Cultivated plants in a changing climate Nativars, Cultivars, and **Ornamentals** 

Presenter: Rachel Schroeder



#### Master Gardener Program

WASHINGTON STATE UNIVERSITY EXTENSION

## **Climate Woes**



Our area is experiencing more extremes in weather, including drier summers and wetter winters.

This poses challenges to natural ecosystems as well as those in our lawns and gardens.

Some plants suffered due to the extended period without rain and record high temperatures that we experienced the past few months.

We can choose plants for our gardens that can tolerate the extremes in water availability.

https://today.oregonstate.edu/news/how-care-heat-damaged-plants

# "Plant Right for Your Site"

Natural Yard Care | https://snohomishcountywa.gov/1097/Natural-Yard-Care

Step 2 - Plant Right for Your Site

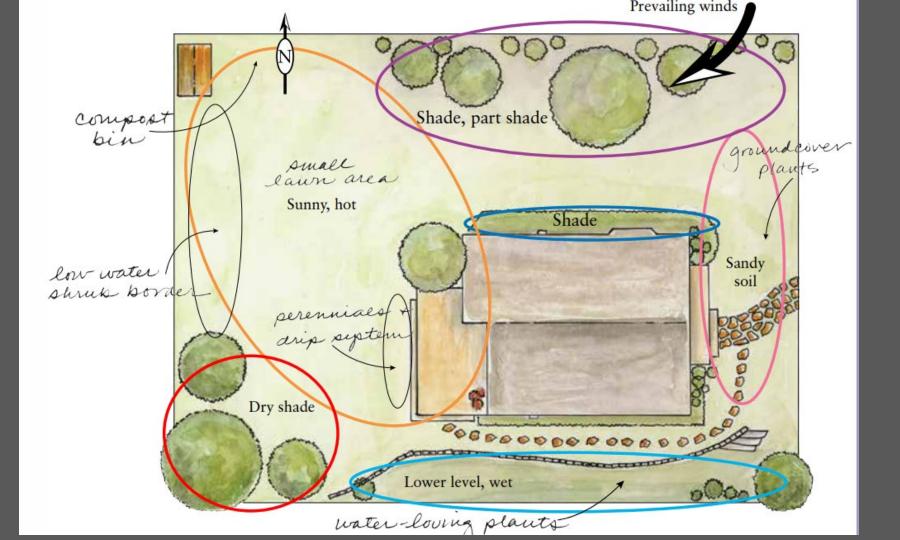
Reduce maintenance in your garden by selecting pest- and disease-resistant plant varieties that will thrive in your site's unique conditions (sun, shade, moisture, use).

Choosing the Right Plants (PDF)

https://snohomishcountywa.gov/DocumentCenter/View/7255/Choosing-the-Right-Plants

The Plant List (PDF)

https://snohomishcountywa.gov/DocumentCenter/View/7262/The-Plant-List



### Wet Winter/Dry Summer Plants

The following plants are some of the best at faring well in very wet winter soils—often due to slow drainage or constant seepage—and dry summer soils. Plants with an asterisk\* can even handle standing water; all will thrive with good summer drainage. *Refer to page 12 for additional resources to help you find plants that match your garden's conditions.* 

	Trees			Sun	Partial Shade	Shade	↓ Deciduous ♦ Evergreen	Mature Tree Heightssmallup to 30 feet tallmedium30 to 70 feet talllargemore than 70 feet tall	
•	Acer circinatum	VINE MAPLE	Ν	淤	※	ථ	Ą	small; great fall color	
۲	Betula albosinensis var. septentrionalis	CHINESE RED BIRCH		崇	栥		4	medium	
•	Betula nigra	RIVER BIRCH		渁	栥		Ą	large	a seconde
•	Betula utilis var. jacquemontii	HIMALAYAN WHITE BIRCH		渁	栥		Ą	medium; gorgeous bark	
•	Crataegus laevigata and cultivars	ENGLISH HAWTHORN		淤	栥		Ą	small	
	Liquidambar styraciflua	AMERICAN SWEET GUM		渁	条		Ą	large	Participation (
•	Metasequoia glyptostroboides*	DAWN REDWOOD		淤	栥		Ą	large; deciduous conifer	
•	Pinus contorta var. contorta	SHORE PINE	Ν	淤			•	large	Here Here
ø	Quercus palustris	PIN OAK		淤			Ą	large	

Betula albosinensis var. septentrionalis

#### Shrubs

	Aronia arbutifolia	RED CHOKEBERRY		淤	栥	4	autumn berries
	Aronia melanocarpa	BLACK CHOKEBERRY		淤	栥	Å	autumn berries
	Aronia $ imes$ prunifolia	PURPLE CHOKEBERRY		淤	栥	Å	autumn berries
ø	Berberis darwinii	DARWIN'S BARBERRY		淤	栥	4	dense habit
ø	Berberis thunbergii and cultivars	JAPANESE BARBERRY		淡	栥	Å	'Rose Glow' is a GPP
ø	Cornus alba and cultivars*	REDTWIG DOGWOOD		淡	栥	Å	'Elegantissima' is a GPP
ø	Cornus stolonifera and cultivars*	RED OSIER DOGWOOD	Ν	淤	栥	Ą	twig color best in sun
	Gaultheria shallon	SALAL	Ν	淤	栥	4	forms a thicket
ø	Myrica californica	CALIFORNIA WAX MYRTLE	Ν	淤	栥	4	birds like the berries
ø	Physocarpus opulifolius	PURPLELEAF NINEBARK		淡		Å	'Diabolo' is a GPP
	Potentilla fruticosa	SHRUBBY CINQUEFOIL		淤		Ą	long bloomtime
ø	Sambucus nigra and cultivars	BLACK ELDERBERRY		淤	栥	Ą	'Gerda' is a GPP
	Spiraea douglasii	DOUGLAS'S SPIREA	Ν	淤		Ą	vigorous; forms a thicket
	Spiraea $ imes$ vanhouttei	BRIDAL WREATH SPIREA		淤		Å	pretty white flowers
	Symphoricarpos albus	SNOWBERRY	И	淤	栥	Ą	white berries; forms a thicket



 $\oint$  = a Great Plant Picks selection N = Pacific Northwest Native Plant Berberis darwinii

	Perennials,			Sun	Partial S	Shade	Decid		
	Grasses and More			Ś	e.	S	4		_
•	Acorus gramineus 'Ogon'*	GOLD VARIEGATED SWEETFLAG		崇	來	0	٨	semi-evergreen; brighter in sun	
	Anemone nemorosa	WOOD ANEMONE		淤	茶	0	4	dormant in summer	
	Bergenia species and hybrids			漴	茶	3	*	bold leaves	
•	Blechnum penna-marina	ALPINE WATER FERN		淤	茶	3	4	in sun, needs more water	
•	Blechnum spicant	DEER FERN	N	澿	<u>we</u>	ථ	*	in sun, needs more water	11
•	Carex 'Ice Dance'*	VARIEGATED SEDGE		淤	茶	0	4	vigorous groundcover	1
	Carex oshimensis 'Evergold'*	VARIEGATED JAPANESE SEDGE		淤	举	3	4		
	Erythronium revolutum	PINK FAWN LILY			茶		4	dormant in summer	
	Erythronium 'Pagoda'	YELLOW FAWN LILY			茶		4	dormant in summer	
	Hemerocallis cultivars	DAYLILY		灓			4	needs water until flower buds develop	
	Limnanthes douglasii	POACHED EGG PLANT		淤			4	spreading, self-seeding; dormant in summer	
	Luzula nivea	SNOWY WOODRUSH		淤	举		4	unusual texture	
	Luzula sylvatica	GREATER WOODRUSH			茶	0	4	best with occasional summer water	

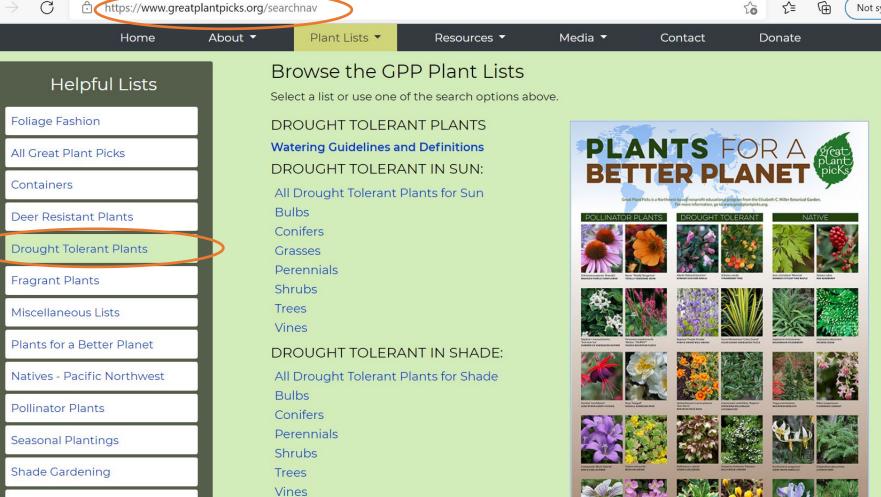
Acorus gramineus 'Ogon'

	Osmunda regalis and cultivars*	ROYAL FERN				ත	4	best with occasional summer water	
	Polystichum munitum	WESTERN SWORD FERN	И	漛	茶	ත	4	best with occasional summer water	
•	Polystichum polyblepharum	JAPANESE TASSEL FERN				ත	4	best with occasional summer water	
•	Polystichum setiferum Divisilobum Group and others	SOFT SHIELD FERN			茶	ත	4	best with occasional summer water	-
•	Waldsteinia ternata	BARREN STRAWBERRY		漴	來	ත		semi-evergreen; out- competes many weeds	A SE
		● = a Great Pla	unt P	icks se	election	1			Polystichun



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Small Gardens

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## **Cultivated Plants**

"Nativars"

"Cultivars"

"Ornamentals"

## Manzanita



Arctostaphylos x densiflora 'Howard McMinn' in Paul Bonine's garden. Photo by Paul Bonine.

#### From MG Karen Panek:

Arctostaphylos, or Manzanita, are native to Oregon and California- there are so many beautiful cultivars, tall, shrubby, small... Oregon State has a test project looking for nice cultivars. One of my favorites is "Louis Edmonds."

They are mostly evergreen, have beautiful flowers and fruit, and put up with dry conditions - the word is "Very Well Drained " and poor soils. In fact, they need to be dry.

https://landscapeplants.oregonstate.edu/plants/arctostaph ylos-manzanita

https://xeraplants.com/arctostaphylos/

As far as I am concerned, this is a landscape plant for the future, dryer, Puget Sound.

# More Examples

#### From MG Mandy Carter:

*Thuja plicata* cultivars are so cool/diverse/weird! There are more than I listed here, and you would never in a million years guess they are cultivars of our Western Red Cedar. (Whipcord, Gruene Kugel, Zebrina, Forever Goldie, etc)

My other would be the lady fern *Athyrium filix-femina* cultivars, look at these as well - they are super fun. (Frizelliae, Victoria, Lady in Red)







https://en.wikipedia.org/wiki/Athyrium#/media/File:Athyrium\_filix-femina0.jpg

Arctostaphylos uva-ursi 'Vancouver Jade'	Vancouver Jade Kinnikinnick
Armeria maritima 'Nifty Thrifty'	Variagated Sea Thrift
Armeria maritima 'Rubrifolia'	Red-leaved Sea Thrift
Aruncus dioicus 'Sylvester'	Sylvester Goat's Beard
Athyrium filix-femina 'Frizelliae'	Tatting Fern
Athyrium filix-femina 'Lady in Red'	Lady in Red Fern
Athyrium filix-femina 'Victoria'	Victoria Lady Fern
Calocedrus decurrens' Maupin Glow'	Maupin Glow Incense Cedar
Cornus sericea 'Flaverimea'	Yellow Twig Dogwood
Cornus sericea 'Kelseyi'	Kelsey Dogwood
Camissia quamash 'Blue Melody'	Blue Melody Camas
Dicentra formosa 'Aurora'	Aurora Bleeding Heart
Dicentra formosa 'Bacchanal'	Bacchanal Bleeding Heart
Dicentra formosa 'King of Hearts'	King of Hearts Bleeding Heart
Dicentra formosa 'Langtrees'	Langtrees Bleeding Heart
Fragaria chiloensis 'Lipstick'	Lipstick Coastal Strawberry
Gaultheria procumbens 'Berry Cascade'	Berry Cascade Wintergreen
Gaultheria procumbens 'Peppermint Pearl'	Peppermint Pearl Wintergreen
Gaultheria procumbens 'Winter Splash'	Gaultheria Winter Splash
Heuchera micrantha 'Palace Purple'	Palace Purple Coral Bells
Picea sitchensis 'Papoose'	Papoose Sitka Spruce
Ribes sanguineum 'King Edward VII'	King Edward VII Red Flower
Ribes sanguineum 'White Icicle'	White Icicle Flowering Currant
Ribes sanguineum 'Elk River Red'	Elk River Red Flowering Current
Rhus thyphina 'Tiger Eyes'	Tiger Eyes Sumac
Sambucus racemosa 'Lemony Lace'	Lemony Lace Golden Elderberry
Tolmiea menziesii 'Cool Gold'	Cool Gold Piggyback Plant
Thuja plicata 'Forever Goldie'	Thuja Forever Goldie
Thuja plicata 'Gruene Kugel'	Dwarf Western Red Cedar
Tsuga herterophylla 'Thoresen's Weeping'	Thoresen's Weeping Hemlock
Tsuga mertensiana 'Elizabeth'	Elizabeth Mountain Hemlock
Vaccinium ovatum 'Scarlet Ovation'	Scarlet Ovation Evergreen Huckleberry



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