



WisDOT Update

Dewayne Johnson, PE
WAPA Conference
November 29, 2016



PIE!

Innovation



Partnership

Efficiency

Lab Staff

Steve Krebs – Director, Bureau of Technical Services
Barry Paye – Chief of Materials

Concrete Materials Laboratory		
10-15-07-11-00		
012131	SWB	100
Frank, Russell	CE Trans Sup	
338700	SWB	100
Lyngdal, Erik	CE Trans Sr	
022262	SWB	100
Andreini, Matthew	ES Trans Adv	
021110	SWB	100
Downing, Robert	ES Trans Adv	
018780	SWB	100
Fitzgibbon, Patrick	ES Trans Adv	
022696	SWB	100
Gambetty, Zachary	ES Trans Sr	
001656	SWB	100
Carlson, Gary	ETT Adv	

HMA Materials Laboratory		
10-15-07-12-00		
338586	SWB	100
Hefel, Steven	CE Trans Supv	
017766	SWB	100
Kopacz, Daniel	CE Trans Adv	
000172	SWB	100
Syron, Scott	ES Trans Adv	
035550	SWB	100
Anderson, Jeffery	ES Trans Adv	
006977	SWB	100
Barden, Richard	ES Trans Adv	



HMA Performance Testing

- ▶ WisDOT is currently conducting testing for:
 - Hamburg Wheel (Moisture Sensitivity & Rutting Potential)
 - Disc-shaped Compact Test (Low Temperature Cracking)
 - SCB: Semi-Circular Bend (Fatigue Cracking)
 - Ignition Oven (AC Content)



WisDOT/WAPA Initiatives

Green Team

- ▶ Set priorities and move forward with initiatives

Membership:

- ▶ WisDOT
 - Senior Management Team
 - Bureau of Technical Services
 - Bureau of Project Development
 - Region
- ▶ Industry
 - WAPA
 - Paving Company Senior Management:

HMA Tech Team

- ▶ Focused on Standard Spec Revisions, Construction & Materials Manual, Facilities development manual, Highway Technician Certification Program and Green Team Initiatives

Membership:

- ▶ WisDOT Bureau of Technical Services
- ▶ WisDOT Regional reps
- ▶ FHWA
- ▶ Industry Technical Reps



Aggregate Tech Team

- ▶ Restarted in 2016
- ▶ Russ Frank – DOT Lead
- ▶ Industry & WisDOT participation
- ▶ Revisions made to base course specifications
- ▶ Looking to improving source verification testing and tracking
- ▶ More to come in 2017



Green Team Updates

- ▶ Look to new technology areas
 - Interlayers
 - Pavement Preservation
 - Thin Overlays
- ▶ WisDOT and Industry working together on future trends
- ▶ FHWA participation



Green Team Communication

- ▶ WAPA & WisDOT partnership to share the spec changes with diverse audiences
 - WisDOT internal training
 - Wisconsin Counties Highway Association
 - Wisconsin Towns Association
 - Black Bag Lunches
 - Conferences & Workshops (like this one!)



Examples of how we're improving

Efficiency	FY16 savings
Use of recycled materials	\$19.6M
Cold-in-Place Recycling	\$1.47M
Extended life of hot mix asphalt	\$1.6M

Performance measure	How we measure it	Current report period	Goal	Goal met	Trend	Comments
Preservation: Protecting, maintaining and operating Wisconsin's transportation system efficiently by making sound investments that preserve and extend the life of our infrastructure, while protecting our natural environment.						
Program effectiveness Calendar year 2015	Scheduled improvement projects compared to modeled roadway needs (as a percent)	Location: 86; Scope: 65; Time: 85	Location: 80; Scope: 65; Time: 65	✓	↑	Location, scope and time will likely continue to improve as refinements to a statewide scoping theme and prioritization mechanism are completed and implemented.
State highway pavement condition (backbone) Calendar year 2015	Percent of state highway pavement rated fair or above	97.6	90.0 rated fair or above	✓	↑	Backbone pavement needs are prioritized because while they represent only 13.5 percent of state trunk highway miles, they carry 49 percent of traffic and approximately 70 percent of the freight tonnage and value.

Learn more with the MAPSS Performance Improvement Scorecard - WisconsinDOT.gov



Closer Look at Cold-In-Place Recycling

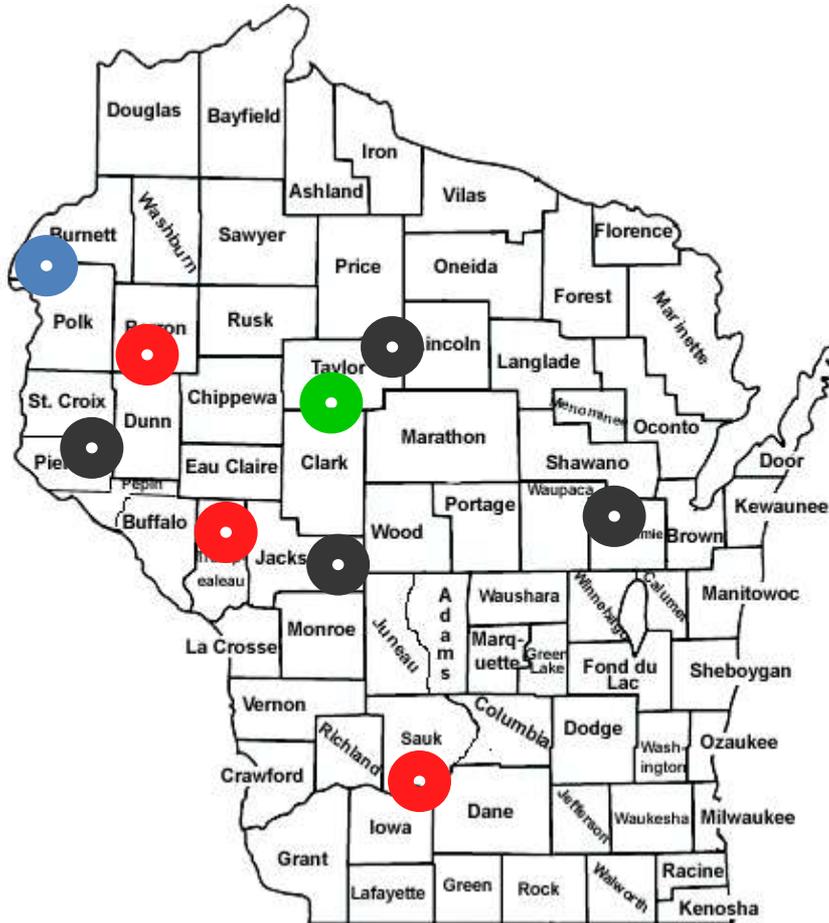
- ❑ CIR uses mechanical process to produce RAP from the existing pavement, add a stabilizing agent, relay & compact into a stabilized base.



- ❑ Typical CIR process treatment depth - 3 to 4”



CIR Projects Map (Since 2012)



Construction Year	Project Length (Lane-Mile)
2012	26
2014	24
2015	50
2016	58
Total	158



STH 64 (Gilman - Medford)

