

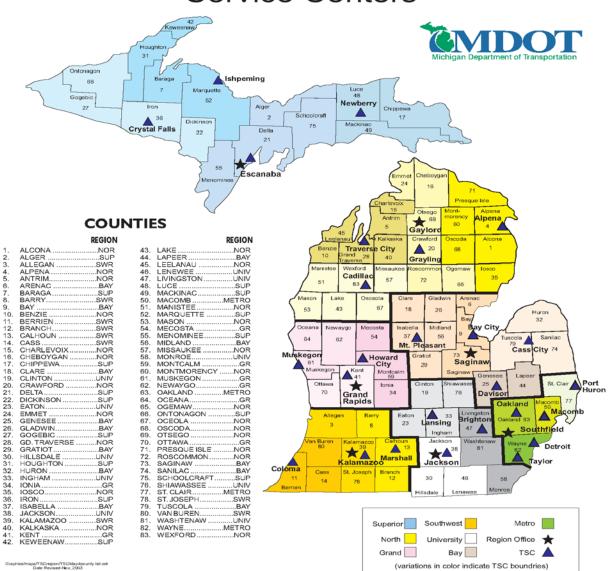


"It's good to know about trees. Just remember nobody ever made any big money knowing about trees."

#### **About MDOT**

- I, US, and M Routes
- 10,000 + miles of roads
- Divided into seven Regions and 26 TSCs
- Region Resource Specialists
  - one per Region
  - provide specialized expertise in vegetation management for our Regions
  - work with specialists in our Roadside Operations area and Environmental Section
  - our role in Phragmites management

#### **MDOT** Regions and Transportation Service Centers



31

33.

#### How MDOT Works

- Design
- Construction
- Maintenance
  - MDOT personnel
  - county road commissions under contract
  - private contractors

#### MDOT's Phragmites Management Philosophy

- "Eradication"
- Each Region has a program
- Region philosophies similar
  - Eliminate small patches "seek and destroy"
  - Dedicated efforts in targeted areas
    - larger scale infestations
    - wetlands

### MDOT's Priorities

# Safety

# Signs



## Guardrail



# Clear Vision Areas



# Operational

## Ditches



#### Other Structures



#### Wetland Mitigation Sites



- Built to replace wetlands lost during road construction
- Regulated by USACE & DNRE
- MDOT is required to meet certain vegetation standards

#### Challenges

- ROW issues
  - Linear nature of ROW
  - Different types/different approaches
    - fee
    - easement
    - permitted
- Funding/staffing
- Offsite presence of Phragmites





#### MDOT Control Strategies

- Primarily herbicide treatments
  - Linear ROW inappropriate for burning
  - Cannot manipulate water levels
- Herbicides used
  - Roundup Pro/Rodeo (glyphosate) with drift control agent
  - Arsenal/Habitat (imazapyr)
- Cultural methods
  - no mowing w/o prior treatment
  - notes on project plans

#### MDOT's Roadside Spray Program

- Six distinct categories
  - guardrail
  - weed
  - brush
  - plant growth regulator
  - pavement
  - Phragmites/invasive species

#### MDOT's Roadside Spray Program

- Spraying done by Maintenance
  - each Region has crews who spray
  - limited private contractors
- All applicators are MDA certified
- Annual training

#### MDOT's Roadside Spray Program

- 2009 Figures
  - Almost \$1.7 million statewide
- 2010 Figures
  - Sprayed 22,814 acres total all categories
  - 2,280 acres of Phragmites
  - Total herbicide purchase amount \$835,156
  - Phragmites program \$200,000+ in labor, equipment and chemical

# Equipment



- ¾ ton 4x4 pickup
- 300 gallon tank
- 5 hp Briggs w/pump
- Hand Sprayer
- 30' hose/reel
- Spill Kit
- Washing station/tank
- Lock box for chemicals



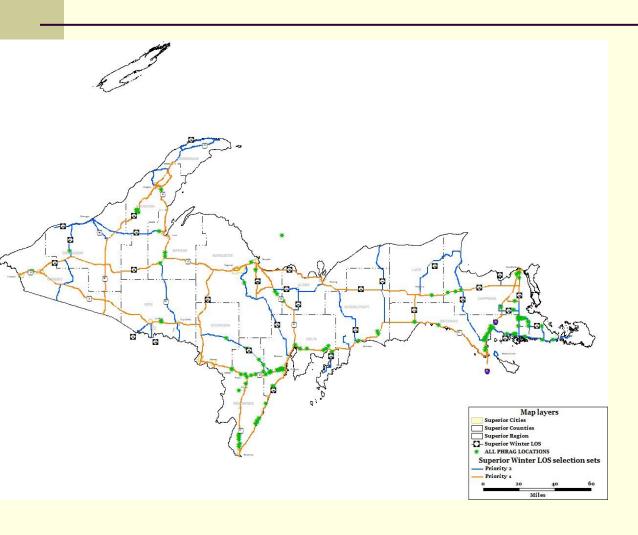








#### **Program Improvements**



- MDOT more intentional with our program
  - planning
  - record keeping
- GIS/GPS
- PavementManagementSystem

### Working Together

- Partnering with other agencies and states
- Permitting treatment by others on ROW
- Coordinating treatment of problem areas



#### **Permits**

- Permit approval in 5 45 days from TSC
- Applicant is responsible for environmental clearances that may be needed
- Signage and traffic control will be required
- http://www.michigan.gov/mdot
  - Scroll down to Favorite Links
  - Click on Permits
  - Click on Right-of-Way Construction Permits

#### **Region Resource Specialists**

