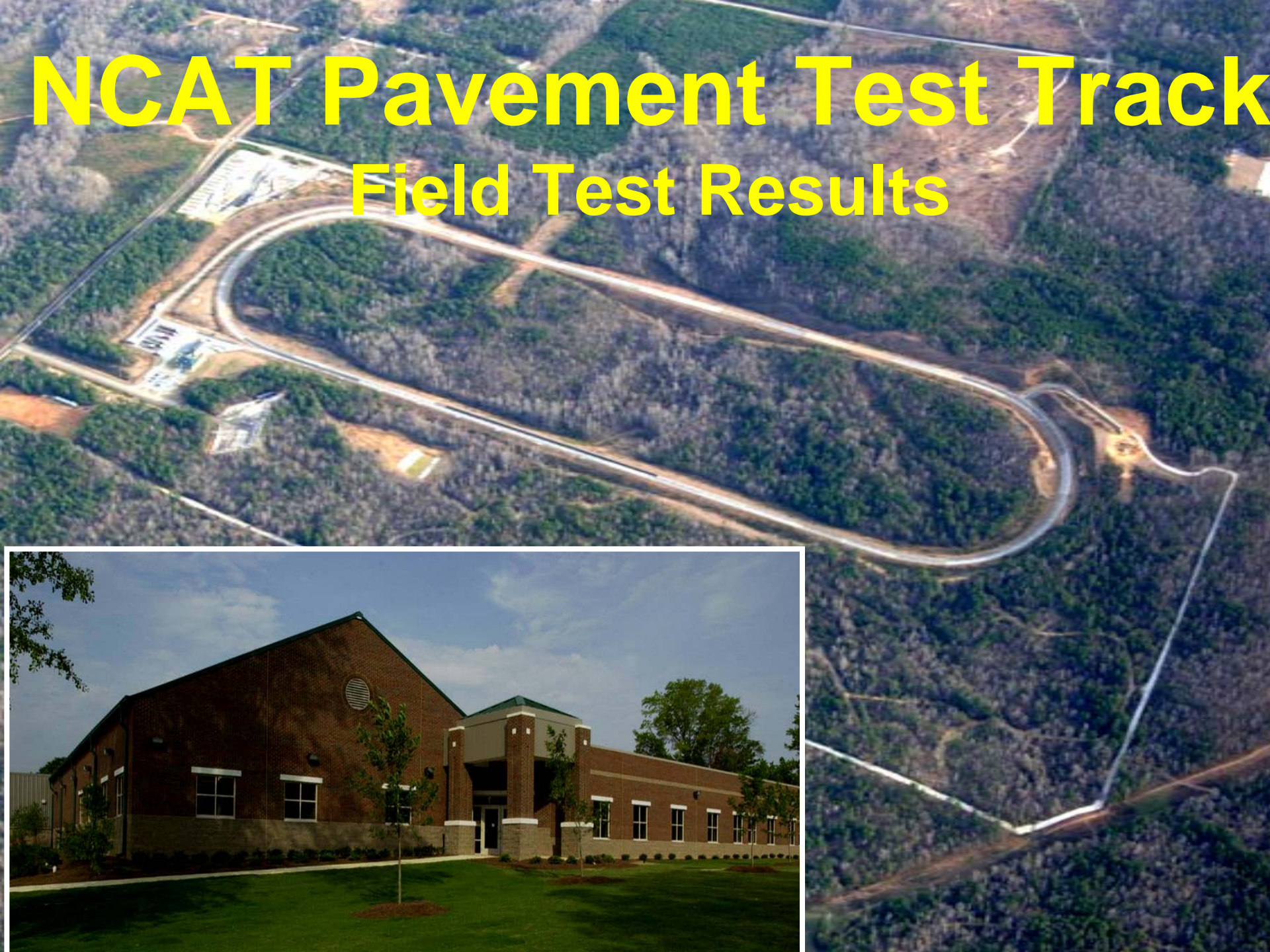


NCAT Pavement Test Track

Field Test Results



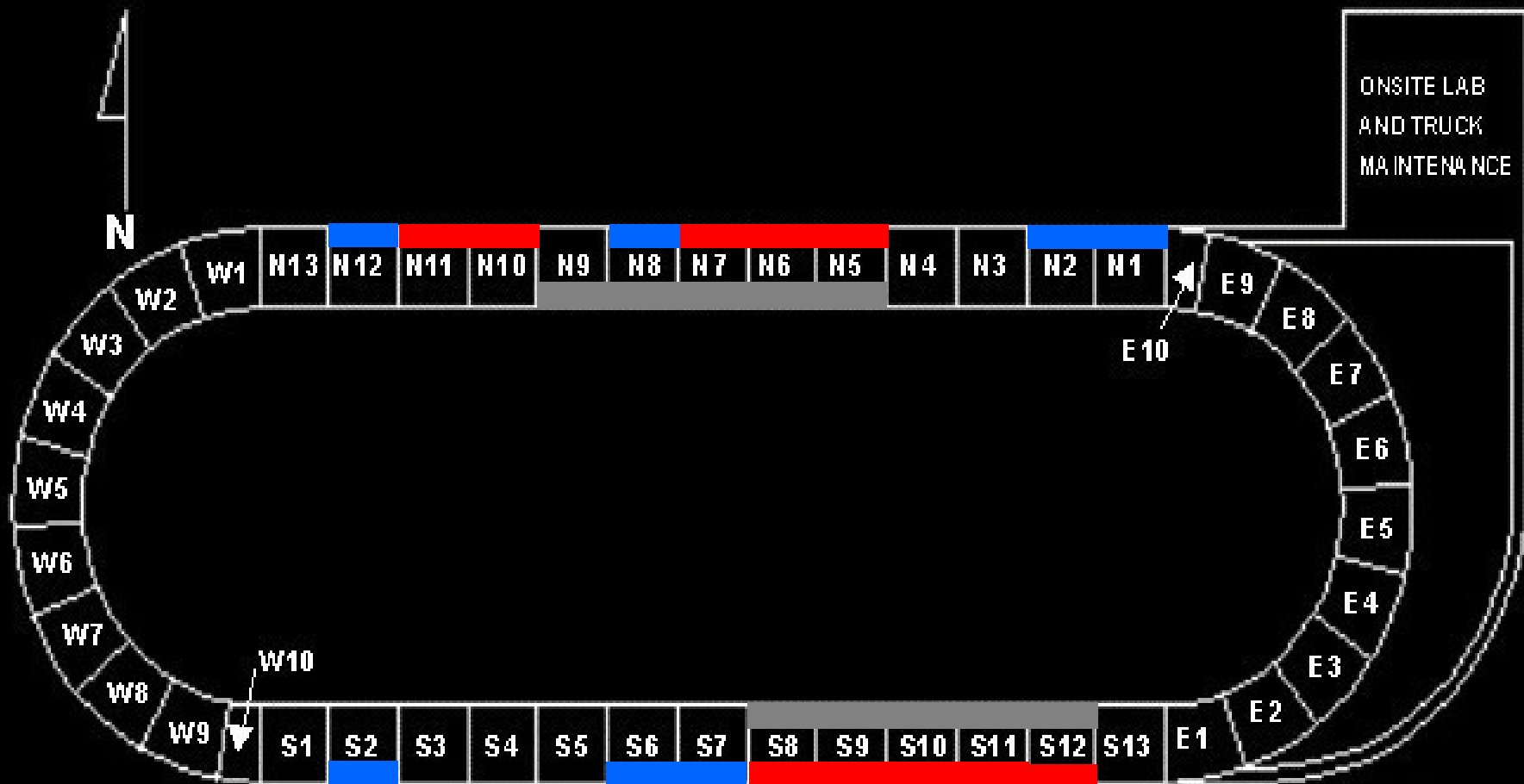
Track Research Objectives

- Optimize thickness design (**structural**)
 - High RAP, PFC, WMA, alternative materials
 - Transitional calibration of layer coefficients
 - Validation of mechanistic methodologies
- Identify ideal surface materials (**mix**)
 - High RAP study (PG52 vs PG67 vs PG76)
 - 100% gravel (High RAP dense vs PFC)
 - SBS versus GTR modified PG76

Accelerated Performance Testing



2009 Research Cycle (T4)



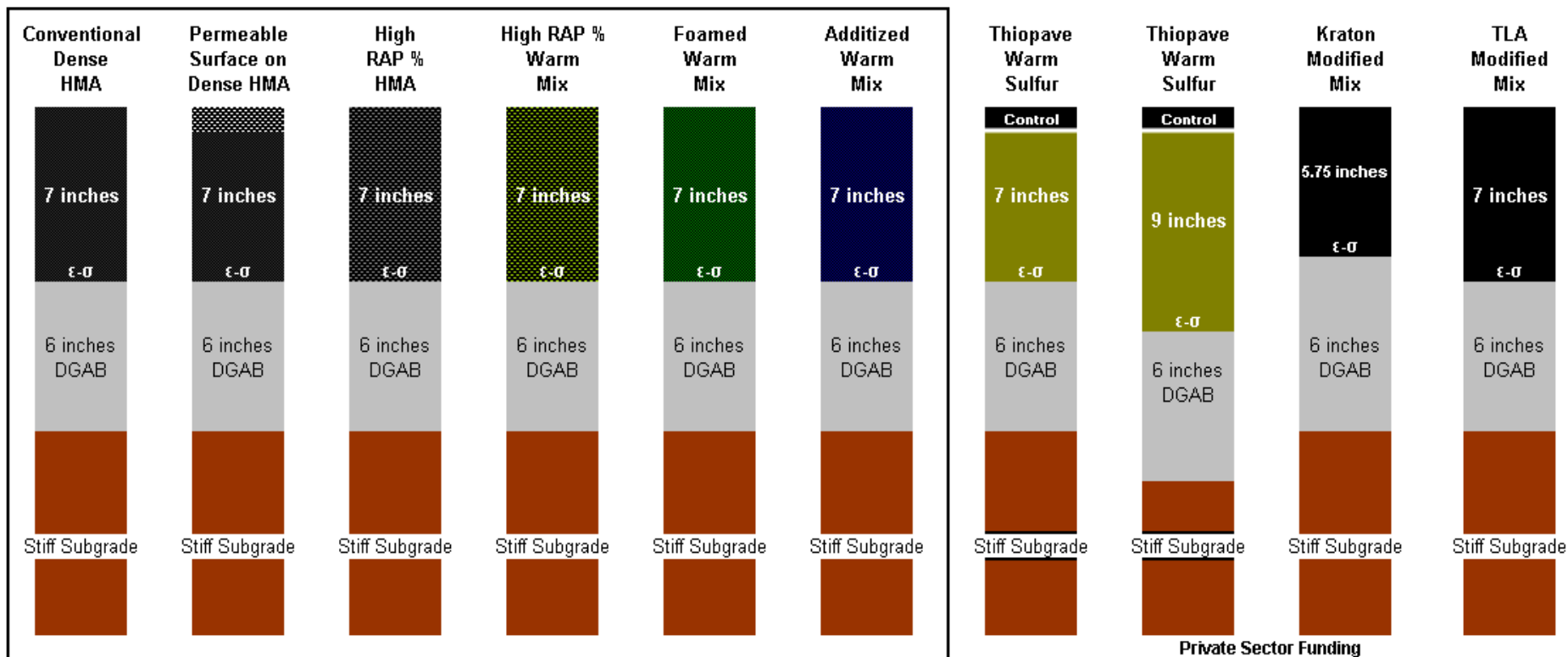
2009 Research Cycle (T4)



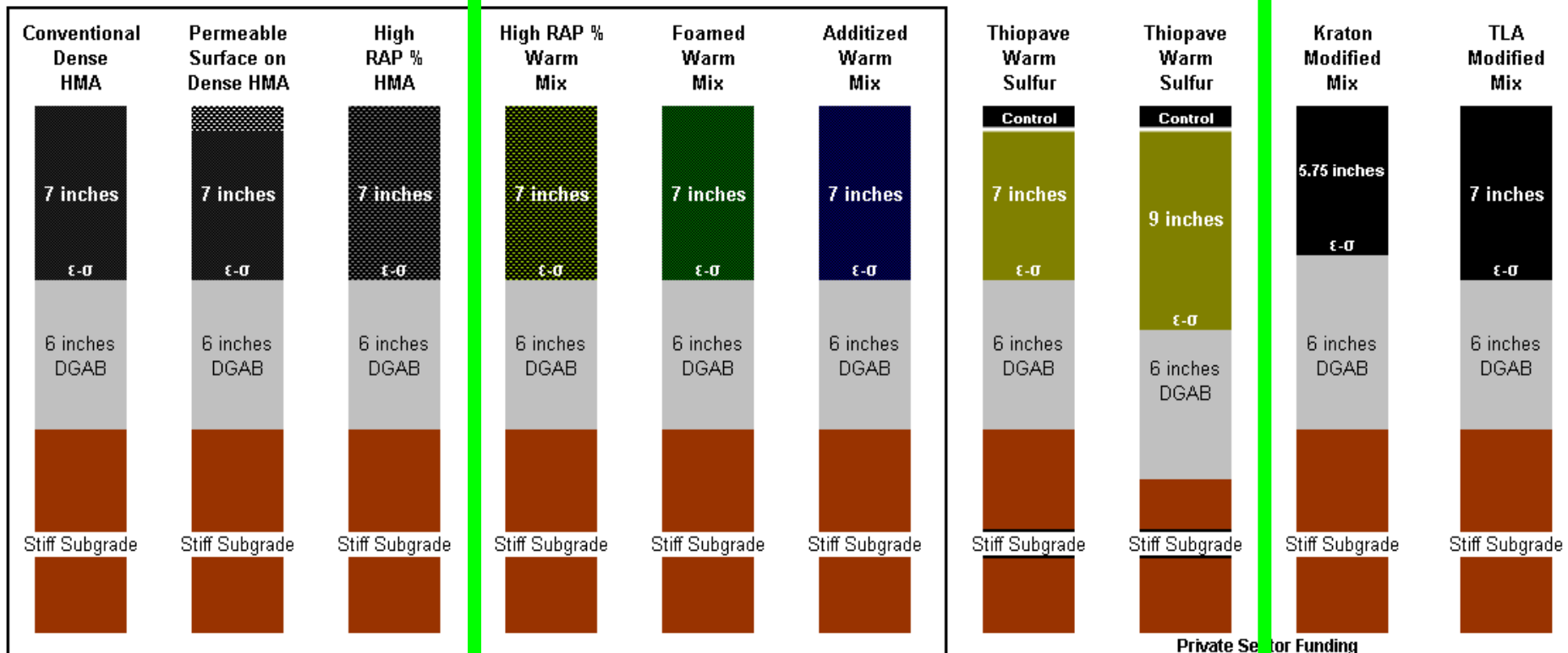
Paving for 2009 Research Cycle



2009 Group Experiment (+)

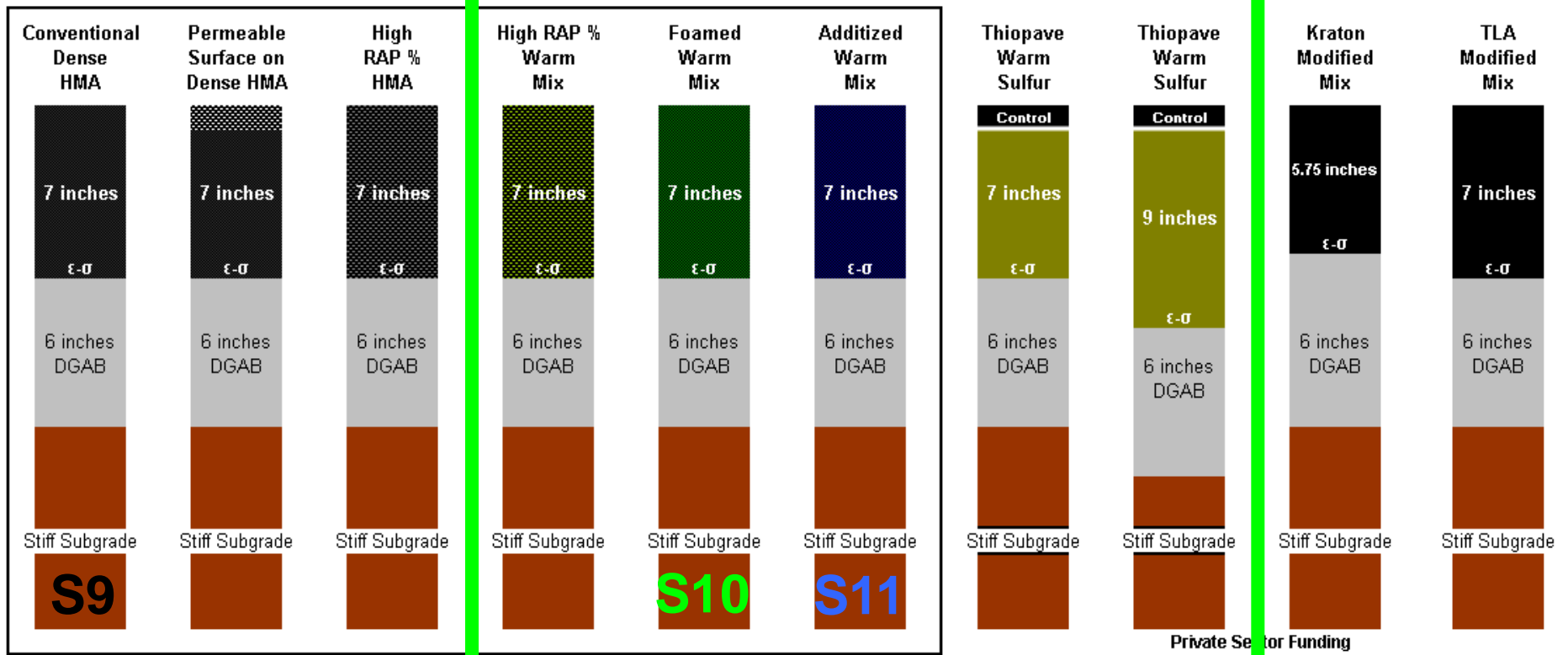


2009 Group Experiment (+)

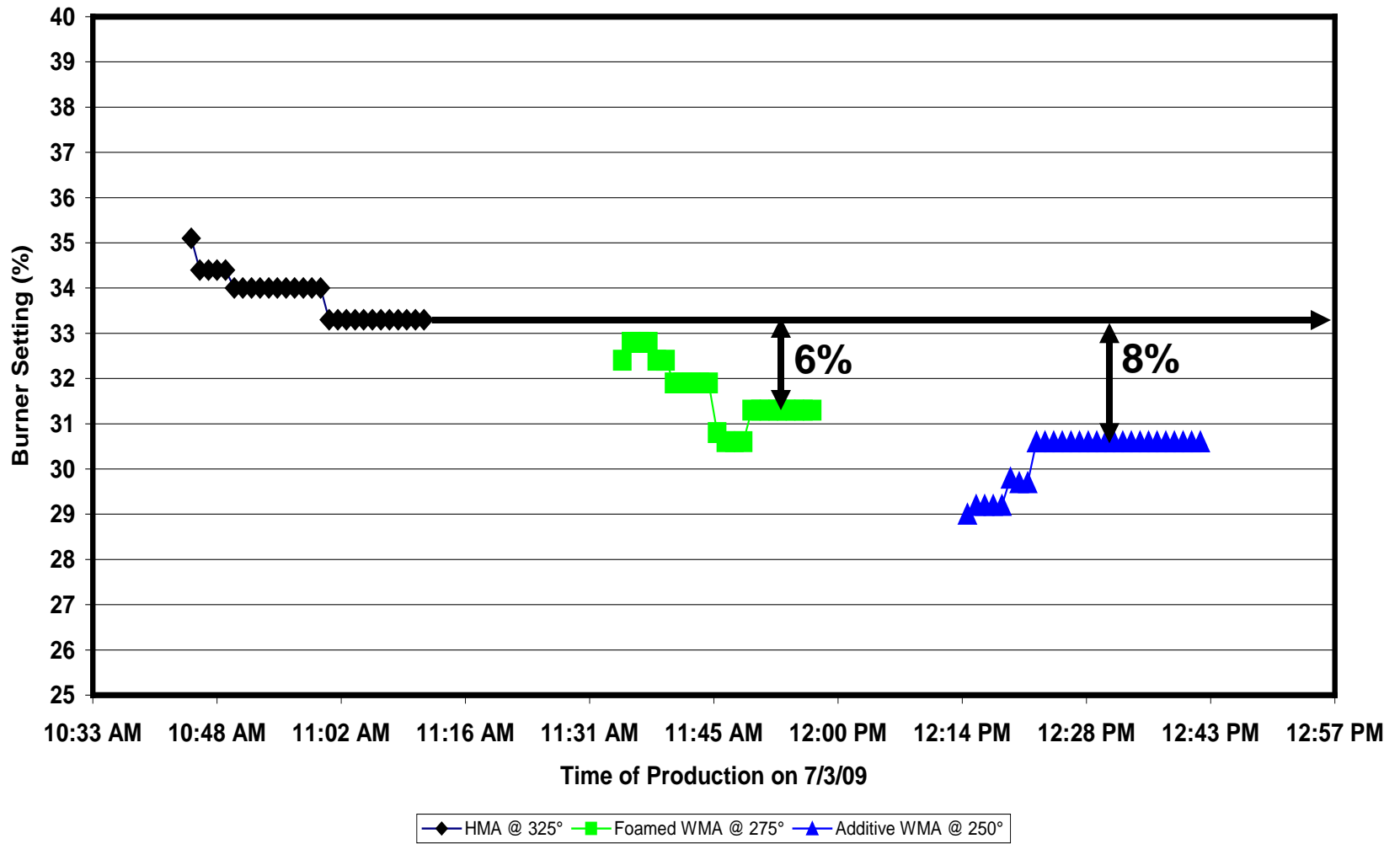


Private Sector Funding

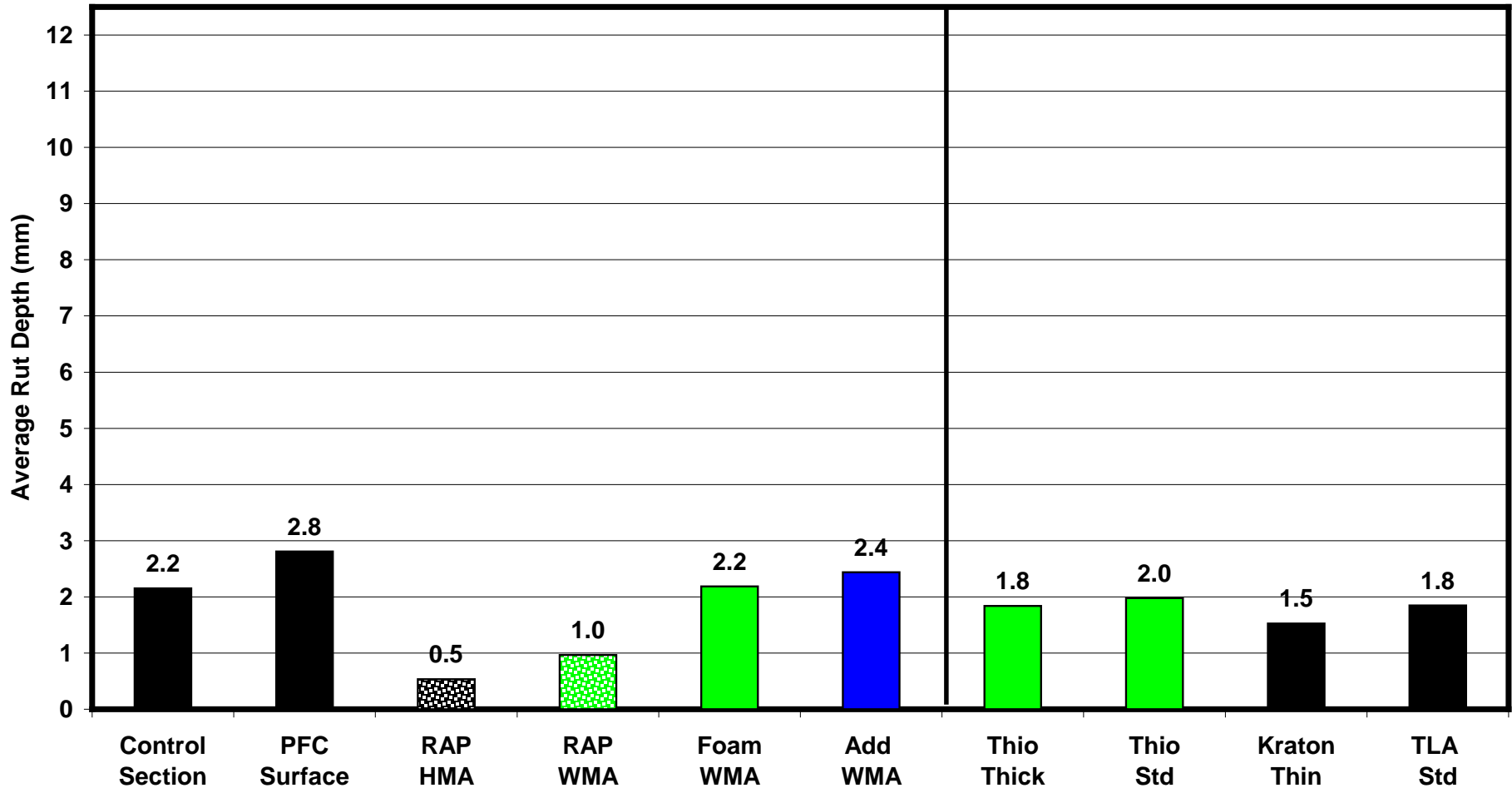
2009 Group Experiment (+)



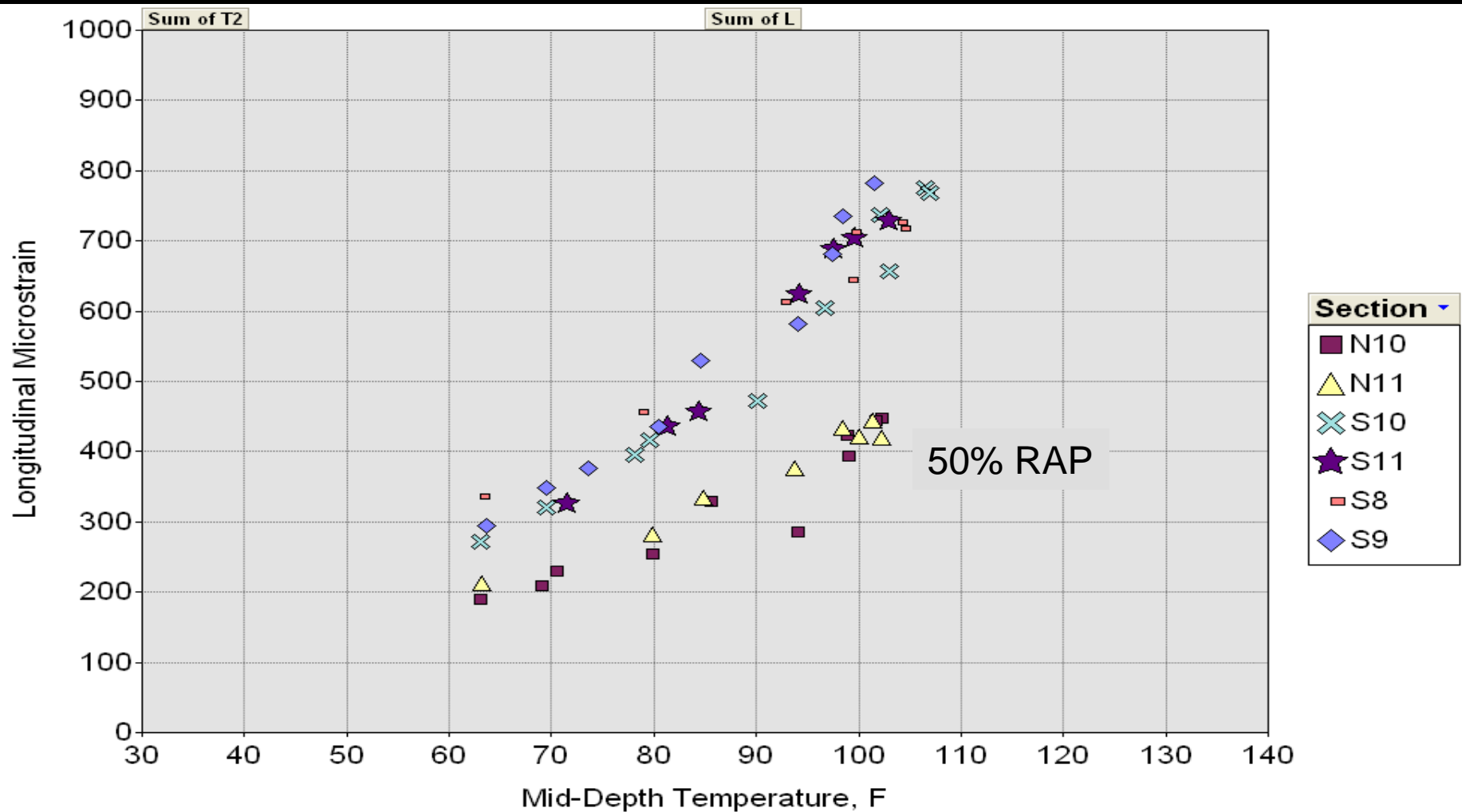
HMA vs WMA_{foam} vs WMA_{additive}



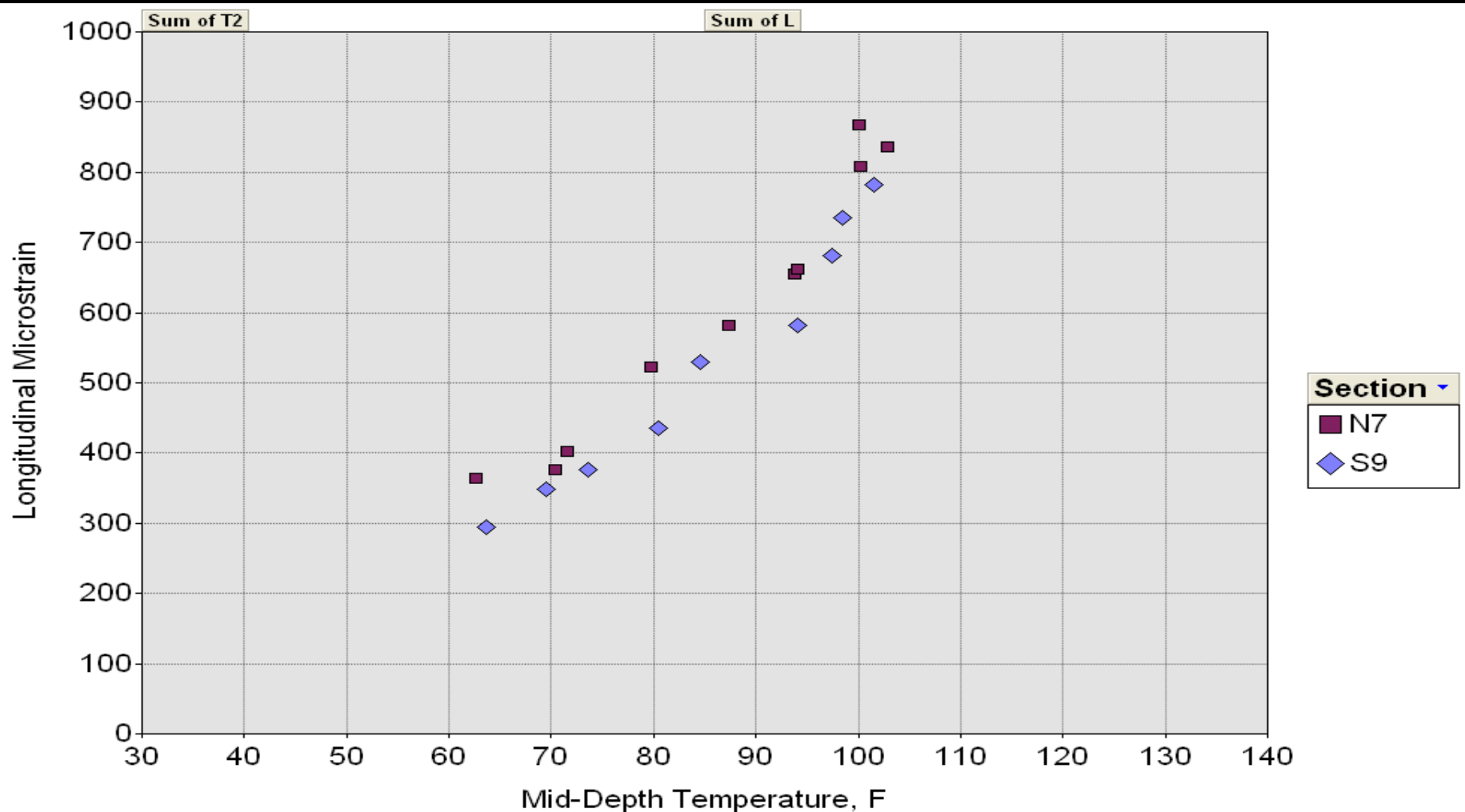
Group Experiment (+) Rutting



Preliminary Strain Comparisons



Thinner High Polymer Section



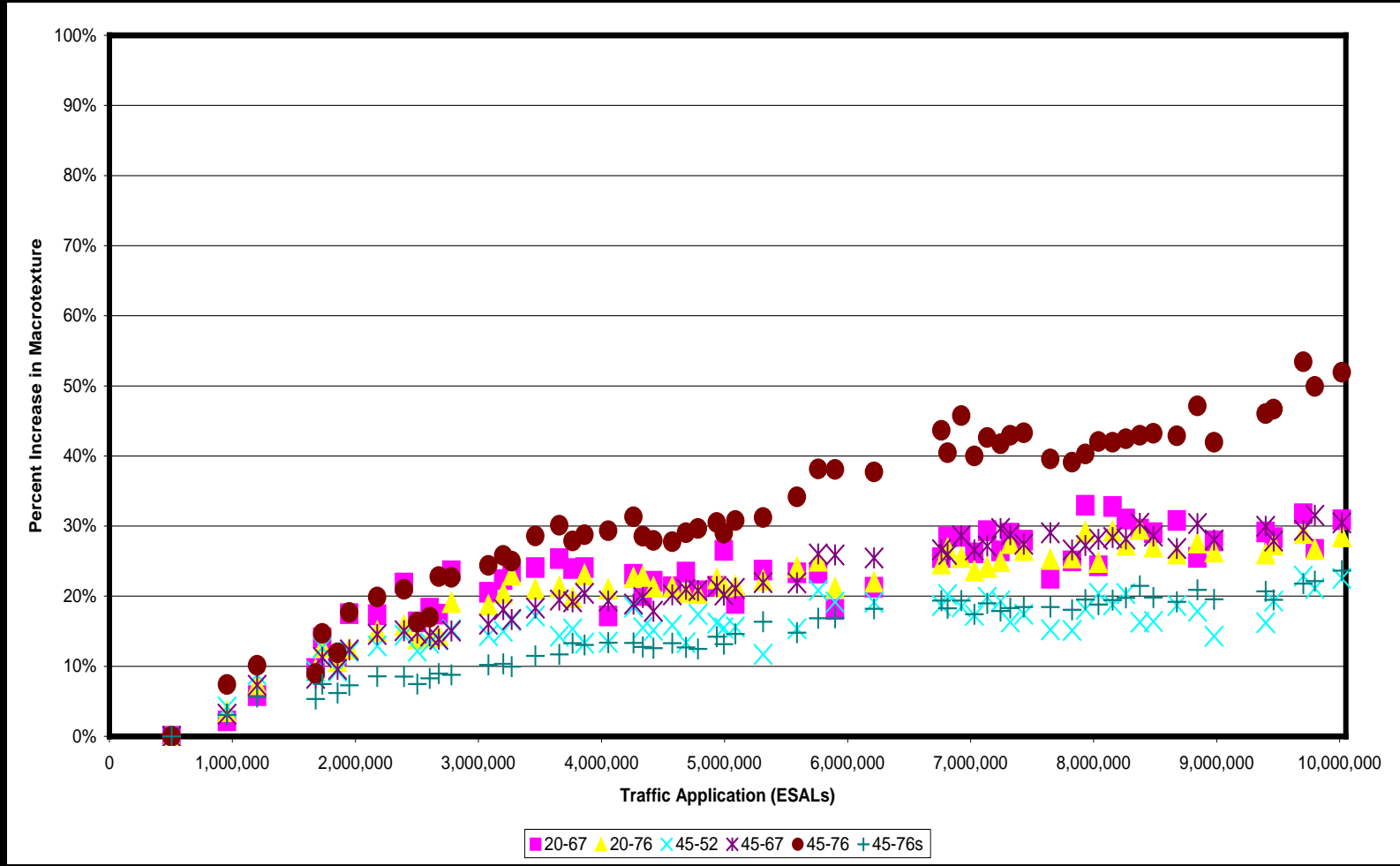
Spray Paver vs Conventional Tack



Conventional Tack



High RAP Content Surfaces

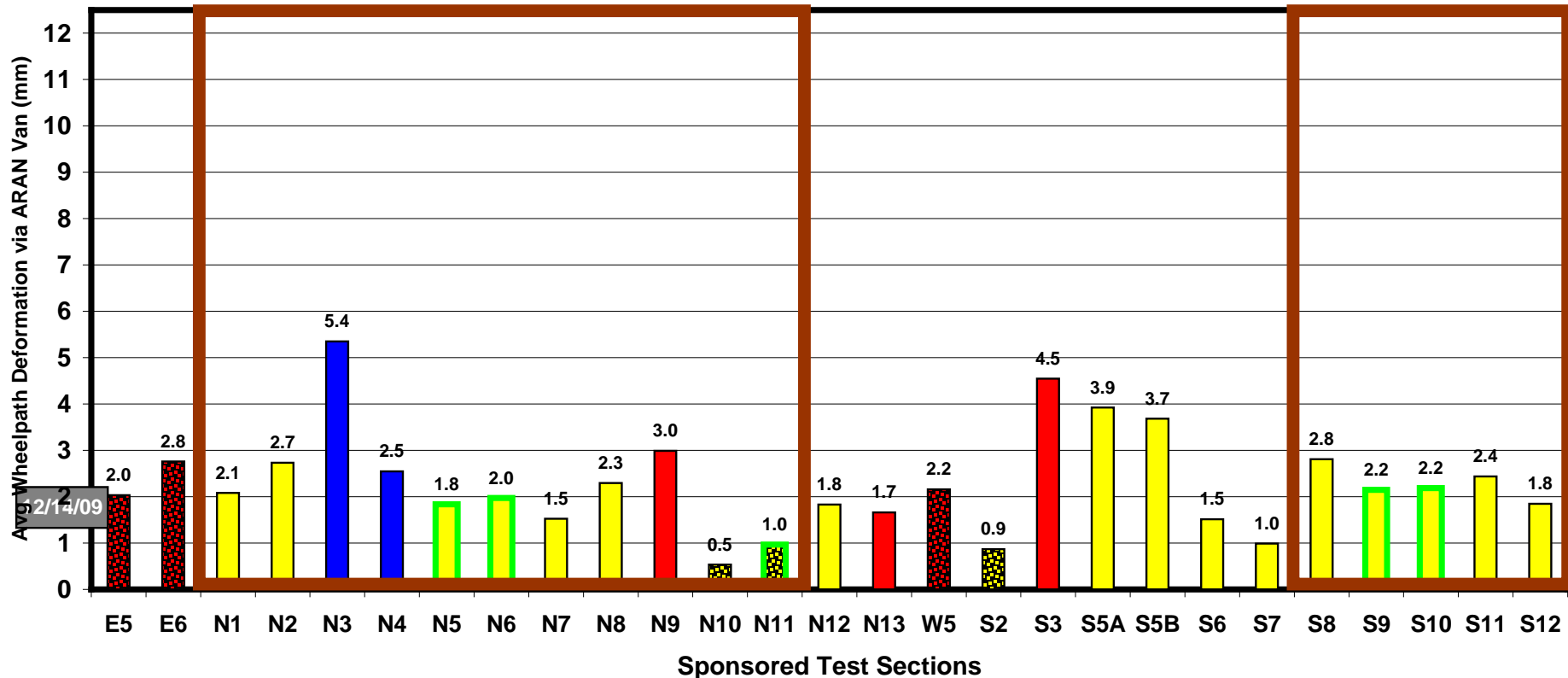


High RAP with PG76



2009 Rutting Performance

Cycle of Construction by Color (Blue=2003, Red=2006, Yellow=2009); High RAP with Texture; WMA with Green Outline; Thinner Structural Sections in Brown Boxes (Others on Perpetual Foundations); Trucking Percent Complete via Height of Gray Test Date Box



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Performance



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Opelika, AL
Get the 10 day forecast

32°F
Clear

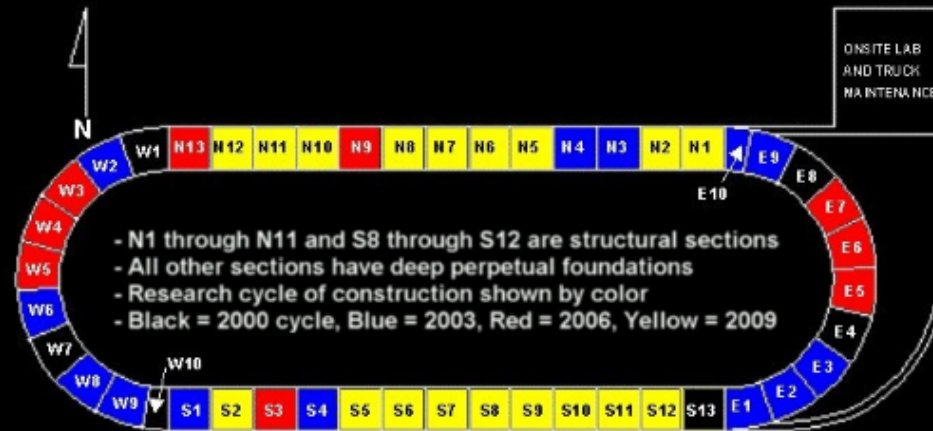
Feels Like: 25°F
Humidity: 31%
Wind: NW at 7 mph

Enter city/zip **GO!**

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Vacation Planner
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Special Events

The Weather Channel
weather.com
Weather at 30,000 feet

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.



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

1,439, 922 ESALs as of 2300 hours on December 5.

Web Performance Reports

12/14/2009

Quadrant: E
Section: 8

Surface Mix and Materials

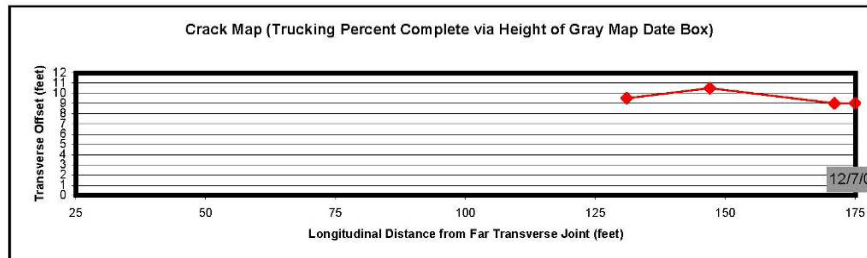
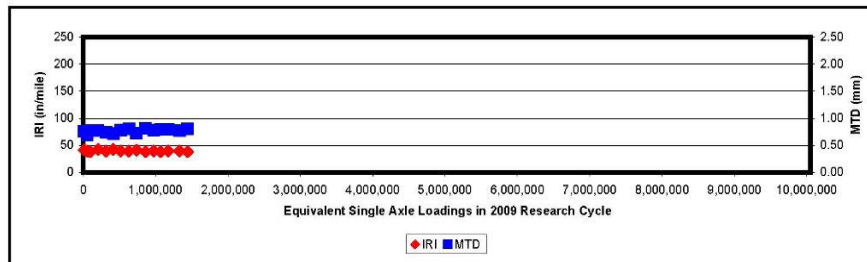
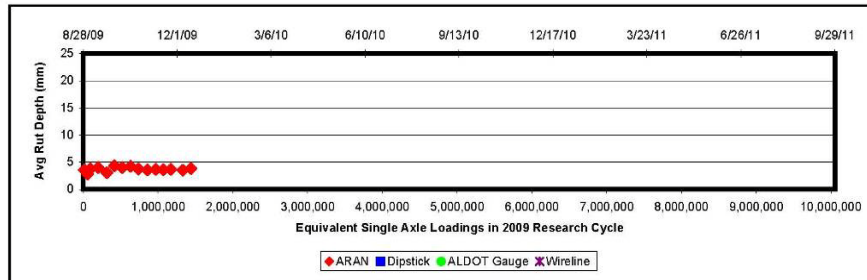
Year of Completion: 2000
HMA Design Methodology: Superpave
Specified Binder: PG67-22
Surface Mix Stockpile Materials: Granite

Structural Buildup Information

Study HMA (in): 4
Total HMA (in): 24
Base Material: Granite
Subgrade: Stiff

Research Objective: Performance of Fine Gradation

Preliminary Field Performance Data



Profiler Certification Program



WMA Certification Program



NATIONAL WARM MIX ASPHALT CERTIFICATION

PROPOSAL

By
Andrea Kvanak
Buzz Powell
Randy West



277 Technology Parkway • Auburn, AL 36830



Questions ?

