

NC Pavement Condition (Combined Data), Continuous Capture - NC Department of Transportation

SDE Geodatabase Feature Class



Tags

Line, NCDOT, Pavement, Pavement Condition, Pavement Management, Asphalt, Concrete, Transportation, Highway, Roads, Routes, State Highway Network, Transportation Planning, Location

Summary

Line layer containing Pavement Condition Survey attributes dynamically attached to state maintained roads.

Description

The NCDOT Pavement Management Unit under Division of Highways, Operations Program Management maintains the authoritative pavement data in the NCDOT Pavement Management System.

The Pavement Management Systems manages pavement condition data, maintains a history of road construction and maintenance treatments, and conducts pavement analyses which assist the department in optimizing limited funding resources. Also responsible for reporting to the federal Highway Performance Monitoring System (HPMS).

The main goal of the Pavement Condition Survey (PCS) is to assist in establishing a uniform level-of-service for maintenance across the state and to help maximize the benefit of all dollars spent on roads in the state.

Other goals of the PCS include:

- A ranking system to prioritize maintenance needs.
- A summary of the overall condition of the pavements in any area of the state.
- A uniform rating system for each Division.
- A means to monitor the condition of any section of pavement.
- A historical record of pavement performance and maintenance practices.

Information from that Pavement Management Systems is consumed through an automated integration with the North Carolina Department of Information-Transportation (NCDIT-T) GIS Unit database systems. That integration allows for the translation of the tabular information into a spatial representation for distribution in the form of geospatial services in Go! NC.

This dataset is designed to give a linear representation of the attribute information collected in the Pavement Condition Survey database. This database consists of the Asphalt table and the Jointed Concrete Pavement (JCP) tables, with IRI (International Roughness Index) data attached. These attributes were dynamically matched to the NCDIT-T GIS Unit's Linear Reference System Network of routes to produce this layer.

Credits

The North Carolina Department of Transportation, Division of Highways, Pavement Management Unit.

Support and maintenance of the enterprise spatial database where this data resides is handled by the North Carolina Department of Information Technology-Transportation, GIS Unit.

Use limitations

The North Carolina Department of Transportation shall not be held liable for any errors in this data. This includes errors of omission, commission, errors concerning the content of the data, and relative and positional

accuracy of the data. This data cannot be construed to be a legal document. Primary sources from which this data was compiled must be consulted for verification of information contained in this data.

Extent

West -84.321586 **East** -75.461696
North 36.587392 **South** 33.865941

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:50,000

ArcGIS Metadata ▶

Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE location, planningCadastre, transportation

CONTENT TYPE Geographic Services
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS North Carolina.

THESAURUS ▶

TITLE User
CREATION DATE 2012-11-09 00:00:00
PUBLICATION DATE 2017-04-14 00:00:00

Hide Thesaurus ▲

THEME KEYWORDS Line, NCDOT, Pavement, Pavement Condition, Pavement Management, Transportation, Highway, Roads, Transportation Planning, Location

THESAURUS ▶

TITLE User
CREATION DATE 2012-11-09 00:00:00
PUBLICATION DATE 2017-04-14 00:00:00

Hide Thesaurus ▲

Hide Topics and Keywords ▲

Citation ▶

TITLE NC Pavement Condition (Combined Data), Continuous Capture - NC Department of Transportation
ALTERNATE TITLES Pavement Condition - Combined Data (Network Master)
CREATION DATE 2012-11-09 00:00:00
PUBLICATION DATE 2017-04-14 00:00:00

PRESENTATION FORMATS * digital map
FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

Hide Citation ▲

Citation Contacts ▶

RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit
CONTACT'S POSITION GIS Data and Services Consultant
CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

ADDRESS

TYPE physical
DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive
CITY Raleigh
ADMINISTRATIVE AREA NC
POSTAL CODE 27610
COUNTRY US
E-MAIL ADDRESS gishelp@ncdot.gov

HOURS OF SERVICE

9:00am - 5:00pm Monday - Friday

CONTACT INSTRUCTIONS

Please send an email with any issues, questions, or comments regarding the Pavement Conditions Geodatabase. If it is an immediate need, indicate as such in the subject line in an email.

[Hide Contact information ▲](#)

RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit
CONTACT'S POSITION GIS Data and Services Consultant
CONTACT'S ROLE resource provider

CONTACT INFORMATION ►

ADDRESS

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DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive
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[Hide Contact information ▲](#)

RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Transportation, Pavement Management Unit
CONTACT'S POSITION Pavement Management Engineer
CONTACT'S ROLE originator

CONTACT INFORMATION ►

PHONE

VOICE 919-835-8212

ADDRESS

TYPE physical
DELIVERY POINT 4809 Beryl Road
CITY Raleigh
ADMINISTRATIVE AREA NC
POSTAL CODE 27606
COUNTRY US
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HOURS OF SERVICE
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CONTACT INSTRUCTIONS

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[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

Resource Details ►

DATASET LANGUAGES * English (UNITED STATES)
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS on-going
SPATIAL REPRESENTATION TYPE * vector

PROCESSING ENVIRONMENT Esri ArcGIS 12.9.4.32739

CREDITS

The North Carolina Department of Transportation, Division of Highways, Pavement Management Unit.

Support and maintenance of the enterprise spatial database where this data resides is handled by the North Carolina Department of Information Technology-Transportation, GIS Unit.

[Hide Resource Details ▲](#)

Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching
* WEST LONGITUDE -84.321586
* EAST LONGITUDE -75.461696
* NORTH LATITUDE 36.587392
* SOUTH LATITUDE 33.865941
* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE -84.321586
* EAST LONGITUDE -75.461696
* SOUTH LATITUDE 33.865941
* NORTH LATITUDE 36.587392
* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit
CONTACT'S POSITION GIS Data and Services Consultant
CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY continual

SCOPE OF THE UPDATES dataset

OTHER MAINTENANCE REQUIREMENTS

The North Carolina Department of Transportation, Division of Highways, Pavement Management Unit maintenance is as needed and not regularly scheduled.

Support and maintenance of the enterprise spatial database where this data resides is handled by the North Carolina Department of Information Technology-Transportation, GIS Unit.

MAINTENANCE CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit
CONTACT'S POSITION GIS Data and Services Consultant
CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

ADDRESS

TYPE physical
DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive
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[Hide Contact information ▲](#)

[Hide Resource Maintenance ▲](#)

Resource Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

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LEGAL CONSTRAINTS

LIMITATIONS OF USE

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SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

LIMITATIONS OF USE

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[Hide Resource Constraints ▲](#)

Spatial Reference ►

ARCGIS COORDINATE SYSTEM

* TYPE Geographic

* GEOGRAPHIC COORDINATE REFERENCE GCS_WGS_1984

* COORDINATE REFERENCE DETAILS

GEOGRAPHIC COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 4326

X ORIGIN -400

Y ORIGIN -400

XY SCALE 999999999.99999988

Z ORIGIN -100000

Z SCALE 10000

M ORIGIN -100000

M SCALE 10000

XY TOLERANCE 8.983152841195215e-09

Z TOLERANCE 0.001

M TOLERANCE 0.001

HIGH PRECISION true

LEFT LONGITUDE -180

LATEST WELL-KNOWN IDENTIFIER 4326

WELL-KNOWN TEXT GEOGCS ["GCS_WGS_1984", DATUM ["D_WGS_1984", SPHEROID["WGS_1984",6378137.0,298.257223563]], PRIMEM["Greenwich",0.0], UNIT["Degree",0.0174532925199433], AUTHORITY["EPSG",4326]]

REFERENCE SYSTEM IDENTIFIER

- * VALUE 4326
- * CODESPACE EPSG
- * VERSION 6.14(3.0.1)

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ►

- * LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

- FEATURE CLASS NAME PmuNetworkMaster
- * OBJECT TYPE composite
- * OBJECT COUNT 106275

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

- FEATURE CLASS NAME PmuNetworkMaster
- * FEATURE TYPE Simple
- * GEOMETRY TYPE Polyline
- * HAS TOPOLOGY FALSE
- * FEATURE COUNT 106275
- * SPATIAL INDEX TRUE
- * LINEAR REFERENCING FALSE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

Data Quality ►

SCOPE OF QUALITY INFORMATION ►

- RESOURCE LEVEL dataset

[Hide Scope of quality information ▲](#)

DATA QUALITY REPORT - COMPLETENESS COMMISSION ►

MEASURE DESCRIPTION

Data quality assessments are performed by the NC Department of Transportation's Pavement Management Unit on the source data at their discretion. No additional quality assessments are made on the GIS product.

CONFORMANCE TEST RESULTS

- TEST PASSED Yes
- RESULT EXPLANATION Pass

PRODUCT SPECIFICATION ▶

TITLE NCDOT Geospatial Data Specifications
CREATION DATE 2012-11-09 00:00:00
PUBLICATION DATE 2017-04-14 00:00:00

[Hide Product specification ▲](#)

[Hide Data quality report - Completeness commission ▲](#)

[Hide Data Quality ▲](#)

Lineage ▶

LINEAGE STATEMENT

This dataset originated as attribute information collected in the Pavement Condition Survey database. This database consists of the Asphalt table and the Jointed Concrete Pavement (JCP) tables, with IRI (International Roughness Index) data attached. The NCDOT Pavement Management Unit under Division of Highways, Operations Program Management maintains the authoritative pavement data in the NCDOT Pavement Management System. Information from that Pavement Management Systems is consumed through an automated integration with the North Carolina Department of Information-Transportation (NCDIT-T) GIS Unit database systems. These Pavement Condition Survey database attributes were dynamically matched to the NCDIT-T GIS Unit's Linear Reference System Network of routes to produce this spatial, linear representation layer. This spatial representation is then distributed in the form of geospatial services in Go! NC (<https://ncdot.maps.arcgis.com/home/index.html>).

PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2012-11-09 00:00:00

DESCRIPTION

The NCDOT Pavement Management Unit under Operations Program Management maintains the authoritative pavement data in the Pavement Management System.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation, Pavement Management Unit
CONTACT'S POSITION Pavement Management Engineer
CONTACT'S ROLE originator

CONTACT INFORMATION ▶

PHONE

VOICE 919-835-8212

ADDRESS

TYPE physical

DELIVERY POINT 4809 Beryl Road

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27606

COUNTRY US

E-MAIL ADDRESS crcoombes@ncdot.gov

HOURS OF SERVICE

9:00am - 5:00pm Monday - Friday

CONTACT INSTRUCTIONS

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2017-04-14 00:00:00

DESCRIPTION

Information from the Pavement Management System is consumed through an automated integration with the NCDIT-T GIS Unit database systems. That integration allows for the translation of the tabular information into a spatial representation for distribution in the form of geospatial services in Go!NC.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit

CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610

COUNTRY US

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

[Hide Lineage ▲](#)

Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit

CONTACT'S POSITION GIS Data and Services Consultant

CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

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[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

NAME SDE Geodatabase Feature Class

VERSION ArcGIS Pro 2.9.5

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT [PmuNetworkMaster](#) ►

* TYPE Feature Class

* ROW COUNT 106275

DEFINITION

Pavement Condition - Combined Data (Network Master)

DEFINITION SOURCE

North Carolina Department of Transportation, Pavement Management Unit

FIELD [OBJECTID](#) ►

* ALIAS OBJECTID

* DATA TYPE OID

* WIDTH 4

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Internal feature number.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

[Hide Field OBJECTID ▲](#)

FIELD Shape ▶

- * ALIAS Shape
- * DATA TYPE Geometry
- * WIDTH 0
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Feature geometry.

- * DESCRIPTION SOURCE
Esri

- * DESCRIPTION OF VALUES
Coordinates defining the features.

Hide Field Shape ▲

FIELD ROUTEID ▶

- * ALIAS ROUTEID
- * DATA TYPE String
- * WIDTH 11
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
10-digit Route Number. Route code follows the naming convention NCDOT 11-digit Route Number, except two-digit county codes (00 for Alamance County, 99 for Yancey County) are used instead of the 3-digit SAP County Codes (00 for Alamance County, 99 for Yancey County). See <https://xfer.services.ncdot.gov/gisdot/DistDOTData/Guide%20to%20the%20NCDOT%20Eleven-Digit%20Route%20Number%20-%20Rome%20Implementation.pdf>.

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES
Values will vary.

Hide Field ROUTEID ▲

FIELD COUNTY ▶

- * ALIAS COUNTY
- * DATA TYPE String
- * WIDTH 50
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
The county three digit code followed by the county name.

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES

Values vary.

Hide Field COUNTY ▲

FIELD ROUTE ►

- * ALIAS ROUTE
- * DATA TYPE String
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

DESCRIPTION SOURCE
NCDOT

FIELD DESCRIPTION

8-digit code that describes the route. Follows the naming convention of the first 8 digits of NCDOT's 11-digit Route Number.
See <https://xfer.services.ncdot.gov/gisdot/DistDOTData/Guide%20to%20the%20NCDOT%20Eleven-Digit%20Route%20Number%20-%20Rome%20Implementation.pdf>.

DESCRIPTION OF VALUES

Values vary.

Hide Field ROUTE ▲

FIELD DIVISION ►

- * ALIAS DIVISION
- DATA TYPE Small Integer
- * WIDTH 2
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION
NCDOT Division Number.

DESCRIPTION SOURCE
NCDOT

RANGE OF VALUES

MINIMUM VALUE 1
MAXIMUM VALUE 14

Hide Field DIVISION ▲

FIELD BEG_MP ►

- * ALIAS BEG_MP
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Indicates the milepost of the beginning point of the route section, measured to the nearest 0.001 mile.

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES
Values vary.

Hide Field BEG_MP ▲

FIELD END_MP ►

- * ALIAS END_MP
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Indicates the milepost of the ending point of the route section, measured to the nearest 0.001 mile.

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES
Values vary.

Hide Field END_MP ▲

FIELD FROM_DESC ►

- * ALIAS FROM_DESC
- * DATA TYPE String
- * WIDTH 100
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Brief description of the beginning point of a route section: an intersection of a state road, bridge, city street or county line. When none of these are possible, such as in the case of a change in Pavement Type, then one of these descriptors may be used:

NEW PVMT – New resurfacing of the same Pavement Type.

PVMT CHG – Change in Pavement Type.

WDTH CHG – Change in Pavement Width.

BGN PVMT – Route transition from unpaved to paved.

END PVMT – Route transition from paved to unpaved.

DEAD END – End of the road.

CUL-DE-SAC – Route ends in a cul-de-sac.

BGN MAINT – State maintenance begins.

END MAINT – State maintenance ends.

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES
Values vary.

Hide Field FROM_DESC ▲

FIELD TO_DESC ►

- * ALIAS TO_DESC
- * DATA TYPE String
- * WIDTH 100
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Brief description of the end point of a route section: an intersection of a state road, bridge, city street or county line. When none of these are possible, such as in the case of a change in Pavement Type, then one of these descriptors may be used:

NEW PVMT – New resurfacing of the same Pavement Type.

PVMT CHG – Change in Pavement Type.

WDTH CHG – Change in Pavement Width.

BGN PVMT – Route transition from unpaved to paved.

END PVMT – Route transition from paved to unpaved.

DEAD END – End of the road.

CUL-DE-SAC – Route ends in a cul-de-sac.

BGN MAINT – State maintenance begins.

END MAINT – State maintenance ends.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

Hide Field TO_DESC ▲

FIELD NC_SYSTEM_CODE ►

- * ALIAS NC_SYSTEM_CODE
- * DATA TYPE String
- * WIDTH 10
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

NCDOT System Code where the road is classified as Interstate, Primary, or Secondary.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE Interstate

DESCRIPTION Road is an interstate highway.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Primary

DESCRIPTION Road is a Primary route.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Secondary

DESCRIPTION Road is a Secondary route.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field NC_SYSTEM_CODE ▲

FIELD NETWORK_MASTER_YR ►

- * ALIAS NETWORK_MASTER_YR
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Data year of NCDOT's Linear Reference System (LRS) Network of routes used with integration of the Pavement Conditions Survey database.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

Hide Field NETWORK_MASTER_YR ▲

FIELD PCS_SRVY_YR ►

- * ALIAS PCS_SRVY_YR
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Year of Pavement Conditions Survey data integrated to NCDOT's Linear Reference System (LRS) Network of routes.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

Hide Field PCS_SRVY_YR ▲

FIELD RTG_NBR ►

- * ALIAS RTG_NBR
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

A composite index to measure the condition of pavement. It is a point-based matrix system that deducts points depending on the amount of distress on the roadway. The matrix starts with a value of 100 for a perfect roadway, and deductions are made based on the severity levels observed in the field.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES
Values vary.

Hide Field RTG_NBR ▲

FIELD **IRI_YEAR** ▶

- * ALIAS IRI_YEAR
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Year of International Roughness Index value.

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES
Values vary.

Hide Field IRI_YEAR ▲

FIELD **AVERAGE_IRI** ▶

- * ALIAS AVERAGE_IRI
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The average International Roughness Index (IRI) for the route. IRI is a standard to quantify road surface roughness. A continuous profile along the road is measured and analyzed to summarize qualities of pavement surface deviations that impact vehicle suspension movement. Reported in units of inches-per-mile, the IRI describes how much total vertical movement a standard passenger vehicle's body would experience if driven over a 1-mile segment of the subject pavement at 50 mph. IRI is useful for assessing overall pavement ride quality; a higher IRI value indicates a rougher road surface.

IRI categories are generally rated as follows:

Good: IRI less than 95 inches/mile

Fair: IRI between 95 and 170 inches/mile

Poor: IRI greater than 170 inches/mile

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES
Values vary.

Hide Field AVERAGE_IRI ▲

FIELD [AVERAGE_RUT_DEPTH](#) ▶

- * ALIAS AVERAGE_RUT_DEPTH
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Average rut depth in inches. Rutting is a surface depression in the wheel path of the pavement due to deformation in the asphalt layers and subgrade due to traffic load. In addition, rutting is often caused by inadequate compaction during construction or lateral movement in the mix during hot weather.

Rutting Severity Levels:

None: Rutting less than 1/4 inch deep.

Light: Rutting 1/4 to less than 1/2 inch deep.

Moderate: Rutting 1/2 to less than 1 inch deep.

Severe: Rutting 1 inch deep or greater.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

[Hide Field AVERAGE_RUT_DEPTH](#) ▲

FIELD [NUMBER_OF_LANES](#) ▶

- * ALIAS NUMBER_OF_LANES
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The number of through lanes and continuous center left-turn lanes. Does not include street parking.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

[Hide Field NUMBER_OF_LANES](#) ▲

FIELD [GFP_CODE](#) ▶

- * ALIAS GFP_CODE
- * DATA TYPE String
- * WIDTH 3
- * PRECISION 0
- * SCALE 0

DESCRIPTION SOURCE

NCDOT

FIELD DESCRIPTION

Pavement condition survey rating.

LIST OF VALUES

VALUE G
DESCRIPTION Good condition
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE F
DESCRIPTION Fair condition
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE P
DESCRIPTION Poor Condition
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field GFP_CODE ▲

FIELD SEC_WIDTH ►

- * ALIAS SEC_WIDTH
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Indicates the surface width of the entire section to the nearest whole foot from the edge of pavement to the edge of the pavement, including any paved shoulders. Short turning lanes or parking lanes that are less than 0.3 miles in length are not included.

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES
Values vary.

Hide Field SEC_WIDTH ▲

FIELD LENGTH ►

- * ALIAS LENGTH
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Length in miles of road segment. Each road segment is a feature record with attributes.

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES
Values vary.

Hide Field LENGTH ▲

FIELD CURB ►

- * ALIAS CURB

* DATA TYPE String

* WIDTH 1

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Indicates whether a route section has a curb & gutter.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE Y

DESCRIPTION Yes, a curb and gutter is present on both sides of the road for at least 0.3 miles.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE N

DESCRIPTION No, a curb and gutter is not present or is only on one side of the road.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field CURB ▲

FIELD [SUBDIVISION_RURAL_CODE ▶](#)

* ALIAS SUBDIVISION_RURAL_CODE

* DATA TYPE String

* WIDTH 11

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Indicates a route as either Rural, known as a "through road," or Subdivision, built for access to or within a housing development.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE Rural

DESCRIPTION Route is a through road.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Subdivision

DESCRIPTION Road built for access to or within a housing development.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field SUBDIVISION_RURAL_CODE ▲

FIELD [SHOULDER_TYPE_ID ▶](#)

* ALIAS SHOULDER_TYPE_ID

* DATA TYPE String

* WIDTH 100

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Shoulder Type ID of P (Paved), U (Unpaved), or C (Curb).

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE P

DESCRIPTION Paved shoulder continuous on each side of the road.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE U

DESCRIPTION Paved shoulder not continuous on each side of the road or unpaved.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE C

DESCRIPTION Road has a curb.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field SHOULDER_TYPE_ID ▲

FIELD SHOULDER_WIDTH ►

- * ALIAS SHOULDER_WIDTH
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Width of shoulder in feet.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

Hide Field SHOULDER_WIDTH ▲

FIELD YEAR_LAST_REHAB ►

- * ALIAS YEAR_LAST_REHAB
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Year of last rehabilitation performed on the road.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

Hide Field YEAR_LAST_REHAB ▲

FIELD LAST_REHAB_TYPE ►

- * ALIAS LAST_REHAB_TYPE
- * DATA TYPE String
- * WIDTH 100
- * PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Latest type of rehabilitation done to the road.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE AC Construction / Recon

DESCRIPTION Asphalt Cement Construction / Reconstruction. Reconstruction on existing alignment of an existing route where the old pavement structure is removed and replaced, and/or where additional continuous through lanes are added through widening, dualizing or the addition of continuous collector-distributor roads that provide by design and operation for through traffic movements.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE AC Major Rehabilitation

DESCRIPTION Asphalt Cement Major Rehabilitation. The intent of these projects is to rehabilitate the existing pavement structure through an engineered approach that considers the observed pavement distress, the in-place material, and roadway geometrics.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE AC Minor Rehabilitation

DESCRIPTION Asphalt Cement Minor Rehabilitation. The intent of these projects is to rehabilitate the existing pavement surface through an engineered approach that considers the observed pavement distress and in-place materials.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE AC Thin Overlay

DESCRIPTION Asphalt Cement Thin Overlay. The management section is a candidate for a 50mm – 60mm overlay and the overall pavement structure appears to be structurally adequate.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Bituminous Treatment

DESCRIPTION Bituminous Surface Treatment (BST). A thin surface treatment of liquid asphalt covered with an aggregate that has an applied thickness of about 0.5-inch or less. BSTs are normally applied to pavements with lower traffic volumes.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE CRC Construction / Recon

DESCRIPTION Continuously Reinforced Concrete pavement Construction / Reconstruction.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE JCP Construction / Recon

DESCRIPTION Joint Concrete Pavement Construction / Reconstruction.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Maintenance

DESCRIPTION General road maintenance rehabilitation.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field LAST_REHAB_TYPE ▲

FIELD PVMNT_AGE ►

* ALIAS PVMNT_AGE

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Age of road pavement in years.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

Hide Field PVMNT_AGE ▲

FIELD **LANE_MILES** ►

* ALIAS LANE_MILES

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

DESCRIPTION SOURCE

NCDOT

FIELD DESCRIPTION

The total amount of mileage covered by lanes belonging to the road segment. Lane miles are calculated by multiplying the centerline mileage of a road by the number of lanes it has.

DESCRIPTION OF VALUES

Values vary.

Hide Field LANE_MILES ▲

FIELD **SURFACE** ►

* ALIAS SURFACE

* DATA TYPE String

* WIDTH 9

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Pavement surface type.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE BST

DESCRIPTION Bituminous Surface Treatment

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE JCP

DESCRIPTION Jointed Concrete Pavement

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Plant_Mix

DESCRIPTION Plant Mix: A mixture of emulsified (or cutback) asphalt and unheated mineral aggregate prepared in a central mixing plant and spread and compacted with conventional paving equipment while the mixture is at or near ambient temperature.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field SURFACE ▲

FIELD CNTY_SCTN_NBR ►

- * ALIAS CNTY_SCTN_NBR
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The County Section ID number. Serves as a referenced index for roadways.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

Hide Field CNTY_SCTN_NBR ▲

FIELD PMS_BUDGET_GROUP_NAME ►

- * ALIAS PMS_BUDGET_GROUP_NAME
- * DATA TYPE String
- * WIDTH 100
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The budget group of the type of road pavement improvement treatment. Generally, for treating the pavements, its condition is checked and then a suitable treatment type according to the budget of the NCDOT is selected. The funds are divided accordingly to the systems and Divisions.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE Chip Seal

DESCRIPTION A chip seal is a two-step process which includes first an application of asphalt emulsion and then a layer of crushed rock to an existing asphalt pavement surface.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Interstate Maintenance

DESCRIPTION Interstate Maintenance

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Interstate Preservation

DESCRIPTION Interstate Preservation

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Reconstruction

DESCRIPTION Road is reconstructed.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Rehabilitation

DESCRIPTION Road Rehabilitation

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Resurfacing

DESCRIPTION Road Resurfacing

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Other Preservation

DESCRIPTION Budget Group for other road preservation measures.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field PMS_BUDGET_GROUP_NAME ▲

FIELD TREATMENT_COST ►

* ALIAS TREATMENT_COST

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Pavement improvement/maintenance treatment cost.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

Hide Field TREATMENT_COST ▲

FIELD PMS_TREATMENT_NAME ►

* ALIAS PMS_TREATMENT_NAME

* DATA TYPE String

* WIDTH 250

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Type of pavement improvement/maintenance treatment.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

Hide Field PMS_TREATMENT_NAME ▲

FIELD Shape_Length ►

* ALIAS Shape_Length

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Length of feature in internal units.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

[Hide Field Shape_Length ▲](#)

[Hide Details for object PmuNetworkMaster ▲](#)

[Hide Fields ▲](#)

Metadata Details ►

* METADATA LANGUAGE English (UNITED STATES)
METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA * dataset
SCOPE NAME * dataset

* LAST UPDATE 2023-07-19

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0
STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2023-07-19 11:43:30
LAST MODIFIED IN ARCGIS FOR THE ITEM 2023-07-19 11:53:21

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2023-07-19 11:53:21

[Hide Metadata Details ▲](#)

Metadata Contacts ►

METADATA CONTACT

ORGANIZATION'S NAME North Carolina Department of Information Technology -Transportation, GIS Unit
CONTACT'S POSITION GIS Data and Services Consultant
CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

ADDRESS

TYPE physical
DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive
CITY Raleigh
ADMINISTRATIVE AREA NC
POSTAL CODE 27610
COUNTRY US
E-MAIL ADDRESS gishelp@ncdot.gov

HOURS OF SERVICE

9:00am - 5:00pm Monday - Friday

CONTACT INSTRUCTIONS

Please send an email with any issues, questions, or comments regarding the Pavement Conditions Geodatabase. If it is an immediate need, indicate as such in the subject line in an email.

[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY as needed

SCOPE OF THE UPDATES dataset

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Metadata Constraints ►

CONSTRAINTS

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SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

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Thumbnail and Enclosures ►

THUMBNAIL

THUMBNAIL TYPE JPG

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