

May Day, May Day...

European Bird Cherry on the Move

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Alaska Association of Conservation Districts

working with Soil & Water Conservation Districts to preserve Alaska's natural resources





Prunus

1. Identification and Invasiveness
2. Prunus is more than an urban pest
3. What can you do?



Prunus

May Day tree, hackberry, hagberry, chokecherry, European bird cherry...

Prunus padus - European bird cherry

Prunus virginiana - chokecherry



Photo Credit: Pasbek

Identification

Tree up to 35' tall, smooth gray to brown bark



Photo Credit: Lauren Holmes/ADN



Photo Credit: KWF

ID

Cluster of white flowers



Photo Credit: Kallema

ID

Alternate leaves

Two small glands at the base of the leaf



Photo Credit: KWF

ID

**Cluster of small
black cherries**





Origin



Why does Prunus spread quickly?

- Browsing, pruning and cutting encourages growth, including suckers
- High seed production
- High germination success (85% in controlled setting)
- Birds transport seeds

Seed viability in the seed bank likely 5 years +/-



The 'So What?'

- Aggressively invades riparian habitat and natural forest
- Toxicity: cyanide found in various plant parts

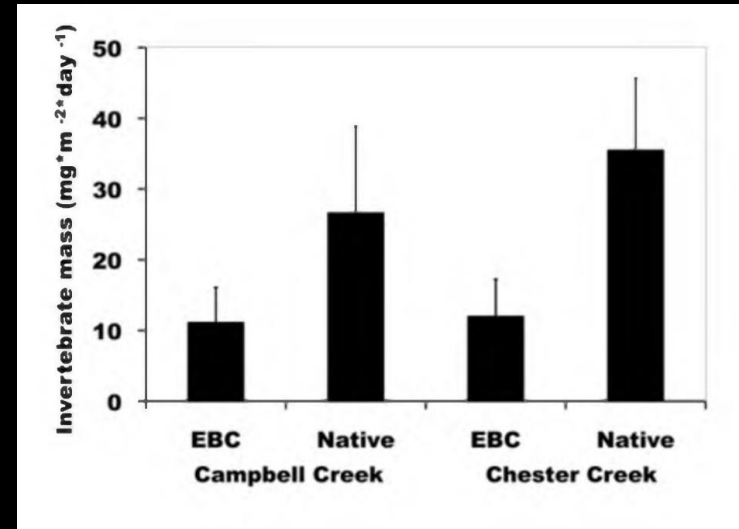
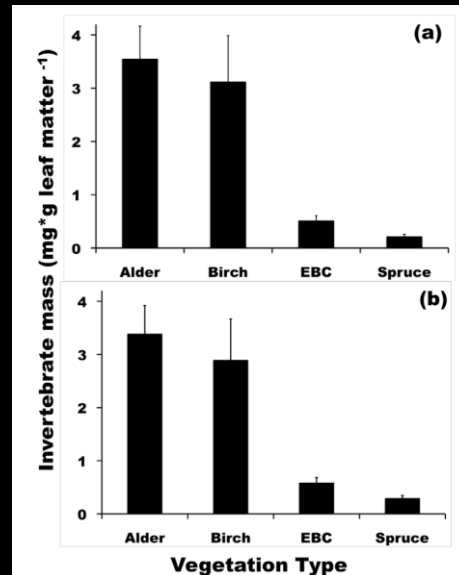
**Cyanide-poisoned Moose
Ornamental Chokecherry Tree a Devil in Disguise**
By Riley Woodford and Cathie Harms



One of the victims of chokecherry poisoning.

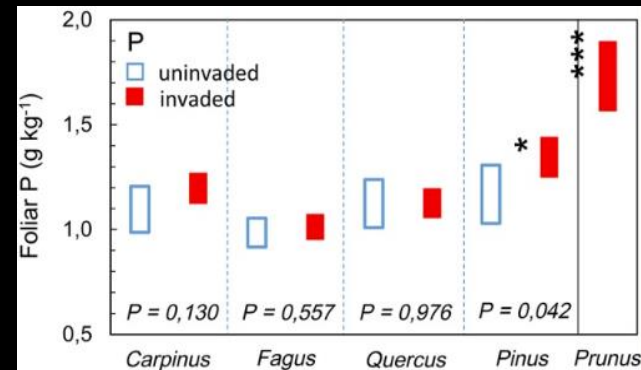
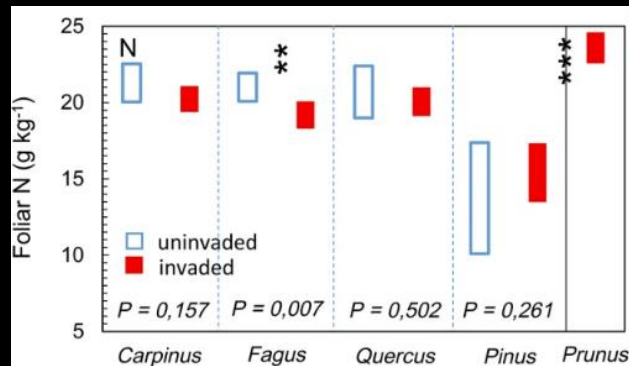
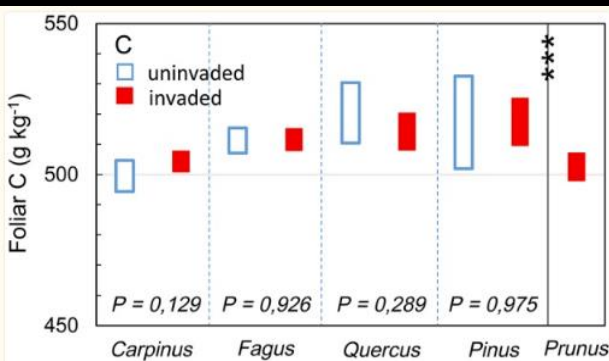
The 'So What?'

- *Prunus* can create dense thickets = change in plant community
 - Impacts are complex
 - Roon (2011) found lower presence of terrestrial invertebrates on *Prunus*



The 'So What?'

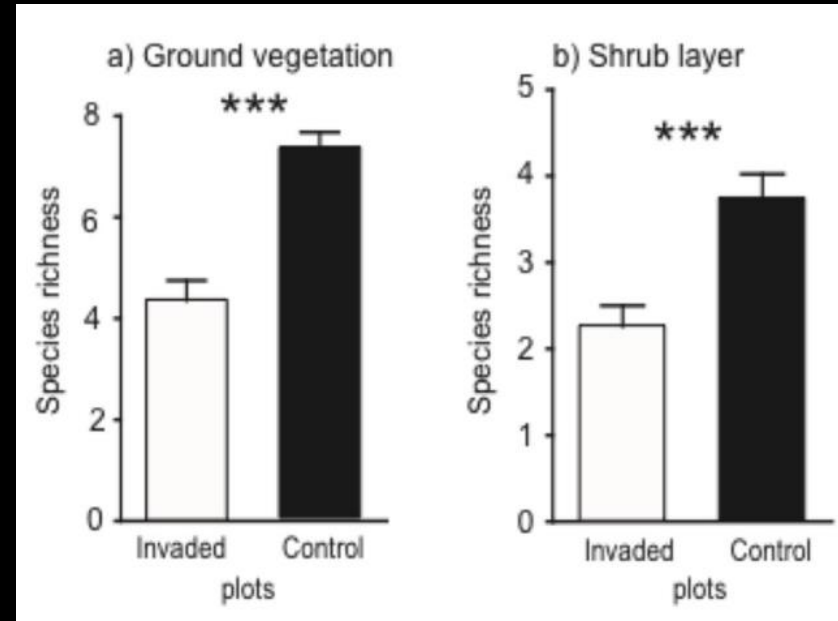
- *Prunus* can create dense thickets = change in plant community
 - Impacts are complex
 - Aerts et al. (2017) found that the presence of invasive *Prunus* decreased the foliar nutrient contents of co-occurring native trees species



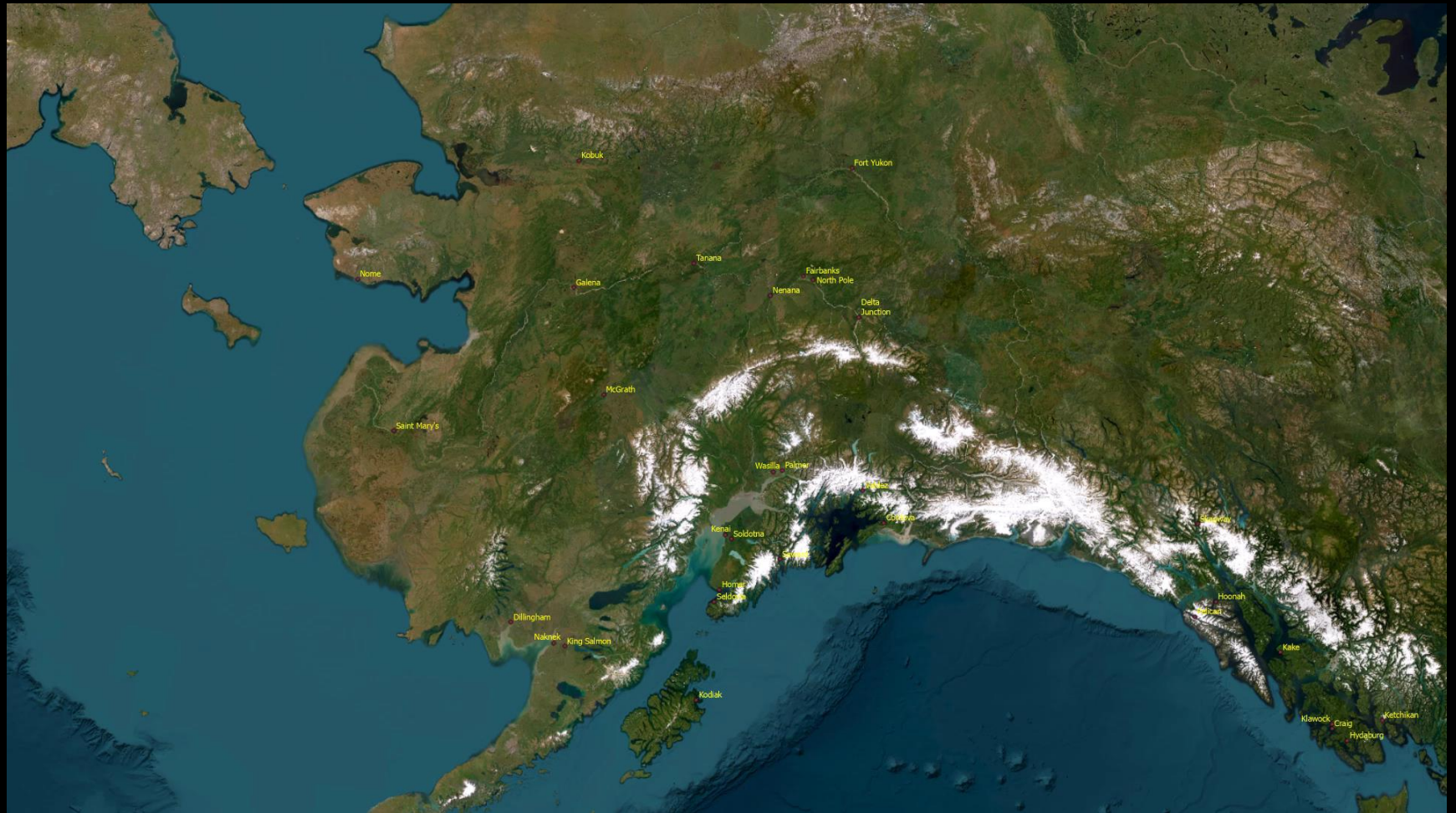
The 'So What?'

- *Prunus* can create dense thickets = change in plant community
 - Impacts are complex
 - Rusterholtz et al. (2018) found that the number of species decreased with *Prunus* present and that soil carbon was being moved through the ecosystem more rapidly,

A loss of biodiversity decreases ecosystem resilience

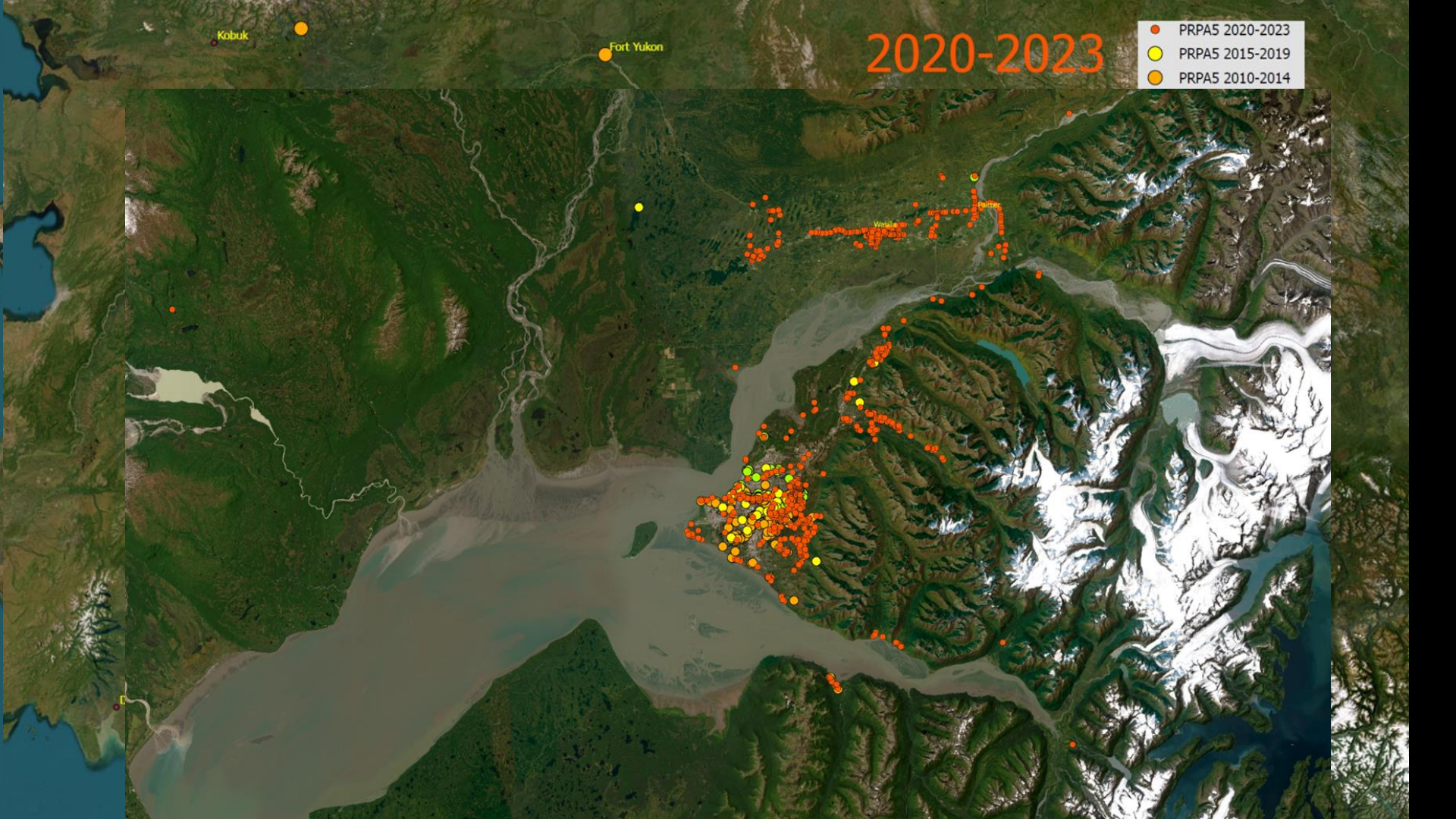


Trends over time



2020-2023

- PRPA5 2020-2023
- PRPA5 2015-2019
- PRPA5 2010-2014



Anch CISMA

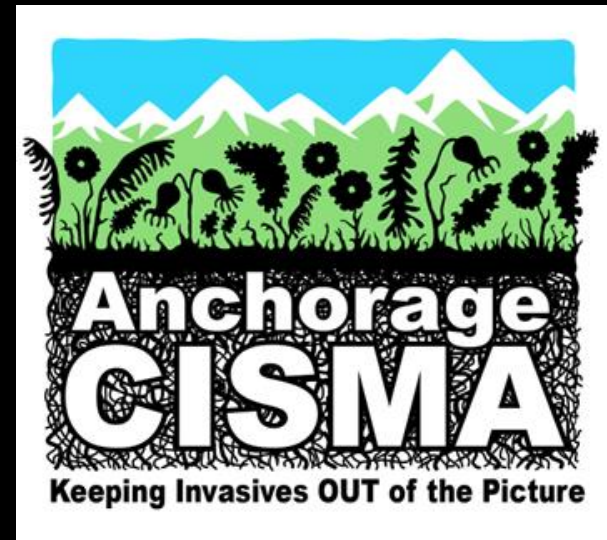
Cooperative

Invasive

Species

Management

Area

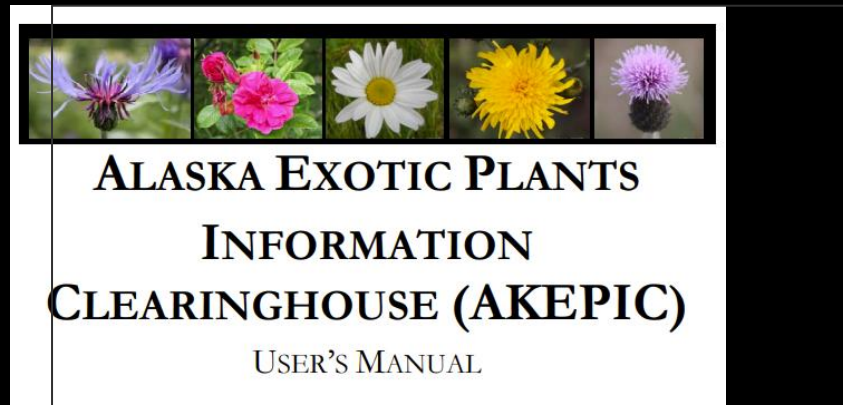


ANCHORAGE
PARKS AND
RECREATION



Survey methods

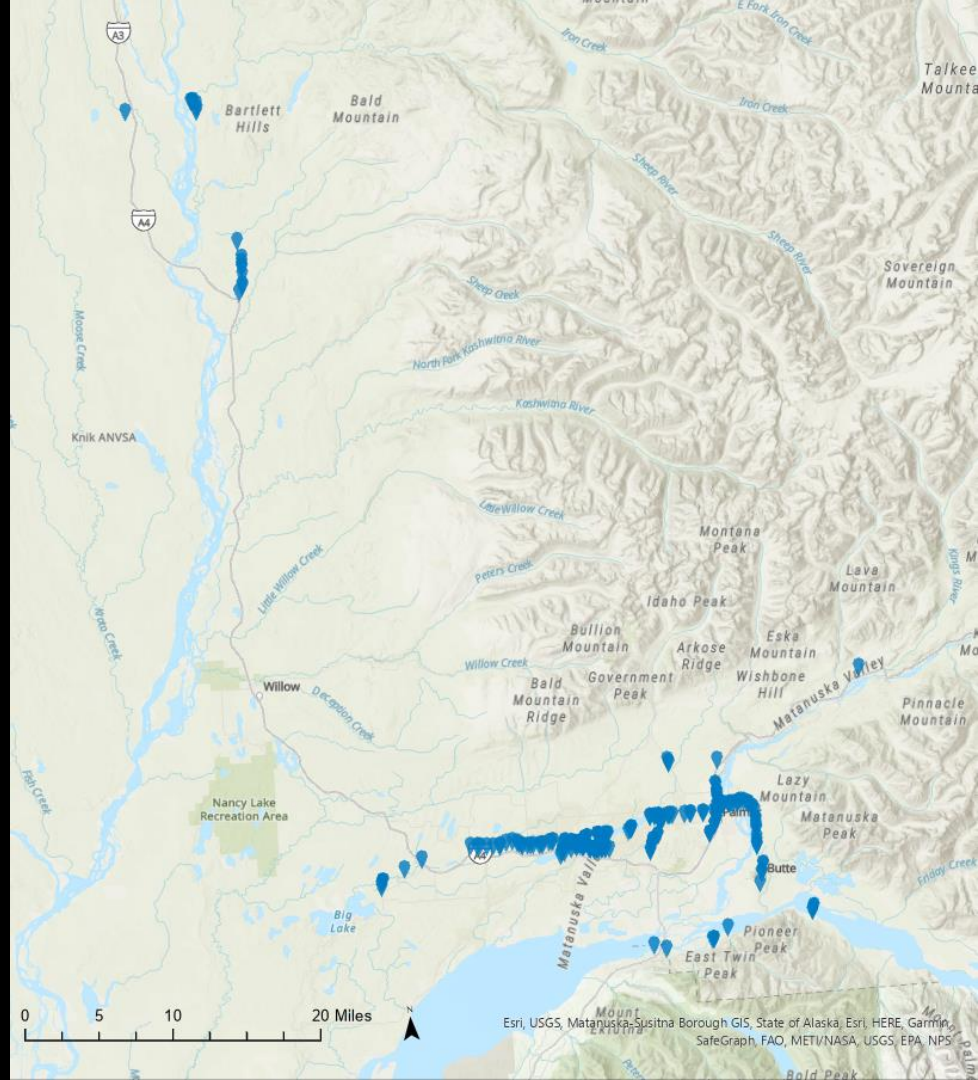
- **Palmer SWCD:** surveyed roads, stopping every 0.25 miles to record invasive plants
- **Anchorage SWCD:**
 - Citizen science, systematic surveys of creeksides



Results

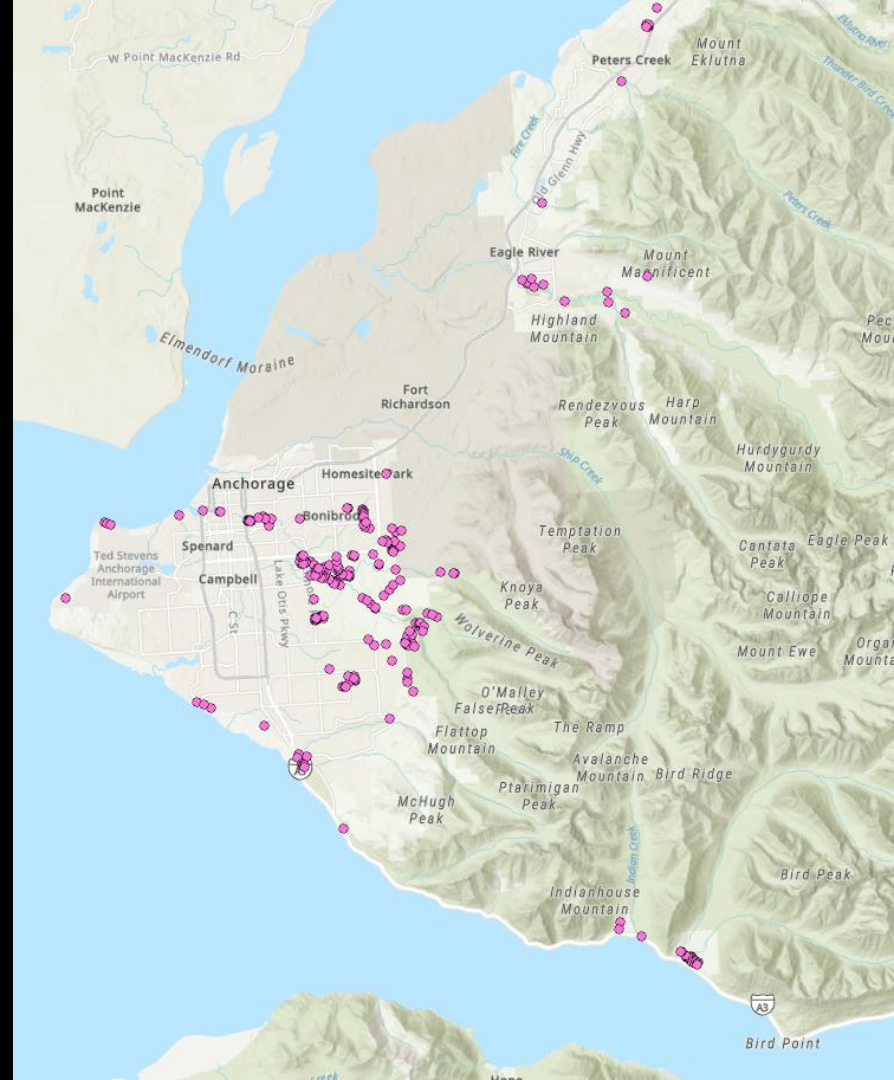
Palmer

219 documented locations



Results

- Anchorage -
 - 45 new locations within Chugach State Park
 - Many urban locations



Control Work Anchorage CISMA

Pursue all angles at once -

- treatments of mother trees in parks
- removal of trees on creeksides
- outreach to landowners

Feral *Prunus* is present along majority of creeks in Anchorage, lots of potential habitat exists in the Mat Su Valley



Control work Kenai Peninsula CISMA

Removal of Prunus... in Homer, Soldotna, and Coopers Landing

- Focusing on “Mother Trees”
- Pulling saplings



Photo Credit: Jen Chauvel



Photo Credit: KP CISMA Casey Greenstein

Control

Mechanical - can be effective,
can require much effort and
follow up over time

Chemical (Herbicide)

Frill

Cut stump

Injection

Foliar



Pull, bag and revisit...

If less than 3" diameter...

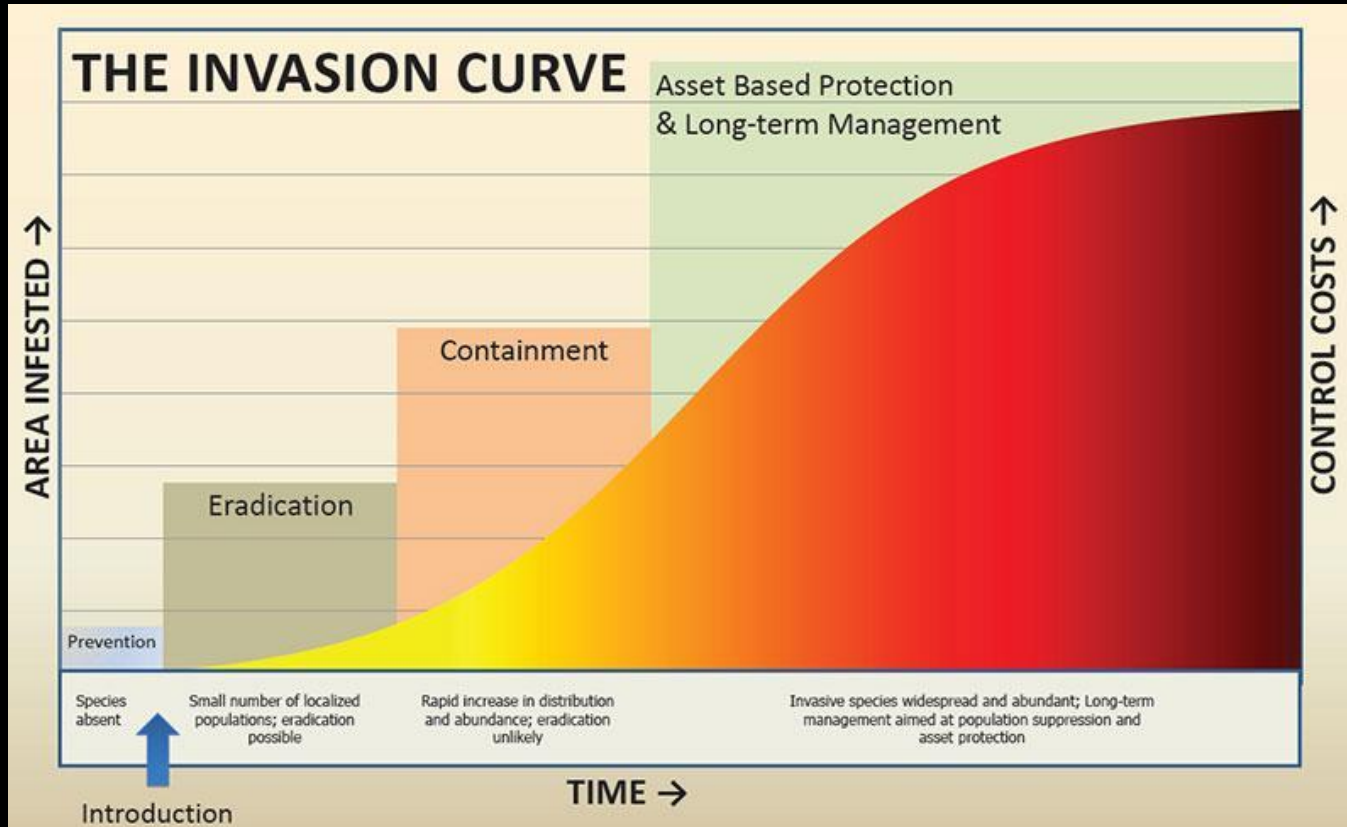
- Pull trees
- Around 5 years until fruit
- Get as much root as possible

Revisit! Trees will resprout



Photo Credit: Laurie Thorpe, BLM

What Can You Do?



You Can REPORT!

AK Invasives ID app

[IPM – Public Submission Form – AkPestreporter \(mybluehost.me\)](#)

EDDmapS

[Alaska Invasive Species Partnership](#)



Action...

- Include *Prunus* removal in riparian restoration projects
- Spread the word to landowners to remove *Prunus*

While Hiking, Hunting, Fishing -

Report rogue trees!

Prunus virginiana found
10 miles from boat
launch on Little Su



Resources

Control of Invasive Chokecherry Trees - Cooperative Extension Service

https://cespubs.uaf.edu/index.php/download_file/1544/

Chokecherry FAQ's <http://anchoragewcd.org/Chokecherry%20FAQ.pdf>

Invasive Plant Issues



Control of Invasive Chokecherry Trees (*Prunus padus* and *virginiana*)

by Gino Graziano

PMC-00345



Frequently Asked Questions for property owners regarding removal
of *Prunus padus* and *Prunus virginiana* trees

Anchorage Soil and Water Conservation District

invasives.aswcd@gmail.com

Thank you!

TREE REPLACEMENT IN PROGRESS

To protect the health of our native ecosystems and ensure our public spaces remain enjoyable for all, we're replacing invasive European bird cherry (a.k.a. mayday) trees with non-invasive trees.

Together we can keep Homer free from harmful invasive species!

Scan to learn more about European bird cherry trees and what you can do about them

leaninvasives.org
plants.ohio.gov/invasives/europeanbirdcherry

WHY ARE EUROPEAN BIRD CHERRY TREES A PROBLEM?

Take over forest and streamside habitats, forming thickets where native plants once grew.

Can be toxic to moose

Spread along salmon streams and alter the availability of prey for juvenile salmon.

Logan OH 43040
INVASIVE SPECIES MANAGEMENT CENTER

