

TOOLS FOR INVASIVE PLANT MANAGEMENT ON ROADSIDES



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FEW TOOLS AVAILABLE FOR LARGESCALE USE

MOWING



HERBICIDE



REMOVAL



SUMMARIZATION OF EACH METHOD

- How it works
 - Timing to maximize success
 - Considerations
 - Cost to implement
 - Risks
-

MOWING

- How it works: prevents seed production
- When to mow: species specific
 - Correct timing reduces the # mowing
- Costs to mow
 - \$70-150/lane mile (1.2 acres)
- Considerations
 - mowing time is 2-4 week timeframe



HERBICIDE (BROADCAST)

- How it works: kills plants
 - Prevents seed production for 1-2 yrs
- When to spray: species specific, flexible
- Costs to spray= \$12-65/A*
 - \$2-35/A = + application costs (\$10-30/A)
- Considerations
 - Follow label restrictions, off-target injury

* 1 acre = 1.2 miles road (10 ft swath)



HERBICIDE (INDIVIDUAL PLANT TREATMENT)

- How it works: kills plants
 - Prevents seed production for 1 year
- When to spray: species specific, flexibility
- Costs to spray= depends on weed density
 - Demonstrations ranged between \$13-87/A*
- Considerations
 - Can avoid damage to desirable plants, minimize off-target injury, and sensitive areas



* 1 acre = 1.2 miles road (10 ft swath)

REMOVAL (SEVERING ROOT)

- How it works: kills plants
 - Prevents seed production (1 year)
- When: anytime before flowering
- Costs= depends on weed density
 - Demonstrations were \$122/A*
- Considerations
 - Can you get volunteers to do?



* 1 acre = 1.2 miles road (10 ft swath)

PREVENTION IS THE BEST MANAGEMENT TOOL



- Don't mow when seeds are present on the plant
 - If mow clean equipment
- When construction, try to make sure inputs are weed-free
- Inspect new constructions next year
 - manage new infestations found



ALL COST MORE MONEY

USING PGRS CAN REDUCE MOWING COSTS

- Use plant growth regulating herbicides to **reduce** grass growth \$20-40/A
 - Plateau (4 fl oz/A), Escort (0.75 oz/A) = \$10/A
 - Application cost = \$10-20/A
- Will reduce # of mowing in a season
 - Don't need to mow until July/August
- Also have activity on some invasive plants
 - Wild parsnip, wild chervil



WILL VISIT DEMONSTRATIONS LATER TODAY

LARGESCALE (4-CONTROL)

Comparing 4 common methods

1. Broadcast Opensight + PGR
2. Broadcast Opensight + Escort
3. Broadcast GF 3886
4. Spot treat 2,4-D + Dicamba

SMALLSCALE (UWEX)

Demonstrating range of control of various treatments

- 5-7 herbicides +/- PGR
- 2 appl. methods (spot vs broad)
- 3-4 mowing trts
- Hand removal

SUMMARY

- Tools exist to manage invasive species highlighted
 - Methods and timings are species specific
 - All methods have positive and negative aspects
- Obstacles to management are present
 - Knowledge
 - Resources (time/money/equipment)
 - Public acceptance (herbicides)
- It will take a coordinated approach
 - Stakeholders needed.....

