

# Southeaster Pavement Preservation Partnership 2010 Update Welcome to Tennessee



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# Why are we here today?









# The Solution



# Background Information

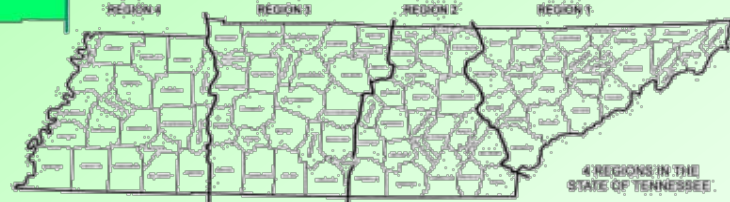


# Geographic Locations

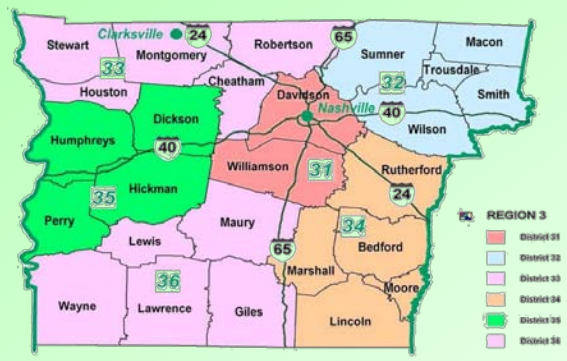
REGION 4



REGION 1



REGION 3



REGION 2





# Pavement Preservation In Tennessee

## **The Back Bone of Our Program**

- The Champion
- The Regional Pavement Management Coordinators
- The Pavement Management Team

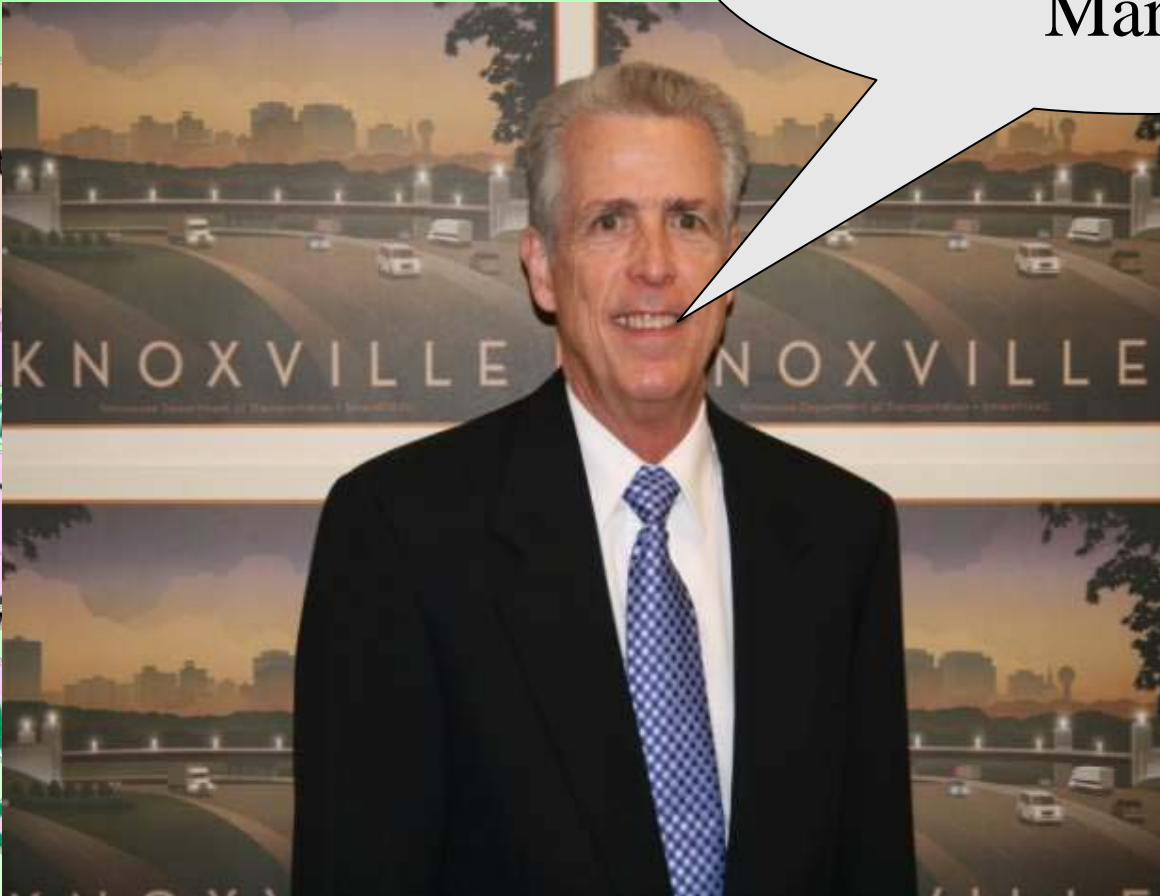








Steve  
"Get it done right"  
Hall



# REGION 1

Harold  
"I've been down this road before"  
Martin



-  DISTRICT 11
-  DISTRICT 12
-  DISTRICT 13
-  DISTRICT 14
-  DISTRICT 15
-  DISTRICT 16



# REGION 2

Clay

Frank  
"I will try anything"  
Campbell



- District 22
- District 23
- District 24
- District 25

24

75





# REGION 3

Jay  
"I want to be like Frank"  
Norris



## REGION 3

-  District 31
-  District 32
-  District 33
-  District 34
-  District 35
-  District 36



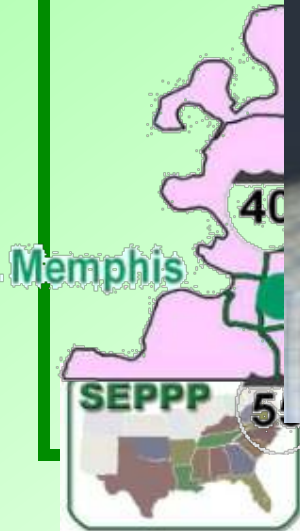
# REGION 4

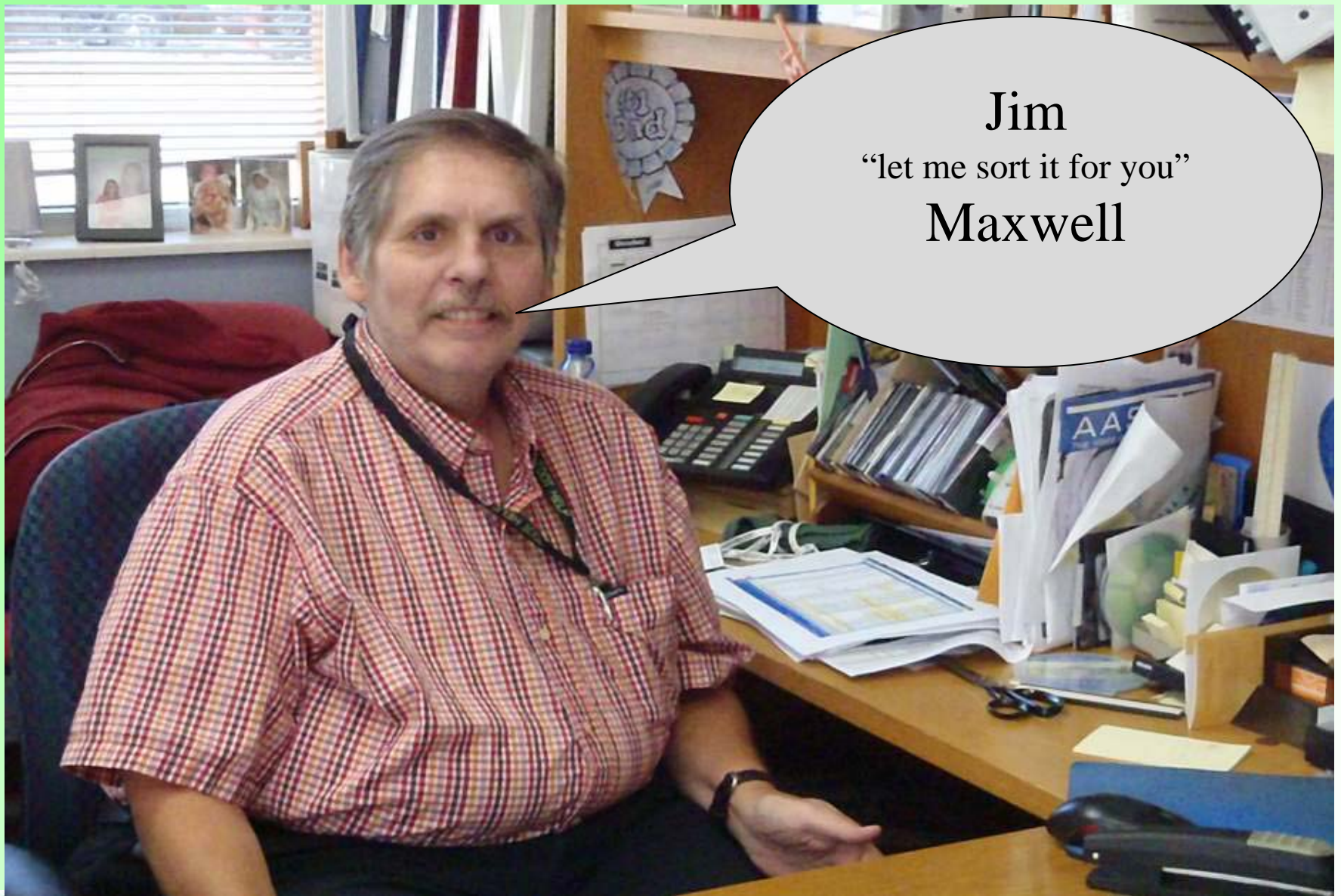
## REGION 4

-  District 41
-  District 42
-  District 43
-  District 44
-  District 45



Scotty  
"We are all in this together"  
Plunk





Jim  
“let me sort it for you”  
Maxwell



# What have the Guys been doing in 2009

- Microsurfacing
- Thin Lift Projects
- Microsurfacing / Thin Lift Alternates
- Cape Seals
- Crack Sealing (flush fill method)
- Joint Stabilization
- Chip Seals
- Concrete Pavement



Repair



# Preventive Maintenance Treatments Approved for Federal Funding in TN

Treatments	PQI / Distress Selection Guidelines	Typical ADT Range	Expected Service Life Extension
Thin Mix Overlays 1" – 1.5" Thick	$\geq 3.5$ / Low to moderate fatigue cracking, oxidized pavement, raveling, and rutting in wheel paths $< 0.25$ "	No Limit	12 Years
Ultra Thin Mix Overlays <1"	$\geq 3.8$ / Low fatigue cracking oxidized pavement, loss of fines on pavement surface.	0 – 5000	6 – 8 Years
Micro-Surfacing	$\geq 3.8$ / Low fatigue cracking oxidized pavement, loss of fines on pavement surface.	0 – 5000	6 – 8 Years
Chip Seal	N/A / moderate fatigue cracking, oxidized pavement, raveling, and rutting in wheel paths $< 0.25$ "	$< 2000$	6 – 8 Years
Joint/Crack Seal	N/A / Longitudinal and Transverse Cracks ( $1/8$ " - $1/2$ " )	No Limit	3 – 5 Years
Fog Seal	N/A / Slight loss of fines	$\leq 5000$	2 – 3 Years



# 2009 State Route Summary

- Treated approximately 1874 lane miles (1539 lane miles last year). 1415 were hot mix; 460 were maintenance treatments (mostly micro-surfacing followed by ultra-thin mix).
- Interstate approximately 925 lane miles (350 lane miles last year). In 2009, mostly Conventional Hot Mix some joint stabilization. Did 46 miles of Concrete repair.



# TDOT's 2009 Program

- 80% Conventional Hot Mix
- 10% Micro-surfacing
- 7 % Thin Lift Hot Mix
- 3 % Other (chip seal, scrub seals, joint seals, ect.)



# \$\$\$Funding\$\$\$

- 2009 State Resurfacing
- Interstate \$50 Million
- State Route \$93 Million
- 2009 Federal Funding
- Interstate \$67 Million
- State Route \$ 120 Million



# Is Our Pavement Management Program Working?



# APA Perpetual Pavement Awards



# Pavement Management/Resurfacing

- Tennessee ranked first out of 32 states for pavement smoothness in a recent study by the American Association of State Highway Transportation Officials and is one of only two states to be awarded a perpetual pavement award by the Asphalt Alliance for six years in a row.



# 2009 TDOT System Quality (PQI) Report

Statewide	Interstates		State Routes	
Region	CL Miles	Avg PQI	CL Miles	Avg PQI
I	344.42	4.34	2925.21	3.93
II	219.28	4.26	2700.97	4.06
III	353.66	4.47	3758.45	4.20
IV	185.84	4.41	3359.46	3.85
<b>Total</b>	<b>1103.20</b>		<b>12744.09</b>	
<b>Avg PQI</b>		<b>4.38</b>		<b>4.01</b>





# The Future

- Leadership Change ??????
- Need more pavement preservation Contractors
- Pavement Management
  - UT Research
- Learn from our experience with treatments
- Grow the program
- Continue to build and maintain Perpetual Pavements



# Pavement Preservation

“You can’t always get what you want  
But if you try sometimes well you just might find  
You get what you need”

Rolling Stones  
Mick Jagger and Keith Richards



# Welcome to Nashville, TN



- We have a Sales Tax driven General Fund, so **please** spend all your per diem while you are here, and carry home souvenirs. Remember you can always buy more luggage.

