

Connecticut Photolog Data Download Fact Sheet

Welcome to Connecticut Photolog! In an effort to increase transparency and provide data to the public, we have established this data download page. More data may become available as space and demand permit. We would be happy to accept feedback or questions- please email Mike Longo at Michael.Longo@ct.gov

Current data selections include raw data text files and Google earth image files for roughness data. Roughness, also called IRI (International Roughness Index), is a measurement of the quality of pavement surfaces. Roughness values are measured as the number of vertical bump inches per miles. The lower the IRI, the smoother the ride. The sheet below explains IRI further and shows the performance of highway ride quality throughout Connecticut in the fourth quarter of 2012.

What are KML files? Keyhole Markup Language (KML) is an [XML](#) notation for expressing geographic annotation and visualization within Internet-based, two-dimensional maps and three-dimensional Earth browsers. The KML file specifies a set of features (place marks, images, polygons, 3D models, textual descriptions, etc.) for display in Here Maps, Google Earth, Maps and Mobile, or any other geospatial software implementing the KML encoding. (Wikipedia)

In order to view the KML files, you can use the free Google Earth application. Download Google Earth [here](#)

Each downloadable folder contains the following files:

- A KML for each direction of a route, such as North, South, East or West. This file will display the IRI data as a color coded line.
- A KML for each direction of a route, which will display the IRI as points on the route, as well as a numerical label for each point.
- A text file for each direction of a route. This file can be easily converted to different formats and used in a variety of applications, including Excel or Access. We provide raw data so that end users can manipulate it freely.

Highway Ride Quality

Mode: Highway
 Asset/Topic: Pavement
 Focus: Condition

Strategic Objective (s):

- Provide Safe & Secure Travel
- Reduce Congestion & Maximize Throughput
- Preserve & Maintain our Transportation Infrastructure
- Provide Mobility Choice, Connectivity & Accessibility
- Improve Efficiency & Reliability
- Preserve & Protect the Environment
- Support Economic Growth
- Strive for Organizational Excellence

Purpose & Description :

This measure tracks the roughness (complement of smoothness) of pavements on Connecticut's state-maintained roads. The general public's perception of a good road is one that provides a smooth ride. Roughness is an important pavement characteristic because it affects not only ride quality but also vehicle delay costs, fuel consumption and both vehicle and roadway maintenance costs. The Department uses a worldwide standard for measuring pavement smoothness called the International Roughness Index, or IRI. This index provides a consistent and comparable measure of pavement in terms of the number of vertical bump inches per mile driven. IRI is reported as inches per mile. The lower the IRI number, the smoother the ride. The Federal Highway Administration (FHWA) requires that all states measure and submit IRI data annually for the National Highway System (NHS). The NHS in Connecticut includes approximately 963 miles of interstate and other routes identified as having strategic defense characteristics, as well as routes providing access to major ports, airports, public transportation and intermodal facilities.

Data Statement:

Data for this measure becomes available for reporting annually in June for the previous Calendar Year. The latest data set used for this posting is through 12/31/2011.

Source:

Bureau of Engineering and Construction
 Mr. Edgardo Block, P.E.

Performance Measure(s)	Target Value:	Current Value: (CY 2011)
Percent of NHS Roads with Good Ride Quality	Increase Percent Good	48.7%
Percent of Entire Network with Good Ride Quality	Increase Percent Good	20.5%

Figure 1 shows that ride quality on Connecticut's NHS routes has gradually been improving. The percentage of NHS Routes rated good has increased from 44.5 percent in 2006 to 48.7 percent in 2011, while the percentage of roads rated poor has remained relatively stable over the same period. The goal is to continue to increase the percent of roads in good condition by implementing pavement preservation principles and fully utilizing CTDOT's Pavement Management System.

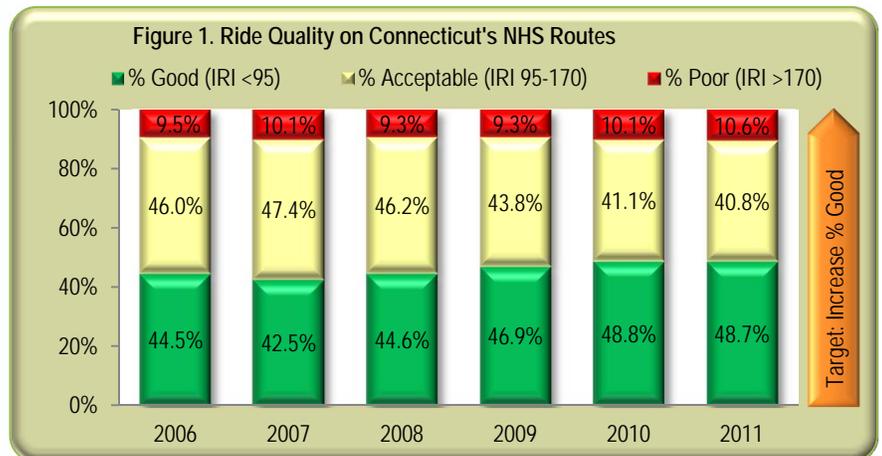


Figure 2 (Below) shows the ride quality of Connecticut's entire state maintained roadway network (approx. 3,744 miles) for calendar years 2006 through 2011. The entire roadway network includes both NHS and non-NHS roadways that are the maintenance responsibility of the Connecticut DOT. As shown in this graph, when the non-NHS roadways are factored in, the percent of the roads with good ride quality is reduced significantly

