# 2012 NCAT Pavement Test Track Pavement Preservation Study



at AUBURN UNIVERSITY

Midwest Pavement Preservation Partnership Meeting

November 12, 2013

**Mary Robbins** 

#### **Pavement Preservation**

"A program employing a network level, long-term strategy that enhances pavement performance by using an integrated, cost-effective set of practices that extend pavement life, improve safety and meet motorist expectations"

- FHWA Pavement Preservation Expert Task Group



#### **Pavement Preservation**

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- FHWA Pavement Preservation Expert Task Group



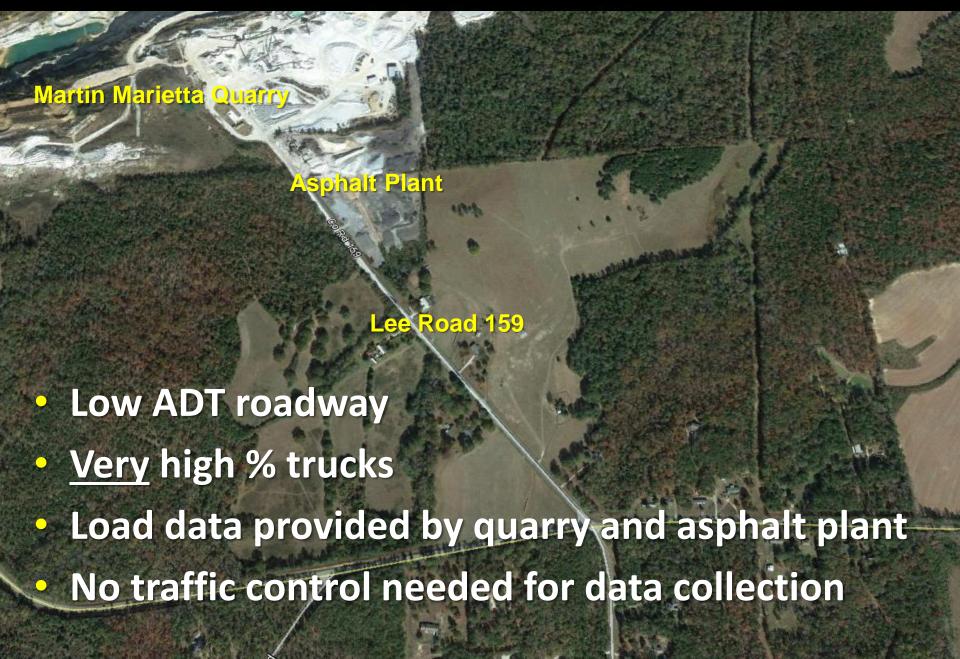
#### 2012 Preservation Group (PG) Study

- Quantify life extending benefit of study treatments
  - Time/traffic to return to pretreatment condition(s)
  - Test sections on the Track and Lee Road 159

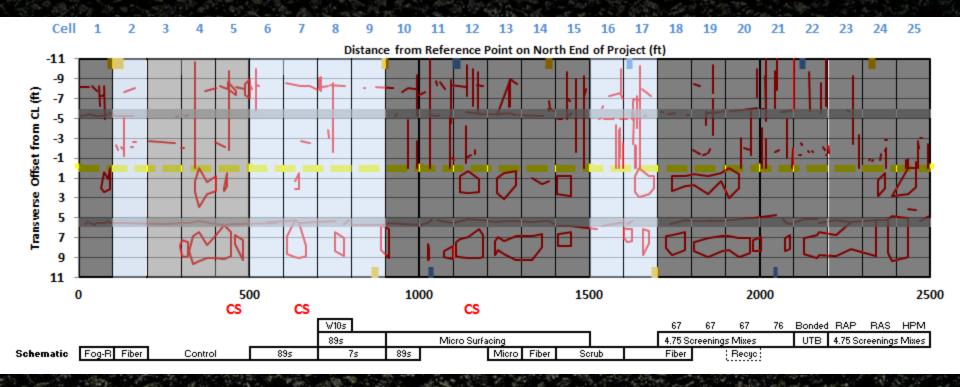
Sampling/testing for construction quality



#### PG Sections on Lee Road 159



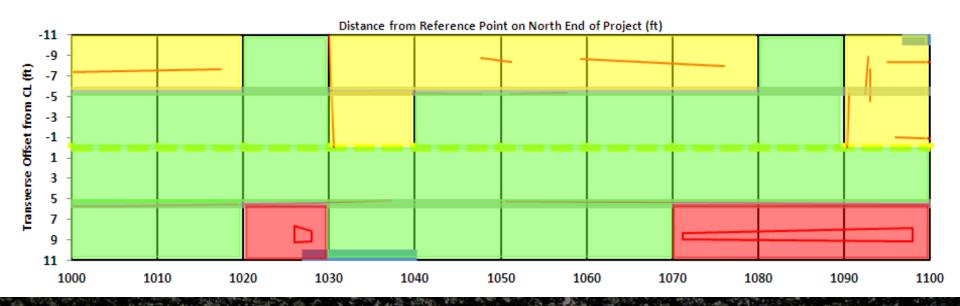
#### Final 159 Treatment Layout



- Preventive maintenance
- Routine maintenance
- Minor rehabilitation

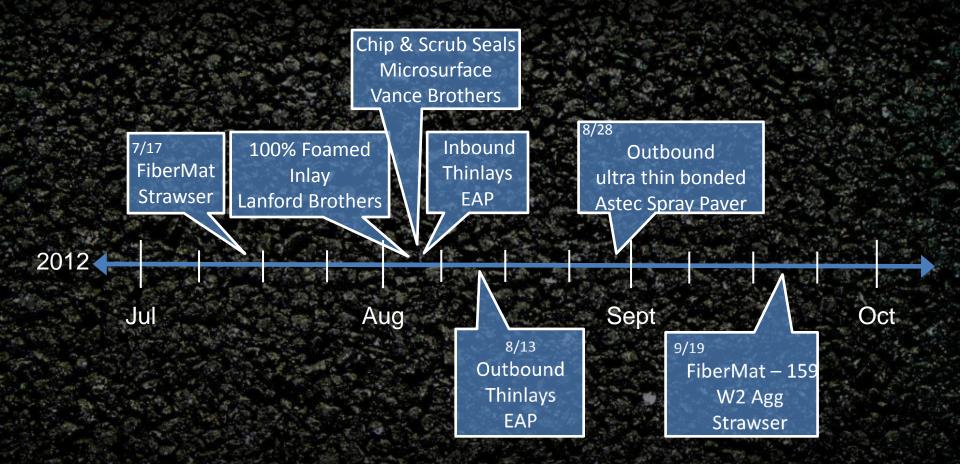


#### L11 Lee Road 159





#### Lee Road 159 Construction





# Rates Checked Prior to Placement





### Actual Rates Verified During Placement





# Lee Road 159 Pavement Preservation Experiment to Reduce the Cost to Maintain Your Roads

#### Funding Provided by:

Alabama, Mississippi, Missouri, North Carolina, Oklahoma, South Carolina, Tennessee, and FP2 via Auburn University and the Lee County Commission









































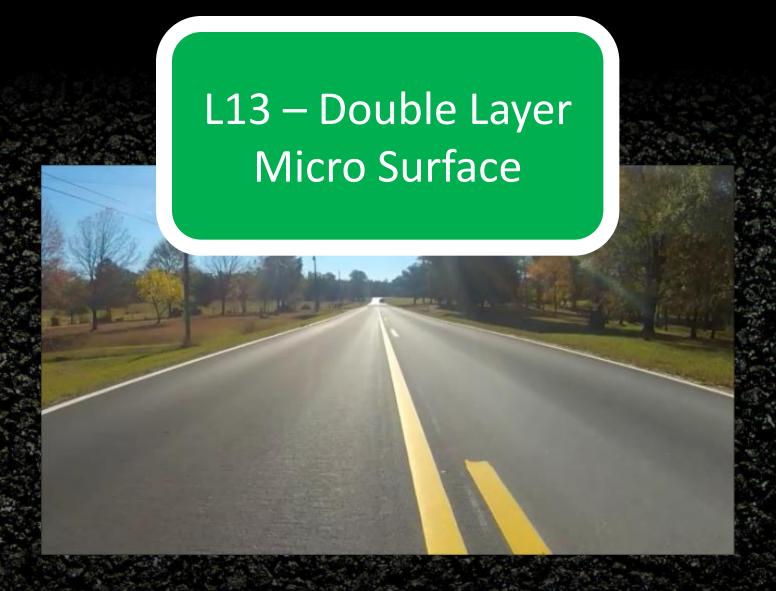




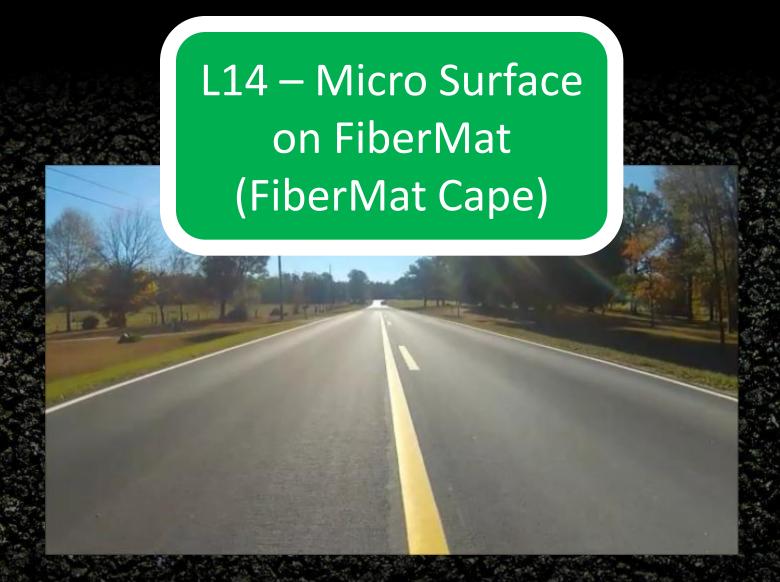


























































#### 159 Testing Overview

- Weekly
  - ARAN Van (rutting, roughness, texture)
  - Video for crack mapping
  - Visual inspections with notes/pictures
- Monthly
  - Wet ribbed surface friction
  - Subgrade moisture readings
  - Falling weight deflectometer (FWD)
- Other
  - Ground penetrating radar (GPR)



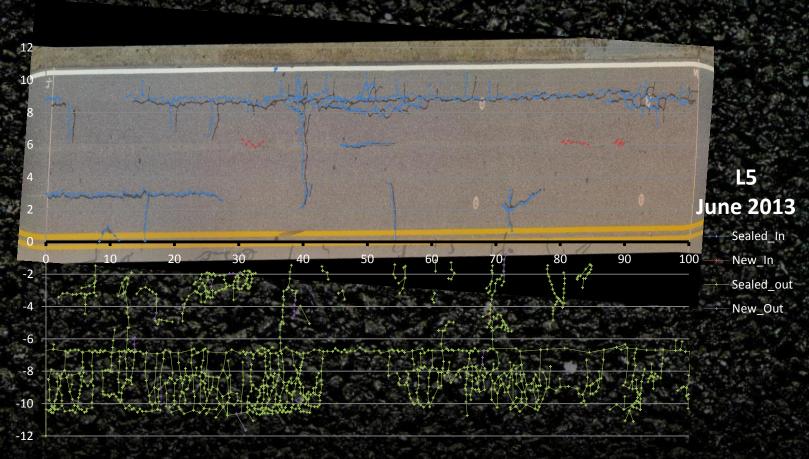
### Lee 159



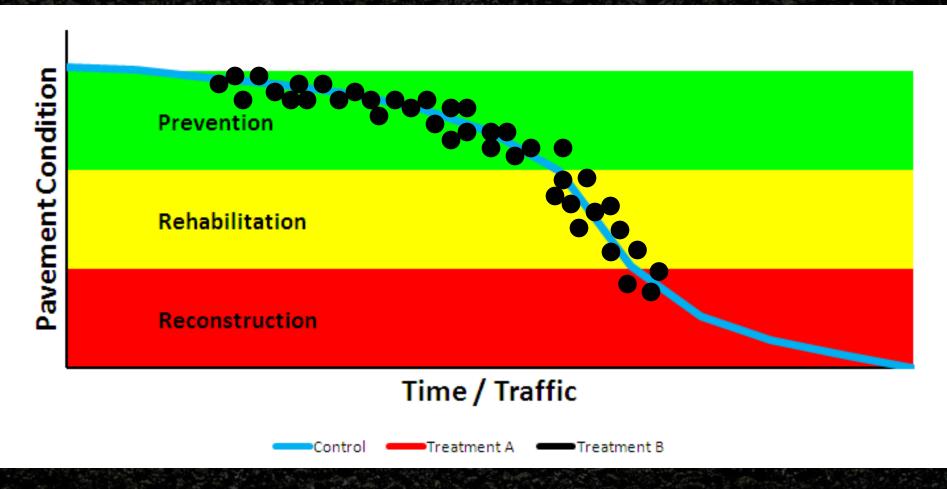




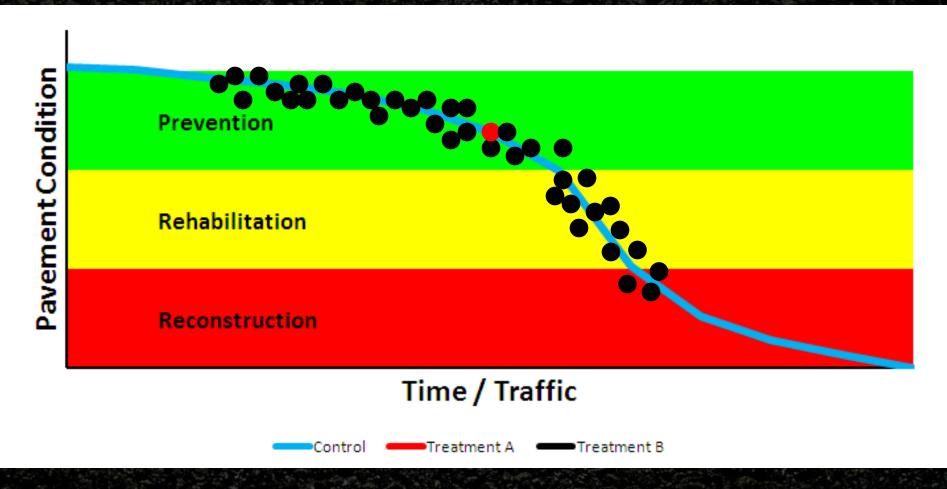
# Crack Maps



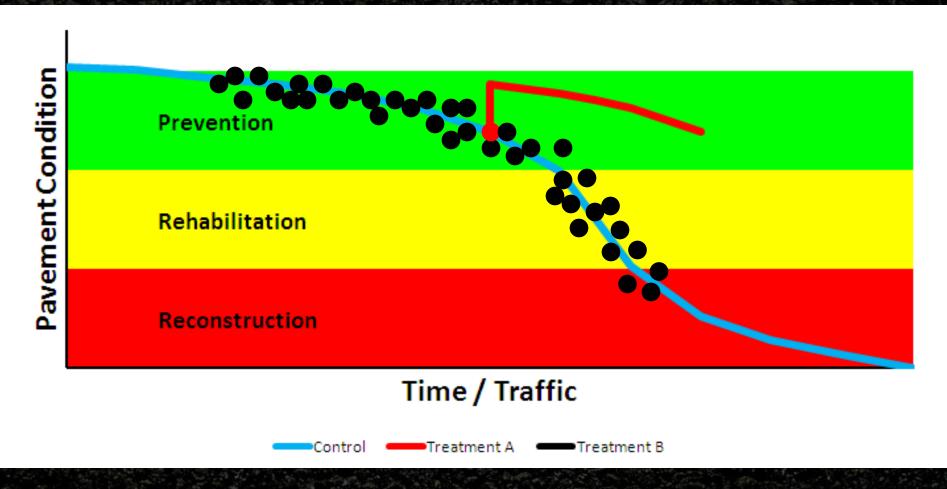




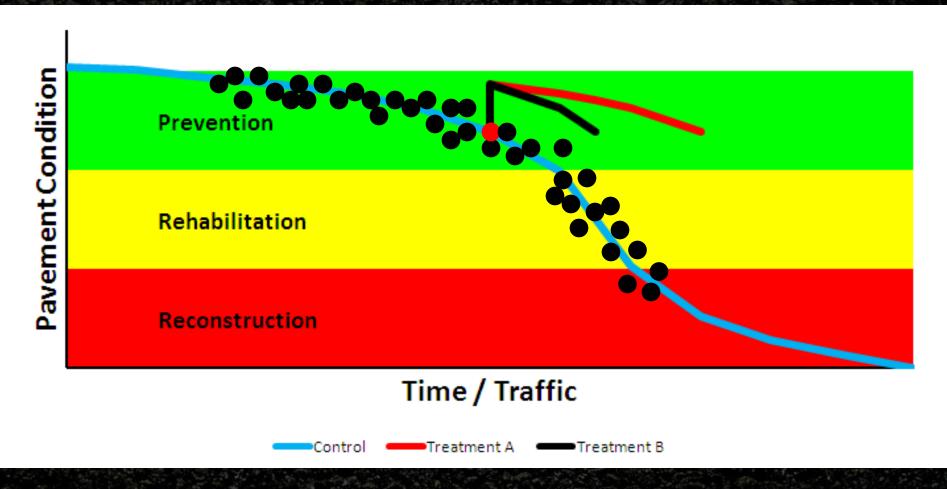














#### www.pavetrack.com





#### <u>Per</u>formance



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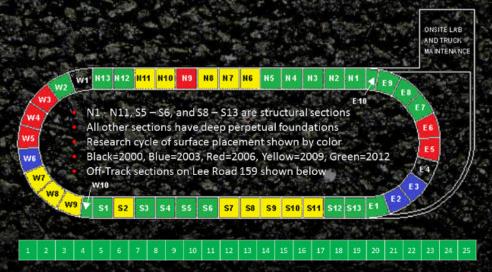
Click here for the official NCAT web site, Tracks in US, or Tracks Worldwide



HOTLINKS to download PAVE reports, review upcoming NCAT-training courses, query historical weather data, view current color radar or preview local forecast.

, ESALs as of 2300 hours on

Performance data for each section can be viewed by positioning your mouse over the section in question and left-clicking. Based on feedback from our research sponsors, the performance reports have been revised to include crack maps. The 2009 performance reports are now a fully integrated and active part of the web presentation.





#### **End-of-Cycle Track Conference**



WMA & high RAP/RAS/GTR mixes
 Optimized structural design
 Pavement preservation
 Implementation



#### **Pavement Test Track Conference**

March 3-5, 2015

The Hotel at Auburn University and Dixon Conference Center



#### **Questions?**



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