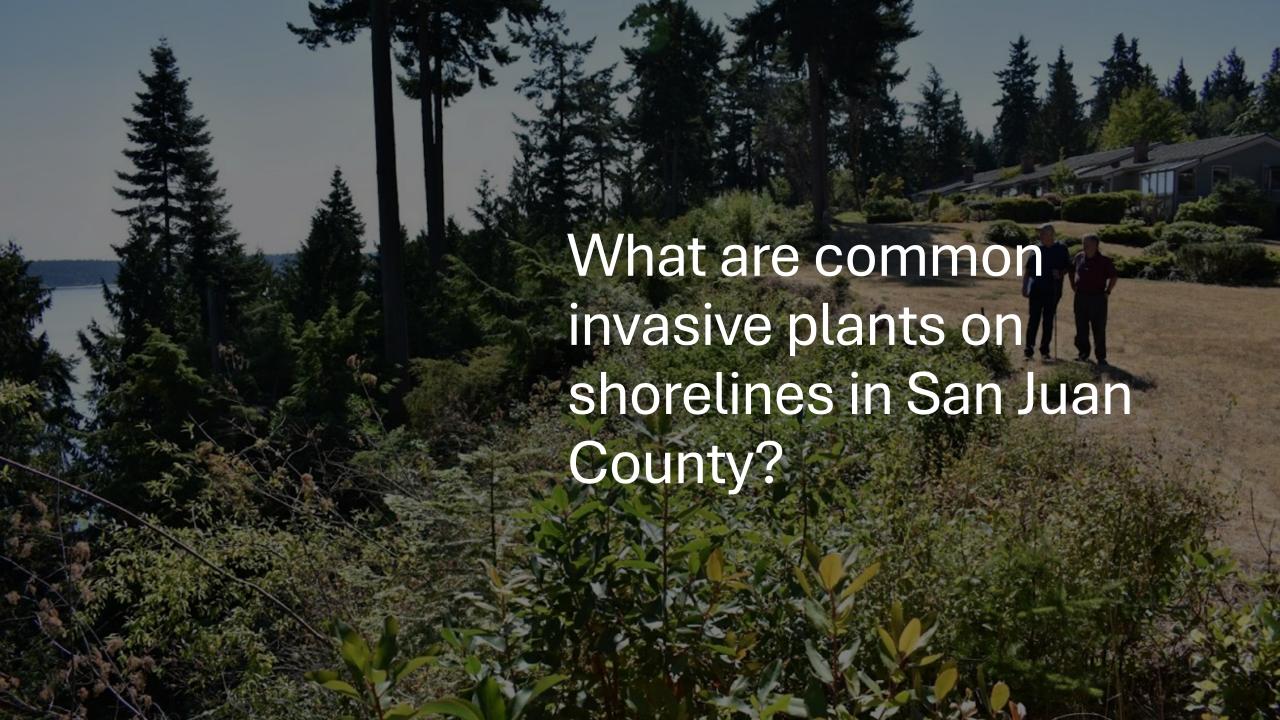
Weed Control, Restoration, Rehabilitation

January 17th, 2025 Friday Harbor





Friends of the San Juans



Scotch broom (Cytisus scoparius)

Grows on drier slopes, exposed to sunlight.

Grows after soil disturbance.

Seeds remain active for 80+ years. Through fire . And water.

Dead-heading and cutting stems is efficient control.



Himalayan blackberry (Rubus armeniacus)

Grows year round.

Commonly harbors Norwegian rats.

UW study shows cutting takes ~10 years to kill roots.

Digging roots up on slope is not recommended.

Herbicide is good option for control.







English (and Irish) Ivy (Hedera helix & H. hibernica)

An unusual case of death: suffocation caused by leaves of common ivy (Hedera helix). Detection of hederacoside C, alpha-hederin, and hederagenin by LC-EI/MS-MS. 2003 Journal of Analytical Toxicology.

Can conceal slope faces.

Grows across property boundaries. Becomes neighborhood endeavor.

Aerial ivy (growing on trees) can cause tree failure.

Pelargonic acid.

Carpet Roll





- Himalayan blackberry
- Scotch broom (if not seeding)
- English laurel
- English holly
- Butterfly bush

NO Compost – Bag and Trash

- Bindweed!!!
- Knotweed
- English ivy
- Poison hemlock









Knotweed (Fallopia spp.)

Very efficient at vegetative propagation
Can root nodule from 2" piece of stem
Multiple varieties – all highly invasive in US
Injection is best treatment (JK Injector)
Watch your glyphosate rates!

Field bindweed (Convolvulus arvensis)

Fragile, wire-like

Often requires a complete overhaul

Stop it before it establishes!

Roots are multiple feet deep.

Rhizomes fracture easily.





English holly (*Ilex aquifolium*)

English laurel (*Prunus laurocerasus*)

Cutting will cause excessive sprouting.

Cut stump or injection.



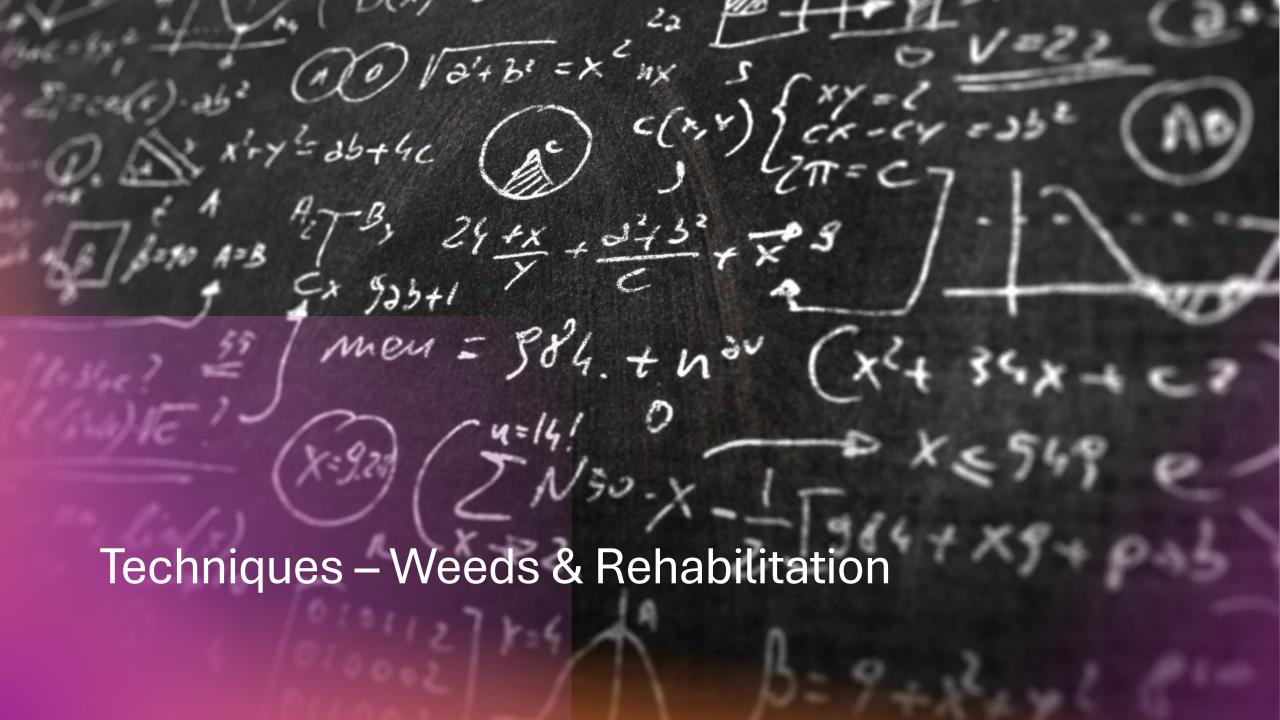
Poison hemlock (Conium maculatum)

Entire plant is highly toxic. Seeds, leaves and sap are all toxic.

Looks similar to native wild carrot.

Poison hemlock has red blotches on the stem while wild carrot does not.









Vertical Strip

- Remove invasives inline with the rappel. 4-6 feet wide.
- Install erosion control fabric, or coir logs to slow down sheetflow.
- Mulch may not be helpful. <1" mulch.





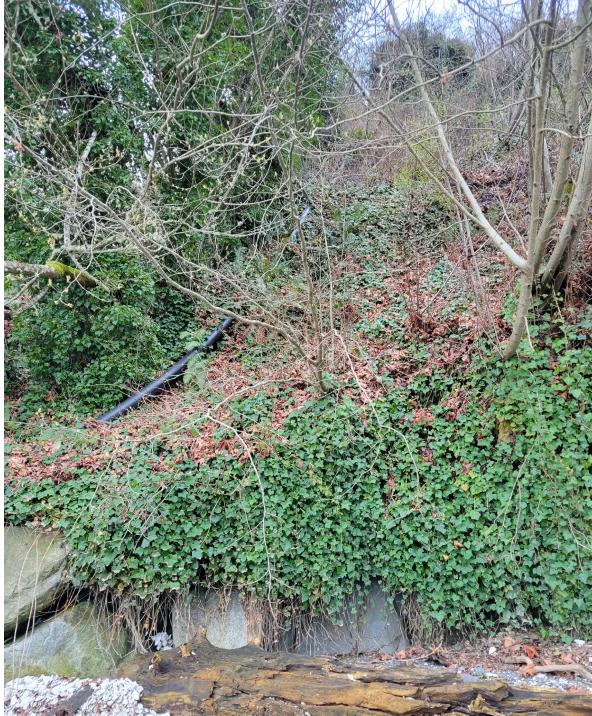




How much to remove?

- Depends
- Stable. 1 year
- Indicators of instability. 3-5 years.









Plant Tubes

- Young plants
- Install on slope without digging
- High mortality plant triple





What's wrong with this photo?



Coir Fabric

- Difficult to install on natural surfaces.
- Must be in contact w/ soil.
- Quick way to combat erosion.
- Plantable medium.





Ideas, Indicators and Plans



Near vertical high bluff 75% HEDHEL

- Generally deciduous
- Lack of age classes / younger
- Few species homogeneity
- No vertical stratification (canopy change)





Pistol Butt Trees

Soil Creep











Evan
Sussman,
Sonshine
Tree Care





Liberty Bay - Poulsbo

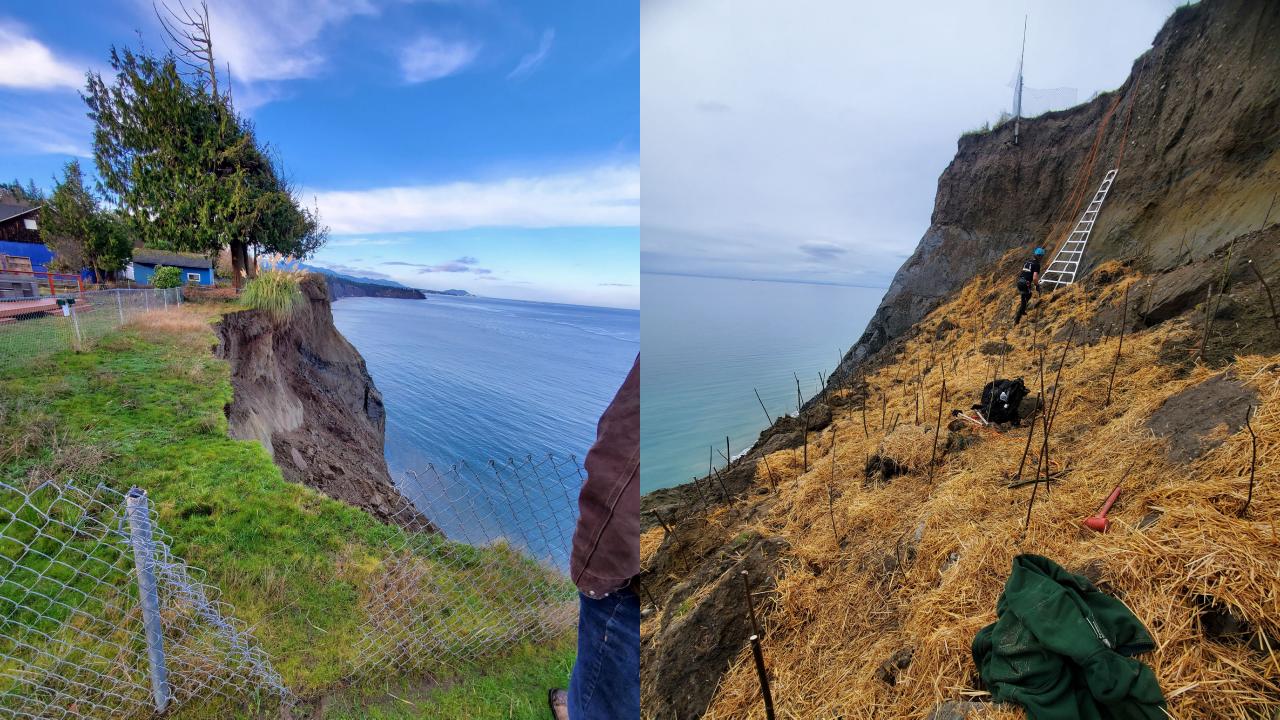


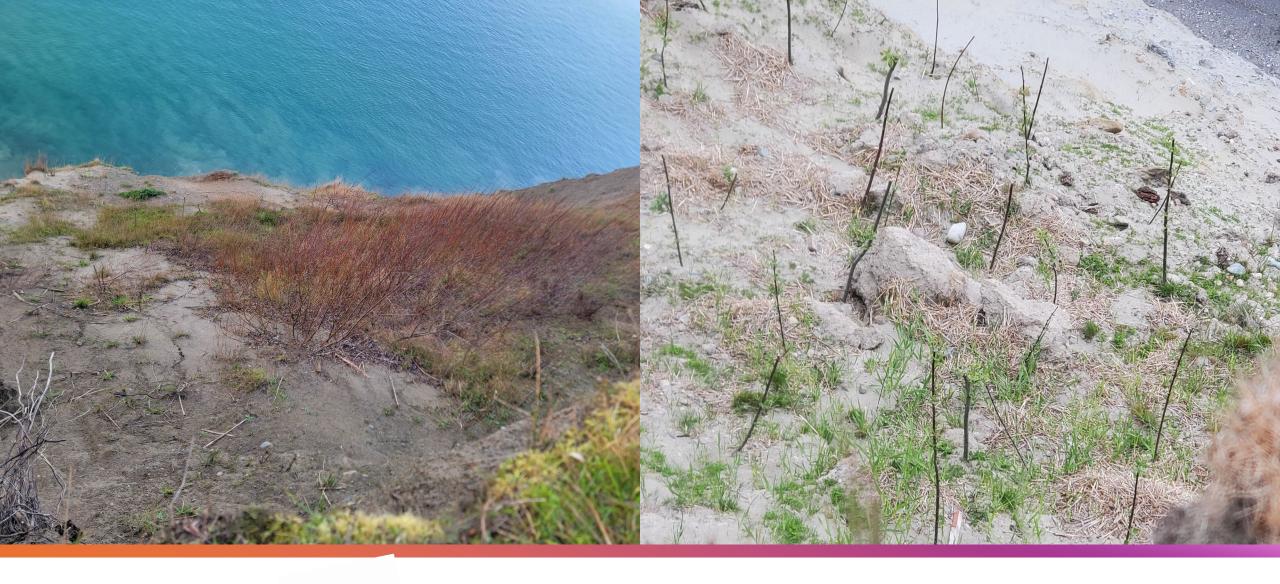












4 growing seasons



1 growing season

No irrigation in Sequim. ~16/in year.

