



BUREAU OF Field Services

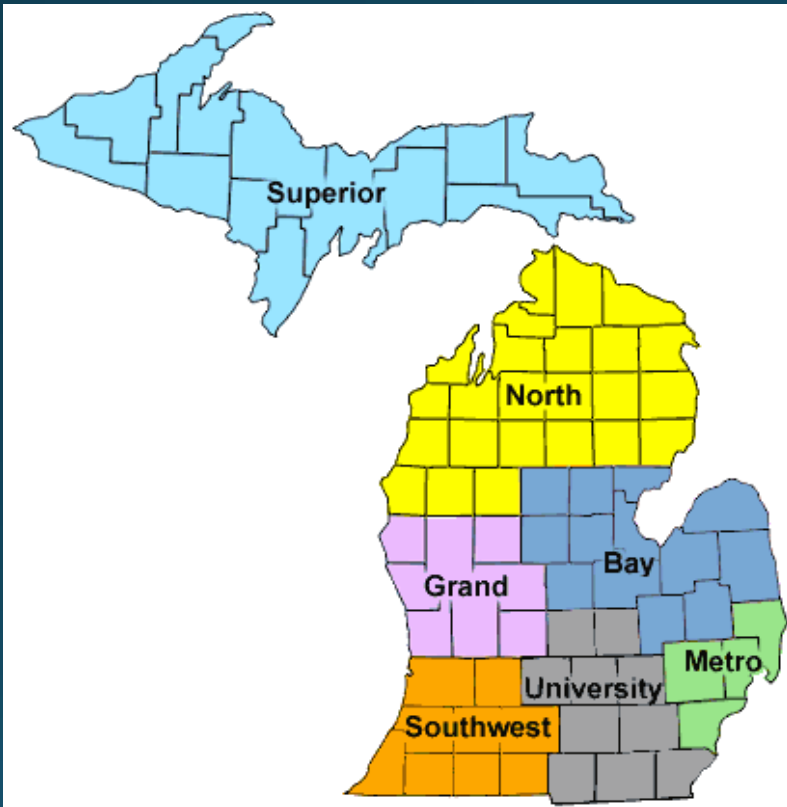


CONSTRUCTION • OPERATIONS • RESEARCH • SAFETY & SECURITY

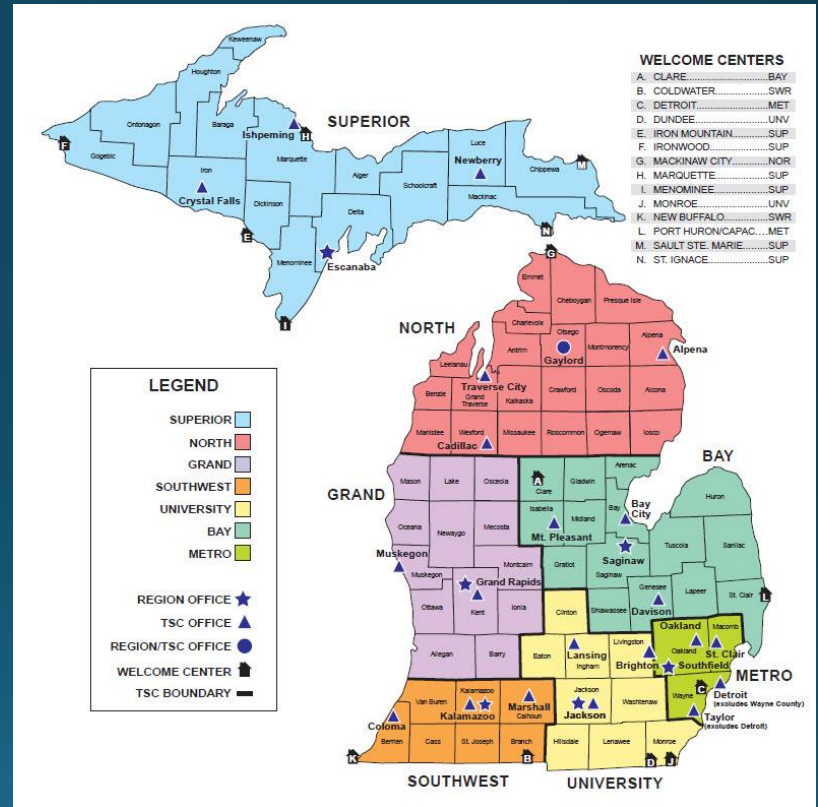
No Boundaries-St. Louis 2015

MDOT MAINTENANCE PROGRAM

MDOT Region Map-Pre-2015



MDOT Prosperity Region Map



MDOT Forces 2005



36

Maintenance
Garages



5 Special
Crews
Facilities



565 Transportation
Maintenance Workers

MDOT Forces 2015



*36 Maintenance
Garages



*5 Special
Crews
Facilities

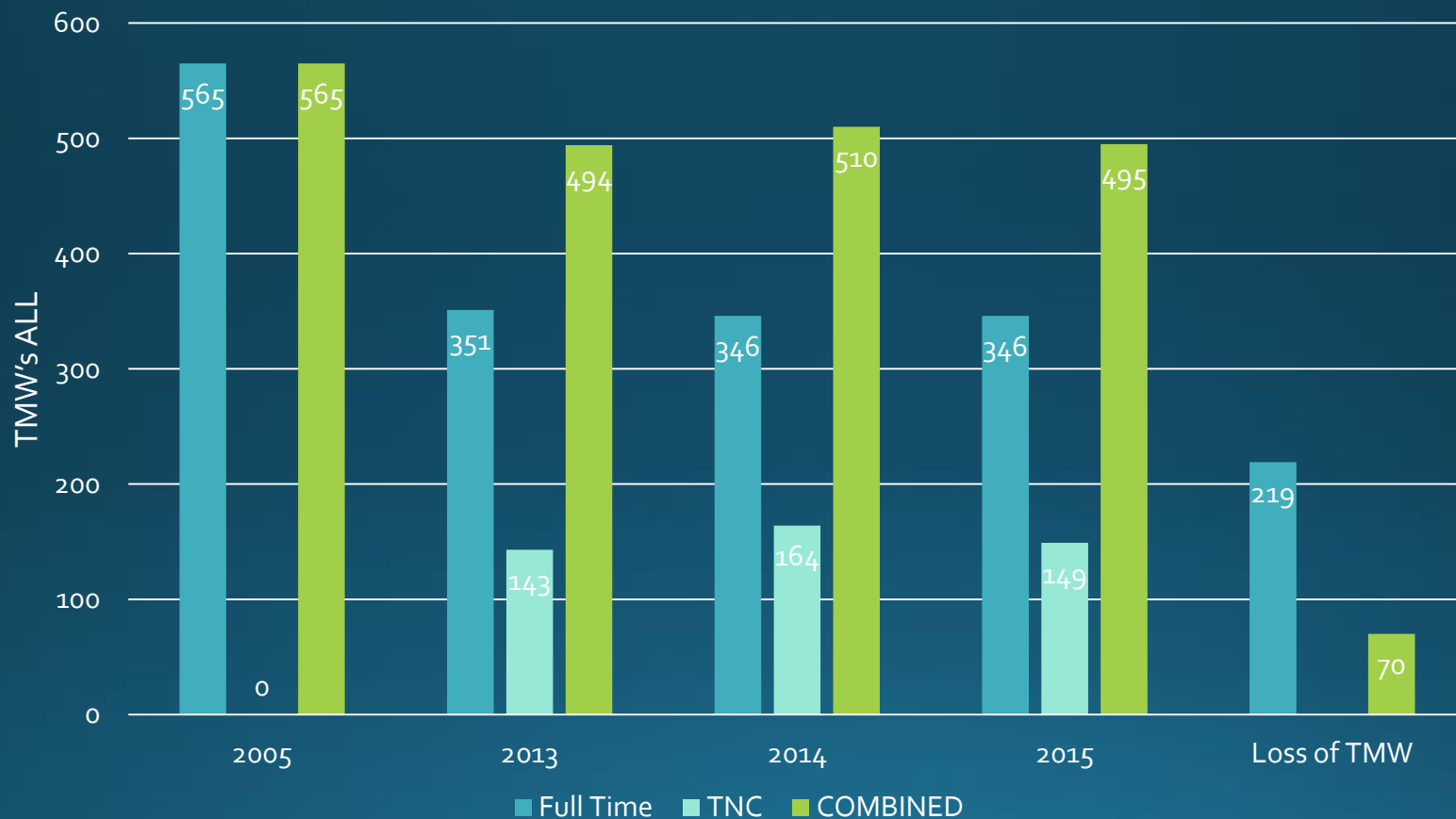


346 Transportation Maintenance
Workers

60/40 Concept

149 Temp-NON Career "720"

MDOT Direct Forces - Trend



Statewide "Special Crews"

- Signal
- Sign Fabrication
- Facility Maintenance
- Electrical/Pump house
- Overhead Sign
- Bridge/Structures
- Vegetation Management



Bridges



MDOT maintains over 4,300 bridges, and inspects all its bridges at least once every two years. Replacement, rehabilitation, preventive maintenance and routine maintenance all help to maximize the life of the bridges.

Rest Areas



MDOT has 81 Rest Areas, including 13 Welcome Centers - the third most of any state in the nation, serving more than 45 million visitors annually. MDOT also has 85 Roadside Parks.

Signs and Signals



MDOT maintains almost 5,000 electrical devices including over 3,200 stop-and-go signals.

There are over 450,000 signs in Michigan. The anticipated life of a sign is 15 years, with over 30,000 signs being replaced annually.



Vegetation Control



MDOT maintains almost 10,000 miles of roadside including over 80 tourist facilities.

There are more than 40 certified applicators and over 30 spray rigs in the department.



Winter Maintenance in Michigan

The severity of the winter has a direct impact on the non-winter maintenance activities

- Equipment Budget
- Roadside Program
- Facilities/renovation
- Routine Maint.
- Etc.....



MDOT Maintenance Activities

Group: Roadside Maintenance

PCA	Description	Unit of Measure	Grant	Proj
12000	Tree Removal	Each	Required	
	Removal of any size tree from state right-of-way.			
12100	Stump Removal	Each	Required	
	Removal of tree stumps from state right-of-way.			
12200	Catch Basin Cleanout	Each	Required	
	Cleaning the inside of catch basins, manholes, or inlets to ensure proper drainage.			
12300	Ditch Cleanout & Check Dam Maintenance	Lineal Feet	Required	
	Roadside ditch clean-out includes the removal and disposal of debris to ensure proper drainage.			
12400	Litter Pickup	Hours	Required	
	All types of litter pickup of the state right-of-way to remove hazardous objects. Use in conjunction with Activity 12600 if performed prior to mowing.			
12600	Area Mowing	Acres	Required	
	Machine mowing or manual removal of roadside grass or large areas of brush, small trees or shrubs.			
12700	Brush Control	Hours	Required	
	Removal of brush from the state right-of-way to ensure proper drainage.			

MDOT Maintenance Activities

12700	Brush Control	Hours	Required	
	Spot removal of small areas of brush, small tree growth, or shrubs within the state right-a-way.			
12800	Culvert, Underdrain & Edge Drain Cleaning	Each	Required	
	Cleaning of all types of culverts and underdrains to keep in serviceable condition.			
12810	Culvert, Underdrain & Edge Drain Maint.	Hours	Required	
	Repair of culverts or tiles 10 ft. or less in diameter.			
17100	Tree Trimming	Each	Required	
	Trimming street or roadside trees for the purpose of removing dead wood and providing clearance and clear vision.			
17200	Vegetation Control	Acres	Required	
	Spraying roadside right-of-way and other state properties for the purpose of controlling undesirable vegetation.			
17420	Plant Trees	Each		
	Planting trees within the state right-of-way or on other state properties.			
17500	Retention/Detention Basin Maintenance		Required	
	Inspection and removal of accumulated sediment to maintain proper function.			
17900	Other Forestry	Hours	Required	

PCA Work Codes-Maintenance

12600 - Area Mowing

'07 - 4540 Acres

'15 - 2898 Acres



13200 – Approach Sweeping

'07 – 6044 Each

'15 – 2394 Each



PCA Work Codes-Maintenance

11200 – Gravel Shoulder Maintenance

'07-7090 Miles

'15-5094 Miles



12200 – Catch Basin Cleanout

'07 – 8085

'15 – 326



Metro Detroit Flood 2014



PCA Work Codes-Maintenance

12300 – Ditch Cleanout

'07-110,00 Ft.

'15-24,000 Ft.



12800 – Culvert and Edge Drain Cleanout

'07 – 1845

'15 – 1530

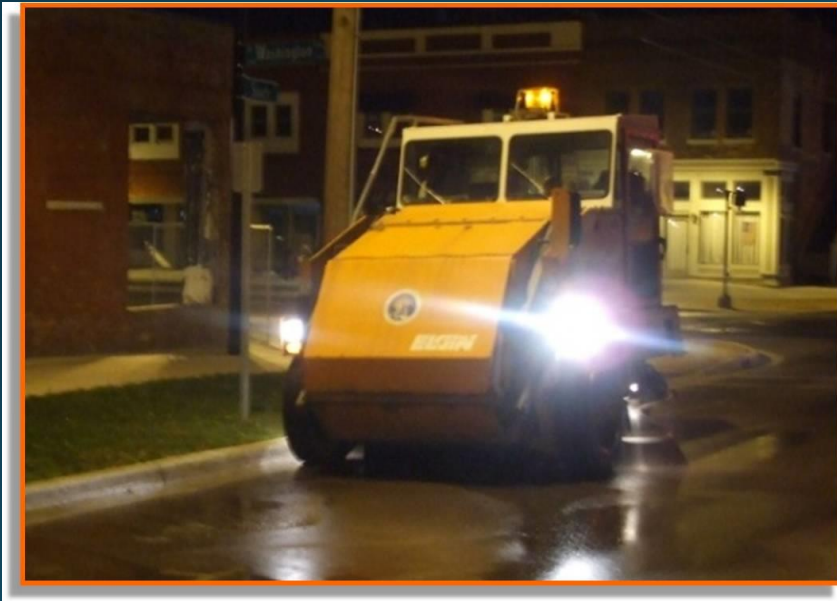


PCA Work Codes-Maintenance

13600 – Curb Sweeping

'07-347 Miles

'15-44 Miles



18600 – Roadway Inspection

'07 – 10,500 Hours

'15 – 5874 Hours



Opportunities for MDOT

* Revisit roadside maintenance activities

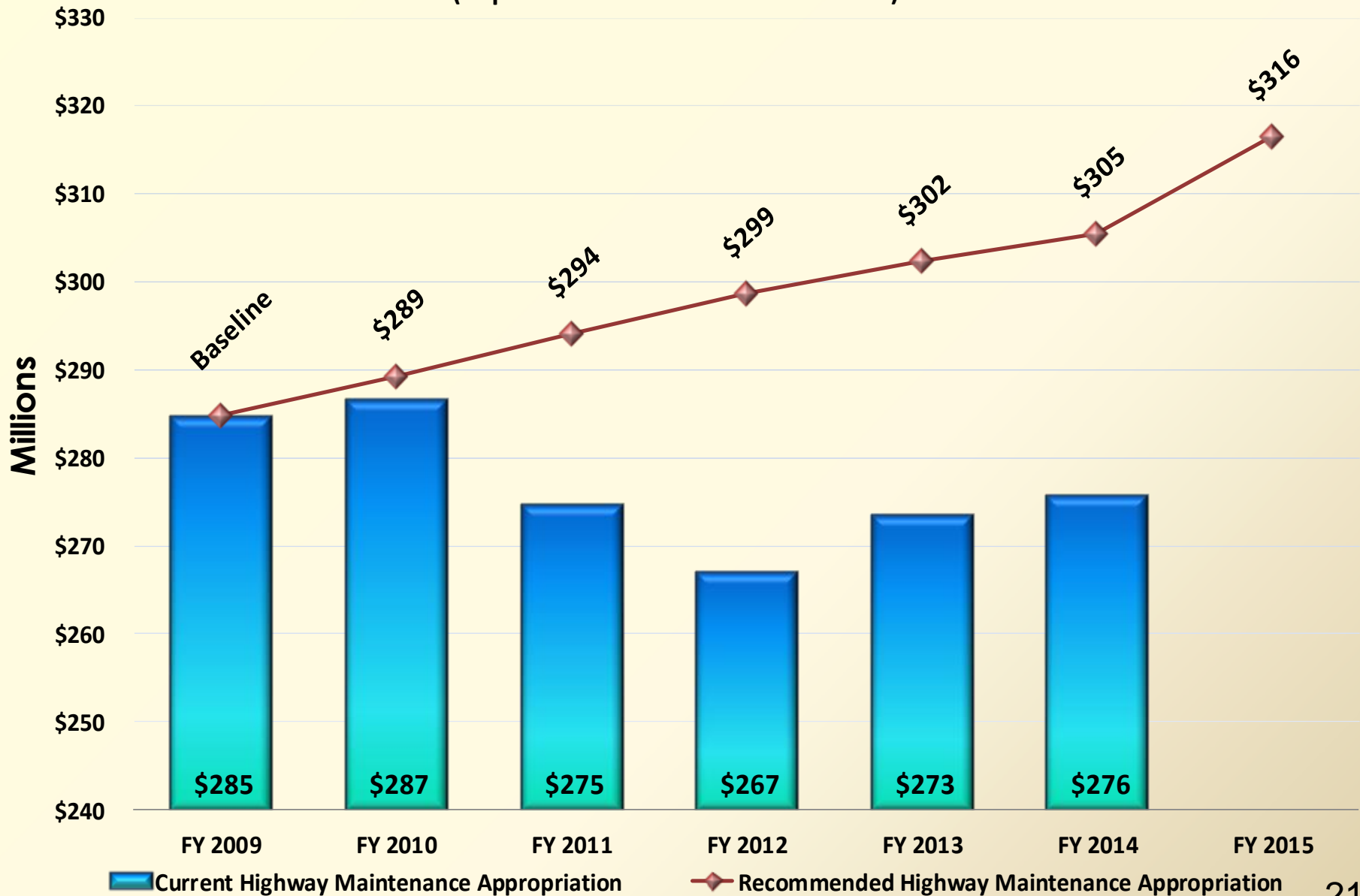
- Identify activities that have a high priority
- Identify cost/benefit of performing activities
- Ask the question “just because we have done it that way forever, is it still the most efficient way to do it?”



Highway Maintenance Appropriation Gap FY 2009 - FY 2015

Recommended FY 2015 Appropriation

(Represented in Current Year Dollars)





Thank you!