

KP-CISMA Field Coordinator Update

Maura Schumacher



**KENAI
WATERSHED
FORUM**



KENAI PENINSULA COOPERATIVE
**INVASIVE SPECIES
MANAGEMENT AREA**



Introduction



Maura Schumacher, Invasive Species Specialist at the Kenai Watershed Forum

- 1) What does the KP-CISMA Field Coordinator do?
- 2) Invasion Curve- where are we?
 - Prevention
 - Eradication
 - Containment
 - Resource Protection

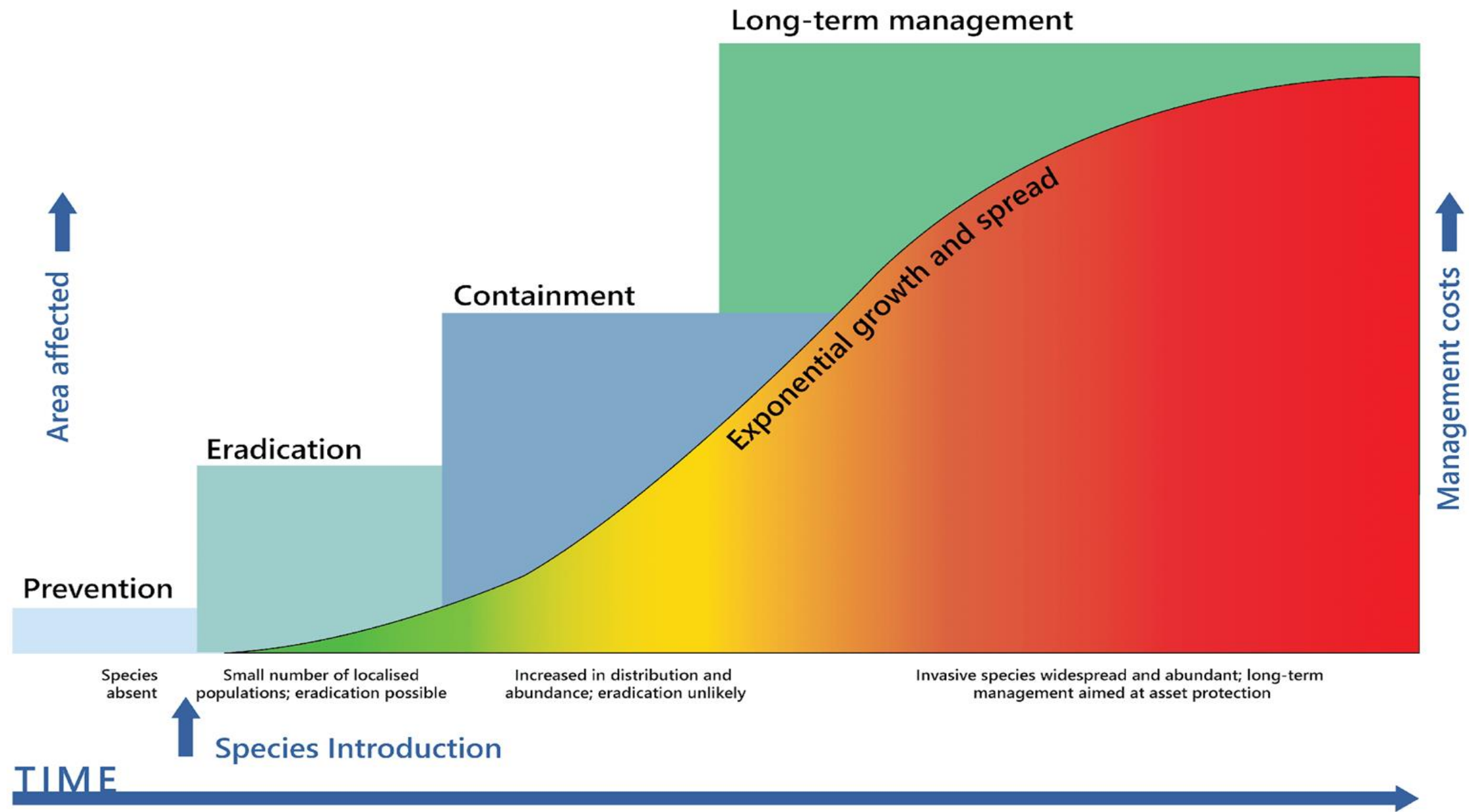


What does the KP-CISMA Field Coordinator do...?

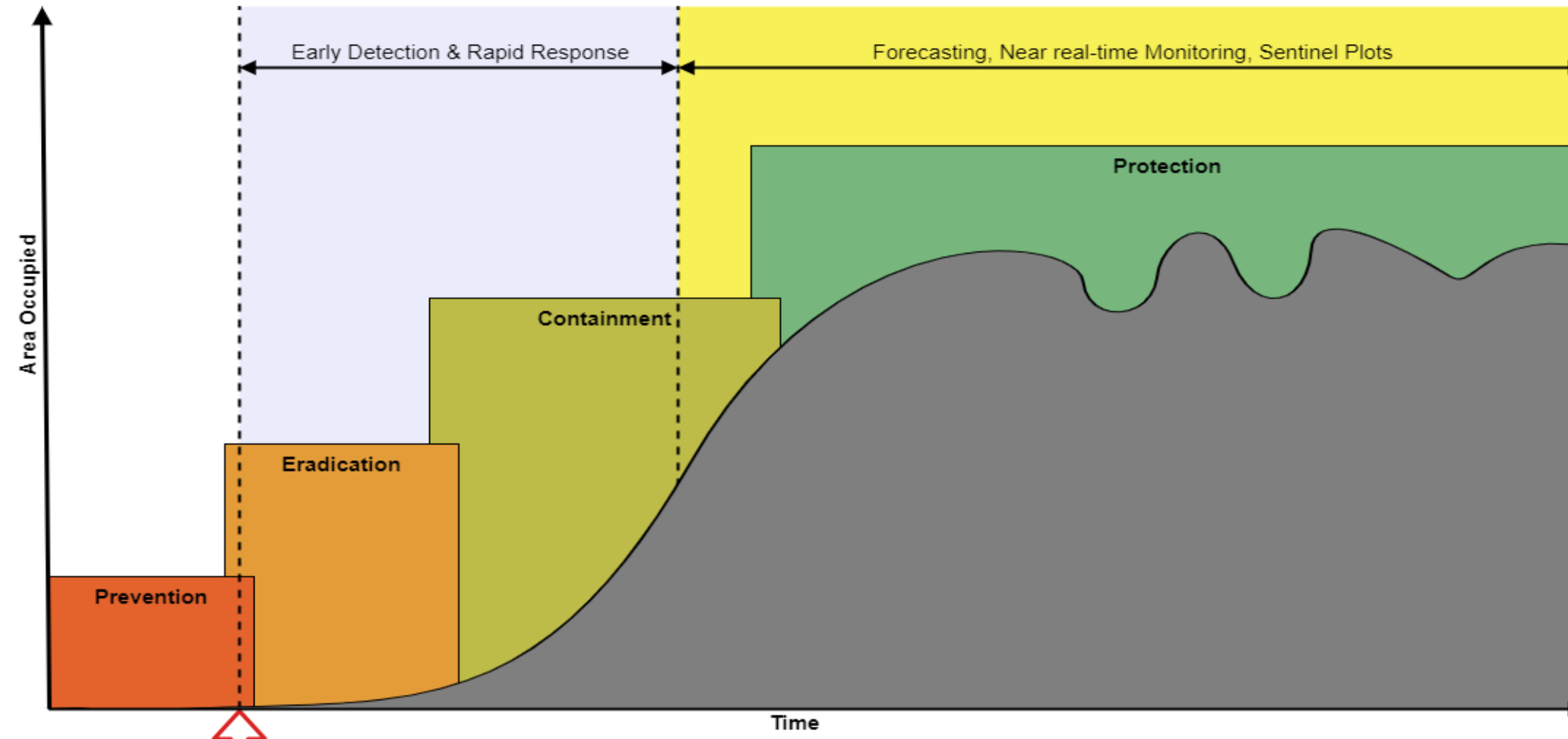


- Maintains staff with Pesticide Applicator's License
- Implement KP-CISMA Guiding Documents
- Train field staff
- Maintain and manage field data collection systems
- Obtain Landowner permissions and maintain landowner contact
- Seek funding to implement KP-CISMA priorities

Invasion curve



Invasion curve



Stages of Invasion			
Species Absent	Small number of localized populations	Rapid increase in distribution and abundance. Many populations	Widespread and abundant throughout its potential range. Populations fluctuate with environmental and biotic factors which may result in local variability for incidence and severity
Economic Returns			
1:100	1:25	1:5-10	1:1-5

Prevention

Species not present

- **Public awareness** is essential (but can be difficult to achieve)
- **1:100** return in economic investment



Prevention

Goal=increased awareness—>behavior change

- Targeted outreach and Education
- Presentations to high priority user groups
 - Kenai River Guide Academy
 - Recreation and Parks Association Annual Conference
 - Stream Watch
 - Adopt-A-Stream



Prevention

Goal=increased awareness—>behavior change

- CleanDrainDry signage at high traffic boat launches
- PlayCleanGo signs and boot brush installation at high traffic trail heads



Eradication

Removing a species population in its entirety

- Only possible if populations are localized
- **Early Detection** is essential (so is Public Awareness!)
- **1:25** return in economic investment



Eradication

Removing a species population in its entirety

- **Public Awareness** becomes easier
- **1:25** return in economic investment

An opossum's arrival in Homer spurs capture efforts, memes and a campaign to #FreeGrubby

By Megan Pacer
Updated: April 15, 2023
Published: April 14, 2023



Homer's opossum visitor, Grubby, still on the lam as town remains divided

KBBI | By Casey Grove, Alaska Public Media
Published April 19, 2023 at 7:13 PM AKDT

▶ LISTEN • 4:55



Grubby the opossum is on the loose in Homer, Alaska

I'm sorry-not-sorry for bringing you more opossum content. It's not my fault they've been so newsworthy lately! Today, I'm sharing news about Grubby

Homer P.D. search for possum

By Your Alaska Link Staff Apr 18, 2023 Updated Apr 18, 2023

Listen to this article now
Powered by Trinity Audio
00:00 00:29



Homer Police Department
WANTED:
Name: Grubby "Squeaks" Greyback
Age: Don't know
Weight: Not much
Height: About an Alley Cats size
Eyes: Beady
Cautions: Too cute really, maybe a little hiss or two when cornered. Might fall over
Crimes: Stowaway, Trespassing, Looting, Heinous Mayhem, Stealing Your Hearts, Falsifying Mayoral Candidacy.
Reward: Absolutely nothing See less

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NEWS

Wayward opossum sparks controversy

By Delcenia Cosman • April 20, 2023 1:30 am



Eradication

- Only possible if populations are localized
- **Early Detection** is essential
(so is Public Awareness!)
- **1:25** return in economic investment



White Sweetclover- produces up to **350,000** seeds per plant

Eradication

- Rapid Response
- Integrated Pest/Veg Management Plans allow for success eradication through rapid response



Community Elodea Information Meeting

Nikiski Community Recreation Center
Mile 23.4 Kenai Spur Highway
Tuesday February 19th, 2013
6 - 8:30PM



Please join us for a community meeting to discuss what to do about the discovery of Elodea in Stormy & Daniels Lakes.

Dr. Lars Anderson (USDA Agricultural Research Service and University of California-Davis), an aquatic invasive plant expert, will be at the meeting to provide information about Elodea, discuss options for management, and share his experiences in coping with aquatic infestations.

Elodea is not native to the Kenai Peninsula, and can cause serious, irreversible harm to fish and aquatic habitats if allowed to spread unchecked.

Elodea presence has recently been confirmed in Stormy and Daniels Lake on the Kenai Peninsula, and in some slow-moving waters in Anchorage, Fairbanks, and Cordova.

Elodea is a highly invasive submerged aquatic plant.



Why we don't want Elodea

Nuisance: impedes boat and float plane launching, navigation, and fishing	Safety: fouls float plane rudders and boat propellers	
Economic: reduces property values by fouling launch sites and shore habitats	Ecological: degrades salmon spawning habitat	

Meeting Open to the Public
For more information, please contact Janice Chumley at UAF-Cooperative Extensive Service, 907-262-5824



Eradication

- **Post-treatment monitoring**
- For AIS, 5 years of negative survey data is needed for an infestation to be considered “eradicated”



Containment

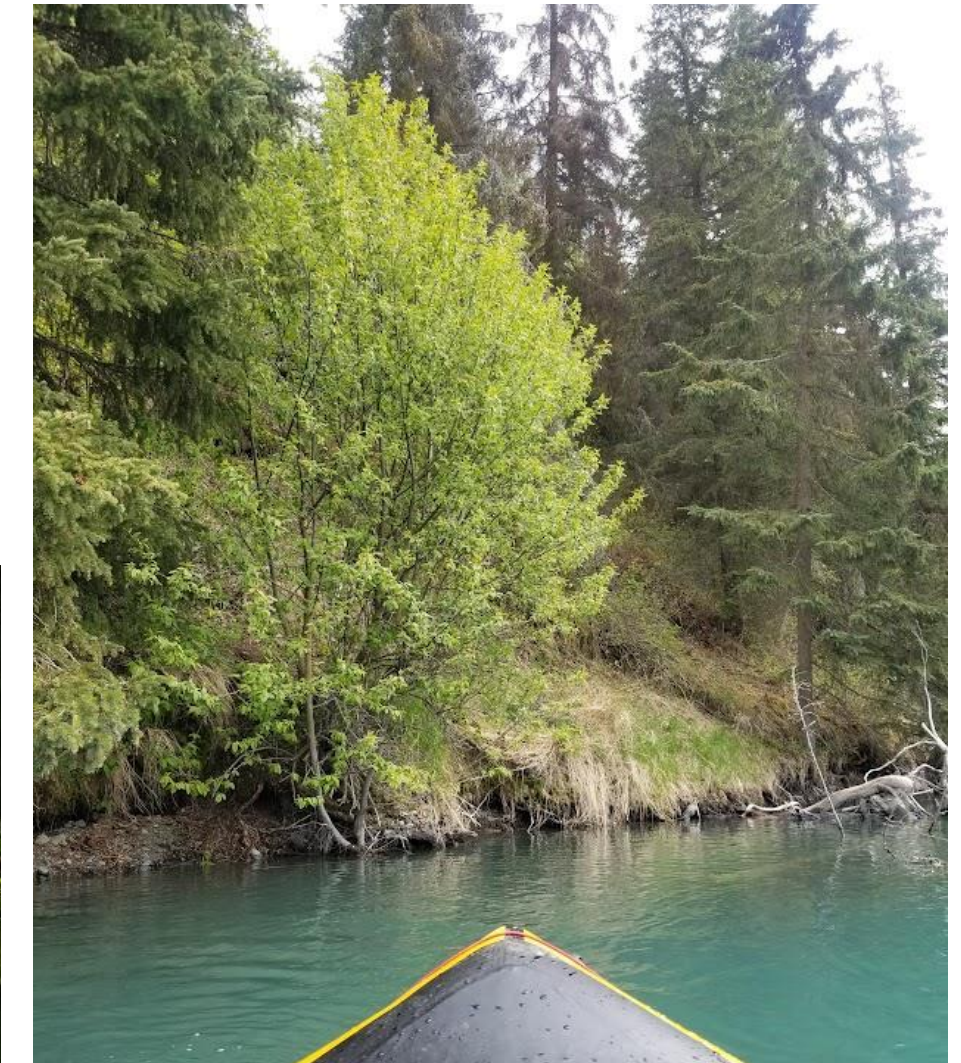
Reducing further spread of an introduced species

- Rapid increase in distribution and abundance; eradication unlikely
- **1:5-10** return in economic investment



Containment

- European Bird Cherry
 - Riparian corridors
 - Hope
 - Cooper Landing/Upper Kenai River
- Control in high risk pathways



Resource Protection

Long-term management aimed at population suppression and facility and resource protection

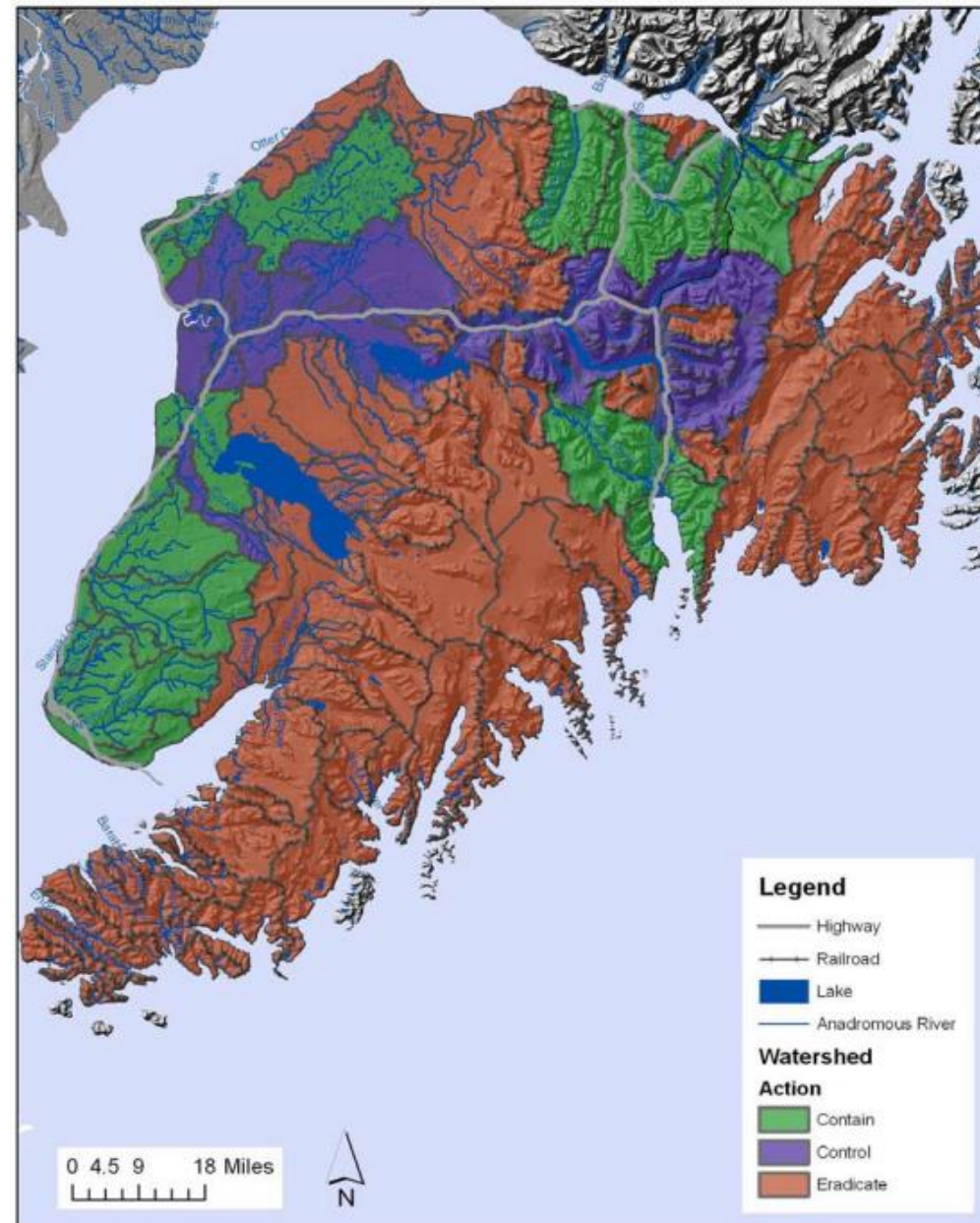
- Invasive species widespread and abundant
- **1:1-5** return in economic investment



Resource Protection

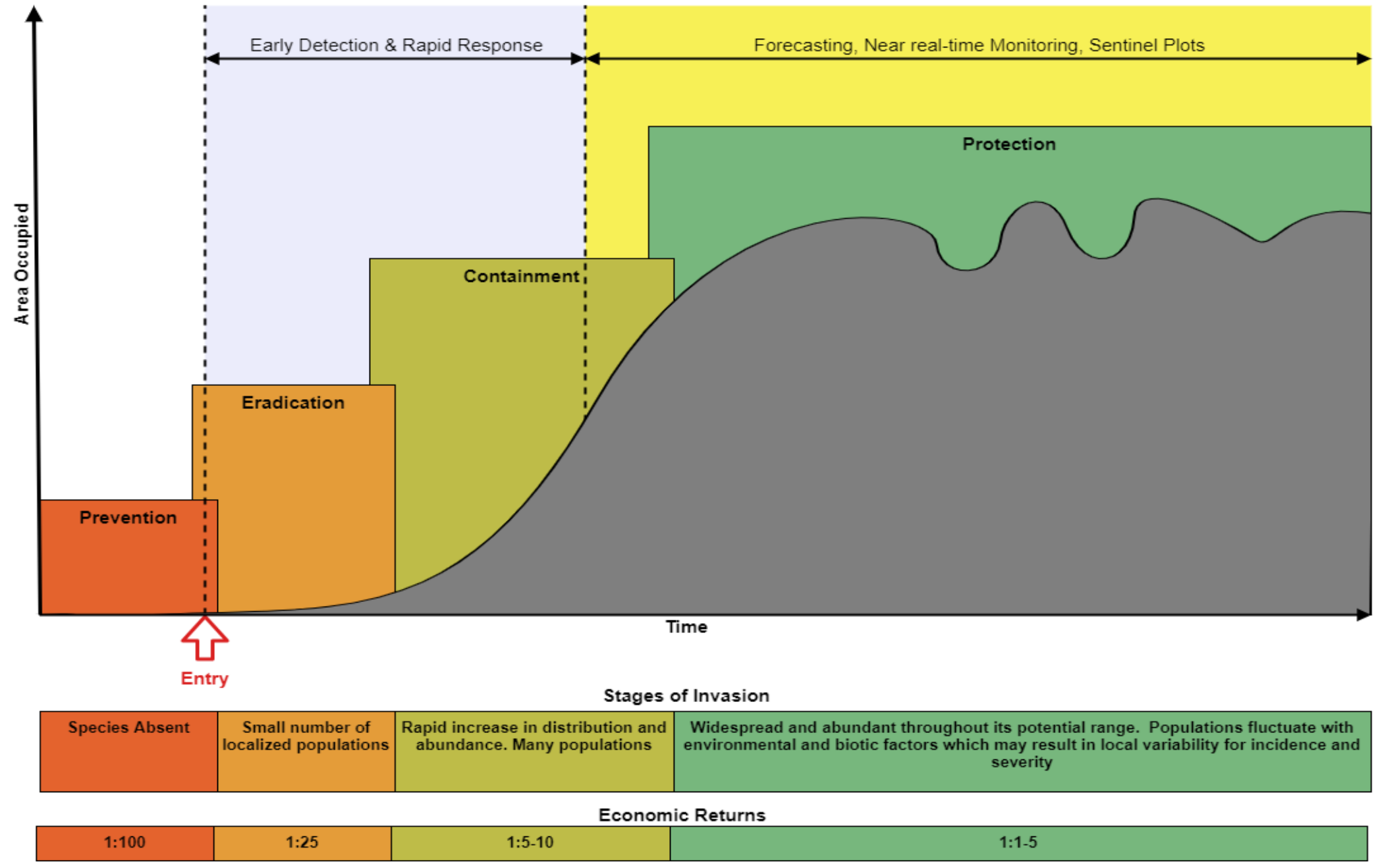
Reed Canarygrass

- Eradication is no longer feasible on the Kenai Peninsula
- Managing at a watershed level scale
- Streams have been prioritized for restoration activities based on several attributes including importance to salmon habitat



Invasion Curve

What have learned? Where do we go?





Thanks to our funders and partners!



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QUESTIONS?



KENAI WATERSHED FORUM

Maura Schumacher
maura@kenaiwatershed.org

