NC Asphalt Pavement Condition, Continuous Capture - NC Department of Transportation

SDE Geodatabase Feature Class

Tags

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

Summary

Line layer containing asphalt conditions dynamically attached to state maintained roads, represented as centerlines. The road rating is a composite index included as an attribute in the data set to measure the condition of pavement. It is a point-based matrix system that deducts points depending on the amount of distresses 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

The asphalt condition attributes are derived from the Pavement Condition Survey (PCS) that is dynamically matched to the NCDIT-T GIS Unit's Linear Reference System Network of routes.

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. The unit is 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 the Pavement Management System 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 -84.421538 **East** -75.418458
North 36.615219 **South** 33.751333

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, planning/Cadastre, 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, Asphalt, Transportation, Highway, Roads, Routes, State Highway Network, Transportation Planning, Location

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Hide Thesaurus ▲

Hide Topics and Keywords ▲

Citation ►

TITLE NC Asphalt Pavement Condition, Continuous Capture - NC Department of Transportation
ALTERNATE TITLES Asphalt Pavement Condition
CREATION DATE 2012-11-09 00:00:00
PUBLICATION DATE 2017-04-14 00:00:00

PRESENTATION FORMATS digital map

Hide Citation ▲

Citation Contacts ▶

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 ▶
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VOICE 919-835-8212

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TYPE physical
DELIVERY POINT 4809 Beryl Road
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HOURS OF SERVICE
9:00am - 5:00pm Monday - Friday

CONTACT INSTRUCTIONS
Please send an email with any issues, questions, or comments regarding the data. If it is an immediate need, please call the contact number or 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
TYPE physical
DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive
CITY Raleigh
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COUNTRY US
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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.

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Hide Resource Details ▲

Extents ►

EXTENT
GEOGRAPHIC EXTENT
BOUNDING RECTANGLE
EXTENT TYPE Extent used for searching
WEST LONGITUDE -84.421538
EAST LONGITUDE -75.418458
NORTH LATITUDE 36.615219
SOUTH LATITUDE 33.751333
EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM
* WEST LONGITUDE -84.321511
* EAST LONGITUDE -75.461601
* SOUTH LATITUDE 33.865960
* NORTH LATITUDE 36.587286
* 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 ►
ADDRESS
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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 ►
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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 0
Z SCALE 1
M ORIGIN 0
M SCALE 1
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 PmuAsphaltPavement
* OBJECT TYPE composite
* OBJECT COUNT 105198

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES ►
FEATURE CLASS NAME PmuAsphaltPavement
* FEATURE TYPE Simple
* GEOMETRY TYPE Polyline
* HAS TOPOLOGY FALSE
* FEATURE COUNT 105198
* 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 ►
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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
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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 distributor

CONTACT INFORMATION ►
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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 Distributor ▲

DISTRIBUTION FORMAT
NAME SDE Geodatabase Feature Class
VERSION ArcGIS Pro 2.9.5

Hide Distribution ▲

Fields ►

DETAILS FOR OBJECT PmuAsphaltPavement ►
* TYPE Feature Class
* ROW COUNT 105198
DEFINITION
Asphalt Pavement Condition

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 ROUTEID ►
* ALIAS ROUTEID
* DATA TYPE String
* WIDTH 49
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Ten digit route number. This follows the 11-digit route naming convention used by NCDOT with one exception: The last two digits follow the County ID scheme starting with "00" for Alamance and ""99" for Yancey.
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 vary.

Hide Field ROUTEID ▲

FIELD AMS_ROUTE_NAME ►
* ALIAS AMS_ROUTE_NAME
* DATA TYPE String
* WIDTH 51
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Asphalt Management System Route Name follows the 11-digit route naming convention used by NCDOT. Each digit has a different meaning. The last three digits of the route number are the SAP county code. The county code starts at 001 for Alamance County and ends with 100 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 vary.

Hide Field AMS_ROUTE_NAME ▲

FIELD ROUTE ►
* ALIAS ROUTE
* DATA TYPE String
* WIDTH 8
* PRECISION 0
* SCALE 0
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 SOURCE
NCDOT

DESCRIPTION OF VALUES
Values vary.

Hide Field ROUTE ▲

FIELD SAP_COUNTY ►
* ALIAS SAP_COUNTY
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
The SAP County code. Starts at 1 for Alamance County and 100 for Yancey County.
See https://slph.dph.ncdhhs.gov/doc/NorthCarolinaCountyCodes.pdf.

DESCRIPTION SOURCE
NCDOT

RANGE OF VALUES
MINIMUM VALUE 1
MAXIMUM VALUE 100

Hide Field SAP_COUNTY ▲

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 with asphalt pavement, 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 with asphalt pavement, 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 an asphalt section on the road: an intersection of a state road, bridge, city street or county line. An additional mileage value may be in the description to pinpoint the location.

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 an asphalt section on the road: an intersection of a state road, bridge, city street or county line. An additional mileage value may be in the description to pinpoint the location.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES
Values vary.

Hide Field TO_DESC ▲

FIELD CARDINAL_DIRECTION ►
* ALIAS CARDINAL_DIRECTION
* DATA TYPE String
* WIDTH 100
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
The cardinal direction (north, south, east, or west) of the route.

DESCRIPTION SOURCE
NCDOT

LIST OF VALUES
VALUE N
DESCRIPTION North
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE S
DESCRIPTION South
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE E
DESCRIPTION East
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE W
DESCRIPTION West
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field CARDINAL_DIRECTION ▲

FIELD NC_SYSTEM_CODE ►
* ALIAS NC_SYSTEM_CODE
* DATA TYPE String
* WIDTH 100
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
NCDOT System Code where the road is classified as an Interstate, US, NC, Secondary, or Non-system.

DESCRIPTION SOURCE
NCDOT

LIST OF VALUES
VALUE Interstate
DESCRIPTION Road is an Interstate Highway
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE US
DESCRIPTION Road is a US Route
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE NC
DESCRIPTION Road is an NC Route
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE SR
DESCRIPTION Road is a Secondary Route
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Non-system
DESCRIPTION Road is not in the NCDOT supported network of routes.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field NC_SYSTEM_CODE ▲

FIELD NC_TIER ►
* ALIAS NC_TIER
* DATA TYPE String
* WIDTH 50
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Transportation tier category the road provides, such as statewide, regional, or sub-regional.

DESCRIPTION SOURCE
NCDOT

LIST OF VALUES
VALUE Statewide
DESCRIPTION Carry passengers and freight between regions of the state as well as to and from neighboring states.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Regional
DESCRIPTION Provide travel within regions, access statewide corridors, and support moderate traffic volumes at moderate speeds.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Sub-regional
DESCRIPTION Minor collectors, local and/or secondary roads, provide travel between and within communities.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Non-System
DESCRIPTION Route is not in the NCDOT supported network or routes.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field NC_TIER ▲

FIELD SRVY_YR ►
* ALIAS SRVY_YR
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Asphalt pavement survey year.

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES
Values vary.

Hide Field 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 distresses 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 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 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 String
* WIDTH 384
* 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 PAVEMENT_TYPE ►
* ALIAS PAVEMENT_TYPE
* DATA TYPE String
* WIDTH 100
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Pavement type.

DESCRIPTION SOURCE
NCDOT

LIST OF VALUES
VALUE P
DESCRIPTION Plant Mix. A foundation course produced in an asphalt mixing plant, which consists of a mineral aggregate uniformly coated with asphalt cement or emulsified asphalt.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE S
DESCRIPTION Slurry. The slurry material consists of fine, crushed aggregate (rock), asphalt, and water that cures over a few hours in hot weather
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE B
DESCRIPTION BST - Bituminous Surface Treatment, a thin surface treatment of liquid asphalt covered with an aggregate that has an applied thickness of about 0.5-inch or less.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE O
DESCRIPTION Composite. A type of pavement that utilizes both asphalt and concrete
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field PAVEMENT_TYPE ▲

FIELD CURB ►
* ALIAS CURB
* DATA TYPE String
* WIDTH 1
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Indicates whether a route section has a curb and 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 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 PVD_SHLDR_COND_CD ►
* ALIAS PVD_SHLDR_COND_CD
* DATA TYPE String
* WIDTH 100
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Paved shoulder condition: High, Medium, or Low Severity.

DESCRIPTION SOURCE
NCDOT

LIST OF VALUES
VALUE H
DESCRIPTION High severity.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE M
DESCRIPTION Medium severity.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE L
DESCRIPTION Low severity.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE N
DESCRIPTION None.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field PVD_SHLDR_COND_CD ▲

FIELD SHLDR_RPR_PCT ►
* ALIAS SHLDR_RPR_PCT
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Paved shoulder repair percentage.

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES
Values vary.

Hide Field SHLDR_RPR_PCT ▲

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 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 ALGTR_NONE_PCT ►
* ALIAS ALGTR_NONE_PCT
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Percent where there is no alligator cracking. There is an insufficient amount of distress to meet Light severity.
Cracking in the wheel path creates a pattern resembling the scales of an alligator.

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES
Values vary.

Hide Field ALGTR_NONE_PCT ▲

FIELD ALGTR_LOW_PCT ►
* ALIAS ALGTR_LOW_PCT
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Percent where the alligator cracking is of low severity. Longitudinal disconnected hairline cracks about 1/8-inch-wide running parallel to each other; may only be a single crack in the wheel path of pavement but could also look like an alligator pattern.

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES
Values vary.

Hide Field ALGTR_LOW_PCT ▲

FIELD ALGTR_MDRT_PCT ►
* ALIAS ALGTR_MDRT_PCT
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Percent where the alligator cracking is of moderate severity. Longitudinal cracks in wheel path(s) of pavement forming an alligator pattern; cracks may be lightly spalled and are about 1/4 inch wide.

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES
Values vary

Hide Field ALGTR_MDRT_PCT ▲

FIELD ALGTR_HGH_PCT ►
* ALIAS ALGTR_HGH_PCT
* DATA TYPE Double

* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Percent where the alligator cracking is of high severity. Cracking has progressed so that pieces appear loose with severely spalled edges; cracks are about 3/8 to 1/2-inch-wide or greater; potholes may be present.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

Hide Field ALGTR_HGH_PCT ▲

FIELD TRNSVRS_CD ►

* ALIAS TRNSVRS_CD
* DATA TYPE String
* WIDTH 100
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Transverse cracking severity level. Transverse cracks are random cracks that run predominantly across the road (perpendicular to the pavement centerline), but not over the joints in an underlying jointed concrete pavement

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE L
DESCRIPTION Low Severity: A sealed crack in good condition such that the crack width cannot be determined or a closed (crack width <1/4”), unsealed crack.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE M
DESCRIPTION Moderate Severity: An open, unsealed crack between ¼” and ½” in width or any crack (sealed or unsealed) with adjacent transverse cracking within 5-10 feet.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE S
DESCRIPTION Severe/High Severity: An open, unsealed crack > ½” in width or Any crack (sealed or unsealed) with adjacent transverse cracking within 5 feet.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE N
DESCRIPTION No transvers cracking.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field TRNSVRS_CD ▲

FIELD RUT_CD ►

* ALIAS RUT_CD
* DATA TYPE String
* WIDTH 100
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Rutting severity level. Severity levels are defined by the average rut depths reported for each 0.1 mile segment. Rutting is the longitudinal surface depression in the wheel path. It may have associated

transverse displacement. Rutting is collected using laser sensors which provide a transverse profile of the pavement surface. A minimum of twelve points are required to calculate the rut depths.

DESCRIPTION SOURCE
NCDOT

LIST OF VALUES
VALUE L
DESCRIPTION Low Severity: Average rut depth is greater than or equal to 0.25 inches but less than 0.50 inches.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE M
DESCRIPTION Moderate Severity: Average rut depth is greater than or equal to 0.5 inches but less than 1.00 inches.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE S
DESCRIPTION Severe/High Severity: Average rut depth is greater than 1.0 inch.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE N
DESCRIPTION No Severity: The average rut depth is less than 0.25 inches.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field RUT_CD ▲

FIELD RVL_CD ►
* ALIAS RVL_CD
* DATA TYPE String
* WIDTH 100
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Raveling severity level. Raveling is the wearing away of the pavement surface caused by the dislodging of aggregate particles or loss of asphalt binder. Raveling is much more common on chip seal or slurry surfaces than on plant mix surfaces and is sometimes noted on open graded friction course or ultra-thin bonded wearing course surfaces. Raveling indicates either a hardening or poor application of asphalt binder.

DESCRIPTION SOURCE
NCDOT

LIST OF VALUES
VALUE L
DESCRIPTION Low Severity: Aggregate loss within the pavement lanes is not great; small amounts of stripping may be detected; aggregate has started to wear away.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE M
DESCRIPTION Moderate Severity: Some stripping evident; random stripping with small areas (less than one square foot) or strips of aggregate broken away.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE S
DESCRIPTION Severe/High Severity: Stripping very evident; aggregate accumulation may be a problem, particularly along the shoulders; large sections (greater than one square foot) of stripping with aggregate layer broken away.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE N
DESCRIPTION No raveling.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field RVL_CD ▲

FIELD OXDTN_CD ►
* ALIAS OXDTN_CD
* DATA TYPE String
* WIDTH 100
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Oxidation severity level. Oxidation is the hardening and aging of the asphalt binder, which causes it to become brittle, less elastic, and more likely to crack or fail. The surface binder wears away over time, exposing coarse aggregate and eventually resulting in pitting and aggregate loss. This distress is only applicable for Plant Mix and Composite pavement types.

DESCRIPTION SOURCE
NCDOT

LIST OF VALUES
VALUE S
DESCRIPTION Severe: Oxidation is present in the route section.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE N
DESCRIPTION None: Oxidation is not present in the route section.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field OXDTN_CD ▲

FIELD BLD_CD ►
* ALIAS BLD_CD
* DATA TYPE String
* WIDTH 100
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Bleeding severity level. Bleeding is the presence of excessive liquid bituminous material on the pavement surface. The surface may be shiny or glass-like and reflective. It may also be tacky to the touch, especially in warm weather. Bleeding is usually found in the wheel paths.

DESCRIPTION SOURCE
NCDOT

LIST OF VALUES
VALUE L
DESCRIPTION Low Severity: Pavement surface that is discolored relative to the remainder of the surface due to excessive liquid asphalt.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE M
DESCRIPTION Moderate Severity: Bleeding condition is present on 26 to 50% of the section.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE S
DESCRIPTION Severe/High Severity: Excessive liquid asphalt gives the pavement surface a shiny appearance; tire marks may be evident in warm weather.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE N
DESCRIPTION None: Insufficient amount of distress to meet Light severity.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field BLD_CD ▲

FIELD PTCH_CD ►
* ALIAS PTCH_CD
* DATA TYPE String
* WIDTH 100
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Patching severity level. Patching is defined as any surface area of the existing pavement that indicates some maintenance repair has taken place. Patched areas can include Plant Mix or BST skin patches, edges, overlays, or full-depth patches. They may be in spot locations, along one or both edges, in the wheel paths, across the entire surface for short distances, or any combination.

DESCRIPTION SOURCE
NCDOT

LIST OF VALUES
VALUE L
DESCRIPTION Low Severity: Patching is present on 6 to 15% of the route section.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE M
DESCRIPTION Moderate Severity: Patching is present on 16 to 30% of the route section.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE S
DESCRIPTION Severe/High Severity: Patching is present on more than 30% of the route section.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE N
DESCRIPTION None: Patching is present on less than 6% of the route section.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field PTCH_CD ▲

FIELD RIDE_CD ►
* ALIAS RIDE_CD
* DATA TYPE String
* WIDTH 100
* PRECISION 0
* SCALE 0

DESCRIPTION SOURCE
NCDOT

FIELD DESCRIPTION
Ride quality severity level. Ride Quality evaluates how smooth or rough a road feels when driven at the posted speed. Therefore, the distress rating should most closely reflect the general public's perception of how well a road holds up.

LIST OF VALUES
VALUE L
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT
DESCRIPTION Light Severity: Isolated cases of bumps and dips comprising up to 1/4 of route section; the posted speed limit can be safely maintained.

VALUE M
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT
DESCRIPTION Moderate Severity: Bumps, dips, rises, and ruts comprising 1/4 to 1/2 of route section; pavement may be broken, cracked, and uneven; slight difficulty maintaining the posted speed limit.

VALUE S
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT
DESCRIPTION Severe: Bumps, dips, rises, and ruts comprise more than 1/2 of the route section; significant, frequent pavement failures and rough texture may be present; the rider is frequently jostled; the posted speed limit cannot be safely maintained.

Hide Field RIDE_CD ▲

FIELD AADT ►
* ALIAS AADT
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Annual Average Daily Traffic counts.

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES
Values vary.

Hide Field AADT ▲

FIELD RSRF_THCKNS_NBR ►
* ALIAS RSRF_THCKNS_NBR
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Resurface thickness.

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES
Values vary.

Hide Field RSRF_THCKNS_NBR ▲

FIELD RSRFC_YR_NBR ►
* ALIAS RSRFC_YR_NBR
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Resurface Year

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES
Values vary.

Hide Field RSRFC_YR_NBR ▲

FIELD LANE_MILES ►
* ALIAS LANE_MILES
* DATA TYPE String

* WIDTH 384
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Lane miles. The road's centerline mileage multiplied by the number of lanes it has. Lane mileage provides a total amount of mileage covered by lanes belonging to a specific road. Lanes miles provide useful measurements for the purposes of maintenance by factoring in multiple lanes and the additional work they may require.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

Hide Field LANE_MILES ▲

FIELD NC_SUB_RUR_CD ►

* ALIAS NC_SUB_RUR_CD
* DATA TYPE String
* WIDTH 100
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Suburban or Rural indicator for the road.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE R
DESCRIPTION Road is in a rural area.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE S
DESCRIPTION Road is in a suburban area.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field NC_SUB_RUR_CD ▲

FIELD CNTY_SCTN_NBR ►

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

FIELD DESCRIPTION

County Section number.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Values vary.

Hide Field CNTY_SCTN_NBR ▲

FIELD PCS_COMMENT ►

* ALIAS PCS_COMMENT
* DATA TYPE String
* WIDTH 100
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Pavement Condition Survey comment.

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES
Text.

Hide Field PCS_COMMENT ▲

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 treatment.

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES
Values vary.

Hide Field PMS_BUDGET_GROUP_NAME ▲

FIELD GEOM ►
* ALIAS GEOM
* DATA TYPE Geometry
* WIDTH 0
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Geometry type: Polyline.

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES
Polyline.

Hide Field GEOM ▲

FIELD GEOM_Length ►
* ALIAS GEOM_Length
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Internal system line measurement.

DESCRIPTION SOURCE
NCDOT

DESCRIPTION OF VALUES
Values vary.

Hide Field GEOM_Length ▲

Hide Details for object PmuAsphaltPavement ▲

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 2023-11-20

ARCGIS METADATA PROPERTIES
METADATA FORMAT ArcGIS 1.0
METADATA STYLE ISO 19139 Metadata Implementation Specification
STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

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HAVE BEEN PERFORMED Yes
LAST UPDATE 2023-11-20 11:27:54

Hide Metadata Details ▲

Metadata Contacts ►

METADATA CONTACT
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CONTACT'S POSITION GIS Data and Services Consultant
CONTACT'S ROLE point of contact

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CONTACT INSTRUCTIONS
Please send an email with any issues, questions, or comments regarding the data. 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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CLASSIFICATION SYSTEM None

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