



60TH ANNUAL NJ ASPHALT PAVING CONFERENCE

MARCH 14, 2017

NJDOT UPDATE

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NJDOT, PAVEMENT DESIGN



RELIEF TRANSPORTATION TRUST FUND (TTF) FUNDING THROUGH GAS TAX !

State Transportation Trust Fund

.... 10.5 cents on the motor fuels tax, the petroleum products gross receipts tax, a portion of the general sales tax, contributions from the New Jersey Toll Road authorities

Federal Transportation Trust Fund

....Need to wait and see....



NJDOT FUND ALLOCATION

STATE FISCAL YEAR JULY 2016 TO JUNE 2017

Pavement Projects *(Includes Projects by Operations)*

Re-Surfacing

Approx. \$ 200 Million
About 35 Projects

Pavement Preservation/
Maintenance

Approx. \$ 100 Million
About 15 Projects

Projects are in various Stages of Development

SOME COMMON REASONS FOR DELAYS IN PROJECT DELIVERY

DESIGN CONCERNS

ROW ISSUES

ENVIRONMENTAL RESTRICTIONS

ADA COMPLIANCE

SPECIFICATION CHANGES

➤ **HMA REPAIR – SECTION 401.03.01.D**

FLEXIBLE - 8" THICK SURFACE COURSE SPECIFIED FOR THAT PROJECT OR APPROVED BY RE

COMPOSITE - 8" OR UP TO TOP OF CONCRETE WHICH EVER IS LESS

SPECIFICATION CHANGES

➤ HPTO – SECTION 902.08

POLYMER MODIFIED ASPHALT SHOULD MEET THE PERFORMANCE REQUIREMENT

ADDED – OVERLAY TESTER REQUIREMENTS (AVG. # OF CYCLES FOR FAILURE SHOULD BE GREATER THAN 600)

PAY ADJUSTMENT FOR HPTO MIXTURE PERFORMANCE (TABLE 902.08.03-1)

SUMMARY OF Table 902.08.03-1 Performance Testing Pay Adjustments for HPTO	
TEST	PPA
APA @ 8,000 loading cycles, mm (AASHTO T 340)	PPA=\$0 for ≤5 mm and Negative \$100 for 12 mm >12 mm – Remove & Replace
Overlay Tester, cycles (NJDOT B-10)	PPA = \$0 for ≥600 cycles and Negative \$100 for 400 cycles <400 cycles- Remove and Replace

PRACTICAL APPLICATION OF NEW TECHNOLOGIES

HFST – HIGH FRICTION SURFACE TREATMENT

ROUTE 130 (PILOT PROJECT), ROUTE 80 RAMPS 12 & 53, ROUTE 47, ROUTE 50



NEW TECHNOLOGIES

UTFC – ULTRA THIN FRICTION COURSE
ROUTE 80 BECKWITH TO POLIFY



NEW TECHNOLOGIES

CHIP SEAL

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graph TD; A[CHIP SEAL] --> B[ASPHALT RUBBER CHIP SEAL]; A --> C[POLYMER MODIFIED ASPHALT EMULSION CHIP SEAL];
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ASPHALT RUBBER CHIP SEAL

Route 68 NB

POLYMER MODIFIED ASPHALT EMULSION CHIP SEAL

Route 68 SB

PILOT PROJECT : ROUTE 68 MOUNT PLEASANT RD TO AARONSON RD

CONSTRUCTION EXPECTED TO START IN SUMMER 2017

NEW TECHNOLOGIES

INFRA RED THERMAL PROFILING (IR) & INTELLIGENT COMPACTION (IC)

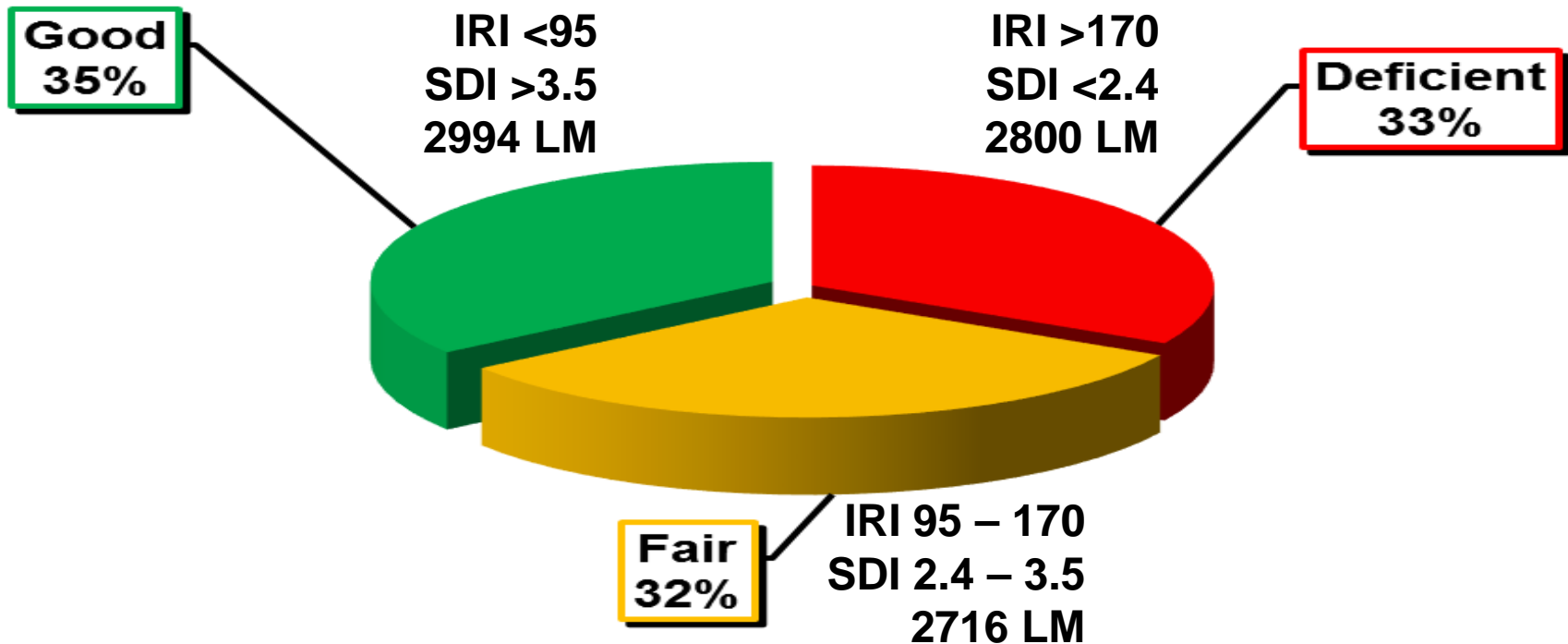
COMPLETED ROUTE 130 SHOWCASING IC AND IR PROFILE SYSTEM
IN THE PROCESS OF IDENTIFYING MORE PILOT PROJECTS IN DIFFERENT REGIONS



STATUS OF NJDOT HIGHWAY SYSTEM



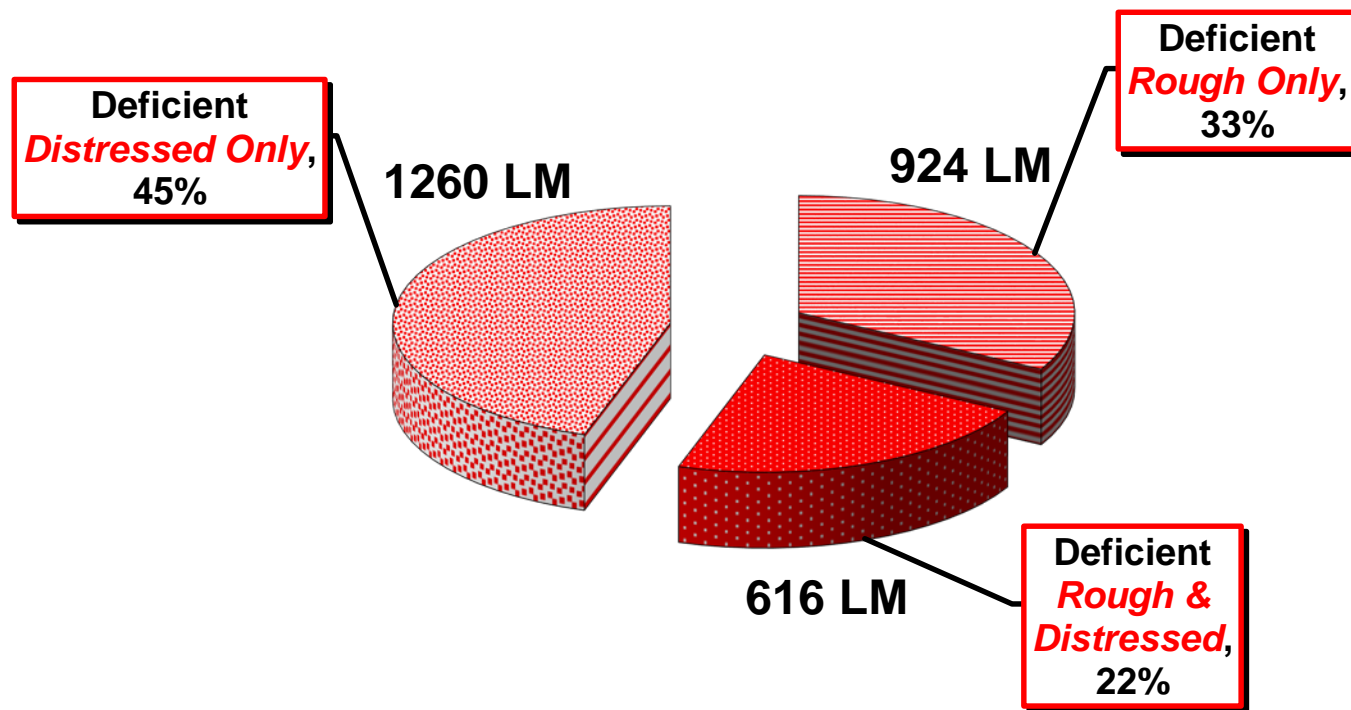
NJDOT Maintained Pavement Status Based on IRI & SDI (Source: 2016 Data)



Lane Miles (LM) – Tested Miles only

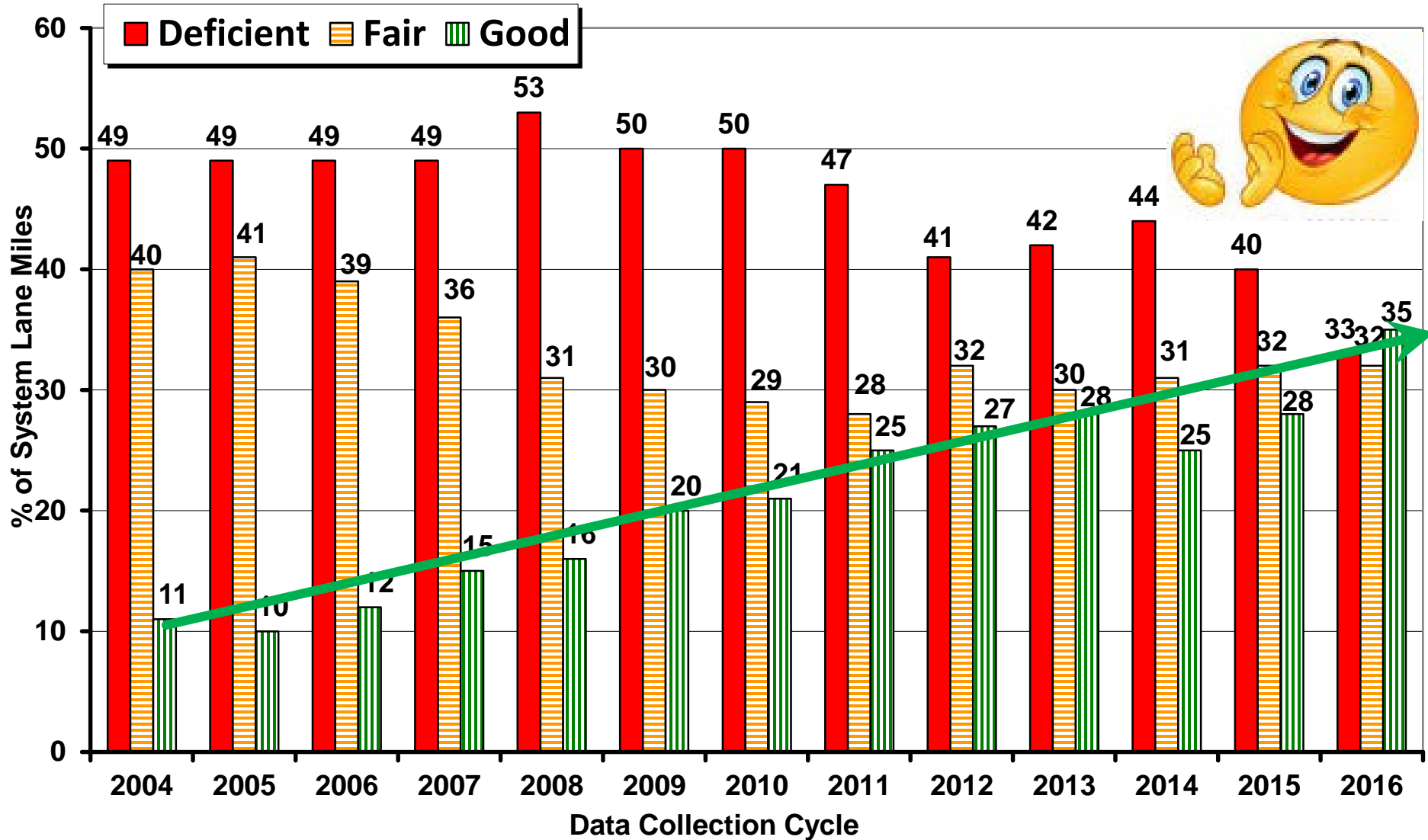
Source: NJDOT Pavement Management System, 2016

Deficiency based on **Roughness & Distress** 2800 LM (33% of Total Lane Miles)



Source: NJDOT Pavement Management System, 2016 Data
Lane Miles (LM) – Tested Miles only

Multi-Year Status of State Highway System

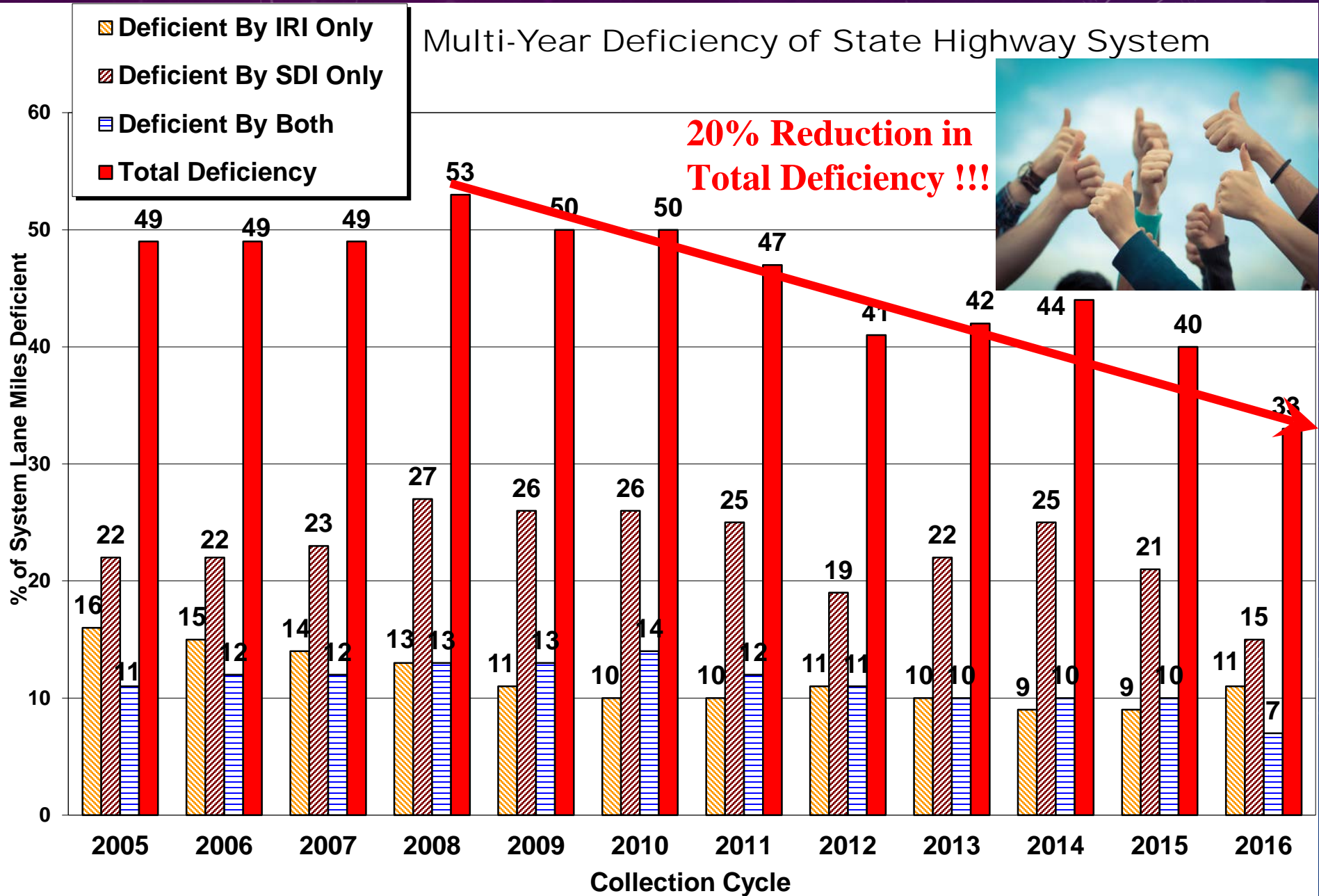


Source: NJDOT Pavement Management

Multi-Year Deficiency of State Highway System

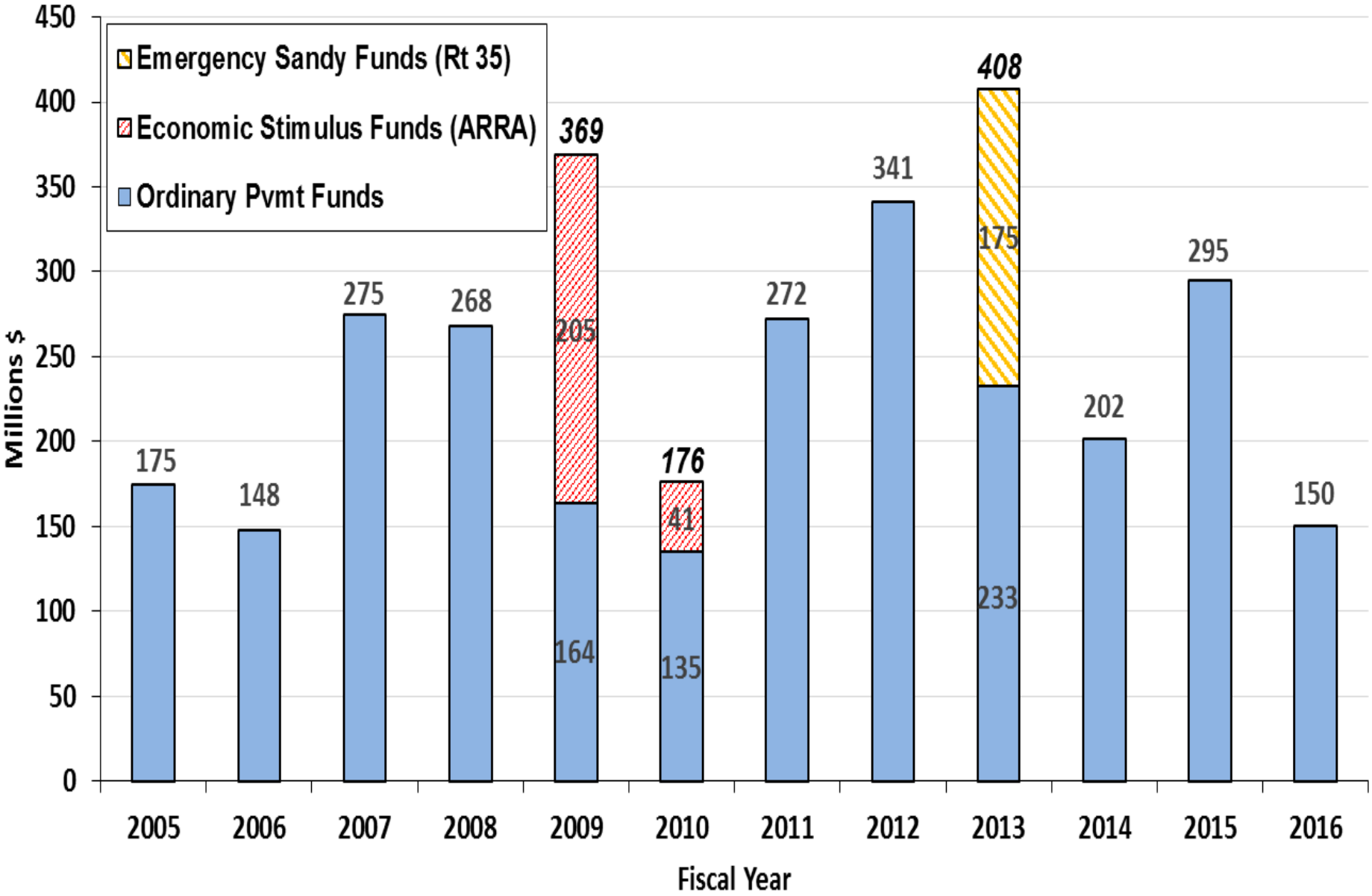


20% Reduction in Total Deficiency !!!



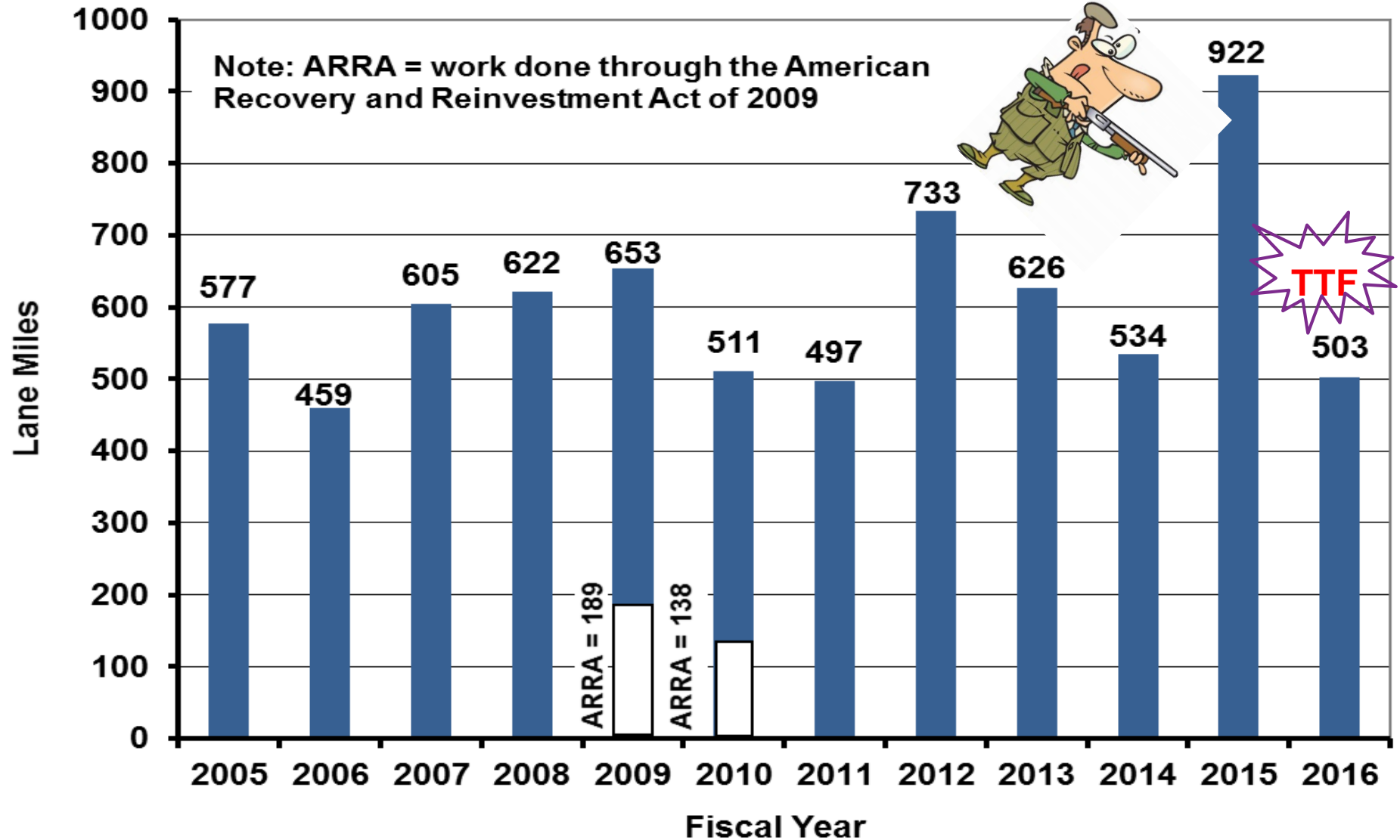
Source: NJDOT Pavement Management System

PAVEMENT CONSTRUCTION SPENDING HISTORY

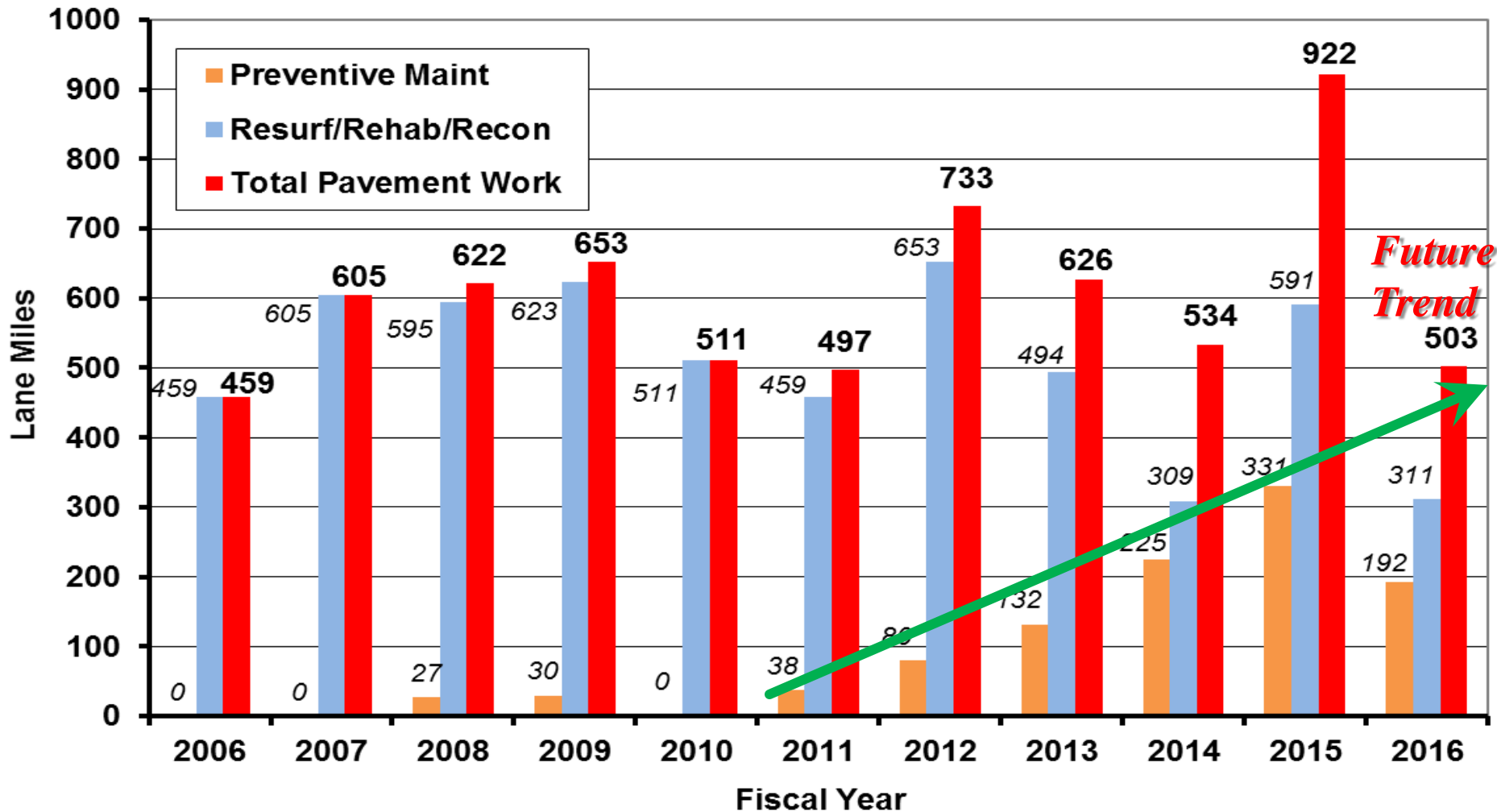


NJ State Highway System Lane Miles of Major Pavement Work Completed

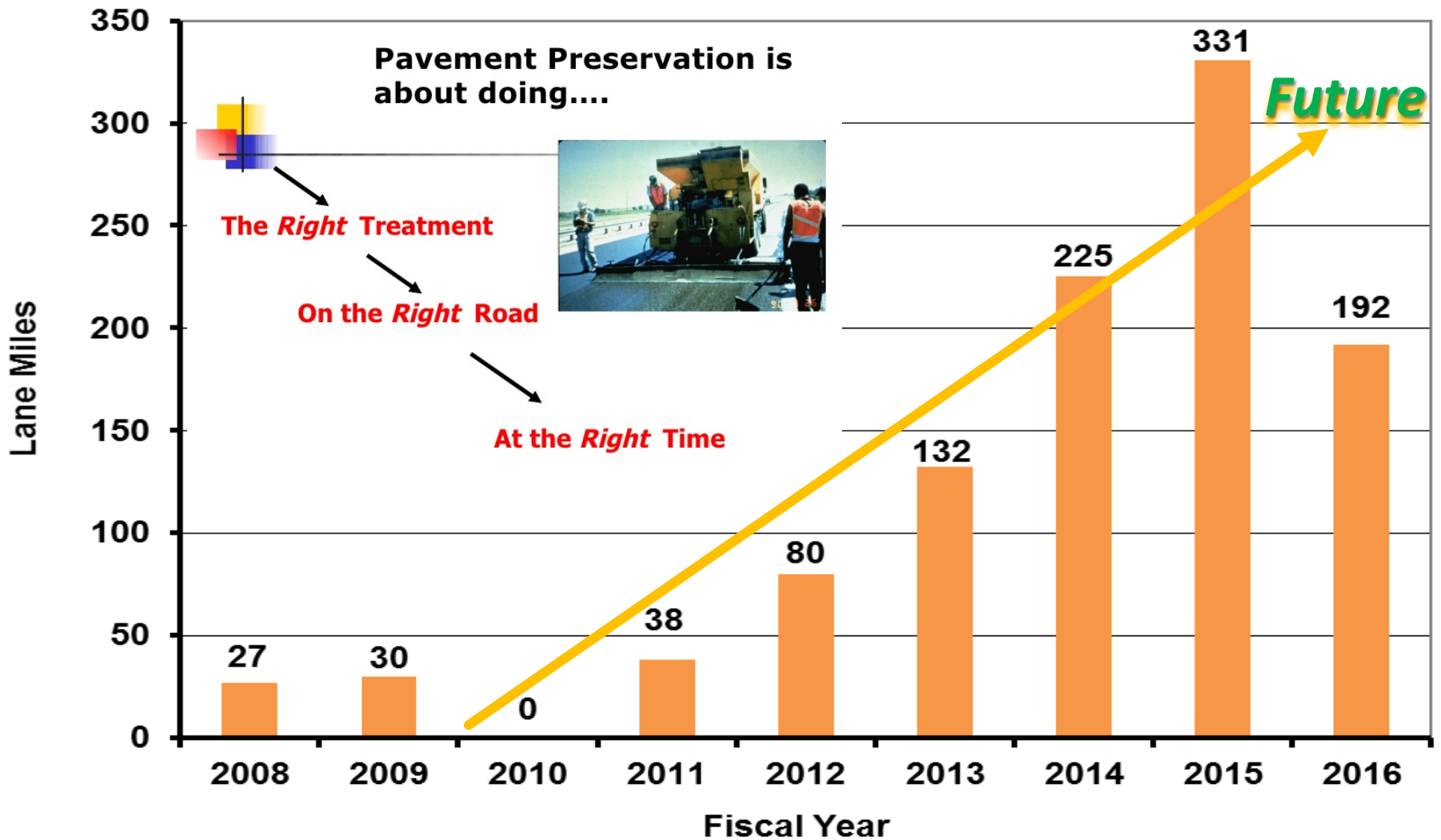
(Total System Mainline Lane Miles = 8407)



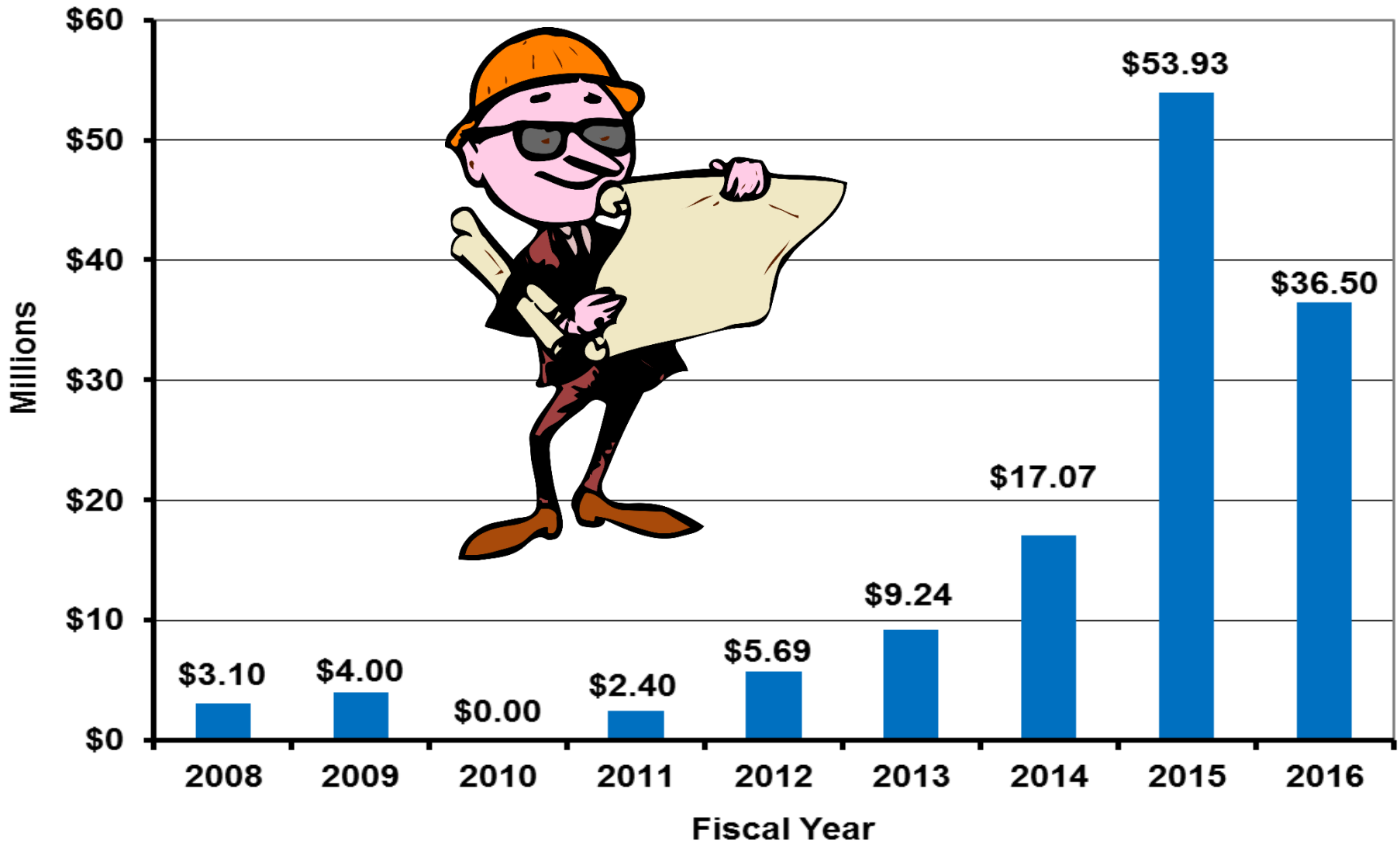
NJ State Highway System Lane Miles of Major Pavement Work Completed (Total System Mainline Lane Miles = 8407)



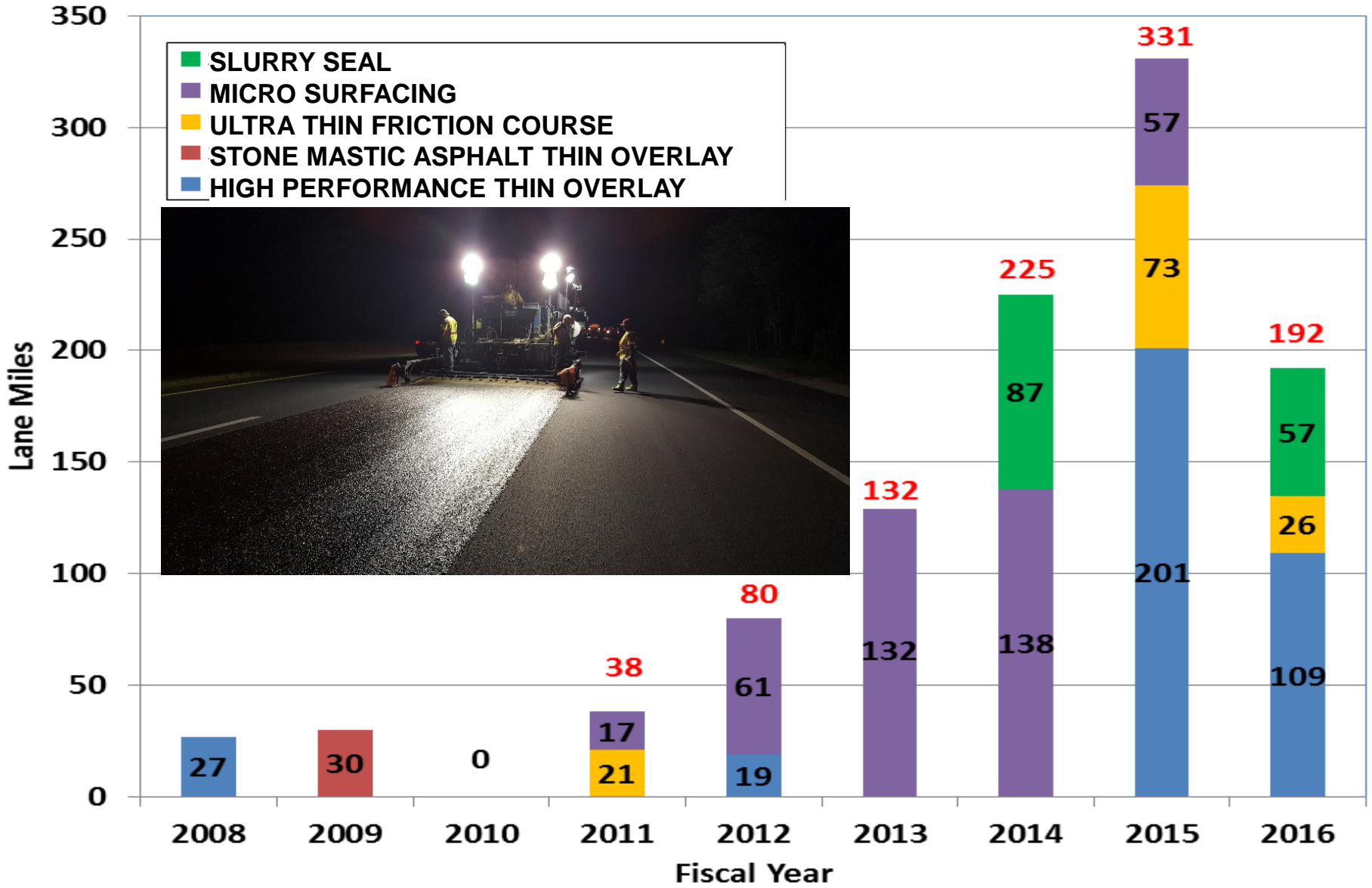
NJ State Highway System Lane Miles of Preventive Maintenance Pavement Work (Total System Mainline Lane Miles = 8407)



NJ State Highway System Annual Preventive Maintenance Pavement Investment

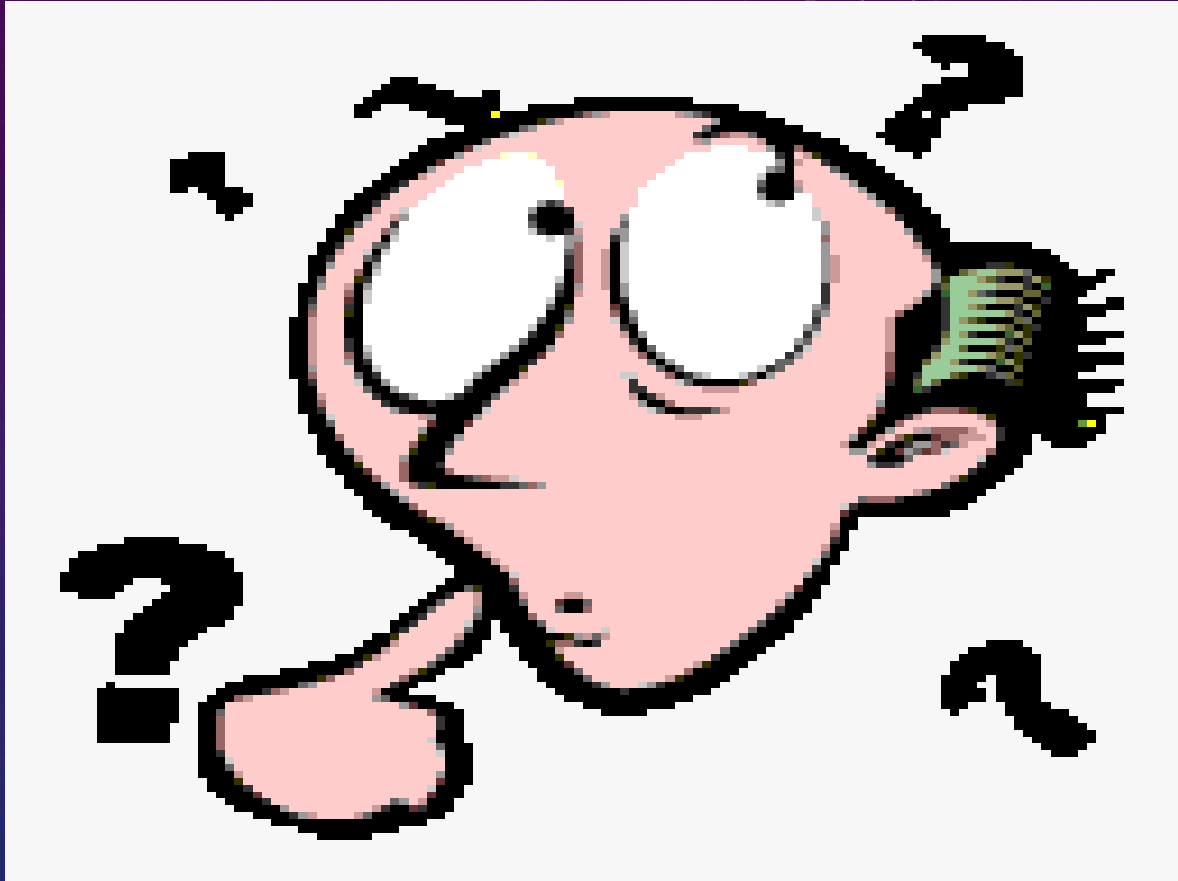


**NJ State Highway System
Lane Miles of Preventive Maintenance Pavement Work
(Total System Mainline Lane Miles = 8407)**





That's all Folks!



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Thank you!