

Maryland State Report - Best Practices or Examples of Positive Experiences



October 21, 2008



Success Stories:

- **Increased use of modified slurry seal (aka microsurfacing)**
- **Patch-only projects**
- **Increased use of crack seal**
- **Thinner overlays**
- **Beginning implementation of program**

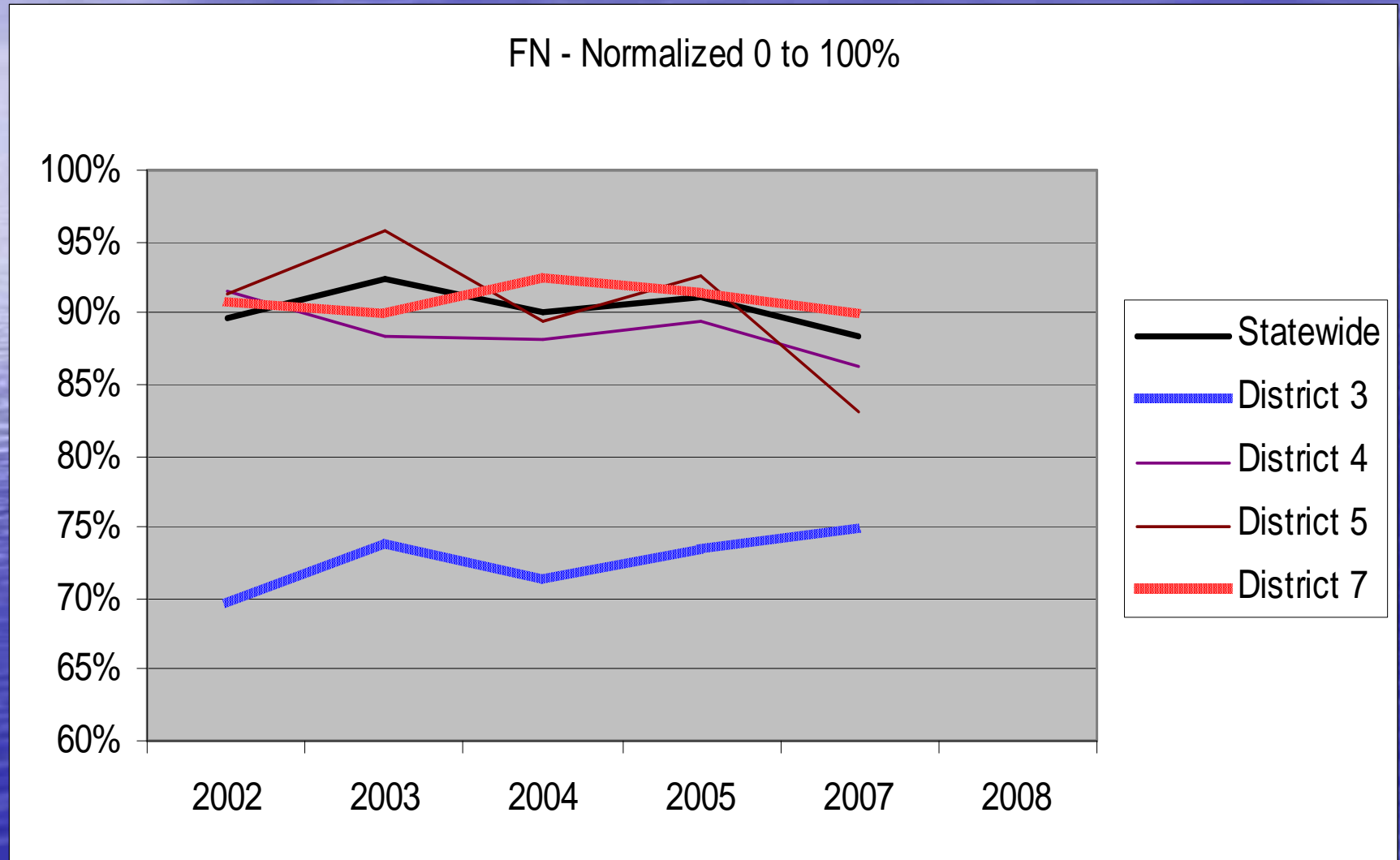
Latex Modified Slurry Seal:

- See www.marylandroads.com,
“Doing Business with SHA” for specs
- Virtually unused 5 years ago
- Significant use in 2 of 7 Districts

Latex Modified Slurry Seal:

- **Friction Number (FN) trends, with increased use:**
 - **Dist. 3: FN increased from 2002 to 2007, from 70% to 75% acceptable**
 - **Dist. 7: FN held steady from 2002 to 2007, around 90% acceptable**
 - **Other urban districts: Limited to no use of LMSS – decline in FN**

Latex Modified Slurry Seal:

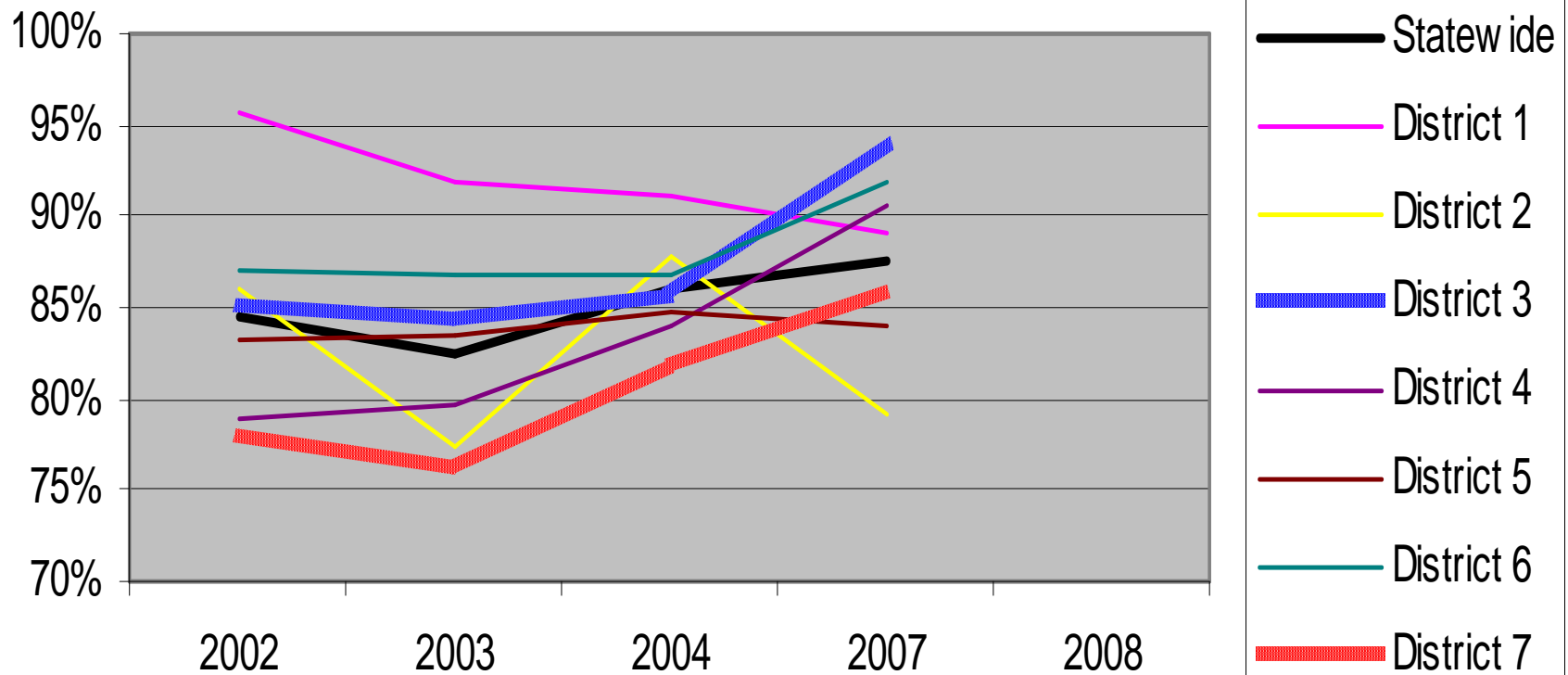


Latex Modified Slurry Seal:

- **Cracking Index (CI) trends, with increased use:**
 - **Dist. 3: CI increased 85% to 94% acceptable**
 - **Dist. 7: CI increased 78% to 83% acceptable**

Latex Modified Slurry Seal:

Crack Index



Patch-Only projects:

- In District 3, decreased \$ spent per Lane-mile from 2005 to 2008 by 30%
- In District 5, decreased \$ spent per Lane-mile from 2006 to 2008 by 25%

Crack Seal:

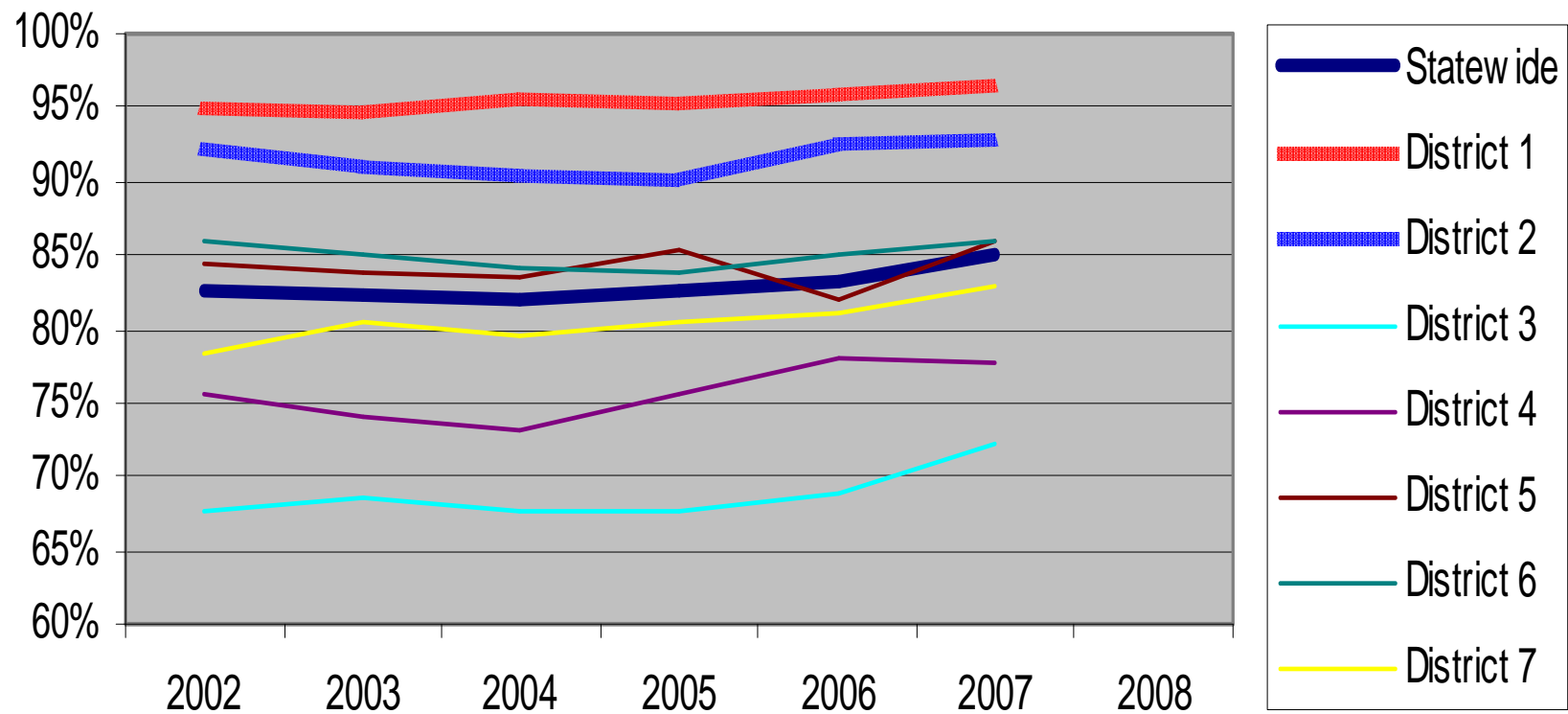
- Significant use in District 2
- Increased use in District 5
- Many Districts still wary – causes future grinding or W/L prior to OL
- No documented benefit as of yet

Thinner OL:

- **Past several years, significant use in Districts 1 & 2**
- **% acceptable ride in these Districts: 10% to 15% higher than rest of State**
- **Service life per dollar spent better than other Districts**

Thinner OL:

IRI - Normalized 0 to 100%



Preservation Program Implementation:

- **We now know where we are**
 - **Interviews with each District**
 - **We know what current challenges are**
 - **Team created to identify more treatments, and their associated specs**
 - **Must work to overcome objections to using Chip Seal**
 - **Must “prove” that worst-first does not work**
 - **Data collection quality**
 - **Service life**

Preservation Program Implementation:

- **Slight increase in network condition despite decline in overlay lane-miles**

Contact:

Geoff Hall, P.E.

Chief, Pavement & Geotechnical Division

Maryland State Highway Administration

443-572-5067

ghall1@sha.state.md.us

Proud Red Sox fan