

## Central Region Update - 2013



**SEAUPG**  
Southeastern Asphalt User/Producer Group

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## Changes - Updates to Binder Specifications

**Alabama**

- Has continued to explore the use of MSCR
- Has developed a draft GTR specification
  - Have one pilot project that NCAT is evaluating for us

**Georgia**

- Modified their PG binder specification to allow GTR modified binders, as alternative to polymer modified asphalt in all mix types for roadways with ADT<100,000 vpd.

## Changes/Updates to Binder Specifications

**Tennessee**

- No changes to binder testing this year.

**Kentucky**

- No changes to specifications this year.

## Asphalt Mixtures Specification Changes

**Alabama**

- Has developed an Inertial Profiler specification
  - Have 3 pilot projects let to contract
  - With 3 more projects currently planned.
- Has increased the amount of allowable Post-consumer RAS from 3% to 5%
- Has expanded our delivery temperature range so the contractor can more easily switch between HMA and WMA

**Georgia**

- Modified their asphaltic concrete mix design requirements to include a "corrected optimum AC"
  - COAC content for improving durability of RAP mixtures.

## Asphalt Mixture Specification Changes

**Tennessee**

- No changes to specification this year.

**Kentucky**

- No changes to specifications this year.

## Number of tons of HMA and WMA

STATE	HMA 2012	WMA 2012
AL	We do not track HMA vs. WMA but the estimated Percentage is 30 to 40% WMA.	
GA	4,600,000	40,000
TN	2,500,000	~ 5-10% of statewide program
KY	6,100,000	Estimates 35%

### Preventative Maintenance

State	Treatment Type	Square Yards 2012
GA	Surface Treatments/ Chip Seals	7,400,000
TN	Microsurfacing	1,500,000
KY	Microsurfacing	320,000
	Thin Lift Overlays	5,000 (tons)

### Funding

**Alabama**

- The number of state projects has decreased.
- No capacity projects – with a select few are planned.
- ATRP Program

**Georgia**

- Placed approximately 1.5 – 2 million less tons of asphaltic concrete over the last couple of years.

### Funding

**Tennessee**

- Not as much this year as in previous years.

**Kentucky**

- HMA tonnages have not been significantly affected by funding shortages in recent years.

### Methods implemented to lower costs

**Alabama**

- Now has in place a Pavement Preservation Policy and are starting to see a few projects.
- Has developed a Microsurfacing, Scrub Seal, and Triple Chip Seal specification.

**Georgia**

- Used several processes for mitigation of cracking including single chip seal interlayer.
- Recently, placed limited test sections incorporating an open-graded interlayer (OGI) for crack relief. We are letting a project soon incorporating OGI and thin lift overlay (4.75 mm).
- GDOT has developed and used a micro-milling process for our interstates for removal of the aged open-graded surface mix using micro-milling and inlaying a new layer of open-graded mix. This has saved several million dollars through its limited use so far.

### Methods implemented to lower costs

**Tennessee**

- Recently developed Standard Operating Guidelines for the resurfacing program, defining objectives and options for maintaining remaining surface life of existing routes.

**Kentucky**

- Crack sealing,
- Thin-lifts
- Microsurfacing

### WMA Experience

**Alabama**

- Has seen some issues when trying to run greater than 25% Recycled Content with 5% being RAS
- Starting to see a little bit more of the chemical processes.
- Is mostly considered standard practice

**Georgia**

- Has developed a specification specifically for WMA which has been used on 1 let project.
- While GDOT initially was very concerned with moisture damage potential of WMA, research related testing on the let project have negated many of our concerns.

### WMA Experience

#### Tennessee

- Permits the contractor option for WMA on all projects, with no added incentives. Use of this option has been limited.
- Mixture performance has been satisfactory so far. Hoping for increasing contractor buy-in.

#### Kentucky

- Has a permissive specification on WMA so it can be used at the contractor's discretion.
- The majority of the WMA is produced using the "foaming" method.
- Has also reduced the minimum production and placement temperatures for WMA.

### Performance Related Testing

#### Alabama

- APA is required for all surface mix types prior to approval of the mix design
- Are somewhat participating in the AMPT pooled fund – implementation by the Department is currently being held up due to budget constraints in obtaining the extra equipment.

#### Georgia

- Has used the Hamburg, but basically for research.
- GDOT has not developed Hamburg specifications specifically for Georgia at this time.

### Performance Related Testing

#### Tennessee

- Does not currently utilize Hamburg or any similar rutting/performance test.

#### Kentucky

- Does not currently use a performance related test in the design of HMA mixtures.
- Has an AMPT but currently only intends on using it as a research tool

### Sampling and Testing

#### Alabama

- Thin lifts are tested/accepted in the same way as other dense graded mixes
- For microsurfacing and chip seals, constituent materials are pretested and approved

#### Georgia

- Samples and tests the aggregate and binder prior to construction of surface treatments/chip seals.

### Sampling and Testing

#### Tennessee

- Micros/ chips: gradation every 500 tons, weekly emulsion verification samples.
- Thin lifts: Gradation/ AC content twice daily.

#### Kentucky

- Tests the gradation of the aggregate and the emulsion for Microsurfaces.
- Thin-lift overlays are sampled and tested in the same way as a traditional overlay.

### Status of MEPDG Implementation

#### Alabama

- Has a traffic research project underway
- Moving slowly – would like to see how AASHTO is going to address RAP and overlays before really implementing.

#### Georgia

- MEPDG research projects shall be completed by July 2014.
- The RAP mixes are being studied under the MEPDG research projects.

### Status of MEPDG Implementation

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#### Kentucky

- Is currently working toward implementing the MEPDG. Mixtures using RAP will be evaluated as part of this process.

### SEAUPG Central Region Update - 2013

#### Special thanks to:

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