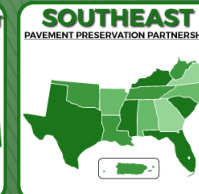
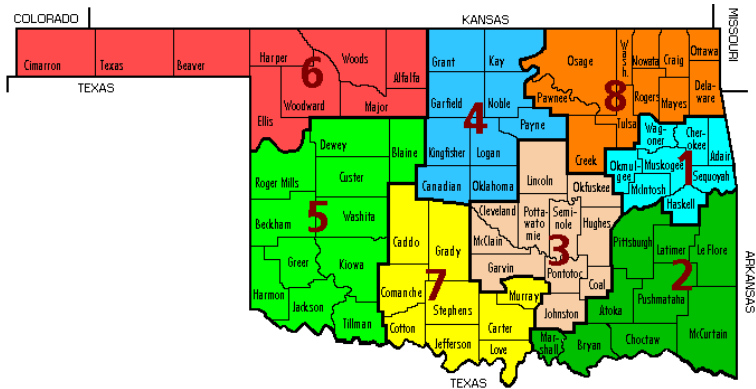


Oklahoma Pavement Preservation Program Update



Oklahoma– Background



- Oklahoma has 12,235 centerline miles (30,442 lanes miles) State highway system
- Interstates/ other NHS: 673/2,564 centerline miles
- ODOT has Eight Field Districts
- 77 Counties

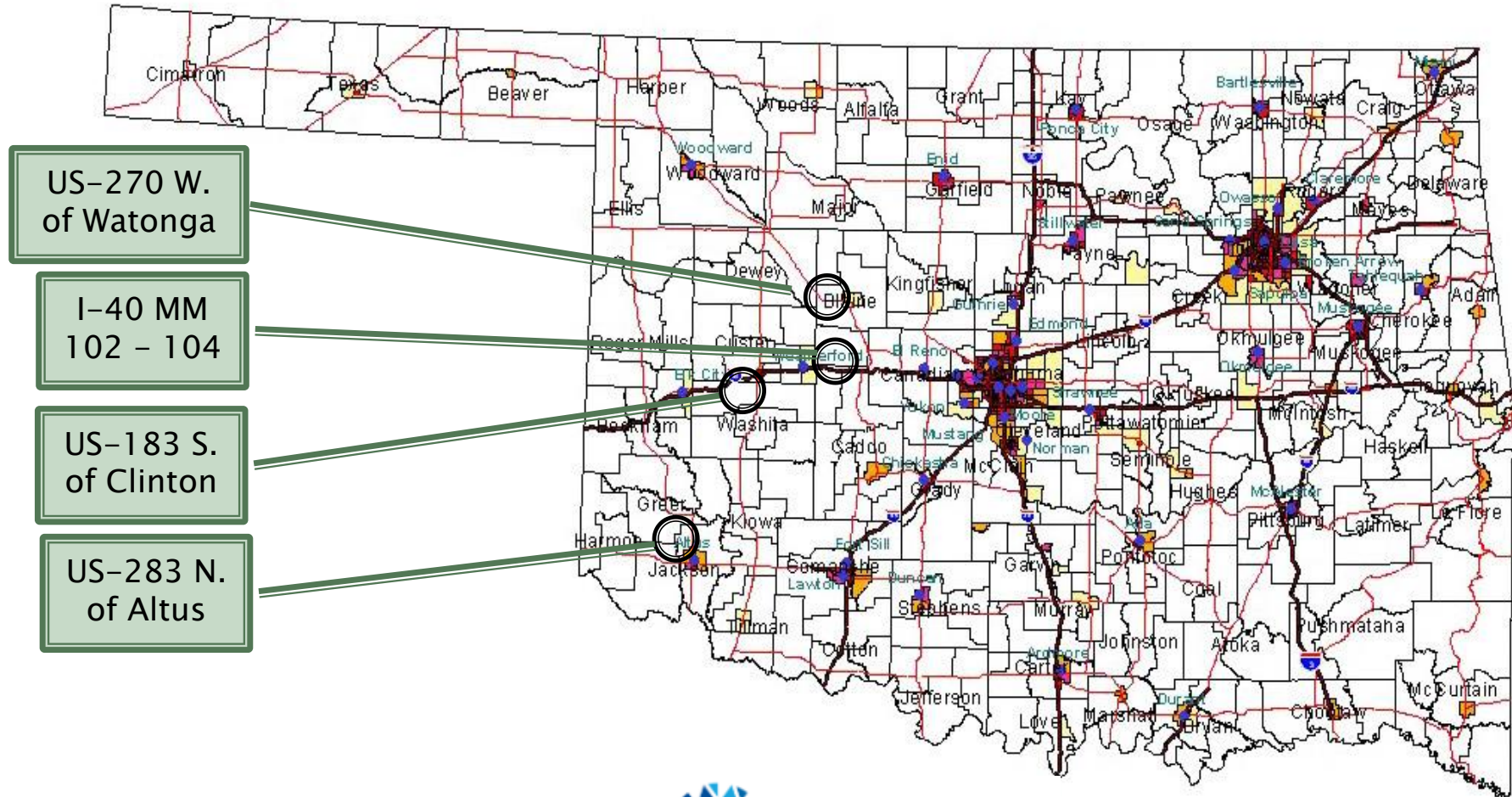
Oklahoma



- Concept– Keeping Good road in good conditions
- Pavement Preservation Projects
 - Based on Pavement Management Data
- Different options, including Hot In–place Recycling projects (in lieu of medium overlay)
- Not many Cold In–place Recycling projects

Past HIR Projects in District 5

- Estimated 10–15% savings for a HIP recycling project in lieu of a conventional mill and inlay project
- Most District 5 projects are within a 50 mile radius of a rock quarry.



In-Place Recycling Projects– CIR



- US-412 Beaver & Harper counties (NW part of Oklahoma in pan handle)
- Major issue– Transverse cracking
- OSU(studied & evaluated CIR project with control (a typical rehab treatment of ODOT)
- Design: CIR+2”overlay vs. milled surface asphaltic fabric over crack+3” HMA overlay
- After 3 years– CIR performed better in mitigating transverse cracks but with fatigue top down cracking
- Top down cracking was not a failure mechanism for this CIR rehab pavement in MEPDG analysis



Maintenance Quality Assurance Program

- ▶ Currently in the process of developing ODOT's MQA program
- ▶ Procedures for collecting condition assessment data for maintenance assets maintained by ODOT
- ▶ ODOT has identified a need to use maintenance performance data to inform budget decisions

Maintenance Quality Assurance Program

► Approach

- Identify maintenance assets/activities and performance measures to be collected
- Develop procedures for collecting and maintaining performance data
- Develop and conduct field training
- Collect performance data in the field for all asset classes
- Compile report of summarized performance data
- Repeat MQA assessment annually

Maintenance Quality Assurance Program

► Performance Measures

- Bridge
- Traffic
- Roadside
- Drainage
- Pavement
 - Surface Defects
 - Potholes
 - Rutting
 - Cracking Data



Data Collection and Quality Control

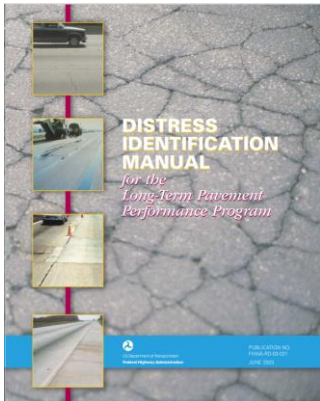


- 16,220 Miles Collected
 - Turnpikes and Sample Sections Included
- 5–6 Month Collection Cycle
- 6 Control Verification Sites
- Weekly AC Verification Site Test
- Monthly AC and PC Control Test
- AC verification includes IRI, Rutting
- PC verification includes IRI, Faulting

Quality Assurance and Audits



Pavement Management
Distress Rating Guide



- Started collecting lengths of all PC cracks
- Improved AC cracking % calculation to reflect actual crack density
- Monthly random audits and distress specific audits
- Started collecting retro-reflectivity for striping



OKLAHOMA Transportation

Thank You