# NCRoutes Field Descriptions

## General Notes:

The ALRS Route supports a dominant route (1) only for both NCDOT on system and county routes.  The 11-Digit RouteID Number is the 8-Digit Route Number with a three digit sap county code at the end. Fields dropped from the previous output product will be listed in the 'Removed Fields' section.

The Data Owner is the group that is responsible for maintaining that data item. There may be one or more additional business owners associated with that information, but the Data Owner should be the first group to contact when there is a question about the data in this layer.

Domains are represented as coded values and descriptions. The geodatabase version of the file contains the descriptions. The shapefile version contains the values, which tend to be abbreviated or numeric versions of the description. If the geodatabase table is exported, the resulting table will contain the values.

The NCRoutes is a dual-carriageway system meaning that divided roads (roads with medians) are represented as two separate lines and undivided roads are represented as a single line.

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## Field Definitions:

### 1. OBJECTID

| | |
|---|---|
| **Common Name** | Object Identifier |
| **Definition** | A unique number that is automatically generated for each segment |
| **Data Owner** | GIS Unit |
| **Extent** | Every Segment |
| **Values** | Positive numbers |
| **Notes** | The Object Identifier changes with each publication. |

### 2. Shape

| | |
|---|---|
| **Common Name** | Shape |
| **Definition** | Stores the geometry information for each segment and is used by GIS software to display the line |
| **Data Owner** | GIS Unit |
| **Extent** | Every Segment |
| **Values** | Polyline |

### 3. Division

| | |
|---|---|
| **Common Name** | Division |
| **Definition** | The NCDOT Division number for each route segment |
| **Data Owner** | NC DOT |
| **Extent** | Every Segment |
| **Values** | Data Type = numeric; Data Range from 1-14 |
| **Notes** | |

### 4. MaintCntyCode

| | |
|---|---|
| **Common Name** | Maintenance County Name (Sap County Code) |
| **Definition** | For state-maintained roads, it is the county responsible for maintaining the section of road. For non-state maintained roads, it is the county that the segment is located in. |
| **Data Owner** | GIS Unit |
| **Extent** | Every segment |
| **Values** | Coded domain – see the metadata or contact the GIS Unit for a full list of codes |
| **Notes** | This is the primary county field that should be used. In general all three county fields will have the same value. The exceptions are around the county boundaries. For example, a portion of SR-1828 has a Maintenance County of Iredell County and a Location County of Yadkin County where it crosses the county boundary into Yadkin County. This route should be considered SR-1828 Iredell County even though it is physically located in Yadkin County. The domain for the county codes is not listed here because it is so long. The coded values begin with 001 for Alamance County and end with 100 for Yancey County. These are the state codes (for roads that are maintained by NCDOT but cross the state boundary): Georgia – 901, South Carolina – 902, Tennessee – 903, Virginia – 904. |

### 5. RouteID

| | |
|---|---|
| **Common Name** | MilePoint ID |
| **Definition** | The 11-digit composite route number |

| Data Owner | GIS Unit |
|---|---|
| Extent | Every segment |
| Values | Positive 11-digit numbers (text field) |
| Notes | It uniquely identifies routes statewide and should be used as the route identifier when performing LRS analysis using route/milepost referencing. |

## 6. RouteClass

| Common Name | Route Class |
|---|---|
| Definition | The NCDOT route class code for Dominant Route |
| Data Owner | GIS Unit |
| Extent | Every segment except for gap segments |
| Values | Coded domain |
| Notes | Route Class drives the 1st digit of the RouteID. |

Domain:

| Value | Description | Notes |
|---|---|---|
| 1 | Interstate (I) | State-maintained |
| 2 | US Route (US) | State-maintained |
| 3 | NC Route (NC) | State-maintained |
| 4 | Secondary Route (SR) | State-maintained |
| 5 | Non-System (NS) | Not state maintained |
| 6 | Other State Agency Route (SA) | Federal-aid roads maintained by other state agencies |
| 7 | Federal Route (FED) | Federal-aid roads maintained by federal agencies |
| 80 | Ramp (RMP) | Typically state-maintained but not counted towards state-maintained mileage |
| 81 | Rest Areas (RST) | Typically state-maintained but not counted towards state-maintained mileage |
| 89 | Non-Mainline (NML) | Typically state-maintained but not counted towards state-maintained mileage |
| 9 | Projected (PRJ) | Generalized locations of major facilities that have not yet been built |

## 7. RouteNumber

| Common Name | Route Number |
|---|---|
| Definition | The NCDOT route number for the Dominant Route |
| Data Owner | GIS Unit |
| Extent | Every segment |
| Values | Positive numbers |
| Notes | The Route Number is in the 4th – 8th positions of the RouteID. |

## 8. RouteQualifier

| Common Name | Route Qualifier |
|---|---|
| Definition | An additional code that further defines the Dominant Route |
| Data Owner | GIS Unit |
| Extent | Every segment |
| Values | Coded domain |

| Notes | On state-maintained routes, values of Normal indicate the regular route and other values indicate a related route (e.g., I-95 and I-95 Business). The Route Qualifier is represented in the 2nd position of the Route ID. An exception is that Ramps, Rest Areas and Non-Mainline begin with 80, 81 and 89 respectively so that they can be distinguished by the Route ID. |
|---|---|

Domain:

| Value | Description | Notes |
|---|---|---|
| 0 | Normal Route | On most routes this indicates it is the normal route. If the route class is FED, then Normal/0 means Blue Ridge Parkway. |
| 1 | Alternate Route | If the route class is FED, then Alternate/1 means the road is owned by the military. |
| 2 | Bypass Route | |
| 5 | East Route | This is only used for US-19 East which is a different route than US-19 |
| 6 | West Route | This is only used for US-19 West which is a different route than US-19 |
| 7 | Spur/Connector Route | If the Route Class is Interstate, then the route is a spur; if the Route Class is US or NC Route then the route is a connector |
| 8 | Truck Route | |
| 80 | Ramp | |
| 81 | Rest Area | |
| 89 | Non-Mainline | |
| 9 | Business Route | |

## 9.  RouteInventory

| Common Name | Route Inventory |
|---|---|
| Definition | The NCDOT route direction for Dominant Route |
| Data Owner | GIS Unit |
| Extent | Every segment |
| Values | Coded domain |
| Notes | Inventory directions are Inventory (0) and Clockwise (8). All other values indicate the non-inventory direction of the route. To determine if the route is one-way or both directions of travel, use the One-way Direction Flag (i.e., Inventory Route Direction and Both Directions for the One-way Direction Flag imply that the route is bidirectional). The Route Direction is represented in the 3rd position of the Route ID and the 8-Digit Route Number. |

Domain:

| Value | Description | Notes |
|---|---|---|
| 0 | Inventory | Includes bidirectional, Northbound, Eastbound, and one-way inventory |
| 4 | Non-Inventory (Southbound) | On secondary routes, rest areas and non-state maintained route classes, "Southbound" means non-inventory |
| 6 | Non-Inventory (Westbound) | |
| 8 | Inventory (Clockwise) | |
| 9 | Non-Inventory (Counter-Clockwise) | |

## 10. RouteName

| Common Name | Route Name |
|---|---|
| Definition | The NCDOT name of the Dominant Route |
| Data Owner | GIS Unit |
| Extent | Every segment |

| Values | Text |
|---|---|
| Notes | It is a concatenation of an abbreviation of Route Class, Route Number and Route Qualifier. |

## 11. BeginMP

| Common Name | Beginning Milepost for Dominant Route |
|---|---|
| Definition | The beginning milepost at that point on the segment. |
| Data Owner | GIS Unit |
| Extent | Every segment |
| Values | Numbers; six decimal places |

## 12. EndMP

| Common Name | Ending Milepost for Dominant Route |
|---|---|
| Definition | The ending milepost at that point on the segment. |
| Data Owner | GIS Unit |
| Extent | Every segment |
| Values | Numbers; six decimal places |

## 13. RouteMaintCode

| Common Name | Route Status Code |
|---|---|
| Definition | The system status of the route |
| Data Owner | GIS Unit |
| Extent | Every segment |
| Values | Data Type = text; Derived |
| Notes | This field has a value of "System" on every record except for where Non-System routes.  System Routes = RouteClass IN (1,2,3,4,8,9) ; Non-System = RouteClass IN (5,6,7) |

# Removed Fields

## 1.  NonMonotonic

| Common Name | NonMonotonic |
|---|---|
| Definition | Routes are not Monotonic.  This field is the same as RVRS_ATTBT_IND which is currently phased out. |
| Data Owner | GIS Unit |
| Extent | Every segment |
| Values | Text ; |