

Pavement Preservation in Tennessee



**SEPPP Conference - 2014
Louisville, KY**

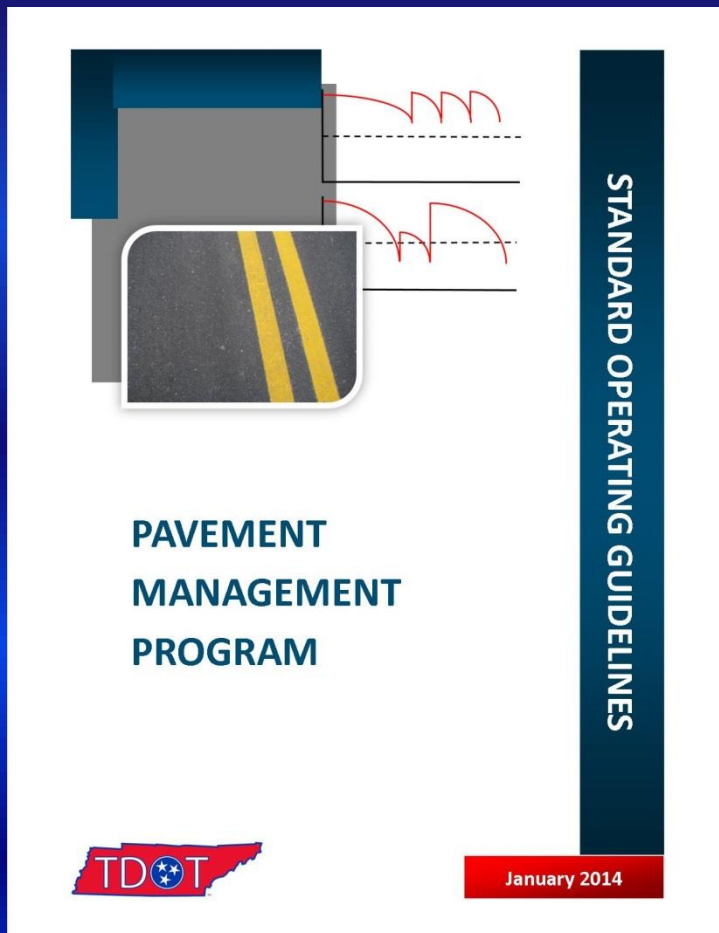
**Jim Maxwell, P.E.
Pavement Management**

Direction of Our Program





Pavement Management Program Standard Operating Guidelines (SOG)



**Published in
August**

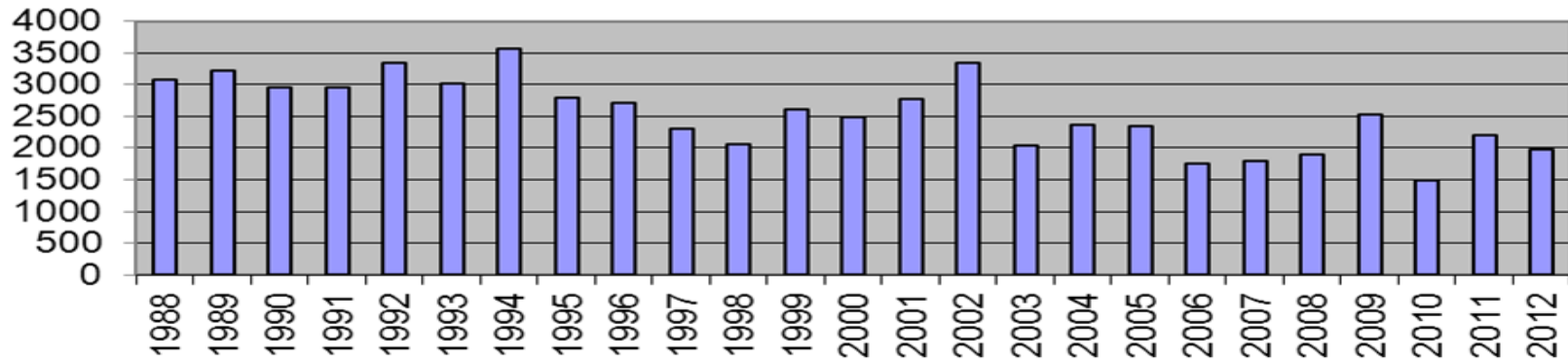


What's In the SOG?

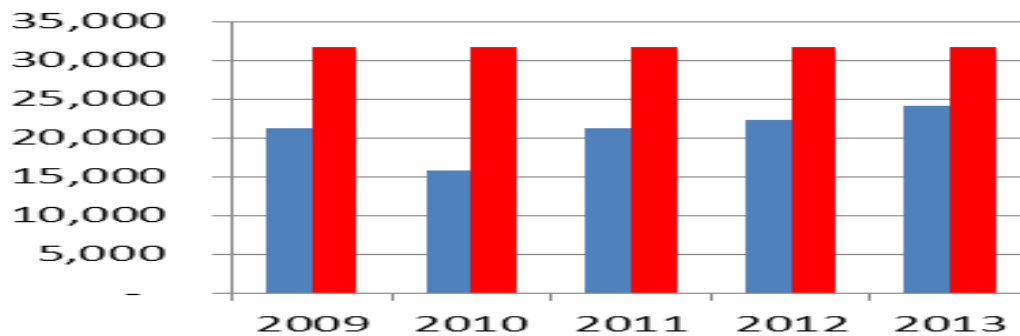


System Metrics

Total Lane Miles Maintained



State Routes Lane-Mile Years



Treatment Types and Pavement Life Extension

Treatment Type	Extension Life
411 D	12
Mill 411D	12
Thin Lift D	10
Thin Lift	7
Microsurfacing (22 lbs./SY)	7
Microsurfacing (32 lbs./SY)	8
Chip Seals	6
Chip Seal with Thin Lift Overlay	12
Cape Seal	10
Crack Sealing	2
Longitudinal Joint Stabilization	3



Project Identification and Selection

- 1. Identify candidates from PMS data**
- 2. Team visit to all candidate projects**
- 3. Develop priority list for each district
(3 districts per each of 4 regions)**
- 4. Send to Operations Manager in each region**
- 5. He compiles final list for region**
- 6. Submits for funding approval**

75% Traditional Hot Mix Asphalt

25% Alternative Treatments (min. 10% microsurface)



Design Considerations

Must notify Plans producer of need for the following:

Underdrains

Bike and Pedestrian Routes

ADA Ramps

Environmental Documents

Low-Cost Safety Improvements

Railroad Involvement



Training on SOG

Almost 100 people attended the Operations Management Workshops including:

**Regional Operations Personnel
District Managers, Engineers and
Supervisors
County Personnel**



The Treatments We Use Most

The Big 3 (85 to 90%)

Mill and Fill (1 1/4")

Overlay (1 1/4")

Microsurface



Other Treatments We Use

Thin Lift Asphalt (various)

Hot In-place Recycling

Chip Seals

Cape Seals



Challenges to our Pavement Preservation Program



Pavement Preservation Experience

Promotions under reorganization

**Regional and District personnel
with little or no experience in PP**

Succession Planning - Retirement



Funding Uncertainty

A large portion TDOT's resurfacing budget is derived from the Highway Trust Fund. With those resources in doubt we have had to come up with contingency funding scenarios to help mitigate this.



Thank You



Questions ?





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