

NJ ASPHALT PAVING CONFERENCE 2025 MARCH 4, 2025

NJDOT UPDATE

NUSRAT S. MORSHED, P.E. PAVEMENT DESIGN & TECHNOLOGY

Acknowledgement

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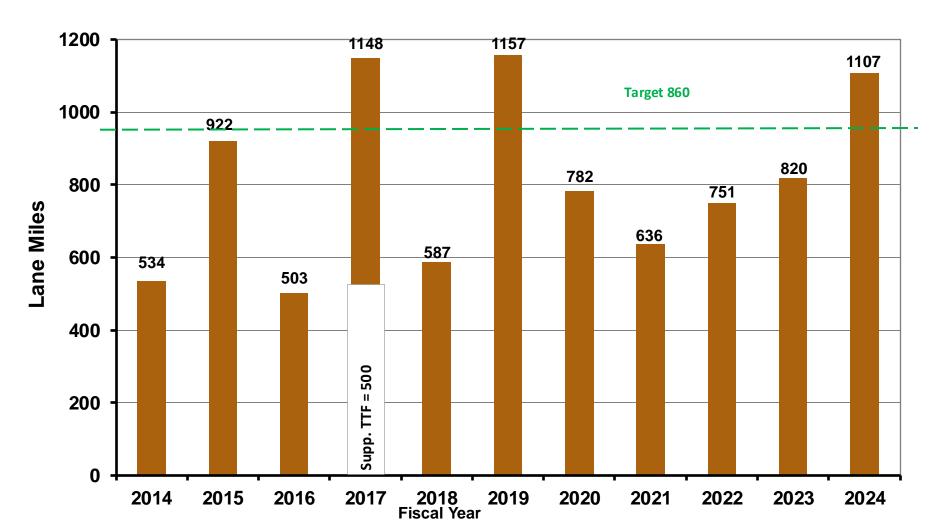
Outline

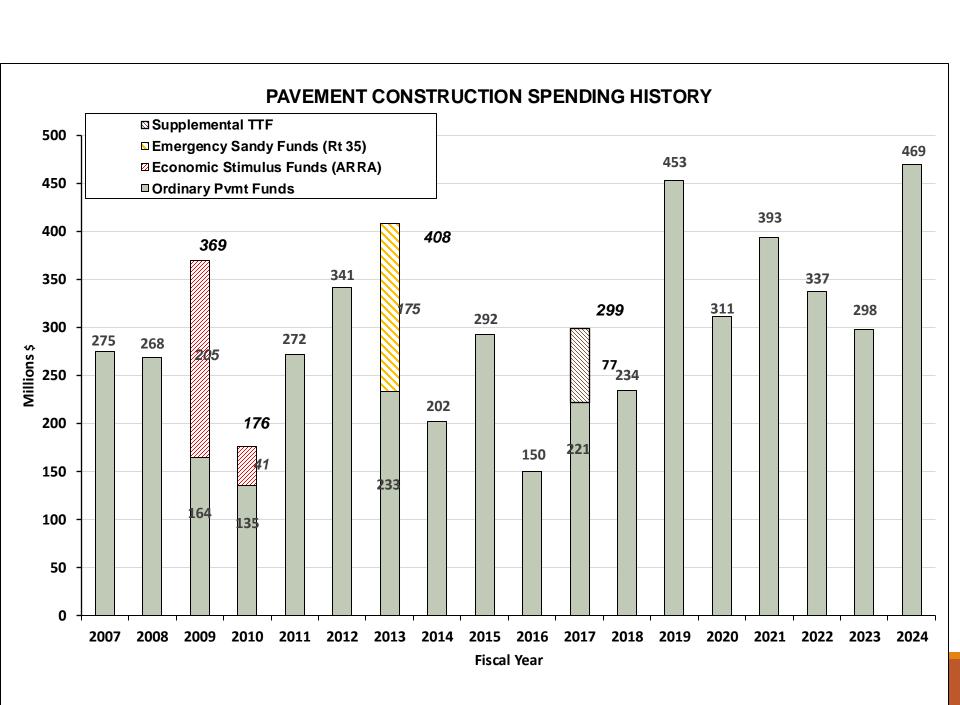
- NJDOT Update- Funding and Pavement Condition
- **❖ NJDOT Update- Change to Specifications**
- Conclusion

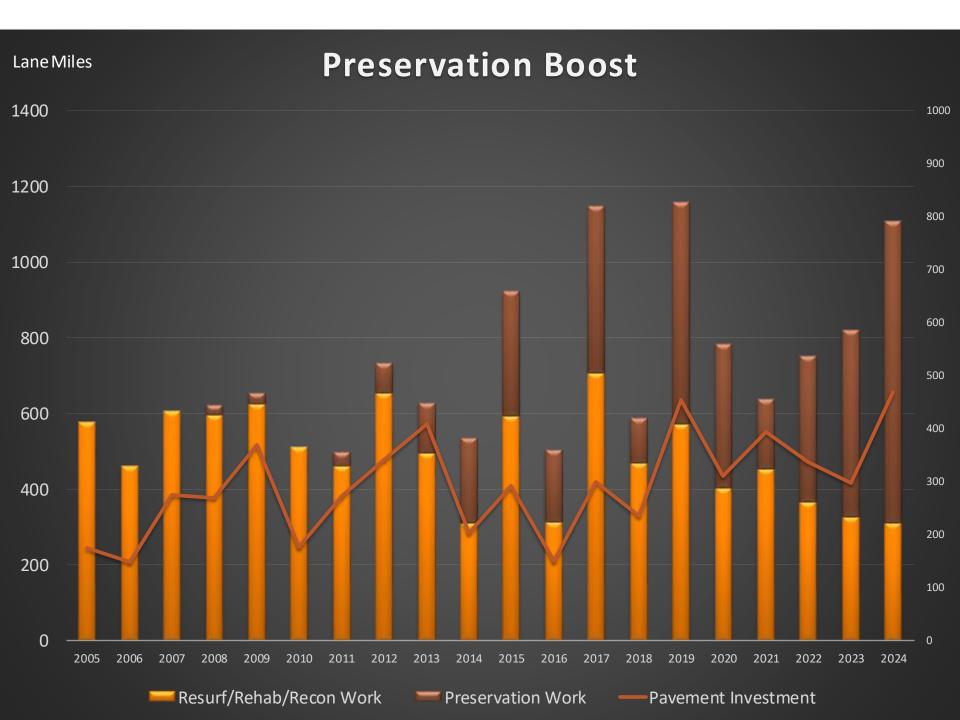
Funding and Pavement Condition



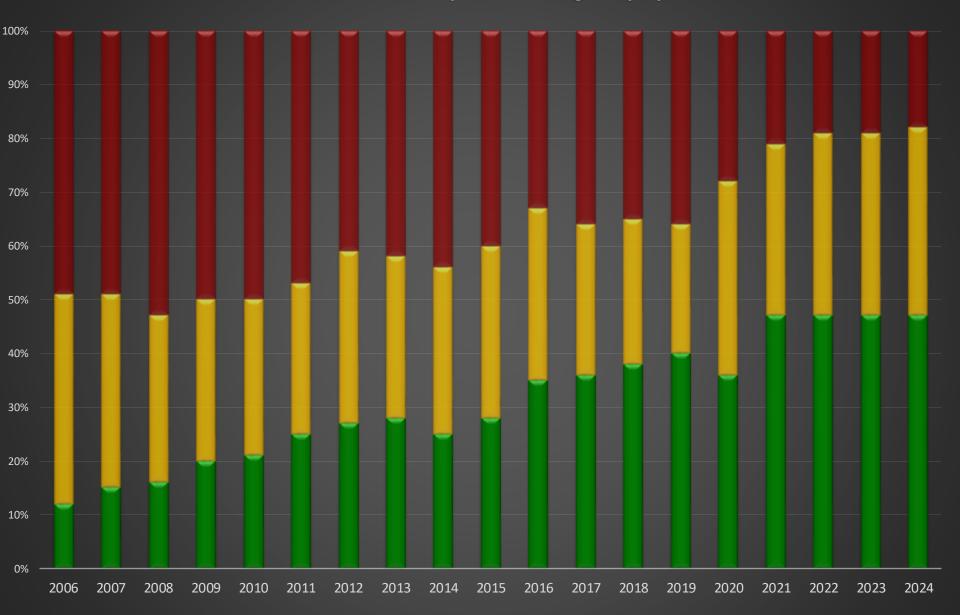
NJ State Highway System Lane Miles of Major Pavement Work Completed (Total System Mainline Lane Miles = 8548)



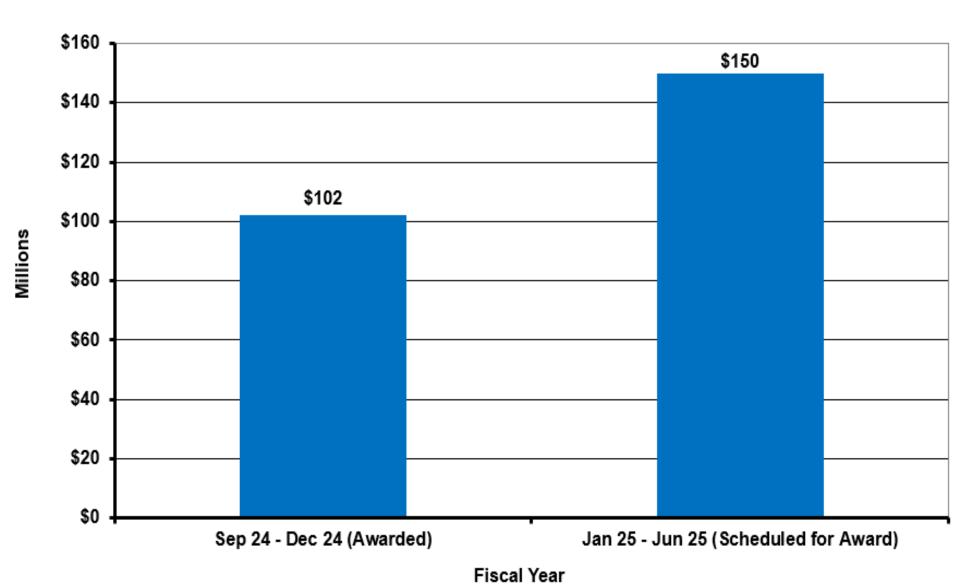




Pavement Condition History of State Highway System







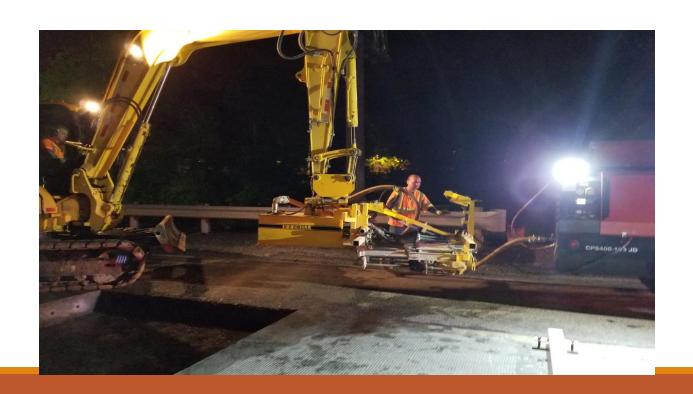
Operations Pavement Projects



Update on Change to Specifications



FULL DEPTH CONCRETE PAVEMENT REPAIR PRECAST



FULL DEPTH CONCRETE PAVEMENT REPAIR PRECAST: JPrCP Acceptance

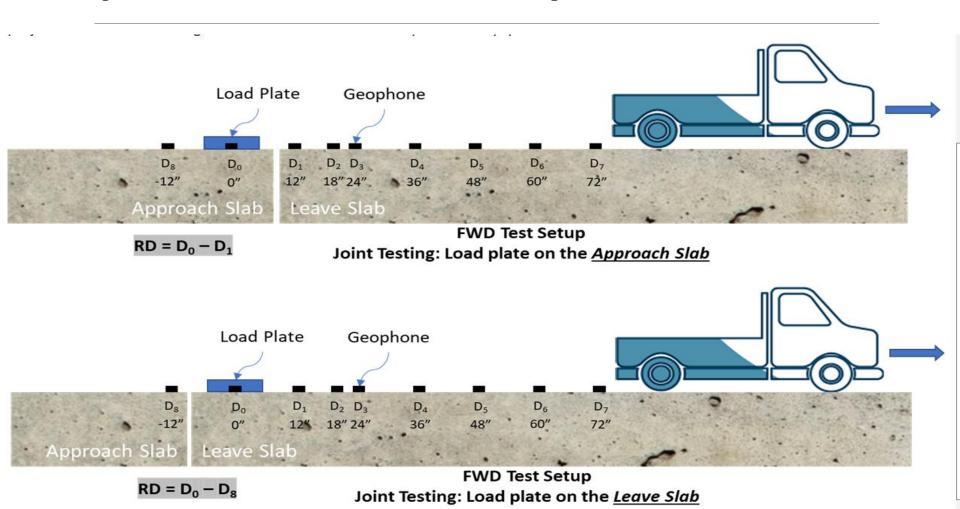
- Evaluate Load Transfer Effectiveness using Falling Weight Deflectometer (FWD)
- Within 7 to 28 days after installation
- ❖ NJDOT L-1 − DETERMINING LOAD TRANSFER EFFECTIVENESS OF JOINTED PRECAST CONCRETE PAVEMENT SLAB SYSTEMS

FULL DEPTH CONCRETE PAVEMENT REPAIR PRECAST:

JPrCP Acceptance Criteria:

Average Relative Deflection (RD) of approach and leave side of the joints should be ≤ 3.5 mils.

FWD Test Set Up: This picture from in Courtesy of AID



FULL DEPTH CONCRETE PAVEMENT REPAIR PRECAST:

Corrective action is required if both criteria are satisfied:

- Relative Deflection (RD) > 3.5 mils
- Individual deflections of any sensors > 10 mils.

HMA LONGITUDINAL JOINT REPAIR



HMA LONGITUDINAL JOINT REPAIR: Pay Unit

***** Measurement and Payment:

HMA LONGITUDINAL JOINT REPAIR - SQUARE YARD



HIGH FRICTION SURFACE TREATMENT (HFST)



HIGH FRICTION SURFACE TREATMENT:

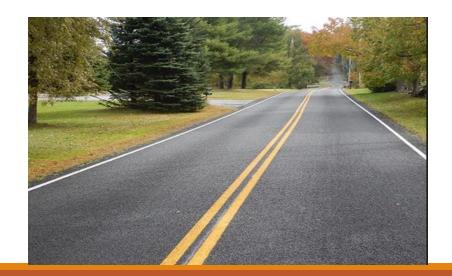
❖ NJDOT TEST METHOD

NJDOT S-4 – DETERMINING SKID RESISTANCE OF PAVED SURFACES





CHIP SEAL



CHIP SEAL: New Item

424120M - CHIP SEAL PG 94-22









na Sweeping

Binder Application

Spreading the chips

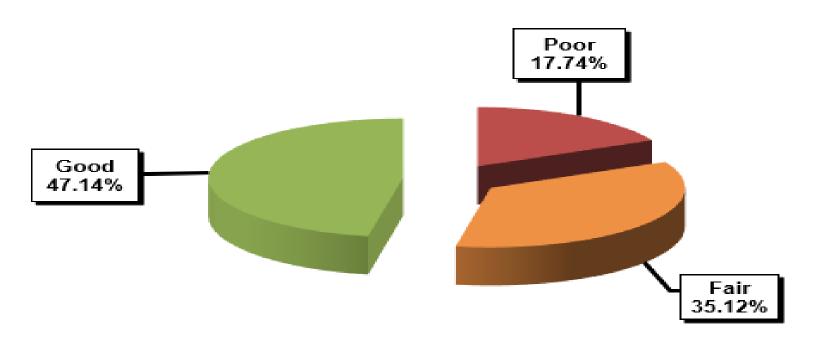


CONCLUSION:

- Quality Control-by Contractor.
- Quality Assurance- by Department
- Make sure taxpayer money is used for QUALITY construction work.

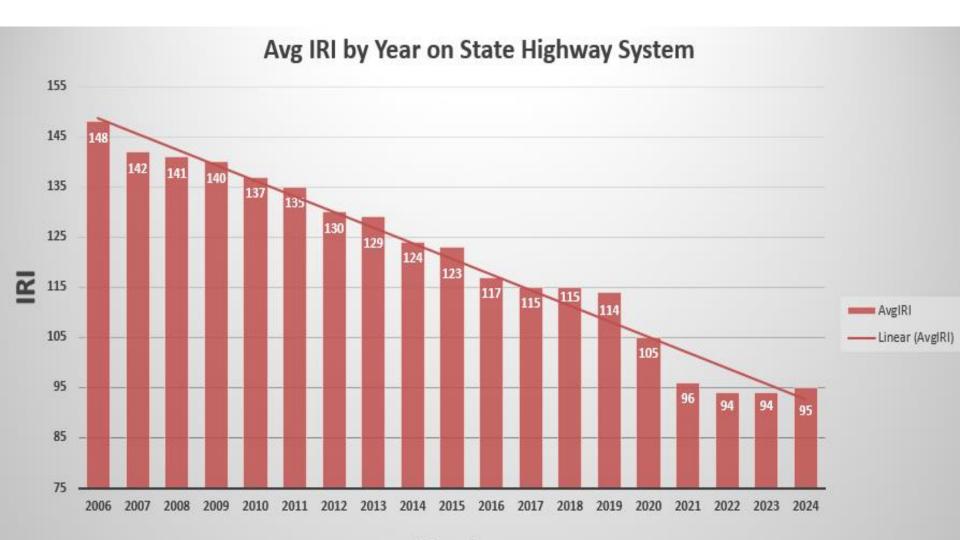
CONCLUSION:

Current Functional Adequacy of NJ State Highway System (Based on Roughness & Distress)



Source: NJDOT Pavement Management System, 2024 Data

CONCLUSION:



Collection Year

Source: NJDOT Pavement Management System

THANK YOU

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