



VDOT

Asphalt Program Status

Regional Asphalt Meetings

Fredericksburg – February 22, 2011

Richmond – February 24, 2011

Salem – March 1, 2011

William R. Bailey III, P.E.

Materials ADA for QA

Quality Assurance

Quiet Pavements

4.75 mm Mixes

HMA Database

SMA guidelines

Trackless Tack Implementation

RAP + RAS and WMA

Future Quality Improvements

- Field Program
 - Verification of field density – VST cores
 - Independent Assurance
 - System based for technician qualifications
 - Project based for control strip cores
- Joint Density Monitoring
 - Monitoring by contractor QC technician
 - Completion of TL-59A
 - Minimum 95% of target density at joint
 - Testing 4" – 6" from joint

- Plant Testing
 - 8 samples per lot
 - D2S comparisons
- Test Results and JMF
 - Report gradations to nearest whole %
 - Report #200 Sieve + AC to nearest 0.1%

Implementation

Develop Application Guidelines

Update Special Provision

- Field Acceptance Method

Requirements completed

Conceptual design

Outsourcing final development

Implementation 2012

Possible update to Up-Loader
program

Performance

Guidelines

Specifications

Required in 2011 on all projects

- May 1 to Oct. 1

Four products approved for use:

- Blacklidge
- Hammaker East
- AEI
- Seaboard

Abson Testing on High RAP +
RAS mixes

Warm Mix Asphalt Evaluation
and Installations

Based on 2009 results, focused on:

- Mixes using softer asphalt binder
- Mixes with less than 25% RAP

Virginia Paving

Chantilly, VA



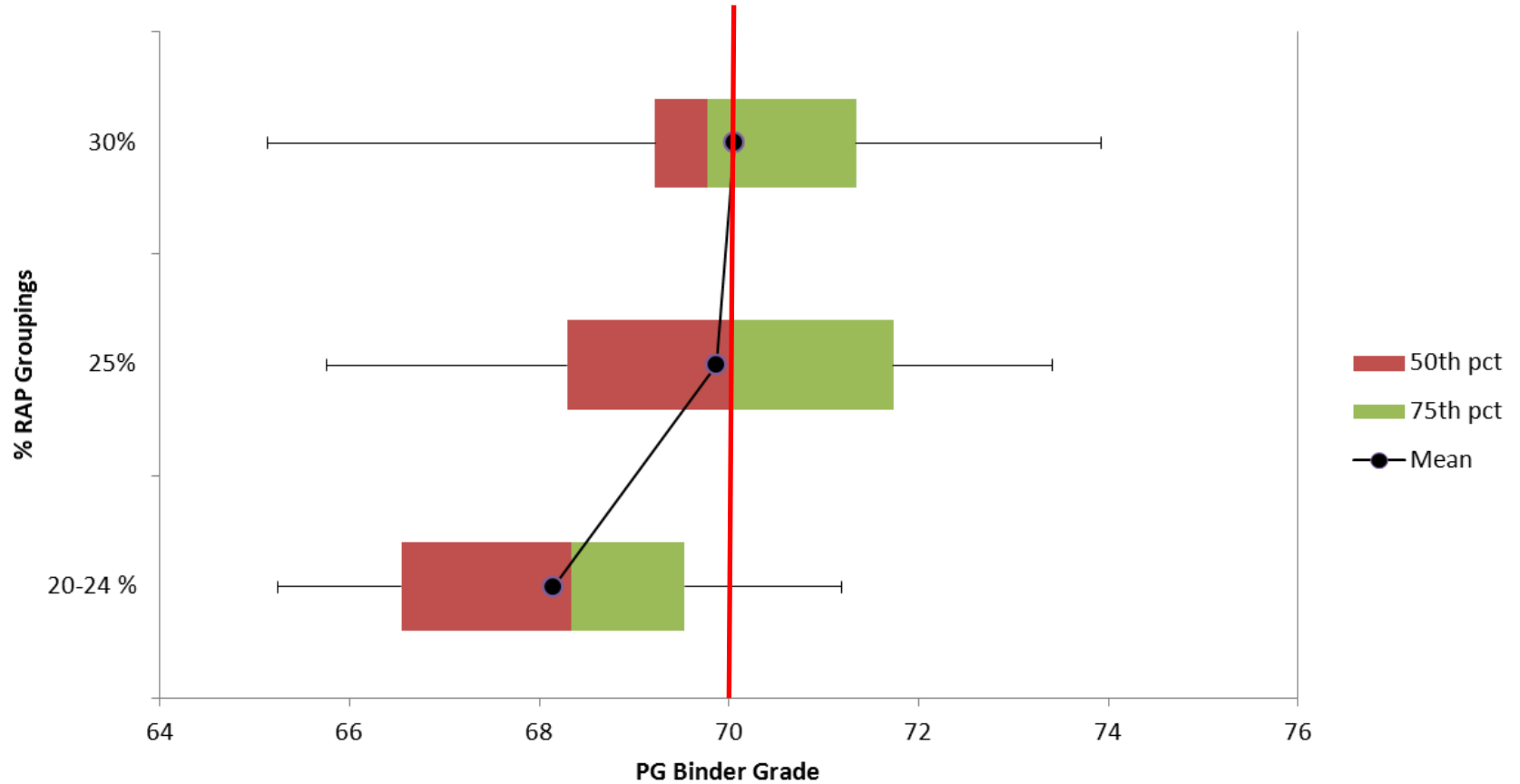
Several mixes not meeting PG
70-16

Failures were across the state

Not specific to a contractor

Mixes with 25% RAP or greater
meet requirements

PG Binder Distributions of High RAP Mixes (54 mixes tested in 2010)



Conclusions

- Modification of Specifications Table II-14A to increase RAP Percentage to 25 from 20
- Allow RAP + RAS combinations that replace 25% of binder in JMF to be considered as D mixes in 2011

Over 40 Virginia plants using warm mix technology

Willing to evaluate new chemical additive products

- New Asphalt Co-op Subcommittees
 - Pavement Marking
 - Semi-Annual or Annual Basis
 - Milling
 - Preventive Maintenance
 - Guardrail
- Objective to add value to the Asphalt Program

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