

The WORST Noxious Weeds (and how to handle them)

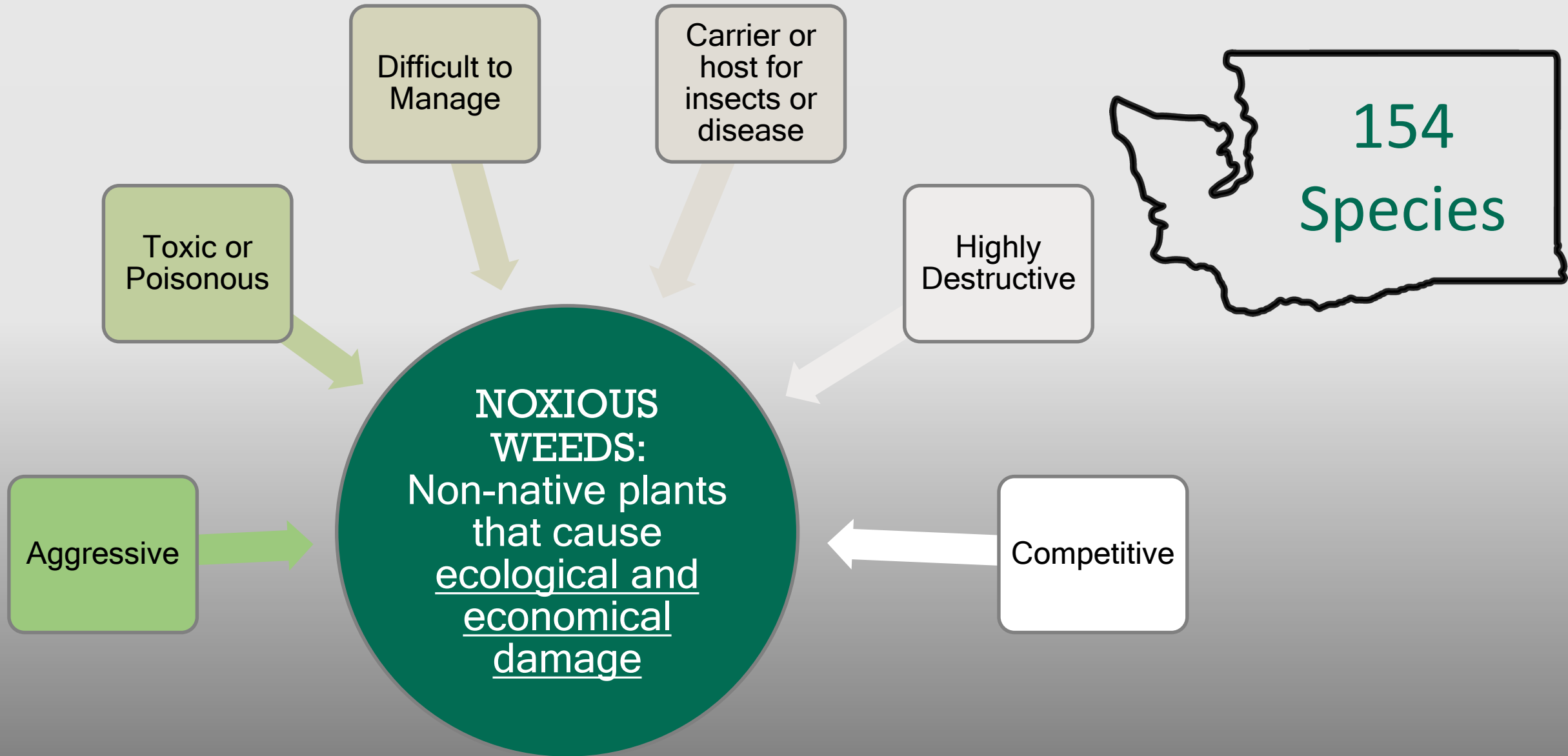


Jennifer Mendoza

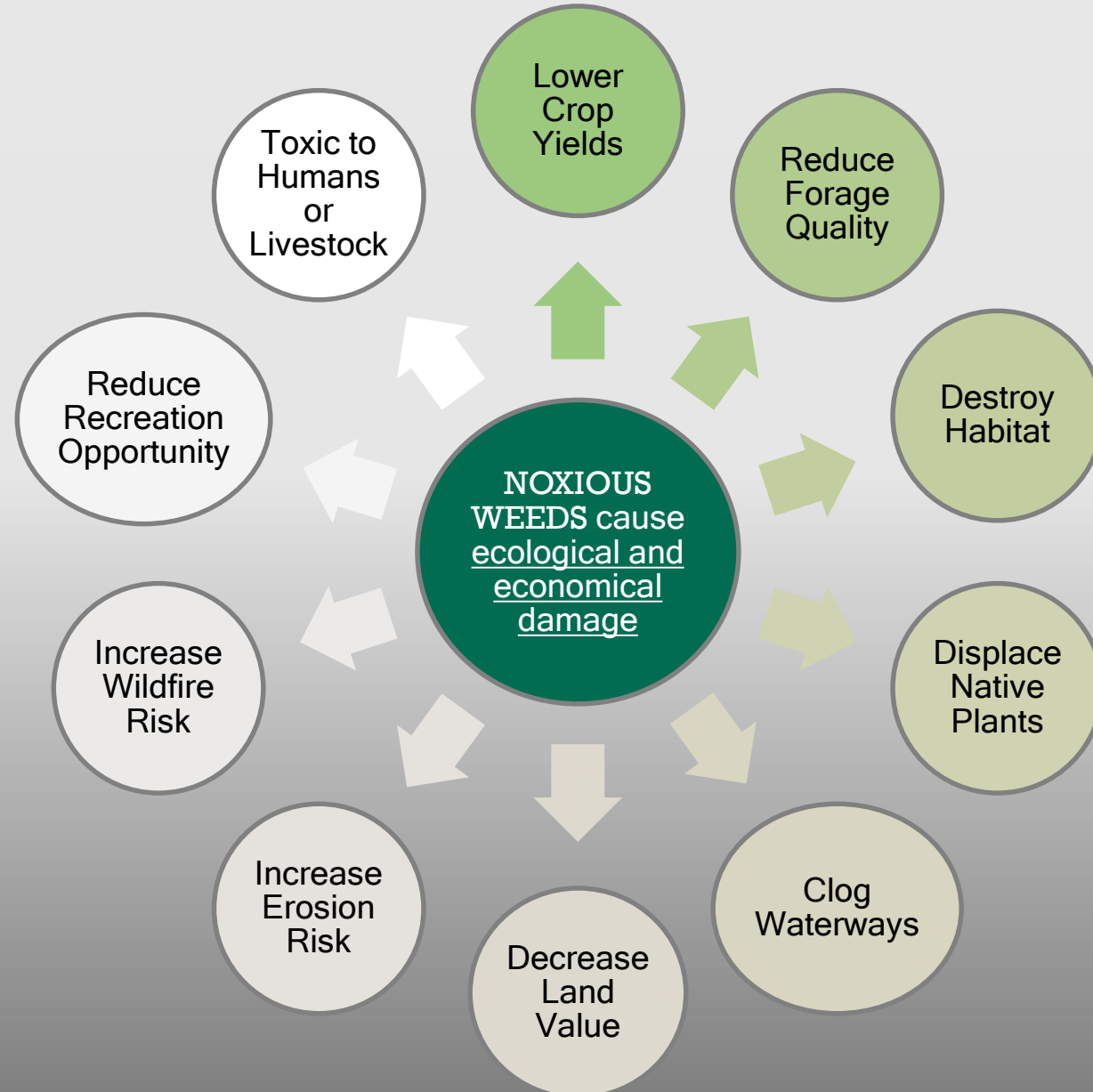
Cowlitz County Noxious Weed Control Program

Program Coordinator

What is a Noxious Weed?



Why Control Noxious Weeds?



...and because it's the Law.

RCW 17.10

PURPOSE: to limit economic loss and adverse effects to Washington's agricultural, natural, and human resources due to the presence and spread of noxious weeds...

Chapter 16-750 WAC

The adopted state noxious weed list with the names of those plants which the state noxious weed control board finds to be highly destructive, competitive, or difficult to control by cultural or chemical practices

Noxious Weed Classification

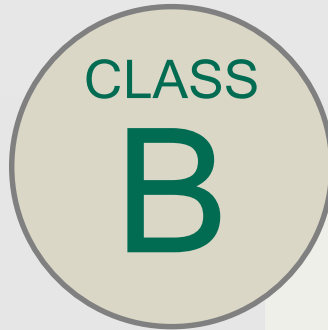


37
Species

Non-native species
with limited Distribution

Eradicating existing
infestations and
preventing new
infestations are the
highest priority

Eradication of all
Class A plants is
required by law

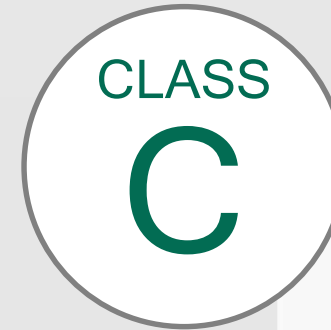


66
Species

Non-native species
with limited distribution
in portions of WA

Designated for
mandatory control
where they are not
widespread.
Containment and
prevention of new
infestations is the goal

Some Class B
weeds are
designated for
mandatory control
per County



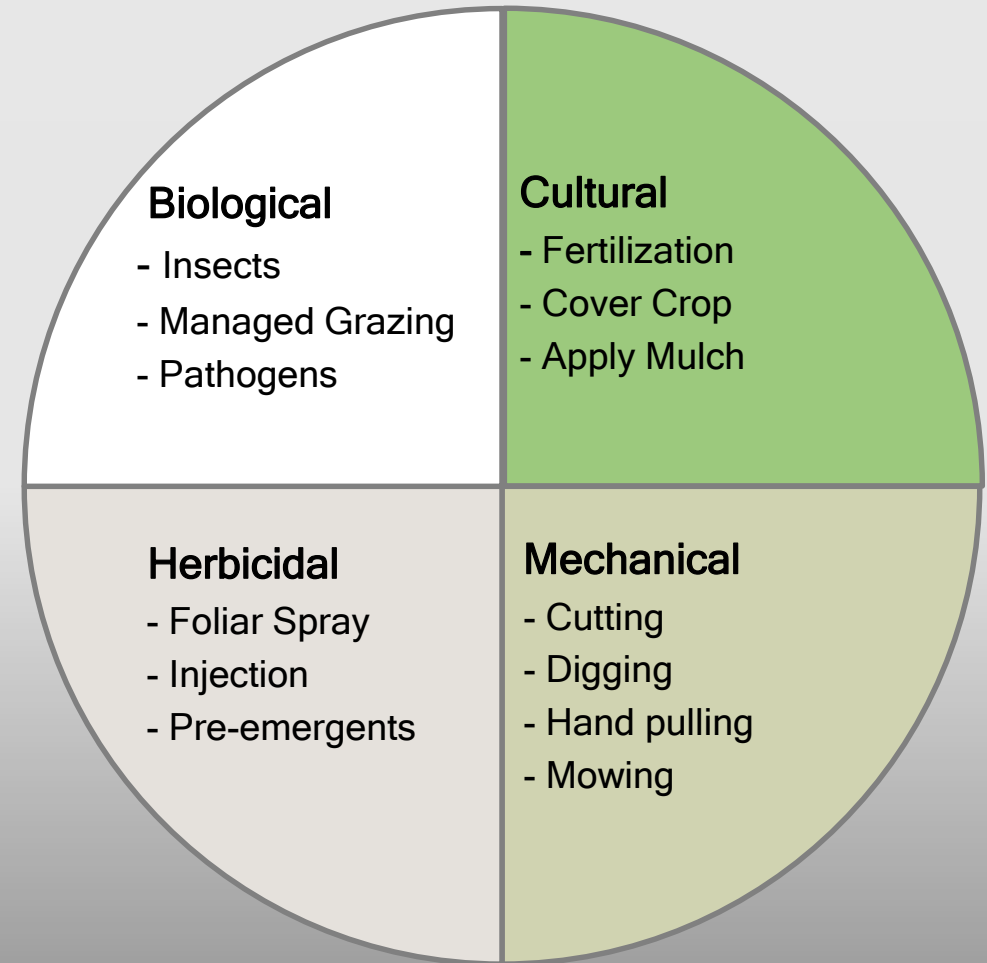
51
Species

Widespread in WA or
are of interest to
Agriculture Industry

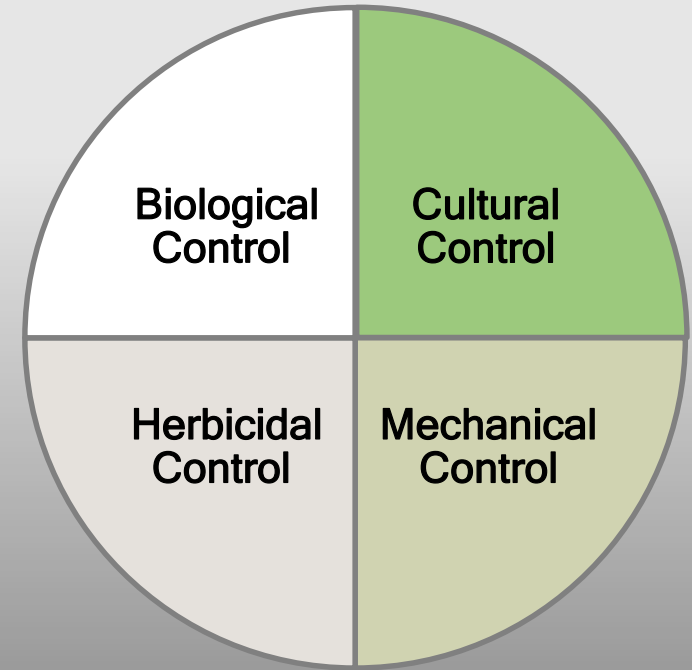
Class C status allows
a county to enforce
control if it is beneficial
to that county

Integrated Pest Management

- The combined use of various control methods to manage pests.
- Improve the efficiency of pest control while reducing negative environmental impacts.
- IPM Planning considers site characteristics, timing, plant phenology, monitoring and other factors



What ARE the WORST NOXIOUS WEEDS? And how to control them...



Knotweeds

- Aggressive Perennial
- Spreads by rhizome, fragmentation



Knotweeds

Japanese Knotweed



Himalayan Knotweed

Giant Knotweed



Bohemian Knotweed



Japanese Knotweed - *Polygonum cuspidatum* **B**

Listed in 1995
Native to Asia



Giant Knotweed - *Polygonum sachalinense*

B

AKA Sakhalin knotweed
Listed in 1999
Native to Asia



Bohemian Knotweed - *Polygonum x bohemicum*



Listed in 2004
Native to Asia



Himalayan Knotweed - *Persicaria wallichii*

B

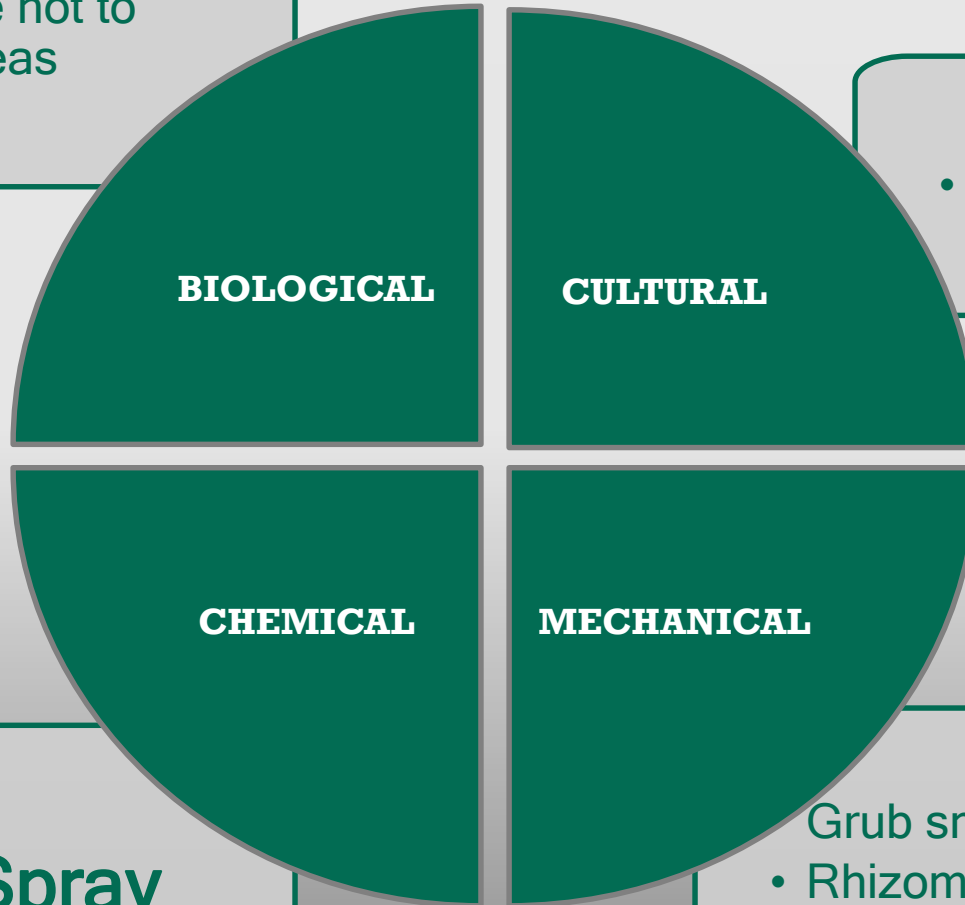
AKA Bell shaped knotweed
Listed in 2003
Native to Asia



Knotweed

Persistence & Monitoring

- NEW Knotweed psyllid, *Aphalara itadori*
- Grazing only in combination with other methods, care not to damage riparian areas



- Native competition may help

DO NOT CUT

- Foliar Spray
- Stem Injection

- Grub small infestations
- Rhizomes/fragments can regenerate
- Remove entire root system
- Frequent cutting (<2 weeks) for many years
- Cut & loosely cover with thick landscape fabric, flatten & monitor

Knotweeds

1. DO NOT CUT/MOW
2. Enjoy the flowers
- 3a. Spray with a foliar spray
- 3b. Inject with herbicide using an injection gun
4. Monitor & follow up as needed



B



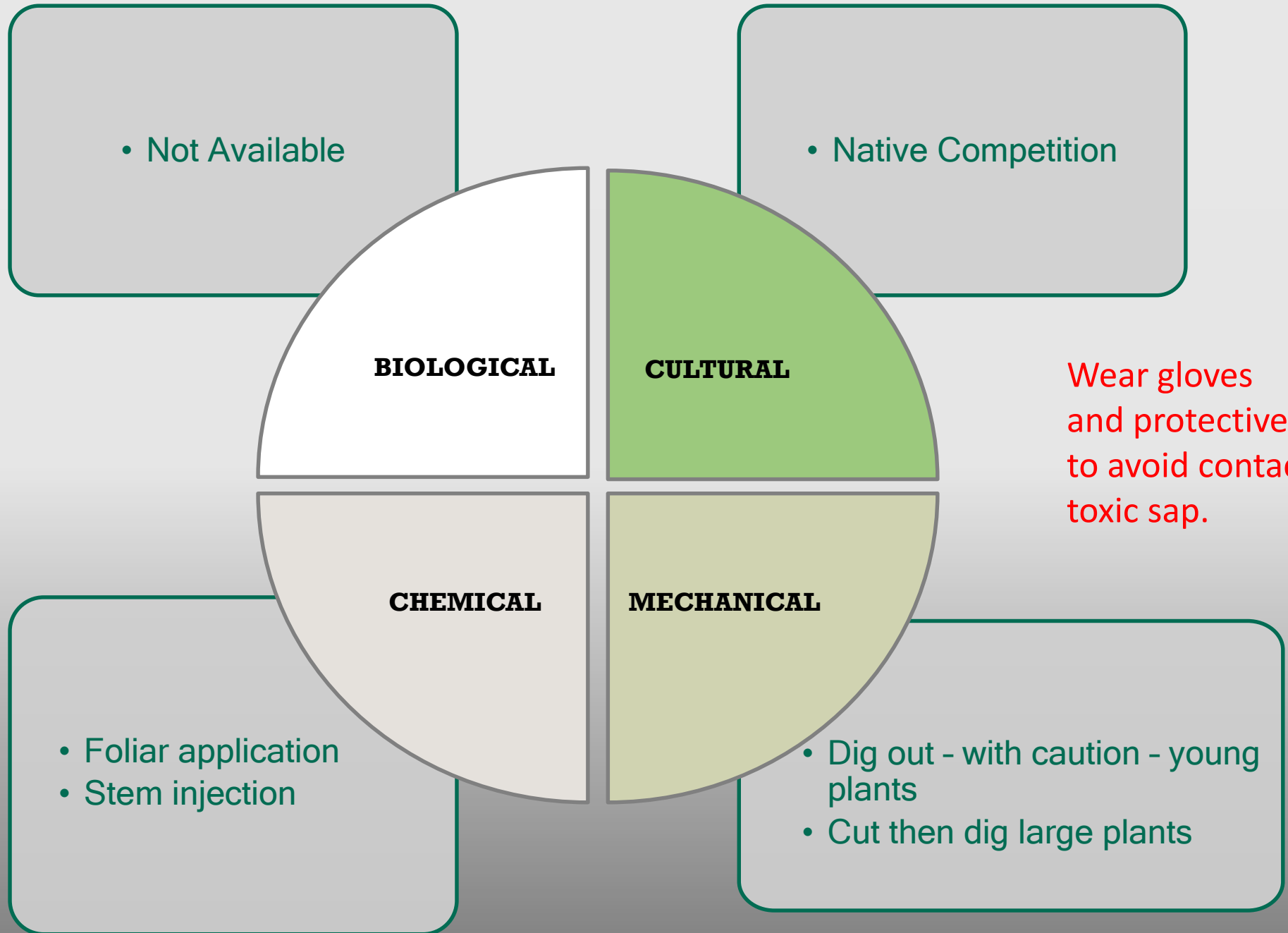
Giant Hogweed - *Heracleum mantegazzianum*

A

- Perennial ~ *biennial*
- Reproduces by seed, perennating buds
- Toxic - exudes a clear watery sap which sensitizes the skin to ultraviolet radiation, resulting in severe burns
- flat-topped flower clusters of small white flowers, clusters grow to a diameter of 2.5 feet



Giant Hogweed



Giant Hogweed - *Heracleum* *mantegazzianum*



1. Small plants: remove or spray
2. Large plants: cut then dig or spray
3. Flowering stage: cut flower stalk, spray remaining vegetation

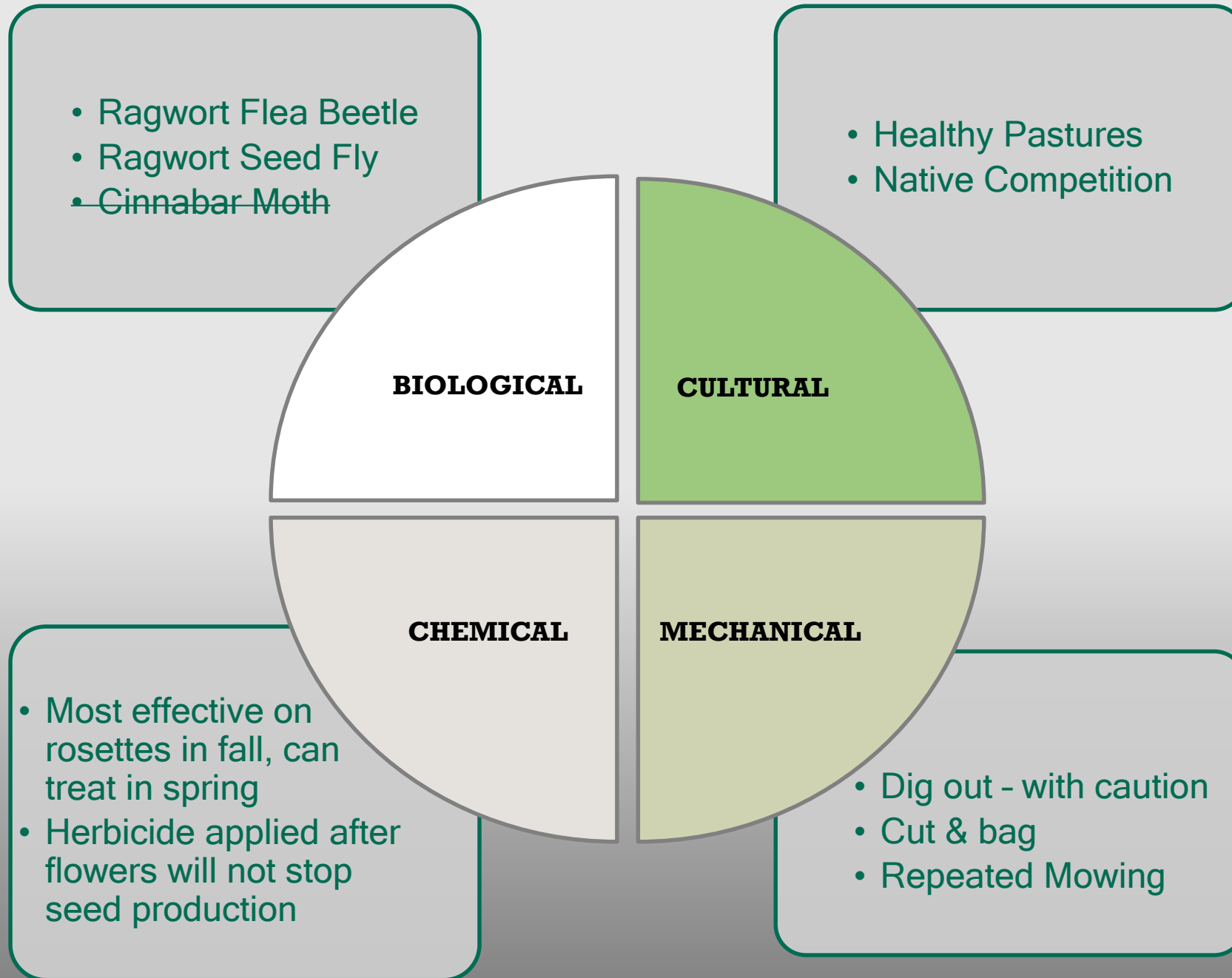
Tansy Ragwort - *Jacobaea vulgaris*

B

- Taprooted Biennial ~ *perennial*
- Reproduces by seed
- Toxic - high in alkaloids
- Many disk flowers, only 13 Ray flowers



Tansy Ragwort



Tansy Ragwort - *Jacobaea vulgaris*

B

1. Rosette stage (remove or spray)
2. Bolting stage, before buds develop (remove or spray)
3. Flowering stage (DO NOT SPRAY, hand pull or cut and trash!)



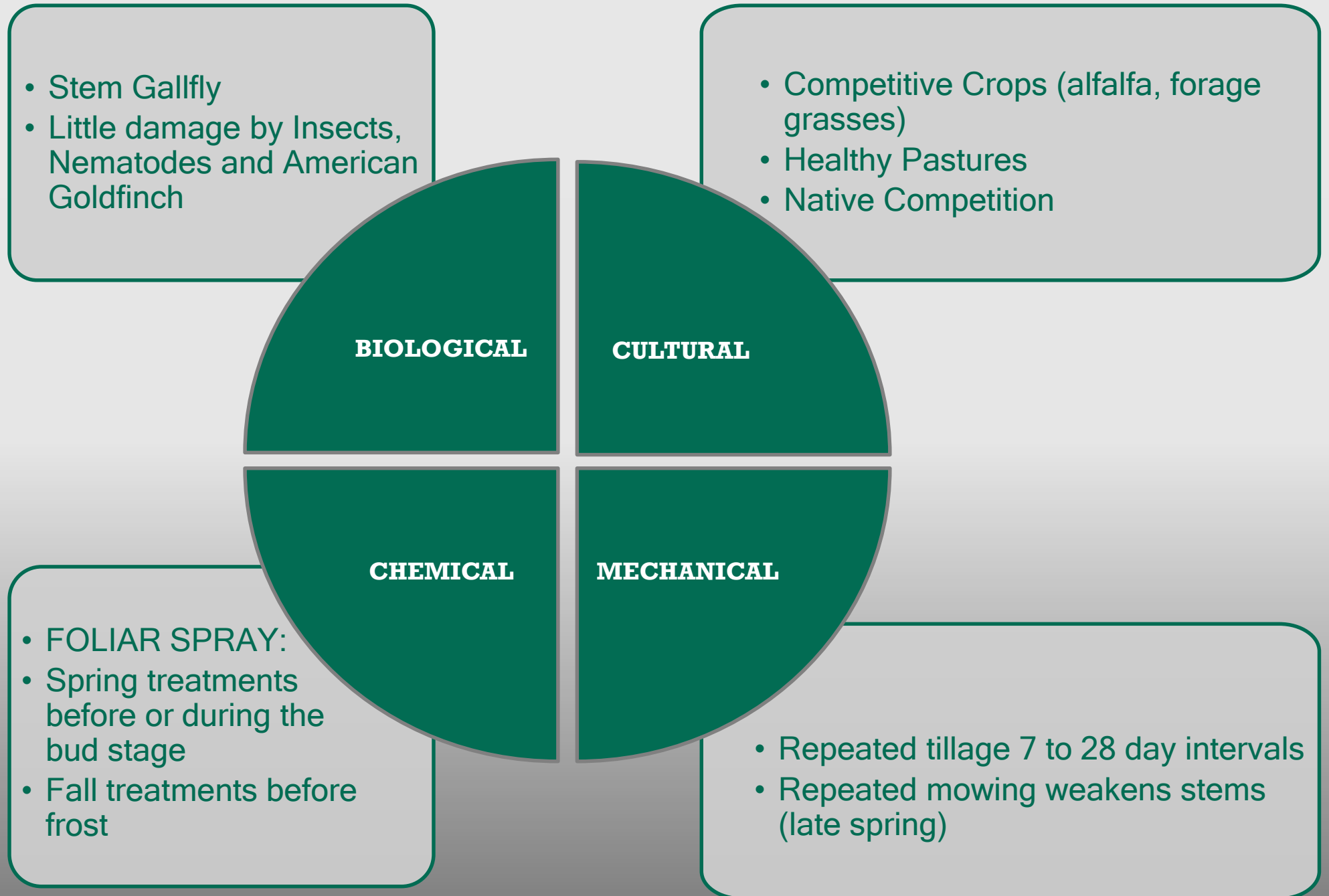
Canada Thistle – *Cirsium arvense*



- Rhizomatous perennial
- Quickly invades, outcompeting native plants
- Reduces crop yields



Canada Thistle



Canada Thistle – *Cirsium arvense*



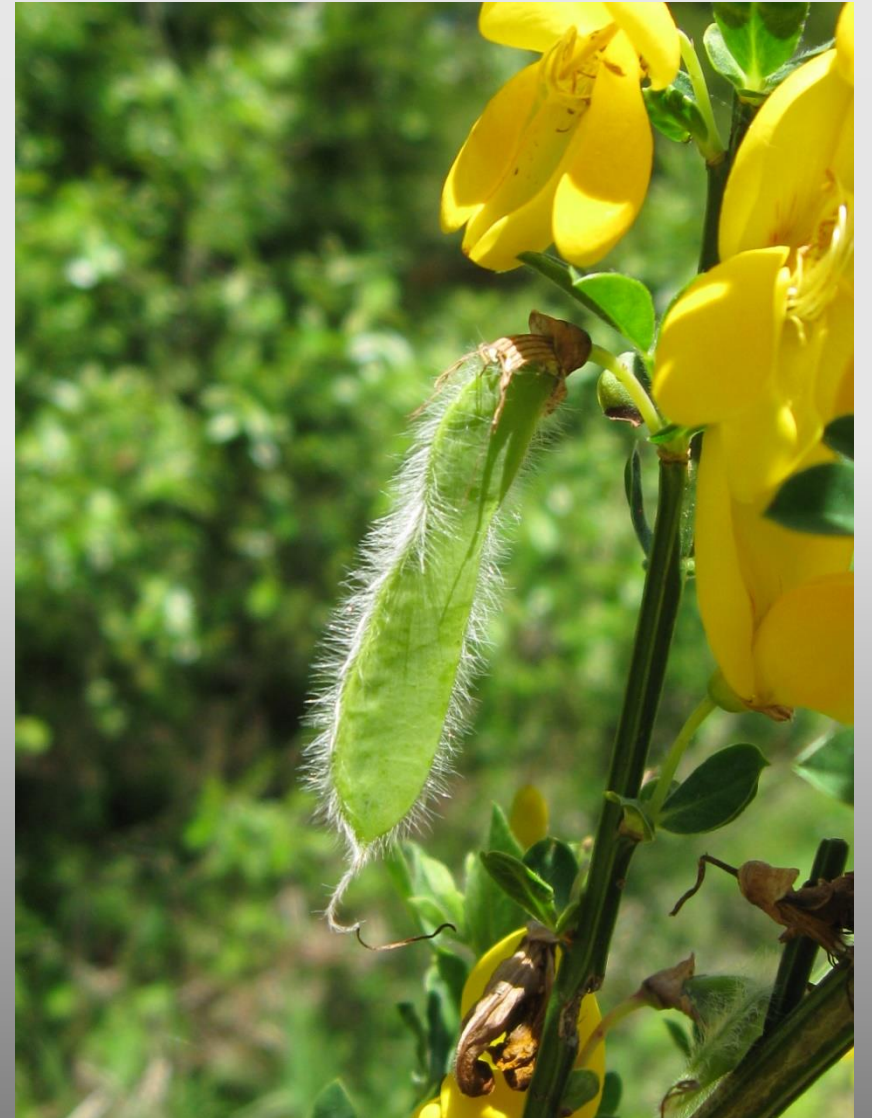
1. Prevent from flowering - repeat cut if needed
2. Spray in fall or spring (or both)
3. Plant desirable vegetation & monitor



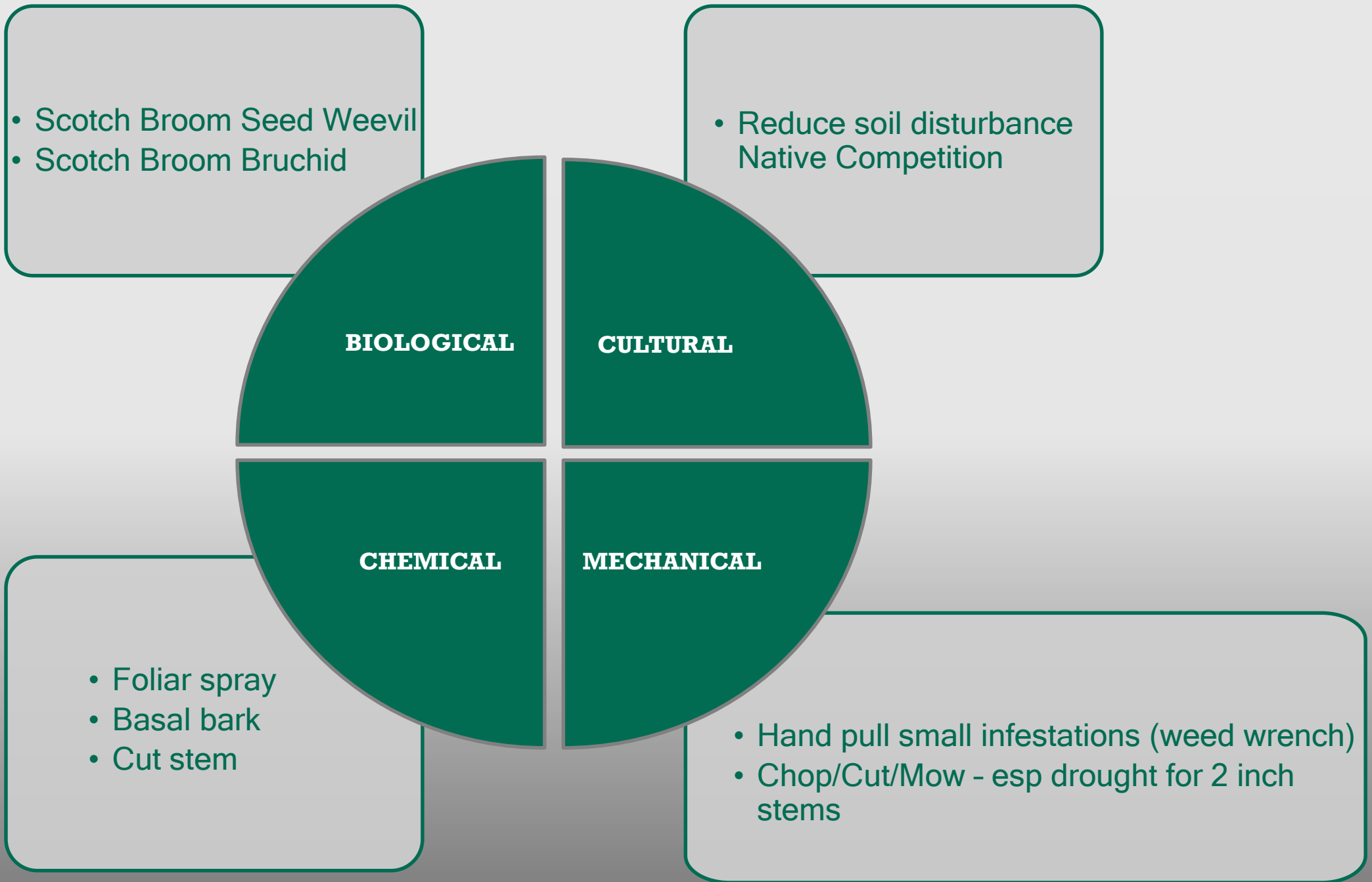
Scotch Broom – *Cytisus scoparius*



- Perennial shrub, reproduces by seed
- Aggressively forms monocultures
- Seeds toxic to livestock & horses



Scotch Broom



Scotch Broom – *Cytisus scoparius*

B

1. Control plants before seed pods develop (generally a 3 year period)

- Pull seedlings

2a. (Small infestations) Cut larger plants during drought, or cut-stem treatment

2b. (Large infestations) brush hog & apply herbicide

3. Monitor the area for new plants - and repeat above steps

4. Plant competitive (not invasive) plants



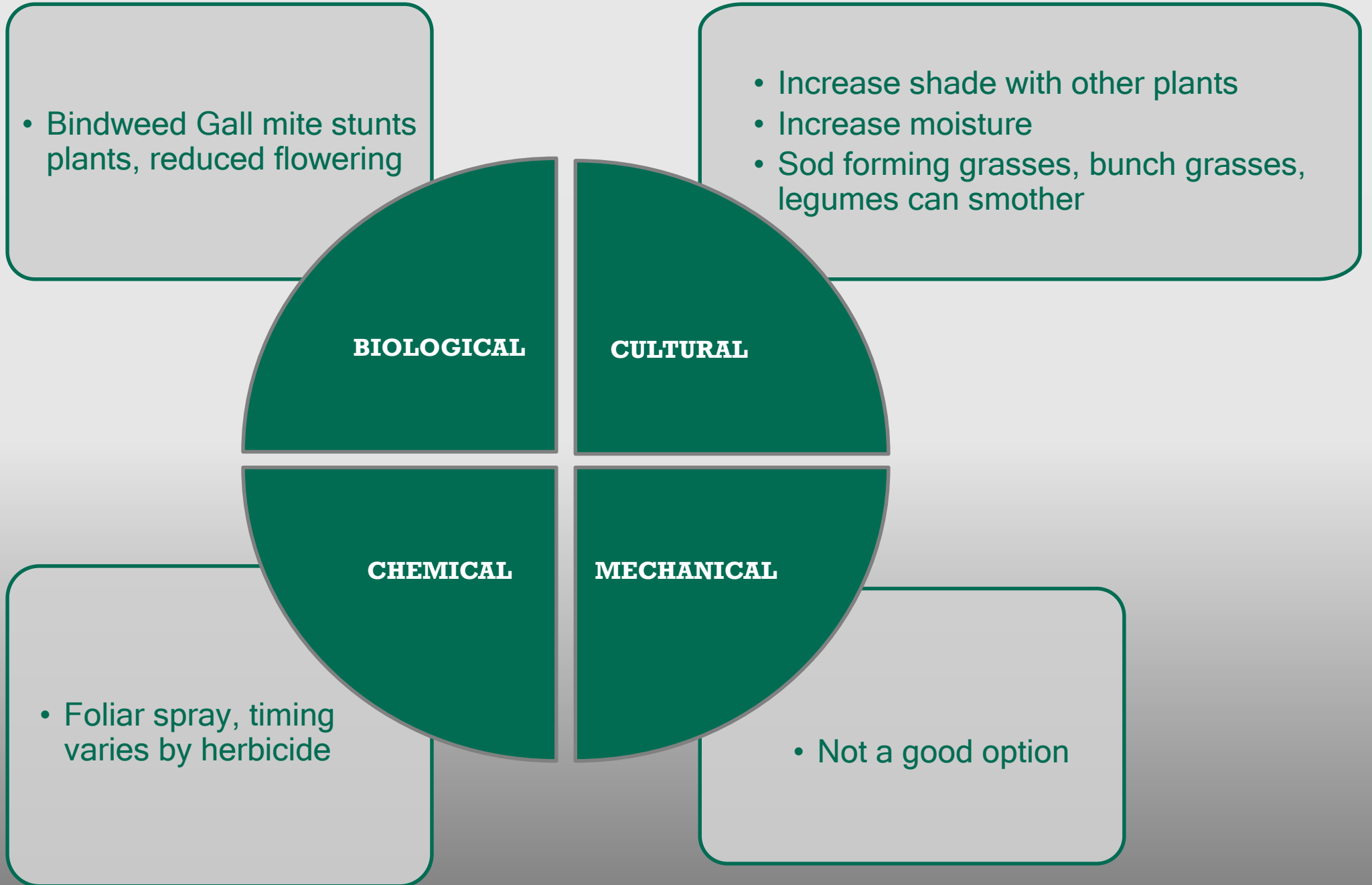
Field Bindweed – *Convolvulus arvensis*



- Perennial herb
- *Once established, nearly impossible to eradicate*
- Reproduces from roots, rhizomes, stem fragments and seed



Field Bindweed



Field Bindweed – *Convolvulus arvensis*



1. Prevent from seeding (pull/cut)
2. Spray
3. Shade out
4. Increase soil moisture



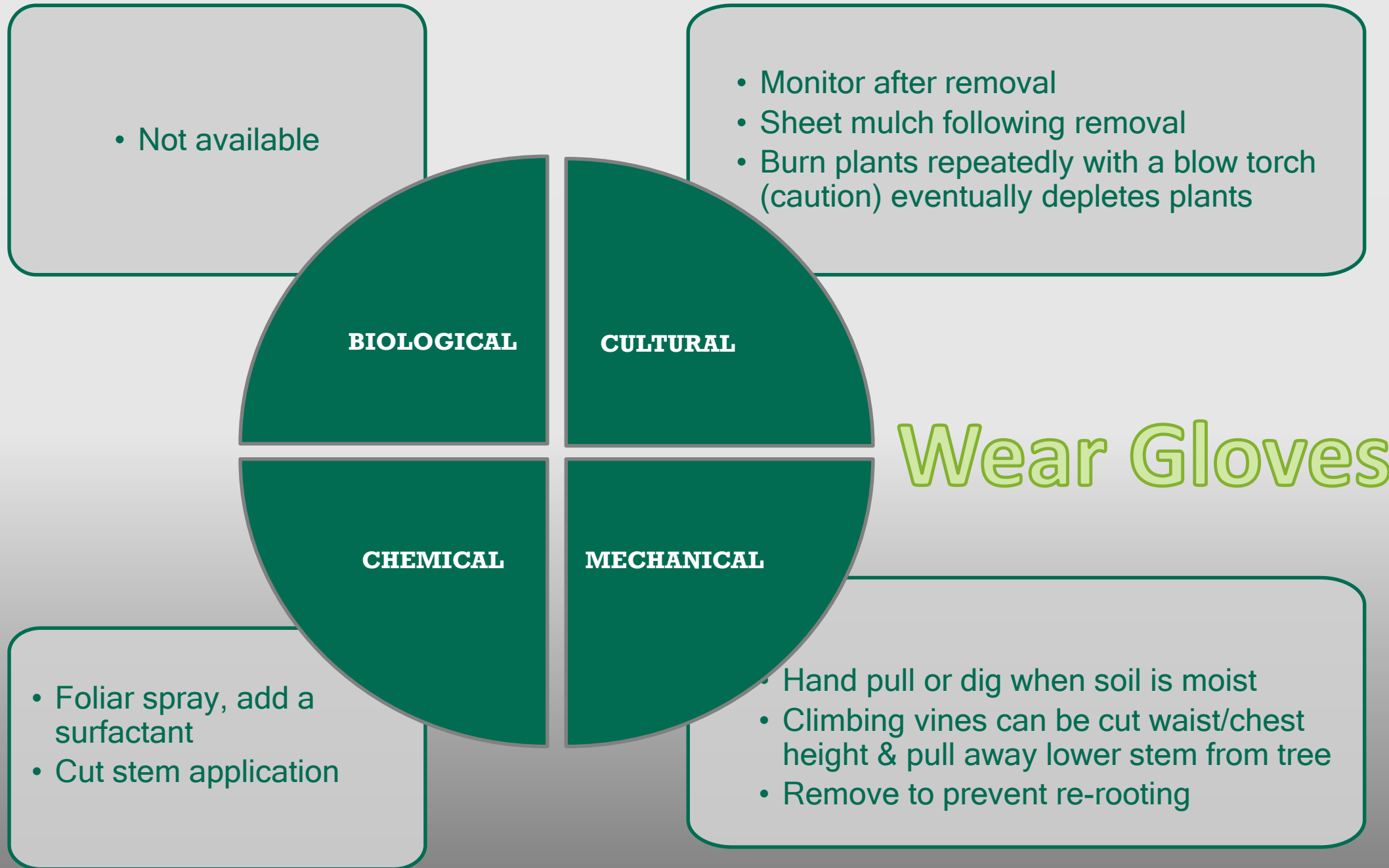
English Ivy - *Hedera helix* 'Baltica', 'Pittsburgh', and 'Star'; *Hedera hibernica* 'Hibernica'

C

- Evergreen Perennial vine
- Spreads by vegetative stem growth and by seed
- Stem and root fragments can resprout



English Ivy



English Ivy - *Hedera helix* 'Baltica',
'Pittsburgh', and 'Star'; *Hedera hibernica*
'Hibernica'

C

1. Cut vines climbing trees
2. Remove vegetation mat of Ivy
3. Sheet mulch
4. Replant
5. Monitor



Himalayan Blackberry– *Rubus armeniacus*



- Evergreen perennial
- Reproduces by seed and vegetatively



Himalayan Blackberry

- Grazing by Goats, follow with other methods

- Prescribed burning to remove above ground vegetation - does not kill roots

BIOLOGICAL

CULTURAL

CHEMICAL

MECHANICAL

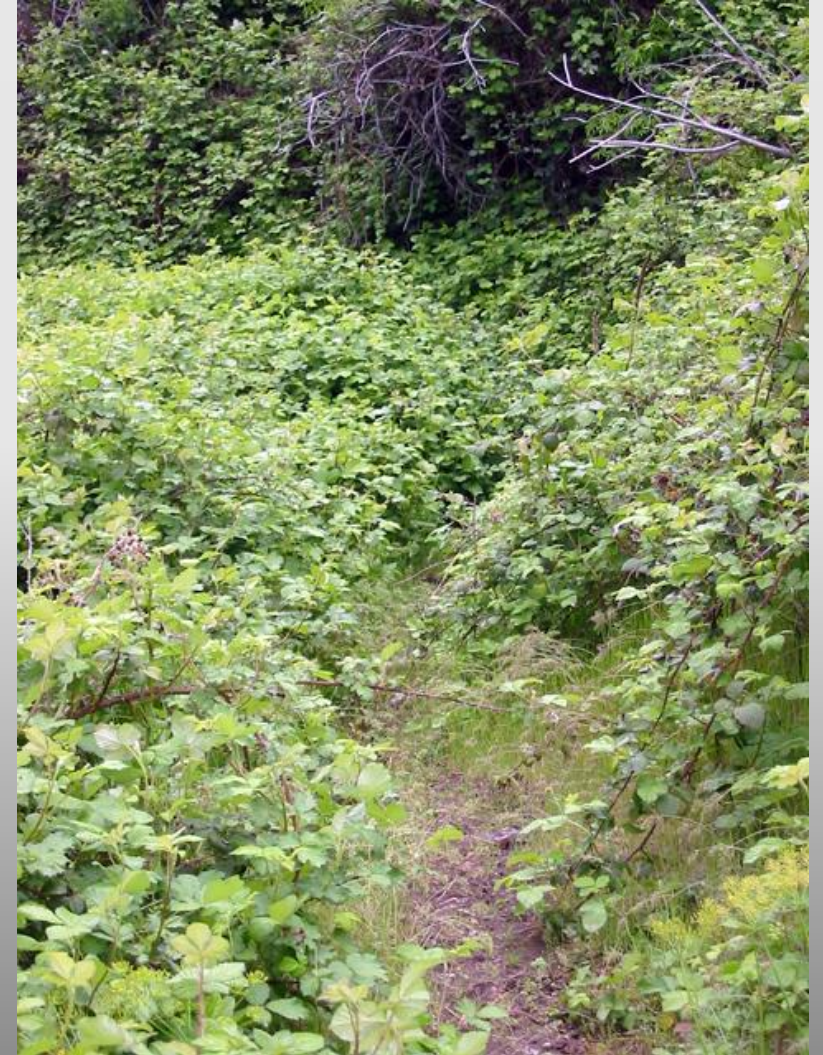
- Variety of herbicides available
- Late summer/fall is best time to treat

- Dig up plants - remove all roots
- Remove & dispose of stems and roots

Himalayan Blackberry– *Rubus armeniacus*



1. Enjoy the berries one last time - the more you pick, the fewer seeds left for the birds to spread
2. When the berries are done, cut plants back to the ground, remove canes (optional)
3. Wait 2-3 weeks
4. Spray with a systemic herbicide
5. Monitor & replant



Stop the Weeds, Catch the Seeds!



Thank You



Jennifer Mendoza
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