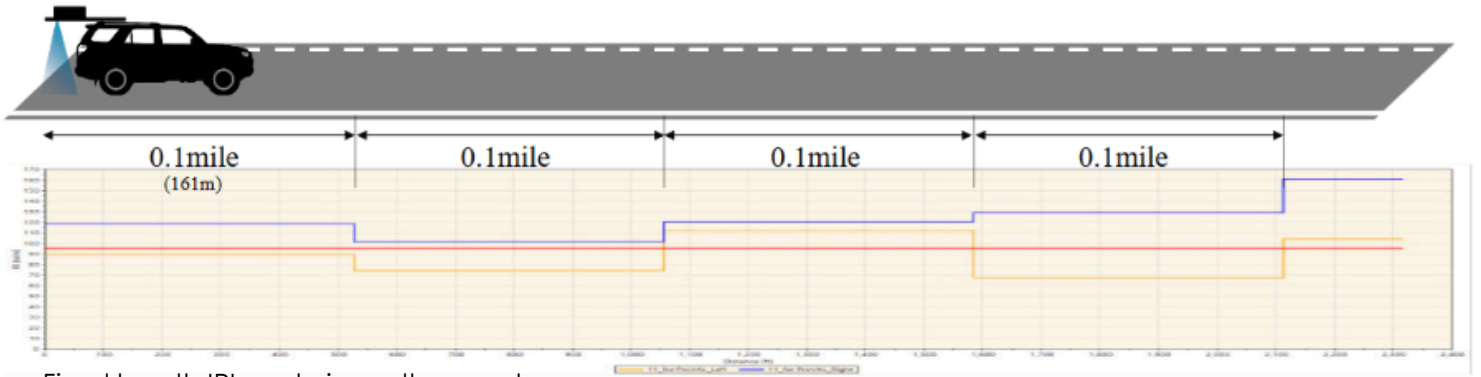


Pavement Condition Survey

Ohio



Fixed length IRI analysis result example

NEXCO-West USA conducted a pavement condition survey in Ohio to evaluate the ride quality. The survey covered approximately 55.8 km (34.6 miles) of highways and urban roads, including interstate highways, arterial roads, and local streets.

Data collection was performed using the 3D laser profiler “IrisPRO,” which continuously captured longitudinal profiles at left and right wheel paths, transverse road profiles, GPS location data, and forward roadway images while traveling at normal traffic speed.

The collected pavement data was analyzed to calculate International Roughness Index (IRI) values for both fixed-interval and localized roughness evaluations.



0.1-Mile Fixed-Length IRI Evaluation Results (Threshold: 170 in/mi)

Project Details

- Client : [withheld]
- Target Lengths: 34.6 lane-mile
- Reporting Metric: Ride Quality (Internal Roughness Index)
- Used Technology: Pavement Transverse/Longitudinal Profiler P
- Project Period: February - March, 2026

Impression

By combining fixed-interval IRI evaluation with localized roughness analysis, NEXCO-West USA provided a comprehensive understanding of pavement ride quality and localized distress conditions. The results allowed the client to efficiently identify maintenance priority sections.

In addition to the IRI analysis presented in this project, the collected 3D pavement imagery also supports future PCI (Pavement Condition Index) evaluation and advanced pavement distress analysis.