

Improvements and Known Issues for Road Characteristic Data Layer Third Quarter 2010 Release

The network has remained largely static since the last quarter in order to focus on reviewing several attributes for HPMS. This release will be used to generate the 2010 HPMS submittal dataset. The following improvements have been made to the Road Characteristics Layer (RD_CHAR_MLPST) since the last quarter release

1. A correction was made to the calculation of the mileposts on non-inventory routes. However there are still several small gaps in the Road Characteristics attributes.
2. A correction was made to spatially derived attributes (State Highway System, Rural Urban Description by Population, Urban ID, Town Code, Population Group, Area Type, Terrain). Previously spatially derived attribute breaks only occurred at the end of LRS segments. They now occur along the segment, where a boundary breaks it.
3. A correction was made to the Blue Ridge Parkway Route ID (70000XXXXX). In previous releases it was mistakenly coded as 71000XXXXX.
4. Around 275 minor corrections were made to Functional Class for a total of 20 miles.
5. LOC-962, Guilford County was deleted because it overlapped with SR-1008.
6. A correction was made to Sample 11576, SR-1100, New Hanover County. The sample now goes from milepost 1.000 to 2.245. It was previously split in two pieces.
7. Two corrections were made to Federally-approved designated truck routes. Designation was removed from NC-540, Wake County and NC-24 Business, Onslow County.
8. Minor milepost corrections were made to the following 16 routes. Previously the routes had ending mileposts that were less than beginning mileposts.

Route Name	Route ID	G1 FTESG	Impact to HPMS Submittal
US-501, Chatham	2000050118	218681 218682	None, the route is not dominant in Chatham County
US-21 South, Mecklenburg	2040002159	16170	None, non-inventory, non-couplet
US-601 South, Cabarrus	2040060112	17773	None, non-inventory, non-couplet
US-601 South,	2040060189	17783	None, non-inventory, non-couplet

Union			
US-401 BUS South, Scotland	2940040182	212881	None, non-inventory, non-couplet
US-64 BUS West, Wake	2960006491	30491	None, non-inventory, non-couplet
NC-8 South, Davidson	3040000828	38154	None, the route has a couplet in this county, but the change did not affect the minimum and maximum milepost values or the milepost values along the couplet portion
NC-43 South, Nash	3040004363	38302	None, non-inventory, non-couplet
NC-55 South, Harnett	3040005542	38412	None, non-inventory, non-couplet
NC-73 West, Cabarrus	3060007312	38991	None, non-inventory, non-couplet
SR-1644, Wilson	4000164497	123438 216347	None, local functional classification
SR-2951, Rockingham	4000295178	181404	None, local functional classification
RMP-2354, Durham	8000235431	217363 103811	Milepost values corrected from 0.055 to 0.055 (2 nd quarter publication) to 0.000 to 0.343
RMP-5713, Johnston	8000571350	-4639	None, the milepost values did not change

The following are known data quality issues

1. 614 routes were lost during the data import process because they were in the source data but not in the LRS. The reasons for the discrepancy have not been investigated.
2. Road Characteristics Data were skewed during the data import process because of differences in mileposts between the source data and the LRS.
3. There are still some sections of routes that are missing Road Characteristic Data. These holes were created during the data import process and when datasets were merged. For example, differences in the location of gaps within routes, and differences in what is considered the dominant route between the source data and the LRS.
4. There are some routes that do not have correct milepost values and should not be used for dynamic segmentation using the route/milepost linear referencing

method. The following routes have known mileposting issues that should be corrected in the future releases:

US-1 Bus Southbound in Lee
US-19 Bus Southbound in Cherokee
US-70 Bus Westbound in Wayne
US-501 Bus Southbound in Durham
NC-16 Bus Southbound in Catawba