INVASIVE PLANT MANAGEMENT ON **ROADSIDES**

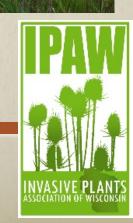




















TODAY'S OBJECTIVES

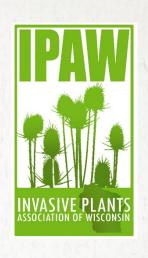
- 1. Identify common roadside invasive plants
- 2. Tools to map invasive plant locations
- 3. Management methods on roadsides (mowing, herbicides, removal)
 - Effectiveness, costs, benefits, and risks
- 4. Develop an invasive plant management program and integrate it into existing vegetation management plan



RESOURCES AND EXPERTS AVAILABLE













WHAT IS AN INVASIVE SPECIES?

Two main points

1. Not native to the area

2. Capable of causing harm

- Environmental
- Economic
- · Harm to human health



EXAMPLES OF IMPACTS ON ROADSIDES

- Harm to human health
- Impact infrastructure
- Prevent establishment of desired vegetation
 - Pollinators
 - If not established erosion increased





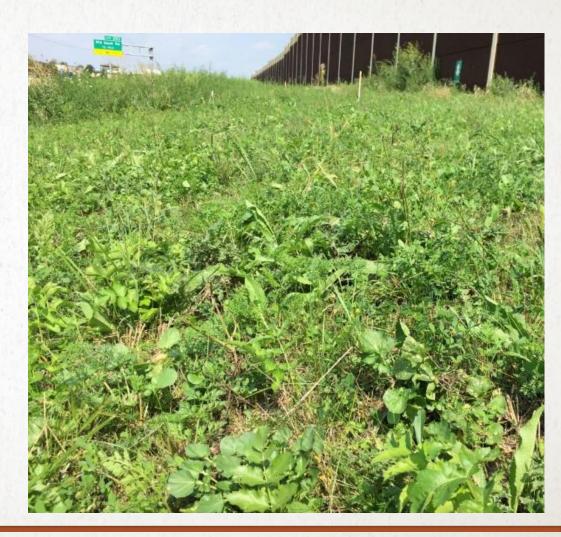


ROADSIDES ARE HIGHLY SUSCEPTIBLE TO INVASION

Frequently disturbed

Propagules spread along roads

Intersect many properties



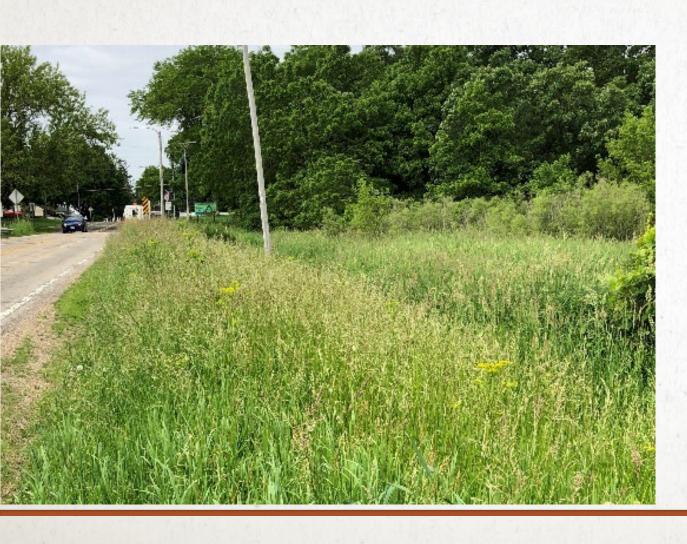
OFTEN MANAGEMENT IS EASY, BUT.....

- Mowing for 3-4 consecutive years can eliminate
 - BUT mowing must be done in a 2-4 week period
- One herbicide application can provide two years of control
 - BUT cost extra \$\$\$\$, may injure other plants/crops, community may not support



If nearby populations are not managed, effort will be required indefinitely

INFESTATIONS ARE TYPICALLY LOCALIZED TO SPECIFIC ROADS

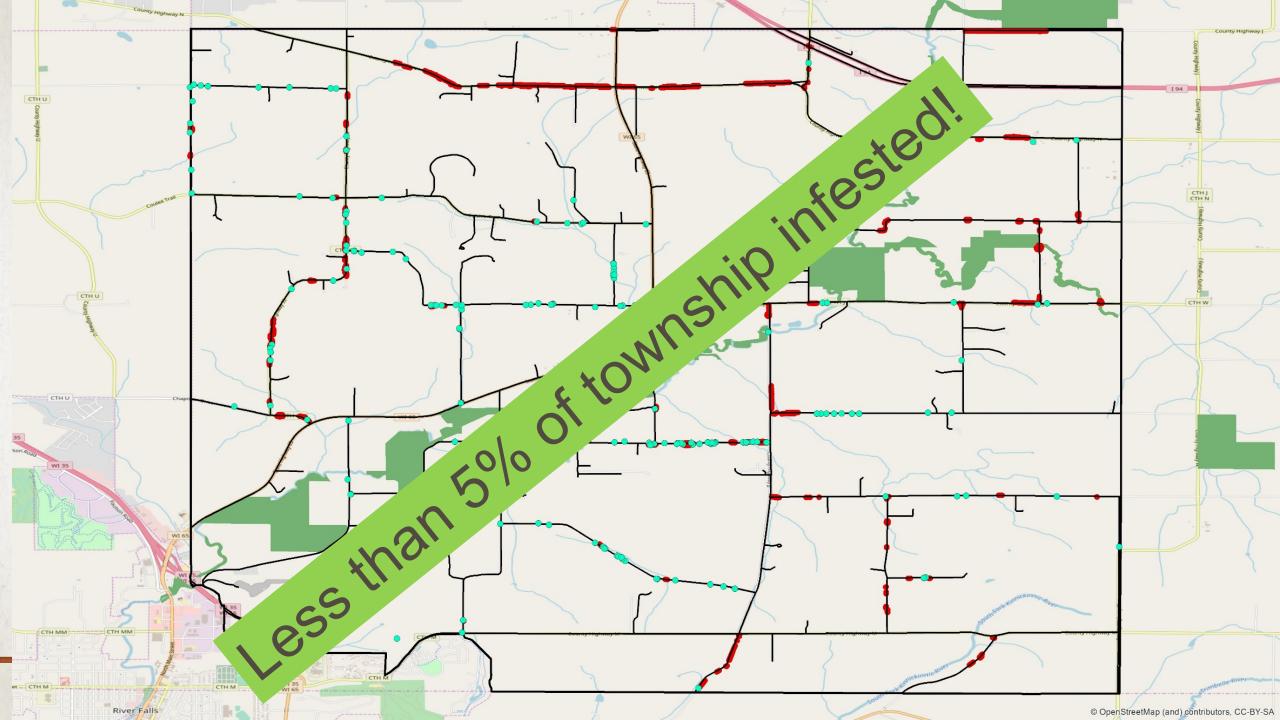


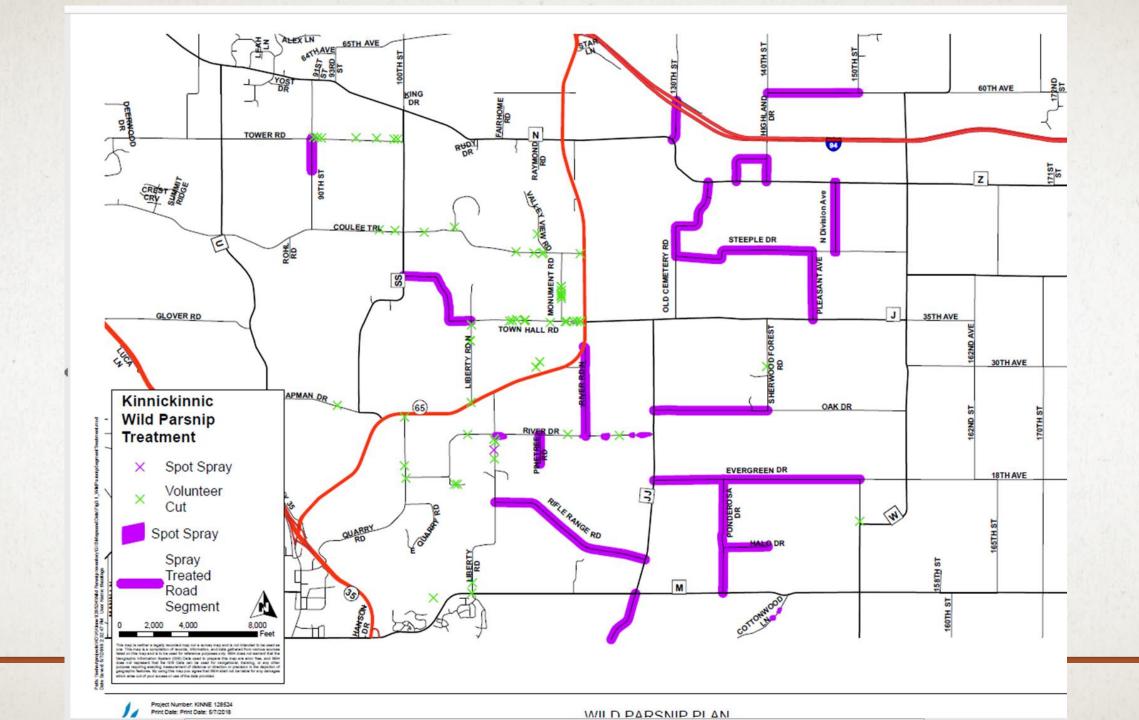


APPROACHES TO MANAGEMENT



Wild parsnip invading roadsides, volunteers mapped all roadsides in town





IT TAKES A COMMUNITY-WIDE RESPONSE TO REDUCE INVASIVE PLANTS ON ROADSIDES

Keys to developing a successful management plan

- 1. Determine which species to manage
- 2. Map locations
- 3. Prioritize management and conduct control
- 4. Manage populations not on roadsides

Conduct for multiple years (3-4 minimum)

TODAY WE WILL.....

- Identification of common roadside invasive plants
- Discuss tools for management and how to apply
 - largescale demonstrations
 - smallscale demonstrations
- Overview challenges and discuss options to overcome
- Discuss mapping options for roadsides
- · Overview how to develop an integrated management plan

WILL FOCUS ON EASY TO CONTROL SPECIES







RESOURCES TO ASSIST IN CONTROL

University of Wisconsin Extension

- https://renzweedscience.cals.wisc.edu/
 - 49 invasive plant identification factsheets
 - Research summaries
- https://fyi.extension.wisc.edu/wifdn/
 - WISTIP viewer (invasive plant maps)
 - Phenology calendar
 - Other educational resources



Brendon Panke and Mark Rend

and aggressively spread beyond their natural range, disrupting ecosystems. The Maragement of Laursive Mara's in Wisconsin series explains how to identify invasive plants and provides common management options. Management methods ecommendspecific timings for treatment, as well as expected effectiveness. For more information, go to:

(yi.u.vex.edu/weedsci/category/invasive-plants of hysiconsin.

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Japanese knotweed

(Polygonum cuspidatum)

parenes knotweed is an harbococus peremial, growingupto 10 fall. Hollow, reddidt, arching bamboo-like dwins are smooth and stout, and they can persist after plant dies backed hy var. The base of the stem above each; oinkies wollen and surrounded by a membranous sheath foor vail.

Legal dassification in Wisconsin:

Leaves: Alternate, eggshape dit o almost triangular, 4-6/long, 3-4/Wide Dank green on upper surface and pole green on lower surface.

Hower's Blooms in late summer. Flowers are numerous, highly branched, tiny, creamy white or greenish and found where the lear attaches to the stem (wills), near the tips of stems.

Prui is an diseeds: Small, winged, triangular fruits carry very small, shiny seeds.

Roots: Rantsariding from see dhave a taprootup to 6 deep. Stoutrhizomes can reach & or more from parent plantsand give rise to new stalks Plants arising from see dand thizome also have fibrous roots. Similar species Gantknotweed (? suchal/www) is also invasive, but grows up to 13*tail with larger leaves The two species are known to hybridize.

Boological threat

- Invades uplandand lovelandsites that are disturbed and undisturbed.
- Poses a dignificant threat to riparian areas, where it can rapidly spread.
- It tolerstes shade, high temperatures, high salinity, and drought.
- It can be transported to new steeps a contaminant infill drift or on equipment.
 During floods, it spreads downer earn by shoot fragments, rhitomes or occasionally by seeds. Broapees from reglected gardeneand discarded outlings are common routes or dispensal from unten asset.
- Althoughreported to not produce viable seed several studies have shown that populations of Innotiveed in the United States can produce viable seed that readily germinate and survive in field conditions.





