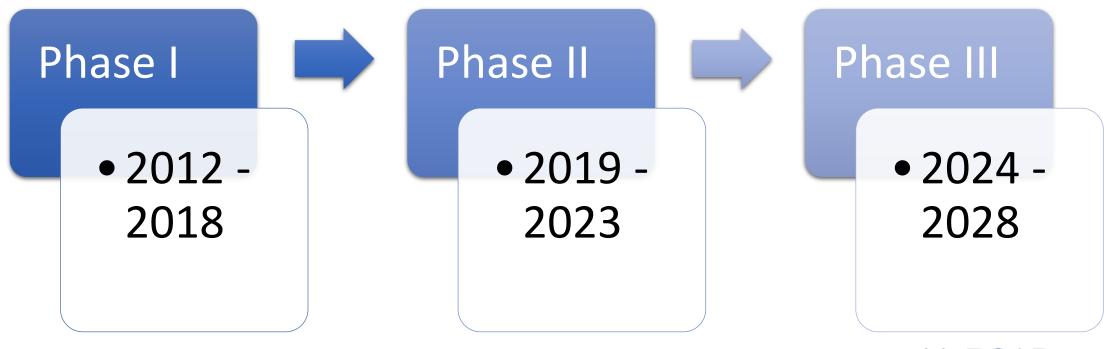




Pavement Preservation Study - Phase III (PG3)

Pavement Preservation Group Study







Pavement Preservation Group Study

- Phases I & II
 - TPF-5(267) Led by ALDOT
 - TPF-5(375) Led by MnDOT

 Objective was to quantify the life-extending benefits of various treatments



PG Study Timeline





North cold recycled treatments placed on 70th Street in Albertville/Otsego, MN







2015

NCAT-MnROAD

NCAT-MnROAD partnership is established.

Test sections placed on highvolume road (US-280) near Opelika, AL





North Treatments placed on CSAH 8 and US 169 in Pease, MN







Lee Road 159

First test sections placed on lowvolume county road in Auburn,





Phase II Sponsors





















ADMINISTRATION

























Current Status



145 Test Sections



~13 lane miles

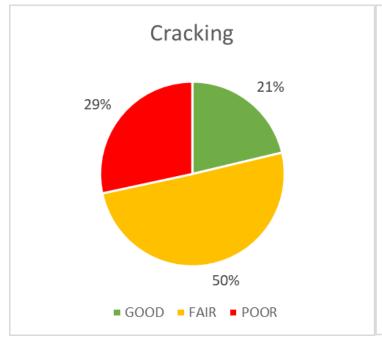


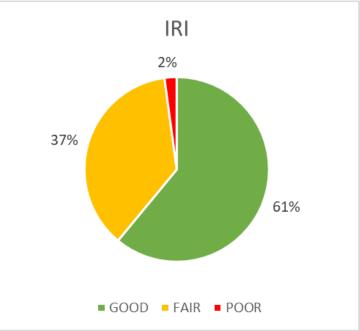
>100 lane mileyears worth of data

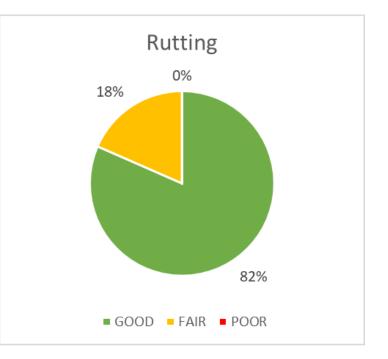
at AUBURN UNIVERSITY

Phase II

Condition category by performance measure



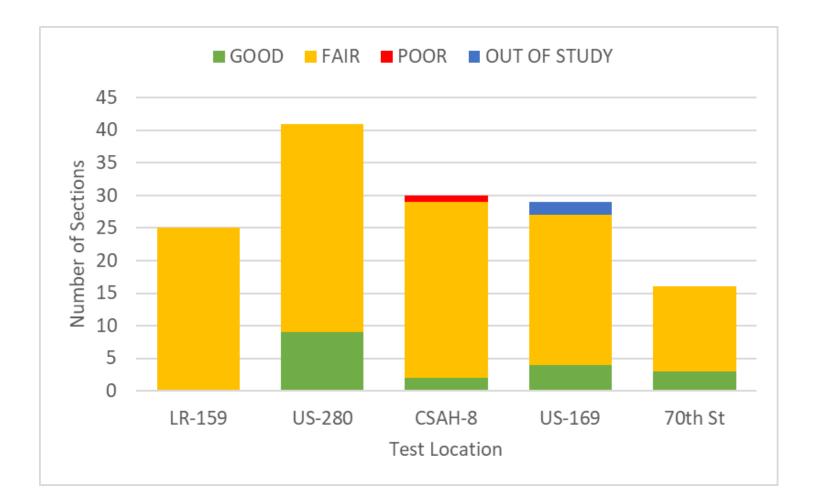






Phase II

Overall condition category

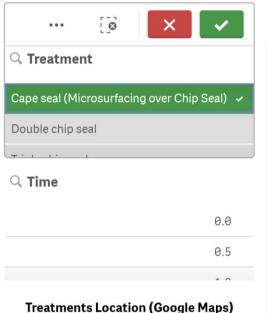




aub.ie/PG-tool



aub.ie/PG-tool





Time, (Years)

IRI Reduction (Average, in/mi...

24.5

Time to Poor (Control)

Overall Section Condition

Cracking % of Area



Rutting (mm)





FAIR

IRI (in/mile)





Time to Poor (Treatment)

aub.ie/PG-webinars

Pavement Preservation Webinars

The NCAT-MnRoad PG Study Findings Webinar series is designed to discuss the construction, performance, and conclusions from our test sections, with a focus on implementation of findings. Below are the recordings of past webinars.









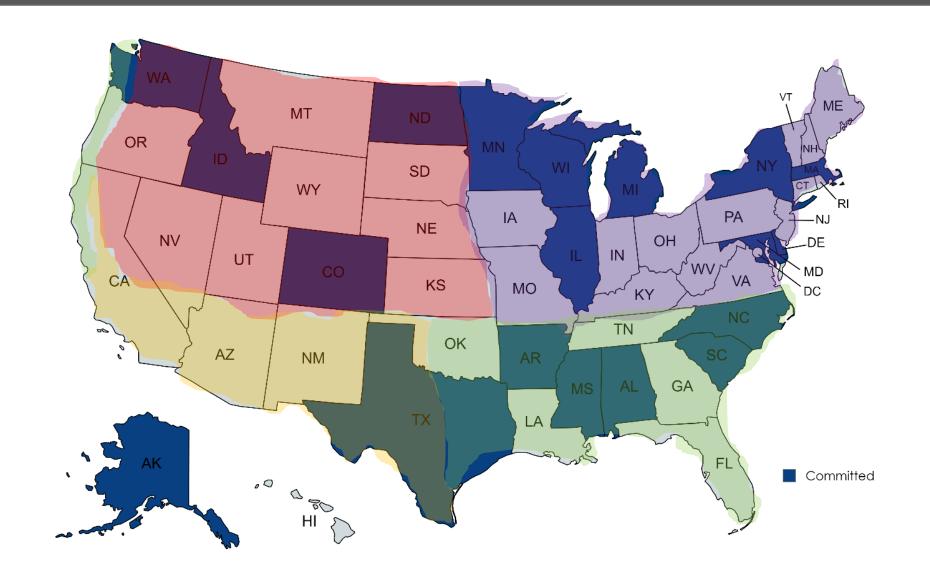
A New Era

- Phase III
 - TPF-5(522) Led by MnDOT Improving the Quality of Pavement Preservation Construction and Data Collection Practices

Focus on State Implementation / agency demonstration projects



Phase III Sponsors



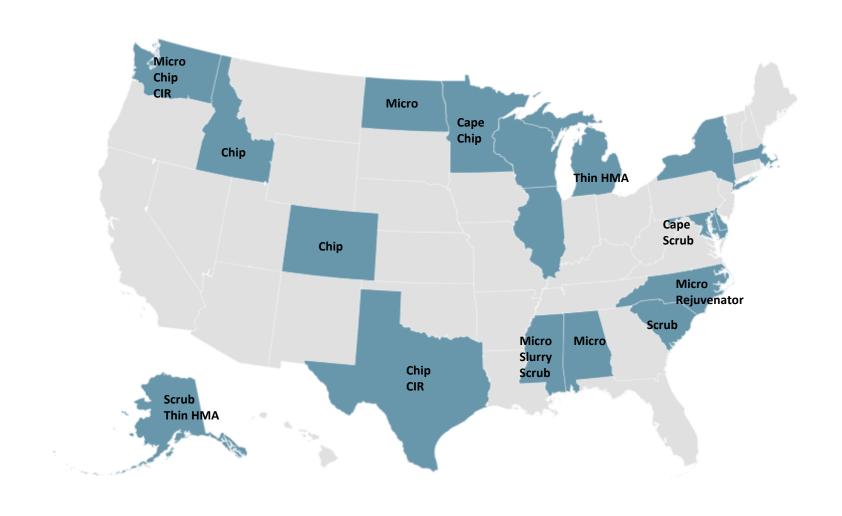


Phase III

- Two consultants
 - NCAT (research) and NCPP (implementation)
- Scope of work
 - Performance monitoring of existing sections
 - Technical assistance for the construction of new sections
 - Development and revision of reporting requirements
 - Performance monitoring of new sections
 - Outreach and dissemination of results



Possible Treatments





Process

Project section nomination

Section review/approval

Pre-construction: spec review, training

Construction: on-site tech support

Performance monitoring & analysis



Construction On-Site Support

- Detailed data collection
 - Materials
 - Application rates
 - Equipment
 - Practices
 - Issues
- Sampling



Data Collection & Analysis

- How do new sections compare to PG2 sections?
- Cover all climatic regions
- Data collection
 - Less frequent
 - Performed by each agency
 - Possible support from FHWA



Summary

- PG Study has been a significant effort
 - Promote pavement preservation
 - Data-driven
- Good results continue to draw support
- Industry is key partner
- More outreach, dissemination of results



Questions?

