



Description

- There are 3,715 centerline miles of state-maintained routes and roads in Connecticut, 1,406 of which are on the National Highway System (NHS), including 346 Interstate miles.
- There are another 17,454 centerline miles of town maintained roads, 56 of which are on the NHS.
- 70.7% of CTDOT maintained centerline miles are flexible (asphalt) pavements, 29.0% are composite pavements (asphalt over concrete), and 0.3% are rigid (concrete) pavements.

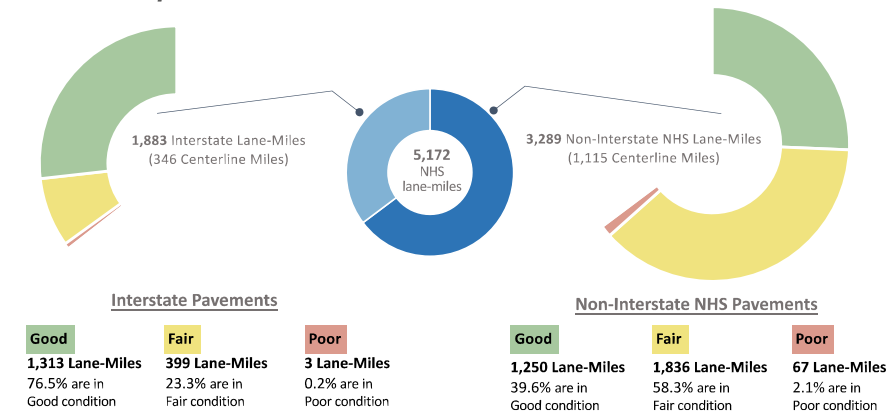
State of Good Repair (SOGR)

A pavement section for which the Pavement Condition Index (PCI) is 6 or greater is classified as being in a State of Good Repair (SOGR). The PCI is based on cracking, rutting, drainage disintegration, and ride. FHWA uses different condition measures for NHS pavements.

Pavement Age

The average Connecticut NHS pavement structure was constructed 47.6 years ago, and the average surface age is 7.3 years old, based on lane miles.

NHS Roadways Inventory and Condition Federal Requirements

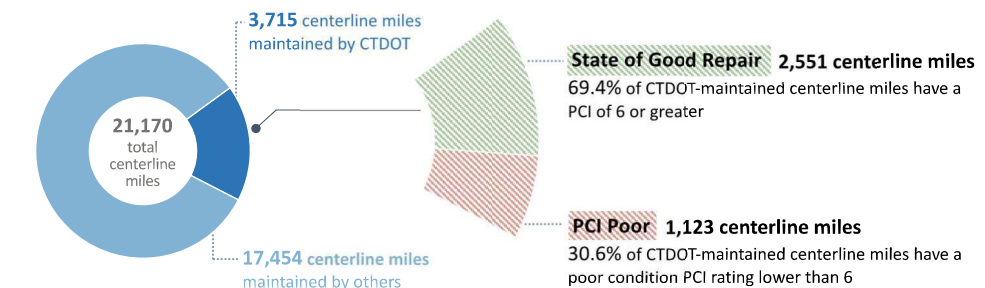


Note on Interstate: Total condition lane miles of 1,715 excludes 131 lane miles coded as bridge and 37 lane miles missing/invalid.
Note on Non-Interstate NHS: Total condition lane miles of 3,153 excludes 81 lane miles coded as bridge and 55 lane mile missing/invalid. Totals include 127 NHS lane miles which are locally maintained, 3.5% in good condition, 91.7% in fair condition and 4.8% in poor condition.

Based on 2020 HPMS pavement condition data submitted to FHWA June 14, 2021

Good-Fair-Poor defined by MAP-21/FAST Act

CTDOT-Maintained Roadways Inventory and Condition State Goals

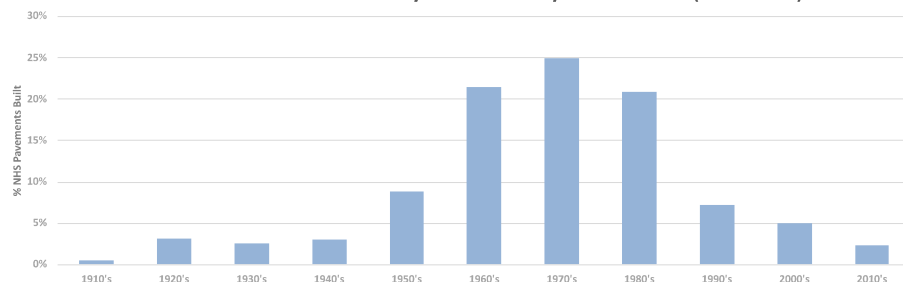


Based on CTDOT 1/11/22 Snapshot

SOGR defined by CTDOT

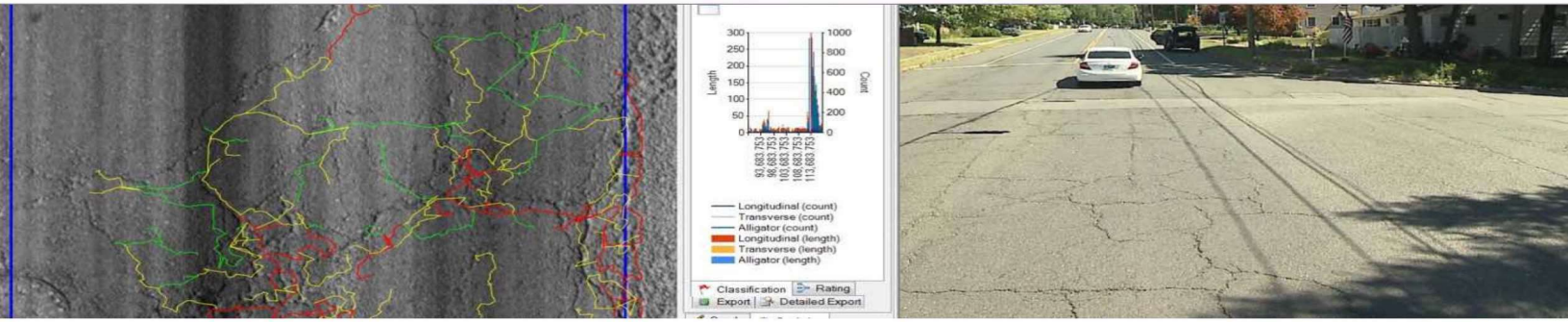
History

Distribution of CT NHS Roadway Pavements By Decade Built (lane miles)



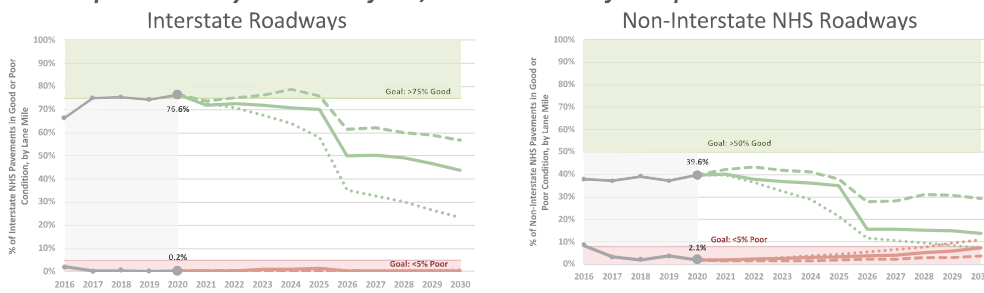


Connecticut Transportation Asset Management Plan Pavement



NHS Pavement Performance Projections

Federal Requirements by lane miles for 4,868 lane miles of NHS pavement



% Good (by lane miles)

Preferred Funding (\$375M) Current Funding (\$119M) No Funding (\$0M) Actual Conditions

% Poor (by lane miles)

Preferred Funding (\$375M) Current Funding (\$119M) No Funding (\$0M) Actual Conditions

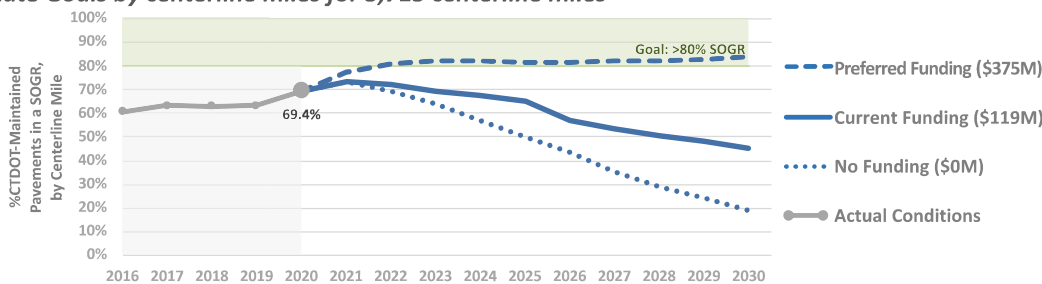
Based on funding as of 12/31/21

Performance Projections at Current Funding Level (\$119M Budget)

End of Year	2021	2022	2023	2024	2025	Goal
Interstate Good	71.8%	72.5%	72.0%	71.0%	70.0%	75.0%
Interstate Poor	0.2%	0.2%	1.0%	1.1%	1.3%	<5.0%
Non-Int NHS Good	40.2%	38.1%	37.0%	36.0%	35.0%	50.0%
Non-Int NHS Poor	2.0%	2.2%	2.7%	3.1%	3.5%	<8.0%

CTDOT-Maintained Pavement Performance Projections

State Goals by centerline miles for 3,715 centerline miles



Based on funding as of 12/31/21

Performance Projections at Current Funding Level (\$119M Budget)

End of Year	2021	2022	2023	2024	2025	Goal
SOGR	73.5%	72.0%	69.5%	67.3%	65.0%	80.0%

NOTE: "Current Funding" shown in the graphs is limited to funding programed to address State of Good Repair. Projected performance is expected to be greater due to asset improvements funded through CTDOT's Capital Program which are not captured. The Department will soon be able to capture this funding through a project asset data system in development.

Performance Projections

The charts on the left depicts pavement condition for various funding scenarios developed through an analysis program using CTDOT pavement deterioration curves projected from 2020 pavement condition data.

Asset Valuation

\$10,838,143,000

Asset value is estimated using the replacement value. For pavements, replacement value is the product of pavement area (SY) and unit construction cost. For 3,715 centerline miles of pavement: 99.1 million SY * \$109/SY = \$10.84 Billion

Measures and Goals

CTDOT has set the following pavement condition goals:

Federal Requirements:

- Interstate: 75% good condition and less than 5% poor condition (Federal minimum is less than 5% poor)
- Non-Interstate: 50% good condition and less than 8% poor condition

State Goal:

- 80% or more of State-maintained pavements in a SOGR (State)