

2012 Track Research Cycle

- Implementation of higher recycled content mixes
- Durability of safer drainable pavements
- Alterative binders and binder modifiers
- Preservation Group (PG) experiment

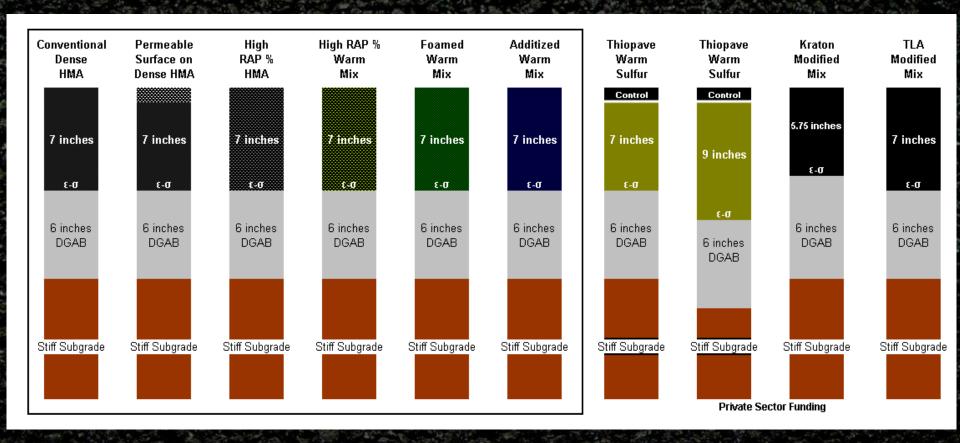


2012 PG Experiment

- Traffic continuation on 2009 GE+ test sections
- GE+ contains high RAP, two WMA, PFC sections
- Stop traffic when trigger distress(es) reached
- Apply consensus PP treatments to GE+ sections
- Duplicate / expand study in off-Track research
- Connection with state DOT preservation studies
- Additional accelerated testing in FHWA's ALF

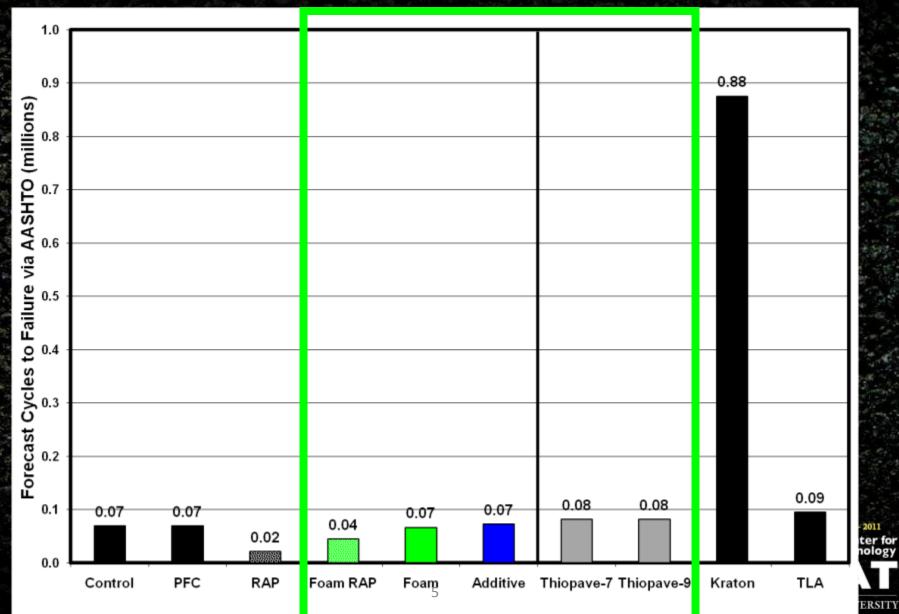


2009 Group Experiment (+)

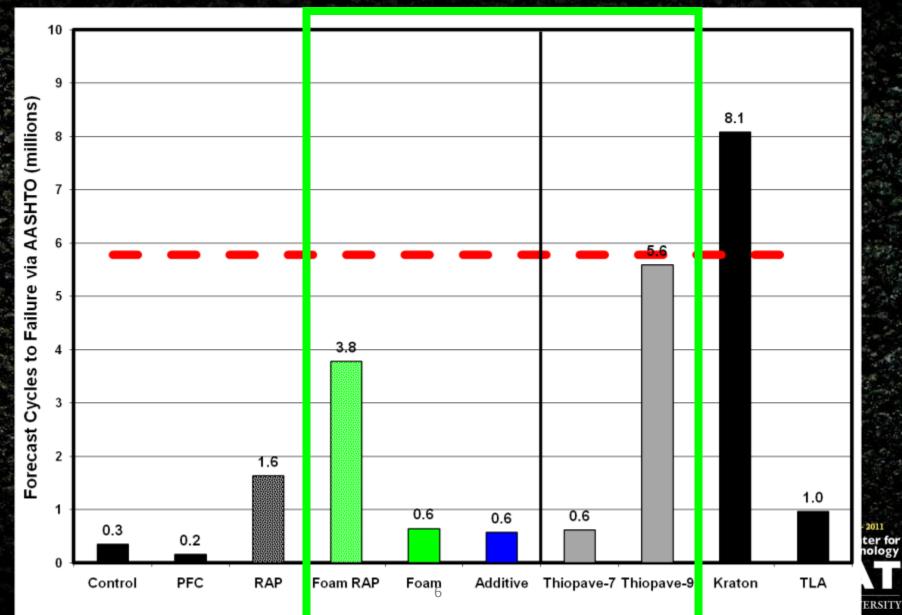




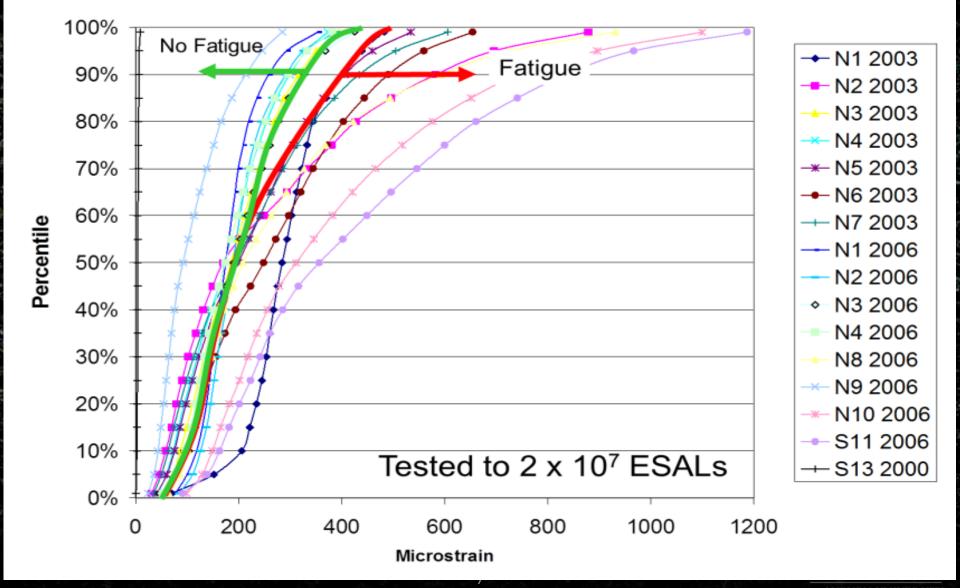
2009 GE+ Cracking Expectations 500



2009 GE+ Cracking Expectations Actual



Mechanistic-Empirical Pavement Design



Potential 2012 PG Treatments

- Chip seals (Various agg sizes, design processes, application rates)
- Scrub seals
- Micro-surface
- Cape seals
- Thin-lift HMA (Inlays vs overlays, conventional vs low cost)
- "HMA Cape seals"
- Fog seals (Traditional fog seals vs low pen recycled rubber)
- Micro-milling
- Etc...



Off-Track Test Sections



Loaded Trucks in Outbound Lane













Proactive vs Reactive "Preservation"

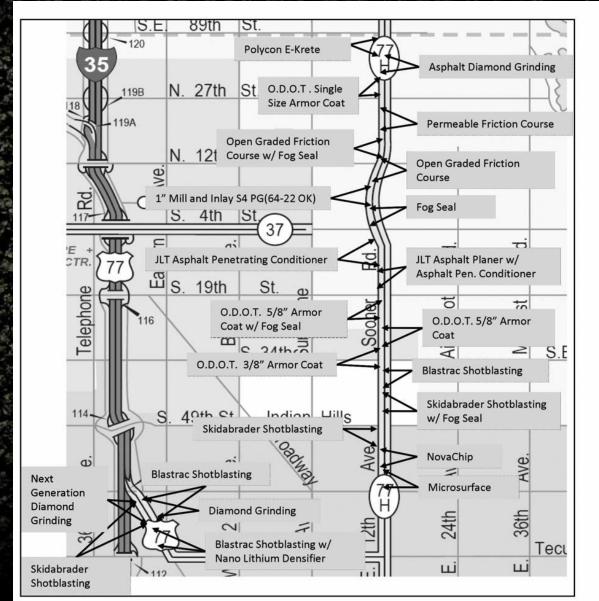


FDOT US 98 Preservation Study₂₀₁₂

- Micro-surfacing
- 4.75 NMA mix overlays (½ inch vs ¾ inch)
- 9.5 NMA mix 1 inch thick overlay
- 9.5 NMA mix 1 inch thick mill/inlay
- 12.5 NMA mix 1½ inch thick mill/inlay
- Bonded friction course (¾" spray paved FC-5)
- Hot in-place recycling 1½ inch thick

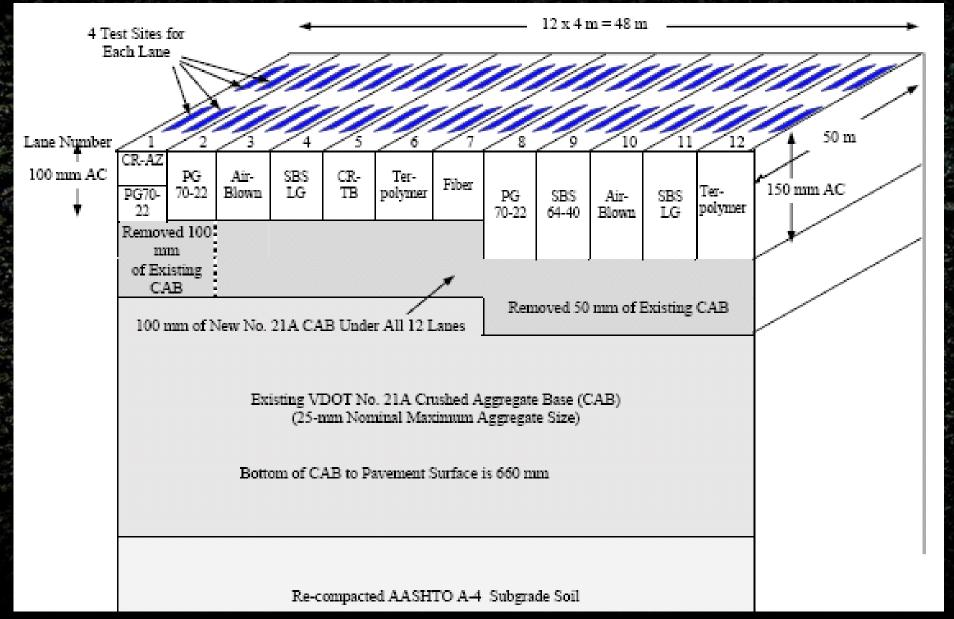


Oklahoma Friction Study₂₀₀₈₋₂₀₀₉

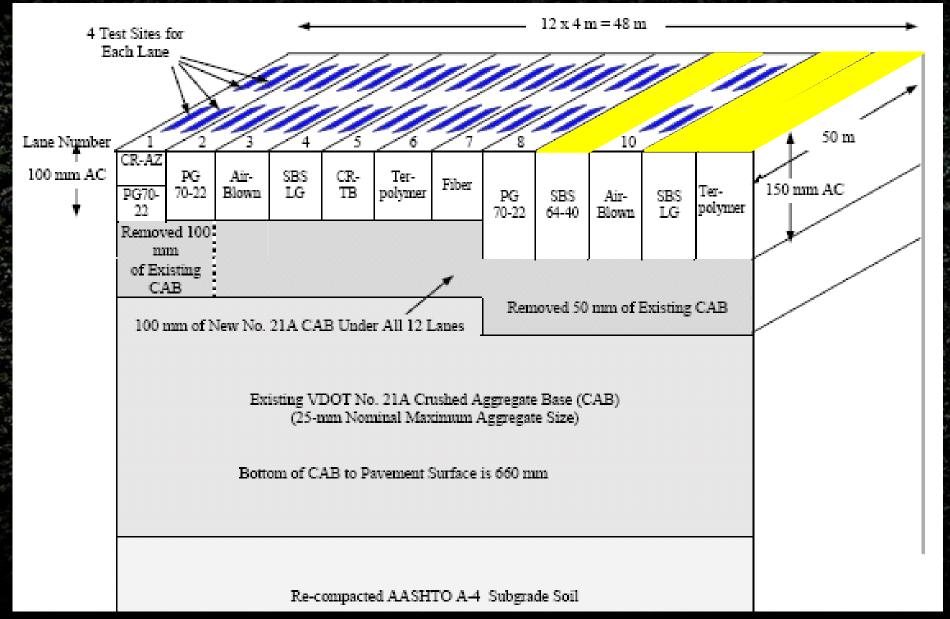




FHWA ALF Experiment₂₀₁₂



FHWA ALF Experiment₂₀₁₂



2012 Track Time Line

- 9/26 green light from Lee County Commission
- ALDOT 10/3/2011 RAC approval (PF + PG)
- Pooled fund advertisement in fall 2011
- Sponsor commitments by 12/31/2011
- ALDOT Letter of Direction by 3/1/2012
- Summer 2012 reconstruction (trucks by 8/31)
- PF payments due 2/29/12, 10/1/12, & 10/1/13



Track Conference







Pavement Test Track Conference

February 28-29, 2012

The Hotel at Auburn University and Dixon Conference Center



www.ncat.us

Questions?

