



Pennsylvania State Report

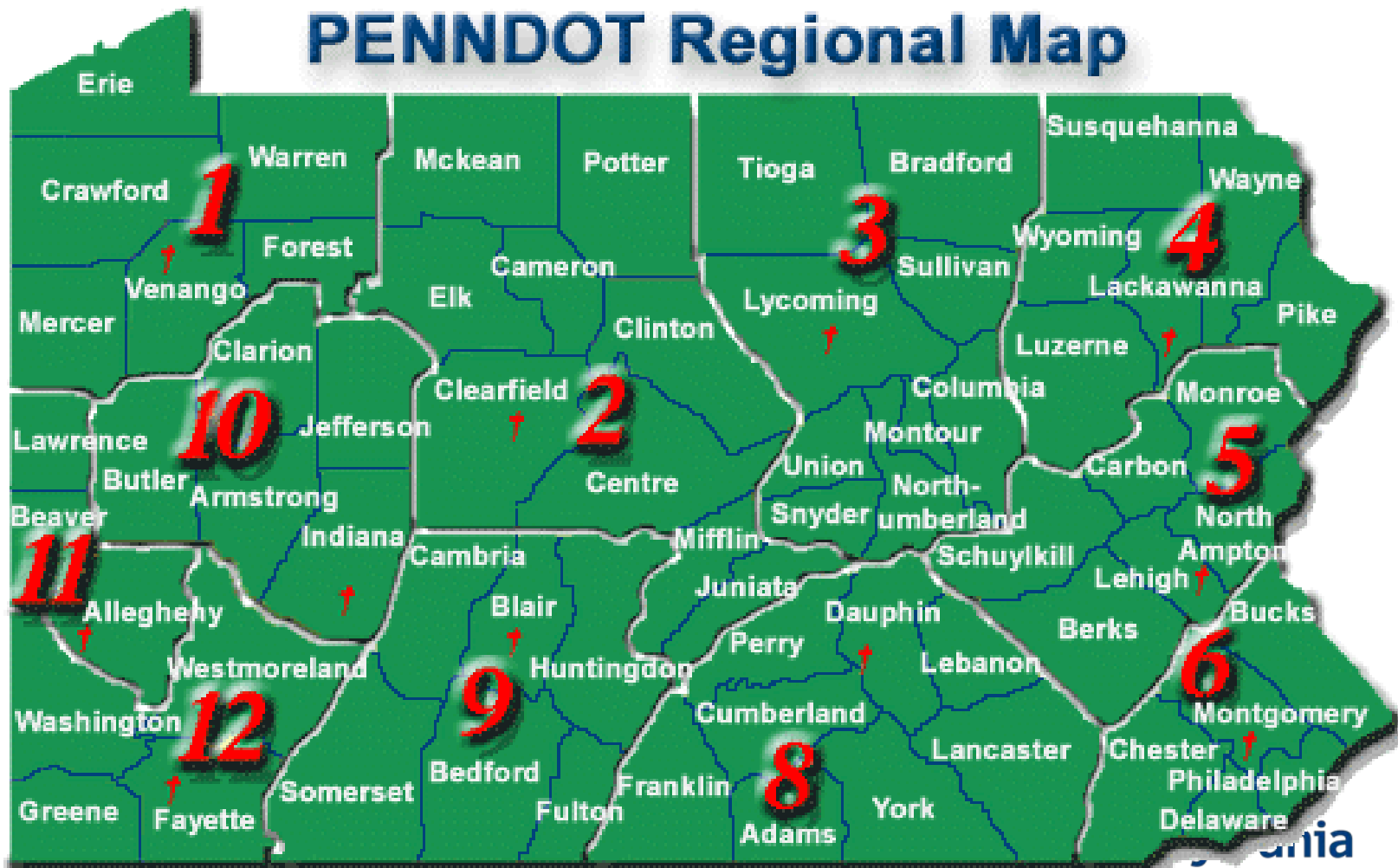
April 30, 2015

Pennsylvania Miles

- 121,772 miles of Public Roads
- PennDOT Responsible for:
 - > 40,000 miles of roads
(5th for state-maintained miles)
 - > 25,000 bridges

District Map

PENNDOT Regional Map



2014 Program

- **Capital Program**
 - Micro surfacing
 - Reconstruction or New Construction
 - Rehabilitation
 - Resurfacing

- **Maintenance Program**
 - Crack sealing
 - Mechanized Patches
 - Seal Coats
 - Resurfacing

▶ 2015 & 2016 Program

- **“Program Mileages Are Estimated”**
- **Capital Program**
 - Micro surfacing
 - Reconstruction or New
 - Rehabilitation
 - Resurfacing
- **Maintenance Program**
 - Crack sealing
 - Surface Repairs
 - Resurfacing

▶ Budget 2015

- **Funding Sources**
 - State Highway (Capital)
 - State Highway (Maintenance)
 - Federal (NHPP)
 - Federal (STP)

▶ Budget 2016

- **Funding Sources**

- State Highway (Capital)
- State Highway (Maintenance)
- Federal (NHPP)
- Federal (STP)

Thin Hot Mix Asphalt Overlays (THMAO)

- Pennsylvania completed 4 pilot projects
(3 different types of pavement surfaces)
 1. Concrete
 2. Composite (concrete with Asphalt overlay)
 3. Asphalt
- Dense-graded wearing course
- $\frac{3}{4}$ " to 1- $\frac{1}{2}$ " thick
- 6.3mm aggregate
- Polymer modified asphalt (PG 76-22)
- 3-year evaluation underway

▶ THMAO Cameron Street Pilot

- **BEFORE**



- **AFTER** (Completed July 2012)



SR 22, Dauphin County
Harrisburg, PA

Flexible Micro Surfacing

- **Research project constructed in 2013**
- **Four Contiguous Test Sections**
 1. Normal Micro Surfacing
 2. Highly Polymer Modified Asphalt
 3. Flexible Emulsion with Polyester Fibers
 4. Flexible Emulsion with Fiberglass Fibers
- **Up to a 3-year evaluation is being conducted**

Flexible Micro surfacing



▶ Asphalt Rubber Projects



▶ Ground Tire Rubber (GTR) in Asphalt

- **Rubber Applications in Pennsylvania**
 - Asphalt Rubber Gap-Graded mixes using wet process
 - Stabilizer in Stone Matrix Asphalt (SMA)
 - Asphalt Binder modified with GTR using wet process
 - Aggregate filler/substitute in standard dense-graded base course mixes using dry process

▶ Asphalt Rubber Gap-Graded Pilot Projects

- **Pilot Projects**
 - 4 projects completed between 2012 and 2015
 - Total 32 miles
- **Pilots will be monitored for 3 years**
 - Video log to measure pavement distresses
 - Skid testing

I-78 Berks County



I-78 Berks County



▶ Asphalt Rubber Dense-Graded Pilot Projects

- **Locations**

- 7 Project locations to be completed 2015 - 2016
- Total 15 miles

- **Pilots will be monitored for 3 years**

- **FHWA AID Program Submission**

- For Pre, during, and post construction monitoring and evaluation

Hot In Place Recycling

- **Pilot Projects**
 - SR 85 in District 10-0, Indiana County
 - SR 1038 in District 10-0, Armstrong County
 - SR 1019 in District 11-0, Allegheny County
- **Total of 14 Miles**
- **Pilots will be monitored for 3 years**
 - Yearly Cracking Survey
 - Yearly Field View

HIPR



Hot In Place Recycling – “CONSTRUCTION”

- **To Bid You must be:**

- A Registered Business Partner

- http://www.dotdom2.state.pa.us/ecms/BP_Reg/index.html

- A Pre-Qualified Contractor

- [PennDOT Prequalification for Contractors.pdf](#)

- **For Help Registering/Pre-Qualifying**

- ECMS Help Desk (717)783-7711

- <http://www.dot14.state.pa.us/ECMS/>

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Questions?

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