across much of North America. Grows 0.5-1.5' tall. bunchgrass. Found from British Columbia south to north-Equisetum hyemale (Rough Horsetail, Scour-Provenance: 03-Willamette Valley ern Mexico, east to Ontario and Delaware. Junegrass grows ingrush Horsetail) mostly in sandy to rocky soils in sagebrush deserts, prairies, **FACW** Available J Rhizomatous horsetail, evergreen with unbranched and open forests to subalpine ridges. stems. Widespread across North America in moist Bare-root seedling .37 .33 Provenance: 03-Willamette Valley areas, grows 2-4' tall. Horsetails are one of our oldest plants, F M A Available J M J A | S | O | originating about 350 million years ago, and at that time Juncus balticus (Baltic Rush) please see Juncus arcticus Bare-root seedling .33 .37 they were over 40' tall! Horsetails absorb heavy metals and ssp. littoralis can be used in phytoremediation; they can be invasive in Leersia oryzoides (Rice Cutgrass) some situations. Juncus bolanderi (Bolander's Rush) **OBL** Provenance: 02-Puget Lowland Rhizomatous perennial grass forms thick stands. Common West Coast rhizomatous rush of wet **OBL** Widespread distribution across North America. F M ASOND Available | J | meadows and marshes, both freshwater and brack-Grows to 3' tall in wet ditches and floodplain areas. ish, with dark colored, spherical flower heads. Bare-root seedling Provenance: 03-Willamette Valley Creates important egg-laying habitat for amphibians. Grows Available J F M A 0.5-2.5' tall. Festuca idahoensis ssp. roemeri (Roemer's Provenance: 02-Puget Lowland Bare-root seedling .70 .53 Fescue) **FACU** Native bunchgrass for coastal areas from southern Available J F Μ Α OND Leymus mollis [Elymus mollis] (Dune Wild Rye) British Columbia to northern California with attrac-Bare-root seedling .57 tive, finely textured leaves. Grows 1-3' tall. Robust clump-forming perennial grass with strong **FACU** rhizomes. Grows 3-5' tall on coastal dunes and Provenance: 02-Puget Lowland Juncus effusus ssp. pacificus (Pacific Rush) beaches, and freshwater beaches; helps prevent Tufted rush with short rhizomes, found in moist to FACW F M A Available | J | М ASOND beach erosion. Native from Alaska across Canada, south from wet habitats, with water depths from 0-2'. Grows Bare-root seedling coastal Washington to the central coast of California, the .33 1-3' tall with flowers below the tip of the stem. Great Lakes area, and New England. This is the native subspecies of Juncus effusus in western Glyceria grandis (Reed Mannagrass) Provenance: 02-Puget Lowland North America. Not weedy and monoculture forming like the **OBL** Rhizomatous grass found in freshwater habitats F M A M J Available | J | widely spread European subspecies. AS 0 (0-1' deep) across most of North America. Creates Provenance: 02-Puget Lowland Bare-root seedling .70 important egg-laying habitat for amphibians. Grows F M A SOND Available J up to 6' tall, in sun or shade. Melica subulata (Alaska Oniongrass) Provenance: 02-Puget Lowland Bare-root seedling .57 .47 .37 .33 (Apr-Nov) Lovely tall stature, from clumps with short rhizomes found Available J F M A M J J A S O N D Bare-root seedling .80 .60 .46 .43 (Dec-Mar) in dry to moist meadows and forests.. Has an edible bulblike corm resembling but not tasting like onions. Grows from Bare-root seedling Juncus ensifolius (Daggerleaf Rush) Alaska south through western Canada and the western U.S. Widespread rhizomatous rush with iris-like leaves. Glyceria occidentalis (Northwestern Mannato California. FACW Found in freshwater habitats without deep stand-Provenance: 02-Puget Lowland OBL ing water. Grows 1-2' tall. This Mannagrass grows in freshwater habitats, and Available J F M A M J 0 Provenance: 02-Puget Lowland can live in permanent water as deep as 12". Other Bare-root seedling Available J F M A M habitats are marshes and seasonal pools. It grows quickly, has underground stems and floating leaves that reduce ero-Bare-root seedling .33 sion around lakes and streams. It is used in stormwater management. It occurs in British Columbia and south through the western states to California and Nevada.



Rich colleting Schoenoplectus tabernaemontani (Softstem Bulrush) seed



Clean seed of Schoenoplectus tabernaemontani (Softstem Bulrush) being planted in the field by Rich

Provenance: 03-Willamette Valley

Clumping grass with rhizomes found in freshwater habitats across North America. Grows to 6' tall, in sun or

Available J F M A M J

Provenance: 02-Puget Lowland

J F M A M

.70

OBL

J | A |

.37

SO

.33

Glyceria striata [G. elata] (Tall Mannagrass)

shade, versatile and good for soil stabilization.

Available

Bare-root seedling

Bare-root seedling

GRASSES, SEDGES, RUSHES

UNIT PRICE SIZE 50 <u>GRADE</u> 100+ 500+ 1000+

Schoenoplectus [Scirpus] acutus v. acutus (Hardstem Bulrush)

Bold, strongly rhizomatous bulrush, with dark green stems reaching 6'+ in standing water with depths up to 5'. Containerize for ornamental ponds. Widespread across North America; also used for wastewater filtration. Provenance: 02-Puget Lowland

OBL

OBL

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Bare-root se Bare-root se		_	-	57 90		47 65		37 55		,	,	Nov) Apr)

Schoenoplectus [Scirpus] americanus (Threesquare, American Bulrush) please see Schoenoplectus pungens.

Schoenoplectus [Scirpus] maritimus please see **Bolboschoenus maritimus**

Schoenoplectus pungens ['Scirpus americanus complex'] (Threesquare bulrush, Chair-maker's rush)

Widespread rhizomatous bulrush with triangular stems to 3' tall. Found in fresh or brackish marshes and wet habitats throughout North America. Tolerates inundation of 0-16". This species was long considered indistinct from S. americanus, but is now recognized as a separate species within the Scirpus americanus complex. Provenance: 02-Puget Lowland

		_										
Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Bare-root se	edli	ng		70		53		14		41		

UNIT PRICE SIZE 50 <u>GRADE</u> 100+ 500+ 1000+

Schoenoplectus tabernaemontani [Scirpus lacustris, S. validus] (Softstem Bulrush)

Widespread wetland plant across North America, spreading vigorously by rhizomes, saline and freshwater habitats, with 0-3' water depth. Grows to 6' tall. Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Bare-root se Bare-root se		_		70 90		53 55	.4 .5	4 5		,	Nay-N Dec- <i>P</i>	,

OBL

Scirpus cyperinus (Wool Grass)

OBL Graceful tufted rush for brackish and freshwater habitats, attractive flowering plumes reaching 4-6'. Creates important egg-laying habitat for amphibians. Excellent for ornamental ponds. Scattered populations across the Pacific Northwest. Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Bare-root se	nø		57		47		37		33			

Scirpus microcarpus (Small Fruited Bulrush)

OBL Common flat-leaved rhizomatous bulrush in wet meadows and shallow freshwater, 0-18", across western and northern North America. An important wildlife plant. Creates egg-laying habitat for amphibians. Grows 2-4' tall.

Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Bare-root se	edli	ng		57	.4	17	.3	7	.3	3		

100+ 500+ 1000+ <u>GRADE</u> SIZE 50 Sparganium emersum (Simplestem Bur-reed) please see

UNIT PRICE

AQUATICS

Triglochin maritima (Seaside Arrowgrass) Rhizomatous perennial with fleshy, grass-like leaves OBL and spikes of yellowish flowers. Common in tidal marshes and mudflats along the coasts, and across North America in freshwater moist meadows. Grows 1-2' tall. Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Bare-root se	ng		70		53		44		.41			

Typha latifolia (Common Cattail)

OBL Widespread across North America; perennial with long, flat leaves, persistent seed spike to 6' tall, found in all types of shallow water habitats. Provides good cover and food for wildlife, but does tend to take over. Also used for water quality treatment. Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Bare-root se	edli	ng		.57		47	.;	37		.33 (Apr-l	(vov
Bare-root se	ng		.90		65	.5	55		45 (l	Dec-	Mar)	

AQUATICS

UNIT PRICE

100+ 200+

OBL

OBL

UNIT PRICE SIZE GRADE

A Note About Aquatics

Our emergent aquatic species are propagated from source identified wild-collected seed and cuttings.

Standard bundles contain 50 plants each. All stock is grown in wet boxes. It is helpful to remember that these plants are fragile. Their survival depends on being ready to care for your plants as soon as they arrive. We cannot ensure survival after plants have left our care.

Alisma triviale (Northern Water Plantain)

OBL An emergent perennial in mud and shallow freshwater wetlands (0-2') with long-stemmed oval leaves from basal rosette. Delicate branching stems to 3' of white flowers in summer. Provides important food and habitat for waterfowl, fish, and wildlife. Provenance: 02-Puget Lowland

	Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
F	lug	2.	.00										

Comarum palustre [Potentilla palustris] (Purple Marshlock, Marsh Cinquefoil)

Circumboreal, especially in northern regions; lake and stream margins, wet meadows, and bogs from sea level to subalpine. Prostrate stems, sometimes floating, to 3' from sturdy rhizomes. Flowers 1", dark red to purple in summer.

Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Plug	2	OΩ										

Lysichiton americanus (Skunk Cabbage)

The giant golden spathes lurking around the swamp amongst huge fleshy leaves are unmistakable. Swamp Lantern is another common name. Provenance: 02-Puget Lowland

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Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
	-											

Plug 1.50

Menyanthes trifoliata (Buckbean)

OBL Western North America and again in the Great Lakes region across to Maine and Newfoundland. White flowers in May and June. Stems 6-18" long. Shallow water in bogs, ponds, and lakes. Thick, creeping rhizomes, with leaves and stems that rise up out of the water 6-12".

Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Plug	2.0	00										

50 100+ 200+

Nuphar lutea ssp. polysepala (Rocky Mountain Pond-lily)

SIZE

Aquatic perennial with floating or submerged heart-shaped leaves and thick rhizomes 3-6' long. Single, waxy yellow flowers floating on long stalks from the rhizomes. Grows in lakes and slow-moving water from Alaska south through western British Columbia, down to California and across to the Rocky Mountains, from lowlands up into the montane.

e. 02-Burget Lowland

riovenance.	UZ-	ruge	et Lu	wiai	iu							
Available	J	F	М	Α	М	J	J	Α	S	0	Z	D

4.00 Plug

OBL

OBL

GRADE

Oenanthe sarmentosa (Water Parsley)

OBL White flowered perennial with stems up to 3' along stream sides and in shallow-water wetlands. Creates important egg-laying habitat for amphibians. Adds interest and wildlife value to ornamental ponds. Native from Alaska south to California, and west of the Coast-Cascade Mountains. Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Bare-root se	edli	ng				80		54		.40		

Sagittaria latifolia (Broadleaf Arrowhead, Wapato)

An emergent, rhizomatous perennial that grows to 4' in shallow freshwater wetlands (6-12" deep) across North America, and produces white or bluish edible tubers that were a food source for many indigenous people. Emergent leaves arrow-shaped, submerged leaves linear, from a basal rosette, white flowers in late summer and early fall. The seeds and tubers offer food for many different birds, muskrats, and beavers, while the foliage provides cover for fish and aquatic insects. Used in phytoremediation; the plant extracts over-abundant nutrients and heavy metals from sediment and water.

Provenance: 02-Puget Lowland, 03-Willamette Valley

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Tuber	1.	00										



Rich with his Sagittaria latifolia (Broadleaf Arrowhead, Wapato) tubes in his homemade pond

Sparganium emersum (Simplestem Burreed)

SIZE

Circumboreal rhizomatous perennial for wet ground with up to 3' of standing freshwater. Provides excellent habitat for wildlife and also takes up pollutants readily in bioswales and water quality detention ponds. Stems and leaves float, grows to 6' in length. Provenance: 02-Puget Lowland

UNIT PRICE

100+

200+

OBL

50

		_											
Available	J	F	М	Α	М	J	J	Α	S	0	Z	D	
Bare-root se	edli	ng				90	.6	50		47			

Veronica americana (American Speedwell)

OBL Common blue flowered perennial in wetlands, stream edges, and other wet habitats across North America, except absent from the U.S. southeast. Grows from a creeping rhizome, with stems 4-36" long, prostrate to ascending, sometimes partially submerged. Blooms May to July.

nance: 02-Puget Lowland

GRADE

riovenance.	UZ-	ruge	et LO	wia	IIU							
Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Bare-root se	edli	ng			3.	30		54		.40		



Tube of Lysichiton americanus - Skunk Cabbage



Sparganium emersum (Simplestem Bur-reed)

BULBS, RHIZOMES, TUBERS

UNIT PRICE 100+ 500+ 1000+

A Note About Bulbs, Rhizomes and **Tubers**

All our bulb, rhizome, and tuber offerings are propagated from carefully tracked seed collections, and we only grow species plants, not hybrid varieties. Larges are blooming size and are typically four or more growing seasons old. Smalls (available for some species) are 2-3 years old and may not bloom in the first year. Most bulbs are harvested in late summer and available for sale through the fall. Fall is the optimal time to replant your bulbs—for best quality and assurance please place your order in Spring but no later than September 15th so that we can dig and prepare your order while the bulbs are dormant. We have taken many precautions to ensure our bulb stock is healthy, and free of nematodes and viruses. Standard bundles contain 50 plants each.

Allium acuminatum (Taper-tip Onion, Hooker's Onion)

Delightful rose-colored flowers, typical onion scent. Found in open, rocky sites from the Pacific Coast to the Rockies. Grows 4-12" tall. Easily divided. Provenance: 02-Puget Lowland

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Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Large				80		72		56		40		

Allium amplectens (Narrowleaf Onion)

Pink to white nearly spherical clusters of flowers on 8-15" stems. Native from British Columbia south to California, on both sides of the Cascade Mountains crest. Grows in open meadows and dry slopes. Provenance: 03-Willamette Vallev

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Large				80		72		56		40		

Please see our HERBACEOUS PERENNIALS section for more Allium species

Brodiaea please also see Dichelostemma or Triteleia

Brodiaea coronaria (Crown Brodiaea)

Beautiful bell-shaped purple flowers bloom June to FACW July. Native from Washington to California, grows up to 18" tall. Produces many offsets. Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Large				80		72	ı	56		40		

Camassia leichtlinii ssp. suksdorfii (Suksdorf's Large Camas)

Edible bulb, with showy 2-4' stems of blue flowers. Native from British Columbia to California and Nevada. Likes "spring wet, summer dry" conditions. Provenance: 03-Willamette Valley

						-							
Available	J	F	М	Α	М	J	J	Α	S	0	Z	D	
Small			.8	30		72	.5	56		.40			
Large			1	.10		99	.7	77		.55			



Fritillaria affinis (Checker Lily)

UNIT PRICE 100+ 500+ 1000+

Camassia quamash spp. maxima (Common Camas)

GRADE

Bright to deep bluish-violet flower spikes with deeply buried bulbs. Generally found in deep soils in wet meadows, fields, and rocky, coastal bluffs, from southern British Columbia through the western states. Likes "spring wet, summer dry" conditions. Grows 1-2' tall. Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Small				80		.72		56	.4	40		
Large			1	1.10		.99		77		55		

Delphinium menziesii (Menzies' Larkspur)

Deep blue larkspur with a white face native to coastal bluffs and prairies of the Pacific Northwest. Grows 1-3' tall. Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Small				1.00		.90		70	.5	50		
Large				1.20	•	1.08		84	.6	0		

Delphinium nuttallii (Upland Larkspur)

Stunning deep blue northwest Delphinium associated with Garry Oak meadows. Found on coastal bluffs and lowland outwash prairies in Washington and Oregon, Grows 1-2' tall. Provenance: 02-Puget Lowland

i ioveriance.	UZ I	ugo		witai	Iu								
Available J F M A M J J A S O N D													
Small 1.00 .90 .70 .50													
Large	Small 1.00 .90 .70 .50												

Delphinium trolliifolium (Columbian Larkspur)

Deep blue Delphinium with white highlights appearing in moist woods and along stream banks from the Columbia River Gorge to the northern coast of California. Grows 2-4'

Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Small Large				1.00 1.20		.90 1.08		70 84		50 50		

Dodecatheon hendersonii (Broad-leaved Shooting NL Star, Mosquito Bills)

Lovely wildflower with ovate leaves found in grassy meadows with well-drained soil, from southern British Columbia to California. Cyclamen-like flowers are a beautiful magenta. Grows 4-20" tall.

Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Bare-root se	edli	ng	1	1.00		90		70				

Dodecatheon pulchellum (Darkthroat Shooting

Easy to grow western native found from coastal balds rocky outcrops up into alpine meadows. Numerous magenta flowers, with backswept petals like little rockets, top a rosette of fleshy lance-shaped leaves. Likes "spring wet, summer dry" conditions, sunny or partially shaded sites.

Provenance: 02-Puget Lowland

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Available	J	F	М	Α	М	J	J	Α	S	0	Ν	D
Bare-root se	edli	ng	1	1.00		90		70				

Erythronium grandiflorum (Yellow Avalanche

Native to the western states, this bulb has graceful yellow lily flowers emerging early in the spring. Emerges at snowline in alpine meadows. Grows 8-12" tall. Provenance: 77-North Cascades

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Small			1	1.50								
Large			•	2 00								



Erythronium grandiflorum (Yellow Avalanche Lily)

Fritillaria affinis (Checker Lily)

GRADE

FACW

NL

NL Pendant flowers, mottled purple and green. Found in open grassy areas and lightly shaded forest openings, across the PNW and beyond from Washington to California, and Idaho. Grows 1-2' tall. Best in moist cool spot with good drainage. Provenance: 02-Puget Lowland

50

UNIT PRICE

100+ 500+

1000+

NL

Available	J	F	М	Α	М	J	J	Α	S	0	N	D
Small												
Large				2.00)							

Fritillaria pudica (Yellow Bells, Johnny Jump Up) NL

Eastern Cascades to Rocky Mountain native bulb with delicate fragrant yellow flowers that usher in spring. Grows 4-12" tall.

Provenance: 05-Sierra Nevada

Provenance: 02-Puget Lowland

Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Small 1.50												
Large	2.00											

Lilium columbianum (Columbia Lily)

Northwest lily has bright orange flowers with dark speckles and lovely fragrance. Native from Washington to northern California, Montana. Grows to 4' tall.

	Available	J	F	М	Α	М	J	J	Α	S	0	N	D
	Small				1.50								
Large					2.00)							

Triteleia grandiflora v. grandiflora [Brodiaea douglasii] (Large flower Triteleia)

Bright blue umbels grace meadows and hillsides most commonly east of the Cascades in Washington and Oregon, east to Montana and Utah.

Provenance: 09-E. Cascade Slope/Foothills

					•							
Available	J	F	М	Α	М	J	J	Α	S	0	Z	D
Large				.80		72		56	.4	10		

Triteleia [Brodiaea] hyacinthina (Fool's Onion, White Brodiaea)

Large clusters of lovely white flowers on 1-3' stems. Prefers spring wet, summer dry conditions. Native from British Columbia to California, Idaho. Potential rain garden plant. Provenance: 78-Klamath Mountains

SOND Available F M A MJ



Rich scaling up production of checker lily (Fritllaria affinis)

