

Heritage Gardens... in Chelan County



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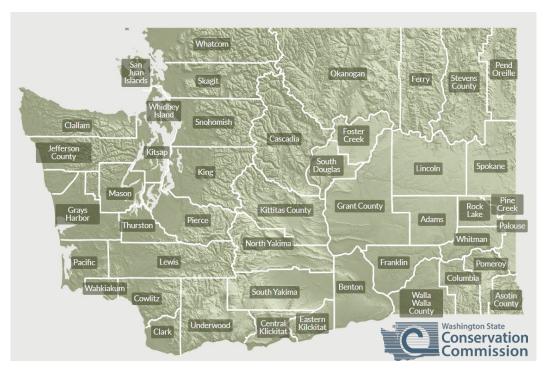
https://cascadiacd.org





Conservation District

- ▶ 45 in Washington (39 counties)
- Governed by five board members (farmers, landowners, local citizens)
- Engage people with voluntary actions that keep our air, water, soil, habitats, and farmland healthy for all.

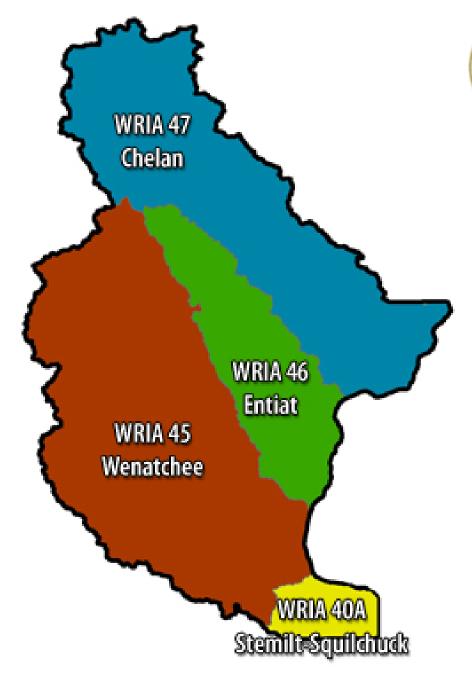


NRCS



- "Helping People Help the Land"
- Offices in Wenatchee, Waterville, Ellensburg, Ephrata, & Yakima







Celebrating 75 Years of Conservation! 1948-2023

Check out the interviews below from some of the people who were instrumental in getting Cascadia where we are today!

More content to come throughout 2023!



Peggy Entzel

Employed at Cascadia from 1986-2020

Can you think of a project or program that feels like it changed the history, or future, of Chelan County?

During a water quality project DOE and NRCS discovered the soil survey were not working for farmers as expected in Chelan Basin. We worked with NRCS to re map the soils in the basin, which improved the way producers were able to manage their crops, water, and nutrients well into the future. One example is all the pumice in the soils from Glacier Peak volcanic deposits made for very unique water holding capacity in different areas in the basin. Remapping the soils helped individual farmers better conserve water, and better understand where crops should be located in the basin.

Once we finalized the Entiat plan implementation started and it set in motion 30+ years of conservation implementation.

The best part was watching how interested the landowners in the Entiat Valley were in getting the work done in the plan. It wasn't just to check a box, people wanted to get the work done so that the resources were improved. People really wanted to make sure farming remined sustainable in the valley, to bring fishing and healthy salmon populations back, etc.

Full interview HERE

What was the district like when you started? Main focus of projects/programs/resource concerns, etc?

Primarily an administrator of state funded programs. Watershed planning and fish habitat restoration work was just getting started.

Larry Cordes

Our Services











Creating Gardens that Inspire

Heritage Gardens

- ▶ WATER-SMART LANDSCAPING
- ▶ Honoring the Heritage of the Columbia River Basin





► The Heritage Garden Program was created by the Benton Conservation District in partnership with the Columbia Basin Chapter of the Washington Native Plant Society (WNPS).







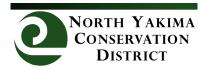
Where are Heritage Gardens found?

















- ► In the Summer 2022, the Program expanded into Chelan County in partnership with Cascadia CD and the Wenatchee Valley Chapter of the WNPS.
- Funding for Heritage Gardens in Chelan County is provided by:
 - Washington State Conservation Commission
 - National Association of Conservation Districts - Urban Ag Conservation grant

What are Heritage Gardens?

Heritage Gardens are landscaped areas designed to honor the cultural and natural heritage of the Columbia River Basin while utilizing sustainable gardening practices.



What is the purpose of the Heritage Garden program?

- Promote the use of native plants, especially those of cultural significance.
- ► Promote low-water-use landscaping & efficient irrigation methods.
- ► Educate our community about the history and biodiversity of the Columbia River Basin.





By Kmusser - self-made, based on USGS and Digital Chart of the World data., CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=3844725

Heritage Garden Process

- Elements of creating a Heritage Garden:
 - ▶ Flora
 - ▶ Fauna
 - Geology
 - Cultural

Certification Checklist

- Required Practices
- Recommended Practices (technical assistance)
- ► A landscape meeting the minimum requirements will receive a yard sign.



Heritage Garden Certification Checklist

Heritage Gardens

are landscaped areas designed to honor the cultural & natural heritage of the Columbia River Basin while utilizing sustainable garden practices.

Dear Homeowners and Garden Enthusiasts.

The Benton and Franklin Conservation Districts (CD) in partnership with the Columbia Basin Chapter of the Washington Native Plant Society want to invite you to display your commitment to water-smart landscaping and your appreciation of our natural and cultural heritage by certifying your garden as a Heritage Garden.

Use the certification checklist below to document relevant features of your garden. The Benton and Franklin Conservation Districts will use this information in conjunction with a visit to your property to evaluate your garden for certification. Certified gardens will receive a yard sign. Heritage Gardens that exceed the minimum requirements may also be featured on the Heritage Garden Wall of Fame on the FCD or BCD website.

Garden Information

This Section to be completed by the Homeowner. You are encouraged to provide supporting information as an attachment (please reference the practice number). This will assist in the evaluation. Be sure to provide us with at least one contact method, phone or email address.

ame		Phone	Date	_
ddress		City	Zip	
mail	(print carefully)			

Location of garden if different than the address above:

Required Practices

The following practices are required to obtain a Heritage Garden Certification. Check "Yes" if your garden meets the practice. If the practice does not apply mark not applicable (NA) and provide a brief explanation following the table as to why this practice does not apply.

Yes	NA	Required Practices - To the best of my knowledge, my proposed Heritage Garden:	
		 Does not contain any <u>prohibited plants</u>. See Washington State-listed Noxious Weeds on the USDA Plant Data website at http://plants.usda.gov. 	
		2. Contains at least 5 different species of plants.	
		Places plants in locations that match their requirements for water, light, soils conditions, etc.	

Form: September 2012

Heritage Garden Process

Objectives

- Goals
- Maintenance
 - ► Short & long-term
- Square footage
- Level of difficulty
- Availability
- Formal vs. Informal
 - Themed
 - Paths, access points
- Site preparation
- Timeline

Site Conditions

- Sun exposure or shaded
- Wind exposure
- Soil type
- Sloped or level, elevation
- Wildlife or pets
- Busy or quiet street
 - ► Location neighbors
- Access to water
- Non-natives you wish to keep





Questions?



Flora

- ► At least 5 different species of plants
- ▶ 75% native to Washington State
- 30% needing less than 10 inches of water annually
- No more than 10% needing more than 30 inches of water annually
 - Customize planting designs to microclimates throughout Chelan Co.
- Blooming throughout the growing season













Fauna

Include at least 2 plant species having wildlife value









- At least 1 plant species of cultural significance
- Cultural Significance -
- ► Indigenous Peoples
 - Incorporate the ethnobotany of the tribes into your Heritage Garden by including plants used for food, shelter, and medicine



- Explorers and Botanists
 - ► Species noted in Meriweather Lewis' journals or by other early explorers & botanists



Munro's Globemallow Sphaeralcea munroana, SPMU2

- Wildflower
- < 10 inches annual precipitation, Sun</p>
 - Overwatering causes stems to lie flat
 - Susceptible to powdery mildew and fungal rust
- Native to WA and iconic to the Columbia Basin
- ▶ 32" H x 30" W
- Blooms May-August
- ► Easy to maintain, drought tolerant, reseeds itself









Golden Currant Ribes aureum, RIAU

- Shrub
- < 20 inches annual precipitation, Sun light shade</p>
 - ▶ Prune to keep shape & fruit production
- ► Native to WA & entire US except the Southeast
- ▶ 8' H x 6' W
- Spring bloom
- Rhizomatous but not aggressive, easy to grow, "Acid-tasting golden"





"I find these fruits very pleasant particularly the yellow currant which I think vastly preferable to those of our gardens."

~Meriwether Lewis, 1805

Snow buckwheat Eriogonum niveum, ERNI2

- Sub-shrub
- < 10 18 inches annual precipitation, Sun</p>
- Native to WA, OR, ID
- ▶ 30" H x 30" W
- ► Fall bloom
- Easy to grow, drought tolerant, low maintenance, allow reseeds to grow for ever-expanding colony





Niveum in Latin means "snow-white"

Bluebunch Wheatgrass *Pseudoroegneria spicata*, PSSP6

- Graminoid
- < 10 20 inches annual precipitation, Sun light shade</p>
- Native to WA, OR, ID, Great Basin
 - ► Official State Grass of Washington & Montana
- ▶ 36" H x 12" W
- Dominant species in native shrub-steppe
- ► Fast-growing, easy maintenance, cut back last year's remnants to enhance vigor









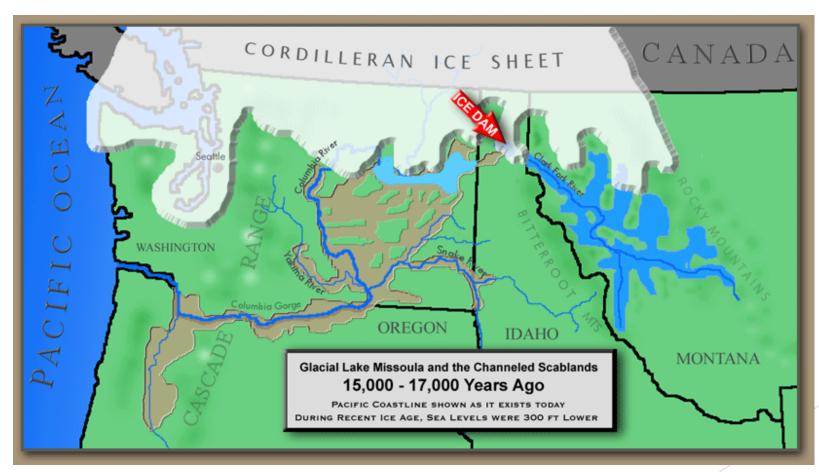
Important food for deer, elk, and cattle Larval host plant for woodland skipper butterfly

Several million years ago, one of the largest basaltic lava floods ever to appear on the earth's surface engulfed a large portion of the Pacific Northwest. Lava flows accumulated to a thickness of more than 6,000 feet.



Flows of the Columbia River Basalt Group Source: HUGEfloods.com

Glacial Lake Missoula impounded behind "Ice Dam". Another blockage occurred to the west where the Okanogan Lobe plugged the Columbia River's course creating Glacial Lake Columbia



Glacial Lake Missoula Source: HUGEfloods.com

Geological Features

- ► Basalt flows and ice-age floods shaped the predominate geological features of the Columbia River Basin.
- At least 1 geological feature.
 - ▶ Basalt columns
 - Large basalt for mulch and small crushed basalt for mulch and foot paths
 - ► Ice-age flood deposited erratics
 - ➤ Small to large boulder-sized granite carried on ice during the Montana floods. Dropped when the ice melted.
 - ▶ River rock
 - Basalt used as a bench



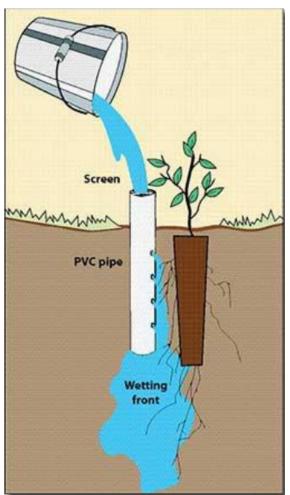




Other Required Practices - Irrigation

Irrigation system designed to apply appropriate amount of water to each planting zone.

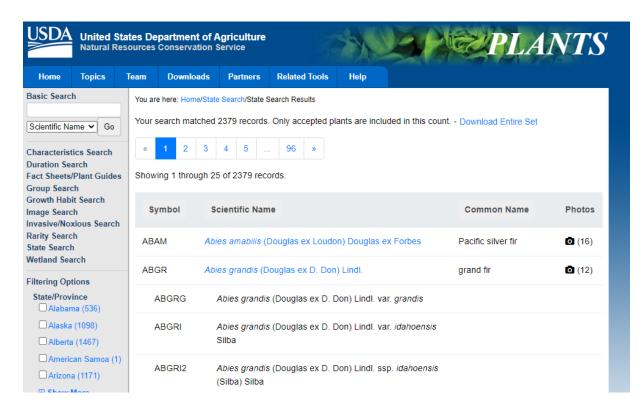
Initial watering to establish plants for gardens that do not require supplemental water.





Other Required Practices -**Weed Control**

- Does not contain any prohibited plants in Washington.
- See Washington State-listed Noxious Weeds on the USDA Plant Data website at http://plants.usda.gov





absinth wormwood	Artemisia absinthium
Austrian fieldcress	Rorippa austriaca
babysbreath	Gypsophila paniculata
black henbane	Hyoscyamus niger
blackgrass	Alopecurus myosuroides
buffalobur	Solanum rostratum
cereal rye	Secale cereale
common barberry	Berberis vulgaris
common catsear	Hypochaeris radicata
common groundsel	Senecio vulgaris
common St. Johnswort	Hypericum perforatum
common tansy	Tanacetum vulgare
common teasel	Dipsacus fullonum
curlyleaf pondweed	Potamogeton crispus
English hawthorn	Crataegus monogyna
English ivy - four cultivars	Hedera helix 'Baltica'.
only	'Pittsburgh', and 'Star', and
only.	H. hibernica 'Hibernica'
Eurasian watermilfoil	Myriophyllum spicatum x
hybrid	Myriophyllum sibiricum
evergreen blackberry	Rubus laciniatus
field bindweed	Convolvulus arvensis
fragrant waterlily	Nymphaea odorata
hairy whitetop	Lepidium appelianum
Himalayan blackberry	Rubus bifrons (Rubus
	armeniacus)
hoary cress	Lepidium draba
Italian arum	Arum italicum
Japanese eelgrass	Nanozostera japonica
jubata grass	Cortaderia jubata
jointed goatgrass	Aegilops cylindrica
lawnweed	Soliva sessilis
longspine sandbur	Cenchrus longispinus
medusahead	Taeniatherum caput-
	medusae
nonnative cattail species	Typha species
and hybrids (reminder,	
does not include the native common cattail.	
native common cattail, Typha latifolia)	
old man's beard	Clematis vitalba
oxeye daisy	Leucanthemum vulgare
Pampas grass	Cortaderia selloana
perennial sowthistle	Sonchus arvensis
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perennial sowthistle Sonchus arvensis		
reed canarygrass Phalaris arundinacea		
	reed canarygrass	Phalaris arundinacea

Class C Wee	ds continued				
Russian olive	Elaeagnus angusti				
scentless mayweed	Tripleurospermum inodorum				
smoothseed alfalfa dodder	Cuscuta approxima				
spikeweed	Centromadia pung				
spiny cocklebur	Xanthium spinosui				
spotted jewelweed	Impatiens capensi				
Swainsonpea	Sphaerophysa sal:				
thistle, bull	Cirsium vulgare				
thistle, Canada	Cirsium arvense				
tree-of-heaven	Ailanthus altissima				
ventenata	Ventenata dubia				
white cockle	Silene latifolia				
wild carrot (except where commercially grown)	Daucus carota				
yellow flag iris	Iris pseudacorus				
yellow toadflax	Linaria vulgaris				
To learn more about noxious weeds and noxious weed control in Washington Staplease contact:					
WA State Noxious Weed Control P.O. Box 42560 Olympia, WA 98504-2560 (360) 725-5764					
Email: noxiousweeds@agr.wa.d					

Website: http://www.nwcb.wa.gov

WA State Department of Agriculture

(509) 249-6973

Your County Noxious Weed Contro

Please help protect Washington's economy and environment from noxious weeds

Cover photo of Turkish thistle by Mark Porter, Oregon

Department of Agriculture

Turkish thistle. Carduus cinereus, is a new Class A noxious weed for 2021. This annual thistle is found close to Washington in northeastern Oregon and the adjacent area in Idaho. Eradication is required of Turkish thistle when found in Washington.

> List arranged alphabetically by: COMMON NAME

2021

Washington State

Noxious Weed List



Other Required Practices - Compliance

Complies with all County / City Codes, Laws, Ordinances, and HOA Rules (if applicable).











Questions?

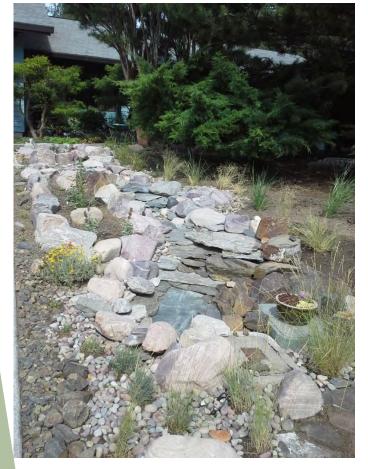


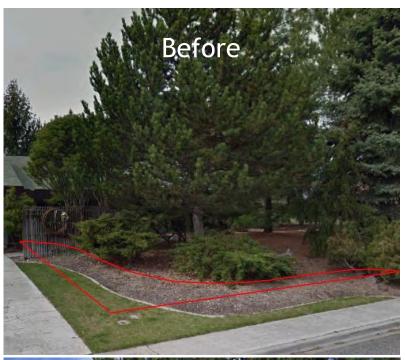
HG's come in all sizes & shapes!



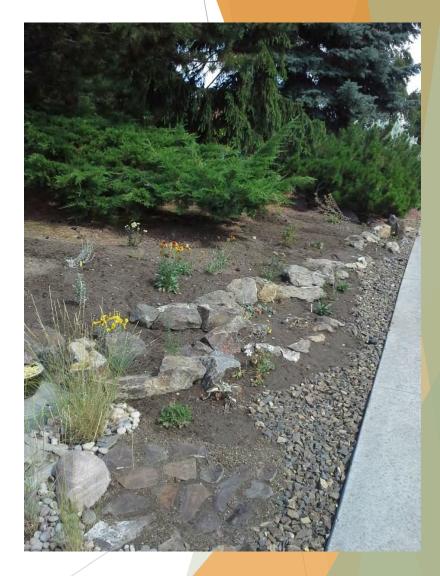


Cheryl's HG, Richland









Reg & Sheila's HG, Kennewick

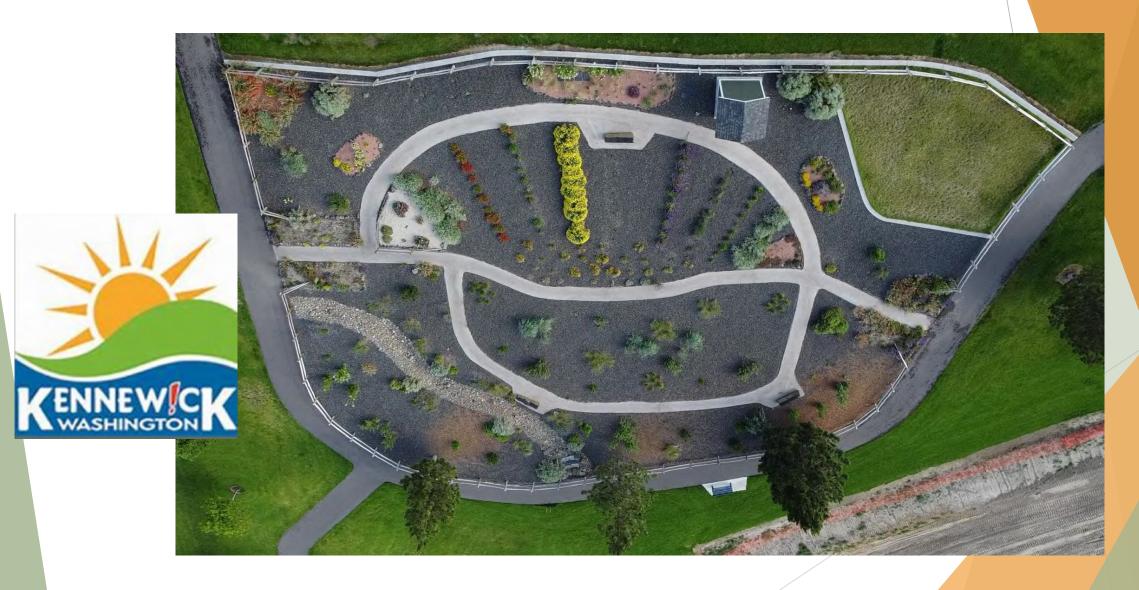


Marten's HG, Pasco





Municipality -Kennewick Hansen Park



Current Clients

- Demonstration gardens
 - ▶ WSU Ext. Master Gardeners
 - ► WNPS Wen Valley Chapter
- Landowners in Leavenworth
- Landowners in Wenatchee
- Rotary Clubs
- Non-profit organizations
- ► Technical assistance.
- ► No cost-share. No plant sale.







Photos: WA Conservation Commission

Rotary Clubs - Pollinator Highway

British Columbia to Washington







Saddle Rock TH Native Plant Garden, Wenatchee

▶ Volunteers wanted! Minimal commitment.





HERITAGE GARDENS OF THE COLUMBIA BASIN

WELCOME / ABOUT / TOUR HERITAGE GARDENS / RESOURCES /

HE COLUMBIA BASIN / CALENDAR / BLOG / CONTACT US



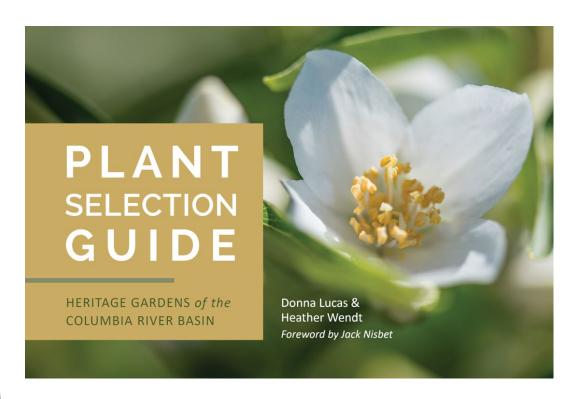
Our Services

Changing your landscape involves committing your time and financial resources. We recommend the following steps as you research whether a Heritage Garden is right for you.

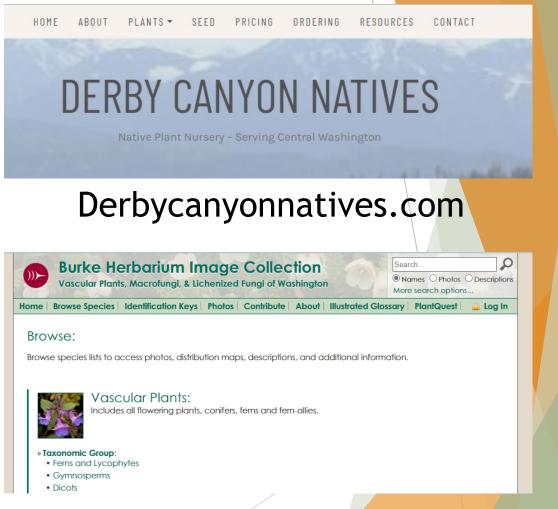
- · Visit existing gardens take a virtual tour as provided here or visit one in person. Its important to determine whether you like the look and feel of a low water-use landscape. Keep in mind Heritage Gardens can take on many different looks depending on the plants and materials you select.
- · Research the plants most native plants that we recommend are readily available from native plant nurseries but you are going to have to do some research to determine what plants you like.
- Determine your gardening aesthetic do you like lots of rock mulch or do you prefer a more informal look to your garden where plants are planted into the soil and allowed to re-seed.
- · Consider the amount of time and financial resources you are willing to expend Heritage Gardens can be fairly low maintenance but

Website hgcd.info

Plant Selection Guides



https://www.wnps.org/store



burkeherbarium.org/imagecollection/





Contact Us



Elizabeth Jackson elizabethj@cascadiacd.org

Hgcd.info

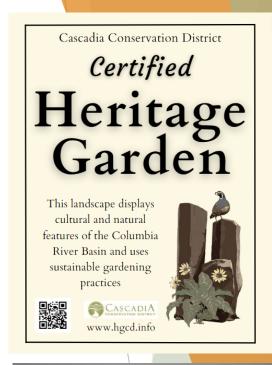
www.facebook.com/HeritageGardenProgram

April 1st & 22nd - Pybus Public Market

Blue

Cascadia Conservation District Certified Heritage Garden This landscape displays cultural and natural features of the Columbia River Basin and uses sustainable gardening practices www.hgcd.info

Cream



Cream

fade



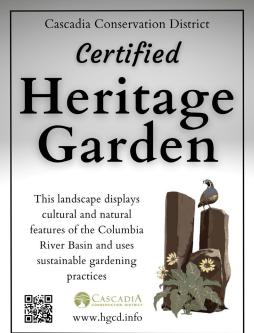
Audience Poll:

Question #1 Color

Green fade



White fade



Audience Poll: Question #2 Layout

Vertical



Horizontal



Questions?

