

**Summary of Field Manual Edits, April 2016**  
**FHWA / Office of Highway Policy Information**

Changes to the HPMS Field Manual for 2016 are summarized in the table below. These changes supersede the previously released 2014 HPMS Field Manual (and/or the 2015 HPMS Field Manual) only where noted. To enable comparison with prior guidance, the 2014 HPMS Field Manual Page Number is included. Note that changes may start on one page but flow to subsequent pages. Where the change includes text or more than a simple omission from the 2014 Field Manual, full text for the revisions is included in the following pages. Areas of change are shown in **yellow highlight** show areas of change, but users should read through each section, figure, table or diagram to ensure that the full context of changes is understood.

Chapter/ Appendix	Section	Figure or Table	Data Item	Data Item #	2014 Page Number	Change
1	1	N/A	N/A	N/A	1-1	Removed text that referenced "TEA-21, (23 U.S.C. 104).
1	2	N/A	N/A	N/A	1-1	Revised text that references the "Office of Highway System Performance (HPPI)" to read "Office of Highway Policy Information (HPPI-20)".
1	3	Table 1.1	N/A	N/A	1-3	Revised Table 1.1 footnotes.
1	4	N/A	N/A	N/A	1-5	Inserted text that emphasizes the requirement for the States' HPMS submittal to be based on data collected during a given 'calendar year.
2	4	Table 2.1	N/A	N/A	2-2 & 2-3	Revised a few data item names.
3	3	Table 3.12	N/A	N/A	3-16	Revised 'Description', and 'Valid Values' text for the 'Urban Code' field.
4	2	N/A	N/A	N/A	4-8	Clarified "zero (0) / null value" reporting guidance in 'Example records' discussion.
4	3	Table 4.2	N/A	N/A	4-10	Revised a few data item names.
4	3	N/A	N/A	N/A	4-12	Revised "homogeneous sections" discussion to provide additional clarification.
4	3	Table 4.3	N/A	N/A	4-1	Revised a few data item names and footnotes.

Chapter/ Appendix	Section	Figure or Table	Data Item	Data Item #	2014 Page Number	Change
4	4	NA	Structure_Type	4	4-23	Revised data collection/reporting guidance.
4	4	Figure 4.54	Shoulder_Type	37	4-72	Inserted new image ("barrier curb" example); re-numbered subsequent images from this point to image 4.75.
4	4	N/A	Terrain_Type	44	4-83 & 4-84	Revised 'extent' requirements and 'guidance' discussions; inserted replacement image ("level terrain" example).
4	4	N/A	Pct_Pass_Sight	46	4-86	Revised 'guidance' discussion.
4	4	N/A	NHS	64	4-113	Revised 'guidance' discussion.
4	4	N/A	STRAHNET_Type	65	4-114	Revised 'guidance' discussion.
4	4	N/A	Truck	66	4-115	Revised 'guidance' discussion.
4	4	N/A	Future_Facility	67	4-116	Revised 'guidance' discussion.
4	4	N/A	Capacity	69	4-118	Revised 'guidance' discussion.
D	N/A	N/A	N/A	N/A	D-1 – D-13	Updated toll IDs for CA, CO, FL, LA, RI, & TX.

# Revised Field Manual Text for Use with 2016 Data Submissions

## 1.1 Background

The Federal Highway Administration (FHWA) is responsible for assuring that adequate highway transportation data and systems performance information is available to support its functions and responsibilities, as well as those of the Administration and United States Congress.

A biennial Conditions & Performance report of the future highway investment needs of the nation is mandated by Congress (23 U.S.C. 502(h)). The Highway Performance Monitoring System (HPMS) data are used for assessing highway system performance under the U.S. DOT and FHWA's strategic planning and performance reporting process in accordance with requirements of the Government Performance and Results Act (GPRA, Sections 3 and 4) and for apportioning Federal-aid highway funds in accordance with title 23, U.S.C. To address these needs, the HPMS was first developed in 1978 as a national highway transportation information program.

This *HPMS Field Manual* provides a comprehensive overview of the HPMS program, and describes in detail the data collection and reporting requirements for HPMS. The requirements outlined in the *Field Manual* are authorized under 23 U.S.C. 315, which places the authority on the Secretary of Transportation for National management decisions affecting transportation. In addition, The United States Code of Federal Regulations (CFR) title 23, §1.5 provides the Federal Highway Administrator with authority to request such information deemed necessary to administer the Federal-aid highway program. Also, 23 CFR 420.105(b) requires the States to provide data that support FHWA's responsibilities to the Congress and the public. The *HPMS Field Manual* is a valuable resource that guides the States as they address their HPMS data collection and reporting responsibilities. This manual includes detailed information on technical procedures, a glossary of terms, and various tables to be used as reference by those collecting and reporting HPMS data. Information related to the use of the HPMS software web application is contained in a stand-alone document.

## 1.1 Scope of the HPMS

The HPMS is a national program that includes inventory information for all of the Nation's public roads as certified by the States' Governors annually. All roads open to public travel are reported in HPMS regardless of ownership, including Federal, State, county, city, and privately owned roads such as toll facilities. Each State is required to annually furnish all data per the reporting requirements specified in this *HPMS Field Manual*. The District of Columbia and the Commonwealth of Puerto Rico are treated as States for HPMS reporting purposes. United States Territories (Guam, the Commonwealth of the Northern Marianas, American Samoa, and the Virgin Islands of the United States) are required to annually report limited HPMS summary data only, in addition to the separate reporting of certified public road mileage.

Public road mileage certifications are due no later than June 1<sup>st</sup> of each year to FHWA Headquarters, Office of Highway Policy Information (HPPI). FHWA Field Division Offices are free to set an earlier date. The certifications shall be provided in an electronic format via email sent to the FHWA Office of Highway Policy Information official electronic mailbox ([HPInfoMail@dot.gov](mailto:HPInfoMail@dot.gov)). The requirements for submitting the public road mileage are in accordance with CFR 23, Part 460.3; see <http://www.fhwa.dot.gov/policy/ohpi/prmcguidance.cfm>. HPMS uses the certified public road mileage as a control total for the mileage in each State.

HPMS requires more detailed information for the National Highway System (NHS), which is a network of the most highways concerning the nation's economy, defense, and mobility. The NHS was first designated on November 28, 1995 and expanded on October 1, 2012, to include principal arterial routes but the processes to

update functional classification and NHS designation remain separate. Note that although ramps may be part of the NHS, the NHS data in HPMS does not cover ramps except for five data items: Functional System, Urban Code, Facility Type, Through Lanes, and AADT.

**Table 1.1 Minimum Data Reporting for Selected HPMS Products**

<b>RURAL</b>						
<b>HPMS Product</b>	<b>Federal-Aid</b>				<b>Non-Federal-Aid</b>	
	<b>National Highway System (NHS)</b>	<b>Non-National Highway System (non-NHS)</b>				
	<b>Interstate &amp; Non-Interstate</b>	<b>Other Freeways &amp; Expressways and Other Principal Arterials</b>	<b>Minor Arterial</b>	<b>Major Collector</b>	<b>Minor Collector</b>	<b>Local</b>
Miles	Full Extent	Full Extent	Full Extent	Full Extent	Summary	Summary
Lane-Miles	Full Extent	Full Extent	Full Extent	Full Extent	Summary 1/	Summary 1/
Total VMT	Full Extent	Full Extent	Full Extent	Full Extent	Summary 2/	Summary 2/
Truck VMT	Full Extent	Sample Panel	Sample Panel	Sample Panel	Summary	Summary
International Roughness Index (IRI)	Full Extent	Full Extent	Sample Panel	Optional		
Total Public Road Miles	Certified Mileage -----					

<b>URBAN</b>						
<b>HPMS Product</b>	<b>Federal-Aid</b>					<b>Non-Federal- Aid</b>
	<b>National Highway System (NHS)</b>	<b>Non-National Highway System (non-NHS)</b>				
	<b>Interstate Non-Interstate</b>	<b>Other Freeways &amp; Expressways and Other Principal Arterials</b>	<b>Minor Arterial</b>	<b>Major Collector</b>	<b>Minor Collector</b>	<b>Local</b>
Miles	Full Extent	Full Extent	Full Extent	Full Extent	Full Extent	Summary
Lane-Miles	Full Extent	Full Extent	Full Extent	Full Extent	Full Extent	Summary 1/
Total VMT	Full Extent	Full Extent	Full Extent	Full Extent	Full Extent	Summary 2/
Truck VMT	Full Extent	Sample Panel	Sample Panel	Sample Panel	Sample Panel	Summary
International Roughness Index (IRI)	Full Extent	Full Extent	Optional	Optional	Optional	
Total Public Road Miles	Certified Mileage -----					

1/ Data for Lane-Miles on Rural Minor Collector, and Local roads are calculated using Summary miles times 2. Since the States are not required to report the number of through lanes on these systems, except for NHS sections, FHWA uses a multiplier of 2 for the number of lanes, to be consistent across all States.

2/ Data reported for Total VMT on Rural Minor Collector and Local roads are provided at a summary level of detail. States are not required to report section level AADT on these systems, except for NHS sections.

**Full Extent Data:** Reported for an entire roadway system or systems (even if the data are sampled annually).  
**Sample Panel Data:** Reported for defined sample sections associated with the Federal-aid roadway system.  
**Summary Data:** Reported in aggregate for defined areas and/or roadways functionally classified as rural minor collector or local.

## 1.4 HPMS Staff Roles and Responsibilities

The annual provision of HPMS data is a cooperative effort between State Departments of Transportation (DOTs), local governments, and metropolitan planning organizations (MPOs) working in partnership to collect, assemble, and report the necessary information. The process resulting from this relationship is depicted in Figure 1.1. In consultation with its HPMS partners, stakeholders, and customers, FHWA identifies the data to be reported and provides data definitions and standards. FHWA develops and maintains web-based applications, analytical models and techniques that FHWA and various State DOTs use in conjunction with HPMS data to conduct policy-level, corridor-level, and subarea planning analysis and programming. Taken together, these activities support informed highway planning, policy development, and decision-making at the Federal and State levels.

Within each DOT, the responsibilities for collecting and reporting HPMS data is generally a cooperative process between a central office, which prepares, analyzes, and submits HPMS data on behalf of the State, and other district or regional offices responsible for field data collection activities, including roadway inventory, and traffic and pavement data collection. To help facilitate this effort, this manual provides guidance to the States in support of their field data collection activities for HPMS.

The required State and sub-State coordination is exemplified by the process to prepare a geospatial file for each HPMS submission. Because the necessary geospatial file must be maintained in such a way that it easily links to information about condition, performance, use and operating characteristics of Federal-aid system roadways, DOT staff must work closely and coordinate with State GIS, road inventory, traffic and pavement staff.

The process of coordinating these activities is usually performed under the direction of an HPMS Manager or HPMS Coordinator within each State DOT. This person serves as the primary liaison with the FHWA on all matters related to the preparation and submittal of the State's HPMS submittal.

After each State has submitted their HPMS data, it is the responsibility of the FHWA Office of Highway Policy Information (OHPI) to integrate each submittal into the national HPMS database. The HPMS database then becomes the source of information provided in the *Conditions and Performance (C&P) Report to Congress* on a biennial basis.

The HPMS submittal from the State represents the condition of the road network as of December 31<sup>st</sup> of each year. Moreover, annual data collection activities are to be performed during the calendar year (i.e., January through December) prior to the reporting year (e.g., data collected up to December 31<sup>st</sup> 2015 would be used for reporting in 2016). Data collection activities conducted during a State's fiscal year, performance year, etc. must conclude by December 31<sup>st</sup> of that year for reporting in the following year.

Figure 1.1 illustrates a potential workflow for the process and roles involved in the preparation of a State's HPMS data submittal.

**Table 2.1 Data Items to be Reported**

Data Item Type	Item Number	Data Item	Extent	
Inventory	1	Functional System	FE + R	
	2	Urban Code	FE + R	
	3	Facility Type	FE + R	
	4	Structure Type	FE**	
	5	Access Control	FE*	SP*
	6	Ownership	FE	
	7	Through Lanes	FE + R	
	8	Managed Lane Operations Type	FE**	
	9	Managed Lanes	FE**	
	10	Peak Lanes		SP
	11	Counter Peak Lanes		SP
	12	Right Turn Lanes		SP
	13	Left Turn Lanes		SP
	14	Speed Limit		SP
	15	Toll Charged	FE**	
	16	Toll Type	FE**	
Route	17	Route Number	FE*	
	18	Route Signing	FE*	
	19	Route Qualifier	FE*	
	20	Alternate Route Name	FE	
Traffic	21	Annual Average Daily Traffic	FE + R	
	22	Single-Unit Truck & Bus AADT	FE*	SP*
	23	Percent Peak Single-Unit Trucks & Buses		SP
	24	Combination Truck AADT	FE*	SP*
	25	Percent Peak Combination Trucks		SP
	26	K-factor		SP
	27	Directional Factor		SP
	28	Future AADT		SP
	29	Signal Type		SP
	30	Percent Green Time		SP

<b>Data Item Type</b>	<b>Item Number</b>	<b>Data Item</b>	<b>Extent</b>	
	31	No. of Signalized Intersections		SP
	32	No. of Stop Sign Intersections		SP
	33	No. of Intersections, Type - Other		SP
<b>Geometric</b>	34	Lane Width		SP
	35	Median Type		SP
	36	Median Width		SP
	37	Shoulder Type		SP
	38	Right Shoulder Width		SP
	39	Left Shoulder Width		SP
	40	Peak Parking		SP
	41	Widening Obstacles		SP
	42	Widening Potential		SP
	43	Curve Classification		SP*
	44	Terrain Type		SP
	45	Grade Classification		SP*
	46	Percent Passing Sight Distance		SP
	<b>Pavement</b>	47	International Roughness Index (IRI)	FE*
48		Present Serviceability Rating (PSR)		SP*
49		Surface Type	FE***	SP
50		Rutting	FE***	SP
51		Faulting	FE***	SP
52		Cracking Percent	FE***	SP
54		Year of Last Improvement		SP
55		Year of Last Construction		SP
56		Last Overlay Thickness		SP
57		Thickness Rigid		SP
58		Thickness Flexible		SP
59		Base Type		SP
60		Base Thickness		SP
61		Climate Zone		SP
62	Soil Type		SP	
<b>Inventory</b>	63	County Code	FE	

Data Item Type	Item Number	Data Item	Extent	
Special Networks	64	National Highway System (NHS)	FE**	
	65	Strategic Highway Network (STRAHNET)	FE**	
	66	National Truck Network (NN)	FE**	
	67	Future Facility (Planned/Unbuilt NHS)	FE**	
Inventory	68	Maintenance and Operations	FE	
Traffic	69	Capacity		SP

FE = Full Extent for all functional systems (including State and non-State roadways)  
FE\* = Full Extent for some functional systems, (see Chap. 4, Sec. 4.4 for more details)  
FE\*\* = Full Extent wherever data item is applicable, (see Chap. 4, Sec. 4.4 for more details)  
FE + R = Full Extent including ramps located within grade-separated interchanges  
SP = All Sample Panel Sections (as defined by HPMS)  
SP\* = Some Sample Panel Sections (see Chap. 4, Sec. 4.4 for more details)

### Table 3.12 Urban Area Summaries

Table 3.12 describes the dataset which contains daily travel and demographics data for all local functional system roads for each adjusted urbanized area.

URBAN AREA SUMMARIES TABLE				
Constraint	Field Name	Data Type	Description	Valid Values
PK	Year_Record	Numeric(4)	Calendar year for the data	The four digits of the year the data represents.
PK	State_Code	Numeric(2)	State FIPS code	Up to two digits for the FIPS code. See Appendix C for a complete list of FIPS codes.
PK	Urban_Code	Numeric(5)	Census urban code	Up to five digits for the Census urban code. See Appendix I for a complete list eligible of codes.
	Local_VMT	Numeric(8)	Local (daily) travel	Report total daily vehicle-miles of travel as a whole number (round to the nearest 1,000 if preferred).  Metadata: See Metadata Catalog
	State_Portion_Pop	Numeric(8)	Population for State portion	Estimate/report current population as a whole number (in thousands)
	State_Portion_Land	Numeric(8)	Land area for State portion	Estimate of current land area to the nearest square mile.

Extent: All urbanized area public roads functionally classified as Local. Any NHS routes or toll roads on these functional systems should be included.



## Chapter 4, Section 2 (pg. 4-8)

**Example records:** The following example shows a potential arrangement of records for various data items (e.g., Annual Average Daily Travel (AADT), IRI, Through Lanes, etc.) for the State of Oregon, based on the file structure described in Table 4.1. This file is to be developed by the States and submitted to FHWA in a Character Separated Value (CSV) file format as shown below. This file should not contain any records that have either a zero (0) or null value for the fields that require an entry, for any given Data Item. In most cases, the Value Numeric field shall be used to report the primary information for each data item. The Value Text and Value Date fields can be used by the States to enter additional information, when data for these fields are not required for a particular data item (e.g., AADT). Furthermore, the Comment field is not required for FHWA purposes, but is available as an optional field for State-use. The States can either submit one aggregate CSV file containing all records for all of the required data items, or submit a series of individual CSV files. Upon submittal, this data will be stored in the Sections Catalog within FHWA's system.

**NOTE:** The Value Numeric field should contain a value of zero (0) only when it is representative of the condition or performance indicator for a given data item (see Section 4.4 for a description of valid values by data item).

Year\_Record|State\_Code|Route\_ID|Begin\_Point|End\_Point|Data\_Item|Section\_Length|Value\_Numeric|Value\_Text|Value\_Date|Comments

2009|41|000100200S00|0|0.75|AADT|0.75|14800|Factored '06 AADT||

2009|41|000100200S00|0.75|5.32|AADT|4.57|14700||4/21/2009|

2009|41|000100200S00|0|0.75|IRI|0.75|118||3/2009|

2009|41|000100200S00|0.75|5.32|IRI|4.57|94|||

2009|41|000100200S00|5.32|5.69|IRI|0.37|66||4/2008|

2009|41|000100200S00|0|0.75|Through\_Lanes|0.75|4|||

2009|41|000100200S00|0.75|5.32|Through\_Lanes|4.57|4|||Widened in '08

**Table 4.2: Data Items**

Data Item Type	Item Number	Database-Specific Data Item Name	Data Item Name	Extent	
Inventory	1	F_System	Functional System	FE + R	
	2	Urban_Code	Urban Code	FE + R	
	3	Facility_Type	Facility Type	FE + R	
	4	Structure_Type	Structure Type	FE**	
	5	Access_Control	Access Control	FE*	SP*
	6	Ownership	Ownership	FE	
	7	Through_Lanes	Through Lanes	FE + R	

Data Item Type	Item Number	Database-Specific Data Item Name	Data Item Name	Extent	
	8	HOV_Type	Managed Lane Operations Type	FE**	
	9	HOV_Lanes	Managed Lanes	FE**	
	10	Peak_Lanes	Peak Lanes		SP
	11	Counter_Peak_Lanes	Counter Peak Lanes		SP
	12	Turn_Lanes_R	Right Turn Lanes		SP
	13	Turn_Lanes_L	Left Turn Lanes		SP
	14	Speed_Limit	Speed Limit		SP
	15	Toll_Charged	Toll Charged	FE**	
Route	16	Toll_Type	Toll Type	FE**	
	17	Route_Number	Route Number	FE*	
	18	Route_Signing	Route Signing	FE*	
	19	Route_Qualifier	Route Qualifier	FE*	
Traffic	20	Alternative_Route_Name	Alternative Route Name	FE	
	21	AADT	Annual Average Daily Traffic	FE + R	
	22	AADT_Single_Unit	Single Unit Truck and Bus AADT	FE*	SP*
	23	Pct_Peak_Single	Percent Peak Single-Unit Trucks and Buses		SP
	24	AADT_Combination	Combination Truck AADT	FE*	SP*
	25	Pct_Peak_Combination	Percent Peak Combination Trucks		SP
	26	K_Factor	K-factor		SP
	27	Dir_Factor	Directional Factor		SP
	28	Future_AADT	Future AADT		SP
	29	Signal_Type	Signal Type		SP
	30	Pct_Green_Time	Percent Green Time		SP
	31	Number_Signals	Number of Signalized Intersections		SP
	32	Stop_Signs	Number of Stop-Sign Controlled Intersections		SP
	33	At_Grade_Other	Number of Intersections, Type - Other		SP
	34	Lane_Width	Lane Width		SP
	35	Median_Type	Median Type		SP

Data Item Type	Item Number	Database-Specific Data Item Name	Data Item Name	Extent	
Geometric	36	Median_Width	Median Width		SP
	37	Shoulder_Type	Shoulder Type		SP
	38	Shoulder_Width_R	Right Shoulder Width		SP
	39	Shoulder_Width_L	Left Shoulder Width		SP
	40	Peak_Parking	Peak Parking		SP
	41	Widening_Obstacle	Widening Obstacle		SP
	42	Widening_Potential	Widening Potential		SP
	43	Curves_A through Curves_F	Curve Classification		SP*
	44	Terrain_Type	Terrain Type		SP
	45	Grades_A through Grades_F	Grade Classification		SP*
	46	Pct_Pass_Sight	Percent Passing Sight Distance		SP
Pavement	47	IRI	International Roughness Index	FE*	SP*
	48	PSR	Present Serviceability Rating		SP*
	49	Surface_Type	Surface Type		SP
	50	Rutting	Rutting		SP
	51	Faulting	Faulting		SP
	52	Cracking_Percent	Cracking Percent		SP
	53	Cracking_Length	Cracking_Length		SP#
	54	Year_Last_Improv	Year of Last Improvement		SP
	55	Year_Last_Construction	Year of Last Construction		SP
	56	Last_Overlay_Thickness	Last Overlay Thickness		SP
	57	Thickness_Rigid	Thickness Rigid		SP
	58	Thickness_Flexible	Thickness Flexible		SP
	59	Base_Type	Base Type		SP
	60	Base_Thickness	Base Thickness		SP
61	Climate_Zone**	Climate Zone**		SP	
62	Soil_Type**	Soil Type**		SP	
Inventory	63	County_Code	County Code	FE	
Special Networks	64	NHS	National Highway System	FE**	
	65	STRAHNET_Type	Strategic Highway Network	FE**	

Data Item Type	Item Number	Database-Specific Data Item Name	Data Item Name	Extent	
	66	Truck	National Truck Network	FE**	
	67	Future_Facility	Future National Highway System	FE**	
<b>Inventory</b>	68	Maintenance_Operations	Maintenance & Operations	FE	
<b>Traffic</b>	69	Capacity	Capacity		SP

FE = Full Extent for all functional systems (including State and non-State roadways)

FE\* = Full Extent for some functional systems, see Sec. 4.4 for more details

FE\*\* = Full Extent wherever data item is applicable, (Sec. 4.4 for more details)

SP = All Sample Panel Sections (as defined by HPMS)

SP\* = Some Sample Panel Sections, see Sec. 4.4 for more details

FE + R = Full Extent including ramps located within grade-separated interchanges

\*\* = States have the option to override initial codes assigned by FHWA

The States shall submit their section-level data for certain data items (Data Items 1-3, 7, and 21) as homogenous sections. For most other data items, this submittal format is optional. By definition, a homogenous section is a section that has the same value for a given data item over its entire extent. A homogenous section has a natural beginning and ending point where the value for a given data item changes beyond the limits of that section. This type of section may be longer or shorter than the sections identified in the Table of Potential Samples or "TOPS" (discussed in Section 6.2). The requirements for the reporting of these sections are identified by data item in Table 4.3.

If preferred, the States may structure and submit their non-homogenous section-level data in accordance with the limits of the TOPS sections (i.e. section limits shall be equivalent to TOPS section limits). However, the States **shall** submit their section-level data for Data Items 31-33, 43, and 45 in accordance with the limits of TOPS sections. If a State submits section-level data that matches the limits of the TOPS sections, then, they shall apply one of the following calculation methods (per the data item specifications listed in Table 4.3) to ensure that the values reported provide the required representation of those sections:

- 1) No Calculation Required – Reported value shall be consistent within the limits of the section.
- 2) Combination – Reported value shall consist of a concatenation of multiple (text) values within the limits of the section.
- 3) Minimum Value – Reported value shall be the lowest value in a range of values within the limits of the section.
- 4) Predominance – Reported value shall be based on the most prevalent value within the limits of the section.
- 5) Weighted Averaging – Reported value shall be based on an averaging of values within the limits of the section, weighted by the length of the sub-section for each value.

**Table 4.3: Calculation Method by Data Item**

Item Number	Data Item Name	Method
1	<b>Functional System *</b>	No Calculation Required
2	<b>Urban Code *</b>	No Calculation Required
3	<b>Facility Type *</b>	No Calculation Required
4	Structure Type	No Calculation Required
5	Access Control	Predominance
6	Ownership	Predominance
7	<b>Through Lanes *</b>	No Calculation Required
8	Managed Lane Operations Type	Predominance
9	Managed Lanes ***	Predominance
10	Peak Lanes	Predominance
11	Counter-Peak Lanes	Predominance
12	Right Turn Lanes	Predominance
13	Left Turn Lanes	Predominance
14	Speed Limit	Predominance
15	Toll Charged	Predominance
16	Toll Type	Predominance
17	Route Number	Predominance
18	Route Signing	Predominance
19	Route Qualifier	Predominance
20	Alternative Route Name	Predominance
21	<b>AADT *</b>	No Calculation Required#
22	Single-Unit Truck and Bus AADT	Weighted Averaging
23	Percent Peak Single-Unit Trucks and Buses	Weighted Averaging
24	Combination Truck AADT	Weighted Averaging
25	Percent Peak Combination Trucks	Weighted Averaging
26	K-factor	Weighted Averaging
27	Directional Factor	Weighted Averaging
28	Future AADT	Weighted Averaging
29	Signal Type	Predominance
30	Percent Green Time	Weighted Averaging
31	Number of Signalized Intersections **	No Calculation Required

<b>Item Number</b>	<b>Data Item Name</b>	<b>Method</b>
32	Number of Stop Sign-Controlled Intersections **	No Calculation Required
33	Number of Intersections, Type – Other **	No Calculation Required
34	Lane Width	Predominance
35	Median Type	Predominance
36	Median Width	Predominance
37	Shoulder Type	Predominance
38	Right Shoulder Width	Predominance
39	Left Shoulder Width	Predominance
40	Peak Parking	Predominance
41	Widening Obstacle	Combination
42	Widening Potential	Minimum Value
43	Curve Classification **	No Calculation Required
44	Terrain Type	Predominance
45	Grade Classification **	No Calculation Required
46	Percent Passing Sight Distance	Minimum Value
47	International Roughness Index	Weighted Averaging
48	Present Serviceability Rating	Weighted Averaging
49	Surface Type	Predominance
50	Rutting	Weighted Averaging
51	Faulting	Weighted Averaging
52	Cracking Percent	Weighted Averaging
54	Year of Last Improvement	Predominance
55	Year of Last Construction	Predominance
56	Last Overlay Thickness	Predominance
57	Thickness Rigid	Predominance
58	Thickness Flexible	Predominance
59	Base Type	Predominance
60	Base Thickness	Predominance
61	Climate Zone	Predominance
62	Soil Type	Predominance
63	County Code	Predominance
64	National Highway System	No Calculation Required

Item Number	Data Item Name	Method
65	Strategic Highway Network	No Calculation Required
66	National Truck Network	No Calculation Required
67	Future National Highway System	No Calculation Required
68	Maintenance & Operations	Predominance
69	Capacity	Weighted Averaging

\*Data items shall be reported as homogenous sections (used to define the TOPS)

\*\*Values for these data items shall be reported for the defined limits of the TOPS sections

\*\*\*Section limits for this data item should be consistent with those associated with Data Item 8

#Weighted Averaging may be used if multiple traffic counts are combined to comprise a homogenous section

#### Item 4: **Structure\_Type** (Structure Type)

**Description:** Roadway section that is a bridge, tunnel or causeway.

**Use:** For analysis in the national highway database and pavement performance analysis/reporting

**Extent:** All Federal-aid highways.

Functional System		1	2	3	4	5	6	7
	NHS	Int	OFE	OPA	MiA	MaC	MiC	Local
Rural	FE**	FE**	FE**	FE**	FE**	FE**		
Urban	FE**	FE**	FE**	FE**	FE**	FE**	FE**	

FE\*\* = Full Extent wherever data item is applicable

#### Coding Requirements for Fields 8, 9, and 10:

**Value\_Numeric:** Use the following codes:

Code	Description
1	Section is a Bridge
2	Section is a Tunnel
3	Section is a Causeway

**Value\_Text:** No entry required. Available for State Use.

**Value\_Date:** No entry required. Available for State Use.

**Guidance:** Code this data item wherever a bridge, tunnel, or causeway exists.

Bridges shall meet a minimum length requirement of more than 20 feet (per the National Bridge Inventory (NBI) guidelines in accordance with 23 CFR 650.305) in order to be deemed a “structure.” Per NBI guidelines, bridge-sized culverts shall be reported for this data item; all other culverts are to be excluded.

A tunnel is a roadway below the surface connecting to at-grade adjacent sections.

A causeway is a narrow, low-lying raised roadway, usually providing a passageway over some type of vehicular travel impediment (e.g. a river, swamp, earth dam, wetlands, etc.).

The begin and end points for this data item shall be coded in accordance with the points of origin and terminus for the associated bridge, tunnel or causeway. Furthermore, the points of origin and terminus for structures shall exclude approach slabs.

### Item 37: **Shoulder\_Type** (Shoulder Type)

**Description:** The type of shoulder.

**Use:** For investment requirements modeling to estimate needed improvements.

**Extent:** All Sample Panel sections, optional for all other sections beyond the limits of the Sample Panel.

Functional System		1	2	3	4	5	6	7
	NHS	Int	OFE	OPA	MiA	MaC	MiC	Local
Rural	SP	SP	SP	SP	SP	SP		
Urban	SP	SP	SP	SP	SP	SP	SP	

SP = Sample Panel Sections

#### Coding Requirements for Fields 8, 9, and 10:

**Value\_Numeric:** Enter the code for the type of shoulder on the section.

Code	Description
1	None
2	Surfaced shoulder exists – bituminous concrete (AC)
3	Surfaced shoulder exists – Portland Cement Concrete surface (PCC)
4	Stabilized shoulder exists (stabilized gravel or other granular material with or without admixture)



5	Combination shoulder exists (shoulder width has two or more surface types; e.g., part of the shoulder width is surfaced and a part of the width is earth)
6	Earth shoulder exists
7	Barrier curb exists; no shoulder in front of curb

<b>Value_Text:</b>	No entry required. Available for State Use.
<b>Value_Date:</b>	No entry required. Available for State Use.

**Guidance:** If the shoulder type varies over the extent of the section, code the predominant type. If left and right shoulder types differ on a divided facility, code the right shoulder type as the predominant type.

If there is a shoulder in front of a barrier curb, code this Data Item and Data Item 38 (Shoulder Width); do not code the area behind a barrier curb as a shoulder.

Disregard mountable curbs for HPMS reporting purposes. If there is a shoulder either in front of or behind a mountable curb, code this Data Item and Data Item 38 (Shoulder Width).

If a bike lane abuts the through lane, there cannot be a shoulder unless it is used as a combined shoulder/bike lane (sometimes indicated by signage or symbols on the pavement). If a bike lane or parking is completely separated from the roadway, it should not be considered.

If the section has parking abutting the through lane, there cannot be a shoulder. If there is parking on one side of a divided roadway and a shoulder or a curb on the other side, code this Data Item, Data Item 38 (Shoulder Width), and Data Item 40 (Peak Parking) accordingly. A shoulder cannot exist between a traffic lane and a parking lane.

***Shoulder Type Examples:***

**Figure 4.50: Bituminous (Code ‘2’)**



**Figure 4.51: Stabilized (Code ‘4’)**



**Figure 4.52: Combination (Code ‘5’)**



**Figure 4.53: Earth (Code ‘6’)**



**Figure 4.54: Barrier Curb / No Shoulder (Code ‘7’)**



**Item 44: Terrain\_Type (Terrain Type)**

**Description:** The type of terrain.

**Use:** For investment requirements modeling to calculate capacity and estimate needed capacity improvements and in the truck size and weight analysis process.

**Extent:** All principal arterial, minor arterial, and major collector Sample Panel sections located in rural areas, optional for all other rural sections beyond the limits of the Sample Panel.

Functional System		1	2	3	4	5	6	7
	NHS	Int	OFE	OPA	MiA	MaC	MiC	Local
Rural		SP	SP	SP	SP	SP		
Urban								

SP = Sample Panel Sections

**Coding Requirements for Fields 8, 9, and 10:**

**Value\_Numeric:** Enter the code that best describes the terrain according to the following table:

Code	Description
1	<b>Level:</b> Any combination of grades and horizontal or vertical alignment that permits heavy vehicles to maintain the same speed as passenger cars; this generally includes short grades of no more than 2 percent.
2	<b>Rolling:</b> Any combination of grades and horizontal or vertical alignment that causes heavy vehicles to reduce their speeds substantially below those of passenger cars but that does not cause heavy vehicles to operate at crawl speeds for any significant length of time.
3	<b>Mountainous:</b> Any combination of grades and horizontal or vertical alignment that causes heavy vehicles to operate at extremely low speeds for significant distances or at frequent intervals.

**Value\_Text:** No entry required. Available for State Use.

**Value\_Date:** No entry required. Available for State Use.

**Guidance:** When coding this Data Item, consider the terrain of roadway sections that extend beyond the Sample Panel section limits, rather than solely the grade characteristics associated with the Sample Panel section. The extended roadway section may be several miles long and contain a number of upgrades, downgrades, and level sections. For long samples, such as rural freeway samples extending between interchanges, the extended roadway section and the Sample Panel section may be the same.

**Figure 4.69 Level Terrain (Code '1') Example**



Source: PennDOT.

**Figure 4.70 Rolling Terrain (Code '2') Example**



Source: PennDOT.

**Figure 4.71 Mountainous Terrain (Code '3') Example**



Source: PennDOT.

## Item 46: Pct\_Pass\_Sight (Percent Passing Sight Distance)

**Description:** The percent of a Sample Panel section meeting the sight distance requirement for passing.

**Use:** For investment requirements modeling to calculate capacity and estimate running speed and for truck size and weight analysis purposes.

**Extent:** All rural, paved two-lane Sample Panel sections; optional for all other rural sections beyond the limits of the Sample Panel.

Functional System		1	2	3	4	5	6	7
	NHS	Int	OFE	OPA	MiA	MaC	MiC	Local
Rural	SP	SP	SP	SP	SP	SP		
Urban								

SP = Sample Panel Sections

### Coding Requirements for Fields 8, 9, and 10:

**Value\_Numeric:** Enter the percent of the section length that is striped for passing.

**Value\_Text:** No entry required. Available for State Use.

**Value\_Date:** No entry required. Available for State Use.

**Guidance:** This data item shall be reported for sample sections where passing is permitted in the inventory direction.

When there is a pronounced directional difference in permitted passing per the roadway striping, code for the more restrictive direction, regardless of the inventory direction.

## Item 64: NHS (National Highway System)

**Description:** A Roadway that is a component of the National Highway System (NHS).

**Use:** For analysis and mapping of NHS information and for defining extent for performance metric rating determination.

**Extent:** All roadways that are designated NHS routes (as of December 31<sup>st</sup> of the applicable data year), excluding ramps.

Functional System	1	2	3	4	5	6	7
	Int	OFE	OPA	MiA	MaC	MiC	Local
Rural	FE**	FE**	FE**	FE**	FE**	FE**	FE**
Urban	FE**	FE**	FE**	FE**	FE**	FE**	FE**

FE\*\* = Full Extent wherever data item is applicable SP = Sample Panel Sections

**Coding Requirements for Fields 8, 9, and 10:**

**Value Numeric:** Code the value that represents the type of NHS facility as follows:

Code	Description
1	Non Connector NHS
2	Major Airport
3	Major Port Facility
4	Major Amtrak Station
5	Major Rail/Truck Terminal
6	Major Inter City Bus Terminal
7	Major Public Transportation or Multi-Modal Passenger Terminal
8	Major Pipeline Terminal
9	Major Ferry Terminal

**Value\_Text:** No entry required. Available for State Use.

**Value\_Date:** Required. The Month and Year that the NHS section was officially approved.

**Guidance:** Code this data item for roadway segments that reside on an official NHS route.

Use Code '1' (Non-connector NHS) to identify STRAHNET connectors.

The States shall provide their NHS data to FHWA as part of their annual submittal until directed otherwise by the FHWA Office of Highway Policy Information. ~~Ultimately, the Office of Highway Policy Information will maintain this data item based on official requests for changes to the NHS per the FHWA Office of Planning. For each section, the States shall provide the FHWA approval date of NHS section. The approval dates are required to "time stamp" NHS section data to ensure consistent NHS extent is used for performance targets establishment, assessment and reporting to meet the requirements in 23 CFR 490.105(d)(3) 23 CFR 490.109 and 23 CFR 490.107(b).~~

Provided that FHWA assumes the role of maintaining these datasets in the future, the States will be responsible for submitting additions, deletions, and changes to these networks to FHWA for approval, as directed by the procedures outlined in the appropriate sections of Title 23 CFR, U.S.C., and FHWA regulations. ~~Once approved, the appropriate sections of the network(s) will be coded by FHWA with the approval date, at which time the change will become official. These datasets will be available to the States throughout the year for reference or to download, and will be provided to each State at~~

the end of the calendar year, which will serve as the official network for that calendar year.

## Item 65: STRAHNET\_Type (Strategic Highway Network)

**Description:** Roadway section that is a component of the Strategic Highway Network (STRAHNET).

**Use:** For analysis and mapping of STRAHNET information.

**Extent:** All roadways that are designated STRAHNET routes.

Functional System	1	2	3	4	5	6	7
	Int	OFE	OPA	MiA	MaC	MiC	Local
Rural	FE**	FE**	FE**	FE**	FE**	FE**	FE**
Urban	FE**	FE**	FE**	FE**	FE**	FE**	FE**

FE\*\* = Full Extent wherever data item is applicable

### Coding Requirements for Fields 8, 9, and 10:

**Value\_Numeric:** Code the value that represents the type of STRAHNET facility as follows:

Code	Description
1	Regular STRAHNET
2	Connector

**Value\_Text:** Military Base Name (if one exists).

**Value\_Date:** Optional. The Month and Year that the STRAHNET section was officially approved.

**Guidance:** Code this data item for roadway segments that reside on an official STRAHNET route.

The States shall provide their STRAHNET data to FHWA as part of their annual submittal until directed otherwise by the FHWA Office of Highway Policy Information. ~~Ultimately, the Office of Highway Policy Information will maintain this data item based on official requests for changes to the STRAHNET per the FHWA Office of Planning.~~

Provided that FHWA assumes the role of maintaining these datasets in the future, the States will be responsible for submitting additions, deletions, and changes to these networks to FHWA for approval, as directed by the procedures outlined in the appropriate sections of Title 23 CFR, U.S.C., and FHWA regulations. ~~Once approved, the appropriate sections of the network(s) will be coded by FHWA with the approval date, at~~

which time the change will become official. These datasets will be available to the States throughout the year for reference or to download, and will be provided to each State at the end of the calendar year, which will serve as the official network for that calendar year.

## Item 66: Truck (National Truck Network)

**Description:** Roadway section that is a component of the National Truck Network (NN) as defined by 23 CFR 658.

**Use:** For analysis and mapping of NN information.

**Extent:** All roadways that are designated NN routes.

Functional System	1	2	3	4	5	6	7
	Int	OFE	OPA	MiA	MaC	MiC	Local
Rural	FE**	FE**	FE**	FE**	FE**	FE**	FE**
Urban	FE**	FE**	FE**	FE**	FE**	FE**	FE**

FE\*\* = Full Extent wherever data item is applicable

### Coding Requirements for Fields 8, 9, and 10:

**Value\_Numeric:** Code the value that represents the type of truck facility as follows:

Code	Description
1	Section is on the National Network (NN)
2	Other State-designated truck route (optional)

**Value\_Text:** No entry required. Available for State Use.

**Value\_Date:** Optional. The Month and Year that the National Truck Network section was officially approved.

**Guidance:** Code this data item for roadway segments that reside on an official National Network route.

The States shall provide their NN data to FHWA as part of their annual submittal until directed otherwise by the FHWA Office of Highway Policy Information. Ultimately, the Office of Highway Policy Information will maintain this data item based on official requests for changes to the NN per the FHWA Office of Planning.



Provided that FHWA assumes the role of maintaining these datasets in the future, the States will be responsible for submitting additions, deletions, and changes to these networks to FHWA for approval, as directed by the procedures outlined in the appropriate sections of Title 23 CFR, U.S.C., and FHWA regulations. **Once approved, the appropriate sections of the network(s) will be coded by FHWA with the approval date, at which time the change will become official. These datasets will be available to the States throughout the year for reference or to download, and will be provided to each State at the end of the calendar year, which will serve as the official network for that calendar year.**

### Item 67: **Future\_Facility** (Future National Highway System)

**Description:** An unbuilt roadway (or section) of the National Highway System (NHS), including intermodal connectors.

**Use:** For analysis and mapping of future NHS information.

**Extent:** All roadways that are designated future NHS routes.

Functional System	1	2	3	4	5	6	7
	Int	OFE	OPA	MiA	MaC	MiC	Local
Rural	FE**	FE**	FE**	FE**	FE**	FE**	FE**
Urban	FE**	FE**	FE**	FE**	FE**	FE**	FE**

FE\*\* = Full Extent wherever data item is applicable

#### Coding Requirements for Fields 8, 9, and 10:

**Value\_Numeric:** Code as follows future NHS facilities as follows:

Code	Description
1	Un-built NHS section

**Value\_Text:** No entry required. Available for State Use.

**Value\_Date:** Optional. The Month and Year that the Future NHS section was officially approved.

**Guidance:** Code this data item for roadway segments that may ultimately reside (i.e. awaiting FHWA approval) on an official NHS route.

The States shall provide their future NHS data to FHWA as part of their annual submittal until directed otherwise by the FHWA Office of Highway Policy Information. **Ultimately,**



the Office of Highway Policy Information will maintain this data item based on official requests for changes to the future NHS per the FHWA Office of Planning.

Provided that FHWA assumes the role of maintaining these datasets in the future, the States will be responsible for submitting additions, deletions, and changes to these networks to FHWA for approval, as directed by the procedures outlined in the appropriate sections of Title 23 CFR, U.S.C., and FHWA regulations. Once approved, the appropriate sections of the network(s) will be coded by FHWA with the approval date, at which time the change will become official. These datasets will be available to the States throughout the year for reference or to download, and will be provided to each State at the end of the calendar year, which will serve as the official network for that calendar year.

## Item 69: Capacity (Capacity)

**Description:** The capacity of the roadway as estimated by the State DOT or local agency.

**Use:** For investment requirements modeling to calculate capacity, the cost allocation pavement model, and congestion, delay and other analyses.

**Extent:** All Sample Panel sections.

Functional System		1	2	3	4	5	6	7
	NHS	Int	OFE	OPA	MiA	MaC	MiC	Local
Rural	SP	SP	SP	SP	SP	SP		
Urban	SP	SP	SP	SP	SP	SP	SP	

SP = Sample Panel Sections

### Coding Requirements for Fields 8, 9, and 10:

**Data Item Value:** Enter the estimated capacity for a given roadway

**Value\_Text:** No entry required. Available for State Use.

**Value\_Date:** No entry required. Available for State Use.

**Guidance:** The capacity of a roadway facility is the maximum reasonable hourly rate at which vehicles can be expected to transverse a point or a uniform section of lane or roadway during a given time period under prevailing roadway, traffic, and control conditions. Reasonable expectancy is that the stated capacity can be achieved repeatedly. The *Highway Capacity Manual* (HCM) provides procedures, formulas, graphics, and tables in assessing roadway capacity.

This item should be estimated based on procedures consistent with the HCM. If this data item is not coded (i.e., not provided by the State DOT), FHWA will calculate this information per HCM-based procedures

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All urban and rural capacity for freeways and other multilane facilities is for the peak direction. If a rural facility has 2 or 3 lanes with one-way operation, it is considered to be a multilane facility for determining capacity. The capacity for rural facilities with 2 or 3 lanes and two-way operation is for both directions.

# Appendix D. Toll-ID Table

This table will be updated by FHWA as facilities are opened or closed.

State	HPMS Toll ID	Name of Toll Facility	New Facility
Alabama	1	Alabama River Parkway Bridge	
Alabama	2	Black Warrior Parkway Bridge	
Alabama	3	Emerald Mountain Expressway Bridge	
Alabama	4	Foley Beach Express	
Alabama	1001	Mobile Bay Ferry	
Alabama	1002	Gee's Bend Ferry	
Alaska	5	Whittier Tunnel	
Alaska	1003	Motor Vessel Leconte	
Alaska	1004	Motor Vessel Tustumena	
Alaska	1005	Motor Vessel Bob Ellis	
Alaska	1006	Motor Vessel Under Construction	
Alaska	1007	Motor Vessel Oral Freeman	
Alaska	1008	Motor Vessel Susitna	
Alaska	1009	Hovercraft Suna-X	
Alaska	1010	Motor Vessels Stikine/ Prince of Wales	
Alaska	1011	Motor Vessel Lituya	
Alaska	1012	Motor Vessel Fairweather	
Alaska	1013	Motor Vessel Chenega	
Alaska	1014	Motor Vessel Aurora	
Alaska	1015	Motor Vessel Taku	
Alaska	1016	Motor Vessel Matanuska	
Alaska	1017	Motor Vessel Kennicott	
Alaska	1018	Motor Vessel Columbia	
Alaska	1019	Motor Vessel Malaspina	
California	8	San Francisco-Oakland Bay Bridge	
California	9	Carquinez Bridge (2 Bridges)	
California	10	Martinez-Benicia Bridge	
California	11	Richmond-San Rafael Bridge	
California	12	Antioch (John A. Nedjedly) Bridge	
California	13	San Mateo-Hayward Bridge	
California	14	Dumbarton Bridge	
California	15	Golden Gate Bridge	

State	HPMS Toll ID	Name of Toll Facility	New Facility
California	16	I-15 Value Pricing Project	
California	17	Seventeen Mile Drive	
California	18	Route 91 Express Lanes	
California	19	Eastern Trans. Corridor (Routes 261, 241, & 133)	
California	20	Foothill Trans. Corridor (Route 241)	
California	21	San Joaquin Hills Trans. Corridor (Route 73)	
California	23	Route 125	
California	297	I-680 SMART Carpool Lanes	
California	298	I-880/SR 237 Express Connector	
California	313	I-110 Express Lanes	
California	338	I-10 Express Lanes, from Alameda St/Union Station to I-605 (14 miles), Los Angeles	*
California	1020	Balboa Island	
Colorado	24	HOV/Tolled Express Lanes	
Colorado	25	Northwest Parkway	
Colorado	26	E-470	
Colorado	299	Pikes Peak Toll Road	
Colorado	337	US 36 Bus Rapid Transit/HOV/Express Lanes	*
Connecticut	1021	Rocky Hill - Glastonbury	
Connecticut	1022	Chester - Hadlyme	
Connecticut	1023	Bridgeport - Port Jefferson	
Connecticut	1024	New London - Orient	
Connecticut	1025	New London - Fishers Island	
Connecticut	1026	New London - Block Island	
Delaware	27	Delaware Memorial Bridge	
Delaware	28	John F. Kennedy Memorial Highway (Delaware Turnpike)	
Delaware	29	SR-1	
Delaware	1027	Lewes - Cape May	
Florida	30	Sunshine Skyway Bridge (I-275)	
Florida	31	Card Sound Bridge	
Florida	32	Mid-Bay Bridge	
Florida	33	Pinellas Bayway System Bridge	
Florida	34	Pensacola Beach Bridge (Bob Sykes Bridge)	
Florida	36	Broad Causeway	
Florida	37	Rickenbacker Causeway (SR-913)	
Florida	40	Sanibel Causeway	
Florida	41	Cape Coral Bridge	

State	HPMS Toll ID	Name of Toll Facility	New Facility
Florida	42	Midpoint Memorial Bridge	
Florida	43	Garcon Point Bridge	
Florida	44	Alligator Alley (Everglades Parkway)	
Florida	45	East-West (Dolphin) Expressway	
Florida	46	Florida Turnpike - Mainline	
Florida	47	Beachline East (Central Florida Expressway)	
Florida	48	Beachline Expressway	
Florida	49	Beachline West	
Florida	50	Homestead Extension of Florida Turnpike (HEFT)	
Florida	51	South Dade (Don Shula) Expressway	
Florida	52	Lee Roy Selmon Crosstown Expressway	
Florida	53	Holland East-West Expressway	
Florida	54	Sawgrass Expressway (SR 869)	
Florida	55	Miami Airport Expressway	
Florida	56	Veterans Expressway (SR 589)	
Florida	57	Seminole Expressway	
Florida	58	Central Florida Greenway (SR-417)	
Florida	59	Daniel Webster - Western Beltway Part C	
Florida	60	Osceola Parkway	
Florida	61	Southern Connector Extension	
Florida	62	Gratigny Parkway	
Florida	63	Suncoast Parkway (SR 589)	
Florida	64	Polk Parkway (SR 570)	
Florida	300	Hammock Dunes Parkway	
Florida	301	Goldenrod Road	
Florida	302	I-95 HOT lanes (North-South Expressway)	
Florida	303	John Land - Apopka Expressway (SR 414)	
Florida	314	Venetian Causeway	
Florida	315	Snapper Creek Expressway	
Florida	318	Gasparilla Bridge	
Florida	339	I-4/Selmon connector	*
Florida	340	I-595 Express	*
Georgia	67	Georgia 400 Extension	
Illinois	69	Wabash Memorial Bridge	
Illinois	70	Frank E. Bauer Bridge	
Illinois	71	Fort Madison Bridge	
Illinois	72	Ronald Reagan Memorial Tollway	

State	HPMS Toll ID	Name of Toll Facility	New Facility
Illinois	73	Veterans Memorial Tollway	
Illinois	74	Jane Addams Memorial Tollway	
Illinois	75	Chicago Skyway	
Illinois	76	Tri-State Tollway	
Illinois	77	East-West Tollway (SR-56 Connector)	
Illinois	304	St. Francisville Bridge - Old Wabash Cannonball Railroad Bridge	
Illinois	1028	Calhoun Ferry Company	
Illinois	1029	John Balmann; Canton, MO	
Illinois	1030	Calhoun Ferry Company	
Illinois	1031	New Bourbon Regional Port Authority	
Illinois	1032	Grafton Ferry Boat Company	
Indiana	68	New Harmony Bridge	
Indiana	69	Wabash Memorial Bridge	
Indiana	78	Indiana East-West Toll Road	
Indiana	304	St. Francisville Bridge - Old Wabash Cannonball Railroad Bridge	
Iowa	70	Frank E. Bauer Bridge	
Iowa	71	Fort Madison Bridge	
Iowa	80	Bellevue Bridge	
Iowa	81	Decatur Bridge	
Iowa	82	Plattsmouth Bridge	
Iowa	1033	Cassville Village, WI	
Kansas	83	Kansas Turnpike	
Kentucky	1034	John and Bess Speer	
Kentucky	1035	Anderson Boat Co	
Kentucky	1036	Augusta Ferry Authority	
Louisiana	87	Lake Pontchartrain Causeway	
Louisiana	88	Greater New Orleans Mississippi River/Crescent City Connection Bridge	
Louisiana	89	Avery Island	
Louisiana	317	LA 1 Elevated Highway/Bridge Leeville to Port Fouchon	
Louisiana	1122	Algiers/Canal St (pedestrian only, no vehicles)	*
Louisiana	1123	Cameron	*
Louisiana	1124	Duty/Enterprise	*
Louisiana	1125	Lowers Algiers/Chalmette	*
Louisiana	1126	Plaquemine	*
Maine	90	Maine Turnpike	
Maine	1037	Margaret Chase Smith	
Maine	1038	Captain Henry Lee	

State	HPMS Toll ID	Name of Toll Facility	New Facility
Maine	1039	Captain Henry Lee	
Maine	1040	Captain Neal Burgess	
Maine	1041	Captain Charles Philbrook	
Maine	1042	Governor Curtis	
Maine	1043	North Haven	
Maine	1044	Everett Libby	
Maine	1045	Machigonne II	
Maine	1046	Maquoit II	
Maine	1047	Island Romance	
Maine	1048	Aucocisco III	
Maine	1049	Bay Mist	
Maine	1050	The 'Cat	
Maine	1051	The 'Cat	
Maryland	91	Harry W. Nice Memorial Bridge	
Maryland	92	Baltimore Harbor Tunnel (2 Tubes)	
Maryland	93	Fort McHenry Tunnel (4 Tubes)	
Maryland	94	Millard Tydings Bridge	
Maryland	95	Hatem Bridge	
Maryland	96	William Preston Lane, Jr. Bridge	
Maryland	97	Francis Scott Key Bridge	
Maryland	98	John F. Kennedy Memorial Highway - Express Toll Lanes (ETL)	
Maryland	99	Intercounty Connector (ICC) (MD 200)	
Maryland	1052	Captain Gilbert Clark	
Maryland	1053	Whites Ferry, Inc.	
Massachusetts	100	Ted Williams Tunnel	
Massachusetts	101	Callahan & Sumner Tunnels	
Massachusetts	102	Maurice J. Tobin Bridge	
Massachusetts	103	Massachusetts Turnpike	
Massachusetts	1054	Woods Hole	
Massachusetts	1055	Hyannis	
Michigan	104	Mackinac Bridge	
Michigan	105	Sault Ste. Marie Bridge	
Michigan	106	Blue Water Bridge	
Michigan	107	New Blue Water Bridge	
Michigan	108	Grosse Isle Bridge	
Michigan	109	Ambassador Bridge	
Michigan	110	Detroit-Windsor Tunnel	

State	HPMS Toll ID	Name of Toll Facility	New Facility
Michigan	1056	Harson's Island	
Michigan	1057	St. Mary's River Ferry System	
Michigan	1058	St. Mary's River Ferry System	
Michigan	1059	St. Mary's River Ferry System	
Michigan	1060	Ironton	
Michigan	1061	Charlevoix/Beaver Island	
Michigan	1062	Cheboygan	
Michigan	1063	Algonac	
Michigan	1064	Marine City	
Michigan	1065	Detroit Windsor Truck Ferry	
Michigan	1066	SS Badger (Ludington - Manitowoc)	
Michigan	1067	Lake Express	
Minnesota	111	12th/15th Avenue, N Bridge	
Minnesota	112	International Falls Bridge	
Minnesota	113	MNPass	
Missouri	114	Lake of the Ozark Com Bridge	
Missouri	1068	Akers	
Missouri	1069	Mississippi County Ferry	
Nebraska	80	Bellevue Bridge	
Nebraska	81	Decatur Bridge	
Nebraska	82	Plattsmouth Bridge	
Nevada	115	Valley of Fire Road	
New Hampshire	116	Cheshire Bridge	
New Hampshire	117	Blue Star Turnpikes	
New Hampshire	118	F. E. Everett Turnpike	
New Hampshire	119	Henry Bourque Highway (Route 3)	
New Hampshire	120	Spaulding Turnpike	
New Hampshire	121	Mt. Washington Summit Road	
New Jersey	27	Delaware Memorial Bridge	
New Jersey	122	George Washington Bridge	
New Jersey	123	Goethals Bridge	
New Jersey	124	Holland Tunnel (2 Tubes)	
New Jersey	125	Bayonne Bridge	
New Jersey	126	Outerbridge Crossing Bridge	



State	HPMS Toll ID	Name of Toll Facility	New Facility
New Jersey	127	Lincoln Tunnel (3 Tubes)	
New Jersey	128	I-78 Toll Bridge	
New Jersey	129	Delaware Water Gap Bridge	
New Jersey	130	Ben Franklin Bridge	
New Jersey	131	Walt Whitman Bridge	
New Jersey	132	New Jersey and Pennsylvania Turnpike Bridge	
New Jersey	133	Dingman's Ferry Bridge	
New Jersey	134	Tacony-Palmyra Bridge	
New Jersey	135	Burlington-Bristol Bridge	
New Jersey	136	Trenton-Morrisville Bridge	
New Jersey	137	Easton-Phillipsburg Bridge	
New Jersey	138	Portland-Columbia Bridge	
New Jersey	139	Milford-Montague Bridge	
New Jersey	140	New Hope-Lambertville Bridge	
New Jersey	141	Betsy Ross Bridge	
New Jersey	142	Commodore John Barry Bridge	
New Jersey	143	Margate Bridge	
New Jersey	144	Beesleys Point Bridge	
New Jersey	145	Townsend's Inlet Bridge	
New Jersey	146	Grassy Sound Bridge	
New Jersey	147	Middle Thorofare Bridge	
New Jersey	148	Corson's Inlet Bridge	
New Jersey	150	Newark Bay Extension	
New Jersey	151	Pennsylvania Turnpike Extension	
New Jersey	152	New Jersey Turnpike (Main Line)	
New Jersey	153	New Jersey 495	
New Jersey	154	Garden State Parkway	
New Jersey	155	Atlantic City Expressway	
New Jersey	156	Ocean City-Longport Bridge	
New York	122	George Washington Bridge	
New York	123	Goethals Bridge	
New York	124	Holland Tunnel (2 Tubes)	
New York	125	Bayonne Bridge	
New York	126	Outerbridge Crossing Bridge	
New York	127	Lincoln Tunnel (3 Tubes)	
New York	157	South Grand Island Bridge	
New York	158	North Grand Island Bridge	

State	HPMS Toll ID	Name of Toll Facility	New Facility
New York	159	Tappan Zee Bridge	
New York	160	Newburgh-Beacon Bridge	
New York	161	Triborough Bridge	
New York	162	Bronx-Whitestone Bridge	
New York	163	Throgs Neck Bridge	
New York	164	Verrazano-Narrows Bridge	
New York	165	Queens Midtown Tunnel (2 Tubes)	
New York	166	Brooklyn Battery Tunnel	
New York	167	Thousand Islands Bridge	
New York	168	Lewston-Queenston Bridge	
New York	169	Castleton-on-Hudson Bridge	
New York	170	Kingston-Rhinecliff Bridge	
New York	171	Rip Van Winkle Bridge	
New York	172	Mid-Hudson Bridge	
New York	173	Bear Mountain Bridge	
New York	174	Atlantic Beach Bridge	
New York	175	Henry Hudson Bridge	
New York	176	Marine Parkway-Gil Hodges Memorial Bridge	
New York	177	Cross Bay Veterans Memorial Bridge	
New York	178	Peace Bridge	
New York	179	Ogdensburg-Prescott Bridge	
New York	180	Rainbow Bridge	
New York	181	Whirlpool Rapids Bridge	
New York	182	Seaway International Bridge (Cornwall-Massena)	
New York	183	Gov. Thomas E. Dewey Thruway (Main Line)	
New York	184	Berkshire Section	
New York	185	Niagara Section	
New York	186	New England Section	
New York	187	Gov. Thomas E. Dewey Thruway Berkshire Section	
New York	188	Gov. Thomas E. Dewey Thruway Gardenstate Parkway Connection	
New York	189	Whiteface Mountain Vet. Memorial Highway	
New York	190	Prospect Mountain Vet. Memorial Highway	
New York	1070	Shelter Island	
New York	1071	Shelter Island	
New York	1072	Port Kent	
New York	1073	Essex	
New York	1074	Cumberland Head	

State	HPMS Toll ID	Name of Toll Facility	New Facility
New York	1075	Fort Ticonderoga	
New York	1076	Cape Vincent	
North Carolina	193	Triangle Expressway	
North Carolina	1077	Ocracoke - Swan Quarter	
North Carolina	1078	Cedar Island - Ocracoke	
North Carolina	1079	Currituck - Corolla	
North Carolina	1080	Southport Fort Fisher	
North Dakota	111	12th/15th Avenue, N Bridge	
Ohio	195	Newell-East Liverpool Bridge	
Ohio	196	Ohio Turnpike	
Ohio	287	Parkersburg Memorial Bridge	
Ohio	1081	Miller Boat Line	
Ohio	1082	Kelly's Island Ferry	
Ohio	1083	M.V. Pelee Island	
Oklahoma	197	Turner Turnpike	
Oklahoma	198	Will Rogers Turnpike	
Oklahoma	199	H.E. Bailey Turnpike	
Oklahoma	200	Indian Nation Turnpike	
Oklahoma	201	Muskogee Turnpike	
Oklahoma	202	Cimarron Turnpike	
Oklahoma	203	John Kilpatrick Turnpike	
Oklahoma	204	Creek Turnpike	
Oklahoma	205	Chickasaw Turnpike	
Oklahoma	206	Cherokee Turnpike	
Oregon	207	Bridge of the Gods	
Oregon	284	Hood River Bridge	
Oregon	1084	Wheatland Ferry	
Oregon	1085	Buena Vista Ferry	
Oregon	1086	Canby Ferry	
Pennsylvania	128	I-78 Toll Bridge	
Pennsylvania	129	Delaware Water Gap Bridge	
Pennsylvania	130	Ben Franklin Bridge	
Pennsylvania	131	Walt Whitman Bridge	
Pennsylvania	132	New Jersey and Pennsylvania Turnpike Bridge	
Pennsylvania	133	Dingman's Ferry Bridge	
Pennsylvania	134	Tacony-Palmyra Bridge	
Pennsylvania	135	Burlington-Bristol Bridge	

State	HPMS Toll ID	Name of Toll Facility	New Facility
Pennsylvania	136	Trenton-Morrisville Bridge	
Pennsylvania	137	Easton-Phillipsburg Bridge	
Pennsylvania	138	Portland-Columbia Bridge	
Pennsylvania	139	Milford-Montague Bridge	
Pennsylvania	140	New Hope-Lambertville Bridge	
Pennsylvania	141	Betsy Ross Bridge	
Pennsylvania	142	Commodore John Barry Bridge	
Pennsylvania	208	Pennsylvania Turnpike	
Pennsylvania	209	Pennsylvania Turnpike Eastern Extension	
Pennsylvania	210	Pennsylvania Turnpike Northeastern Extension	
Pennsylvania	211	Pennsylvania Turnpike Western Extension	
Pennsylvania	212	Pennsylvania Turnpike Delaware River Extension	
Pennsylvania	213	Mosey Wood Toll Road	
Pennsylvania	214	Greensburg Bypass	
Pennsylvania	215	Beaver Valley Expressway	
Pennsylvania	216	Monvalley Expressway	
Pennsylvania	217	Mon-Fayette Expressway	
Pennsylvania	310	Calhoun Street Bridge	
Pennsylvania	311	Toll Road 576 (Southern Beltway)	
Pennsylvania	1088	Fredericktown	
Pennsylvania	1089	Millersburg	
Puerto Rico	289	Teodoro Moscoso Bridge	
Puerto Rico	290	Luis A. Ferre Expressway (PR-52)	
Puerto Rico	291	De Diego Expressway (PR-22)	
Puerto Rico	292	PR-53 Expressway: José Celso Barbosa	
Puerto Rico	293	PR-53 Expressway: José Dávila Mosanto	
Puerto Rico	294	Rafael Martínez Nadal Expressway (PR-20)	
Puerto Rico	295	Expreso Rio Hondo (PR-5)	
Puerto Rico	296	Roberto Sánchez Vilella Expressway (PR-66)	
Puerto Rico	1117	Fajardo - Vieques	
Puerto Rico	1118	Fajardo - Culebra	
Puerto Rico	1119	Vieques - Culebra	
Puerto Rico	1120	San Juan-Cataño	
Puerto Rico	1121	San Juan-Hato Rey	
Rhode Island	218	Newport Bridge	
Rhode Island	333	Sakonnet River Bridge-Managed by RI Turnpike and Bridge Authority (RITBA)	
Rhode Island	1090	Bristol	

State	HPMS Toll ID	Name of Toll Facility	New Facility
Rhode Island	1091	Point Judith	
South Carolina	219	Southern Connector	
South Carolina	221	Cross Island Parkway (U.S. 278)	
Tennessee	1092	Cumberland City	
Tennessee	1093	Benton-Houston	
Tennessee	1094	Helms	
Texas	222	Addison Airport Tunnel	
Texas	223	Mountain Creek Lake Bridge	
Texas	224	Sam Houston Ship Channel Bridge	
Texas	225	San Luis-Vacek Pass Bridge	
Texas	226	Gateway International Bridge	
Texas	227	B & M Bridge	
Texas	228	Free Trade Bridge	
Texas	229	Veterans International Bridge	
Texas	230	Weslaco-Progreso International Bridge	
Texas	231	Pharr-Reynosa Bridge	
Texas	232	McAllen-Hidalgo-Reynosa Bridge	
Texas	233	Rio Grande City-Camargo Bridge	
Texas	234	Roma-Ciudad Miguel Aleman Bridge	
Texas	235	Juarez-Lincoln Bridge	
Texas	236	Laredo International Bridge (Convent St.)	
Texas	237	World Trade Bridge	
Texas	238	Laredo-Columbia Solidarity Bridge	
Texas	239	Eagle Pass Bridge # 1	
Texas	240	Camino Real International Bridge	
Texas	241	Del Rio-Ciudad Acuna International Bridge	
Texas	242	Presidio Bridge	
Texas	243	Ysleta-Zaragosa Bridge	
Texas	244	Good Neighbor Bridge (Stanton St.)	
Texas	245	Paso Del Norte Bridge (Santa Fe St.)	
Texas	246	Katy I-10 QuickRide and U.S. 290	
Texas	247	Dallas North Tollway	
Texas	248	Sam Houston Tollway - East	
Texas	249	Sam Houston Tollway - West	
Texas	250	Sam Houston Tollway - SW Belt	
Texas	251	Sam Houston Tollway - SE Belt	
Texas	252	Hardy Toll Road	

State	HPMS Toll ID	Name of Toll Facility	New Facility
Texas	253	Westpark Tollway	
Texas	254	President George Bush Turnpike	
Texas	255	Camino Colombia	
Texas	256	US 183-A	
Texas	257	Fort Bend Parkway Extension	
Texas	258	SH 45	
Texas	259	SH 45 SE	
Texas	260	SH 130	
Texas	261	Loop 49	
Texas	262	Sam Rayburn Tollway	
Texas	263	Loop 1	
Texas	264	Central Texas Turnpike	
Texas	266	Harris County Beltway 8	
Texas	305	Lewisville Lake Bridge	
Texas	306	Donna International Bridge	
Texas	307	I-635 LBJ Managed Lanes, Dallas/Ft. Worth	
Texas	308	NTE - (I-820/SH 183 Managed Lanes - Ft. Worth)	
Texas	319	Anzalduas International	
Texas	320	Tornillo-Guadalupe	
Texas	321	Chisholm Trail Parkway	
Texas	322	Sam Huston Tollway- NE	
Texas	323	DFW Connector	
Texas	324	SH99 (Grand Parkway) - Segment I-2	
Texas	325	SH99 (Grand Parkway) - Segment E	
Texas	326	SH99 (Grand Parkway) - Segments F-1, F-2, and G	
Texas	327	SH 130 Seg 5/6	
Texas	328	Loop 375 (Cesar Chavez Managed Lanes)	
Texas	329	Tom Landry Expressway (I-30)	
Texas	330	SH 550	
Texas	331	Manor Expressway - Phase 1	
Texas	332	Manor Expressway - Phase 2	
Texas	341	IH 45 North (North Freeway) HOV/HOT Lane	*
Texas	342	IH 45 South (Gulf Freeway ) HOV/HOT Lane	*
Texas	343	US 59 (Southwest Freeway) HOV/HOT lane	*
Texas	344	US 59 (Eastex Freeway) HOV/HOT lane	*
Texas	345	US 290 (Northwest Freeway) HOV/HOT lane	*
Texas	1095	Los Ebanos Ferry	

State	HPMS Toll ID	Name of Toll Facility	New Facility
Utah	267	Express Lanes (Salt Lake City)	
Utah	268	Adams Avenue Parkway	
Utah	1096	Charles Hall	
Vermont	116	Cheshire Bridge	
Vermont	269	Equinox Sky Line Drive	
Vermont	270	Mt. Mansfield Toll Road	
Vermont	271	Burke Mountain Toll Road	
Virgin Islands	1116	Trans Services - St. John	
Virginia	91	Harry W. Nice Memorial Bridge	
Virginia	272	Boulevard (SR 161) Bridge	
Virginia	273	Jordan Bridge	
Virginia	274	Chesapeake Bay (US 13) Bridge-Tunnel	
Virginia	275	George P. Coleman Bridge (U.S. 17)	
Virginia	276	Powhite Parkway Extension (Route 76)	
Virginia	277	Downtown Expressway (Route 195)	
Virginia	279	Washington-Dulles Access Toll Road/Route 267 (Hirst-Brault Expressway)	
Virginia	280	Dulles Greenway (Hirst-Brault Expressway)	
Virginia	281	Chesapeake Expressway (Route 168)	
Virginia	282	Pocahontas Parkway (Route 895)	
Virginia	312	I-495 HOT lanes	
Virginia	334	I-95 Stafford County MP 145.47 to MP 148.18 - Reversible Hot Lane	
Virginia	334	I-95 Prince William County MP 148.18 to MP 161.40 - Reversible Hot Lane	
Virginia	334	I-95 Fairfax County MP 161.40 to MP 169.66 - Reversible Hot Lane	
Virginia	334	I-395 Fairfax County MP 0 to MP 2.73 - HOV Reversible Lane	
Virginia	335	I-264 City of Norfolk MP 6.07 to MP 7.36 - downtown Tunnel & Approaches	
Virginia	336	U.S. Route 58 City of Norfolk - MP 488.54 to MP 490.05 - Midtown tunnel & approaches	
Washington	207	Bridge of the Gods	
Washington	284	Hood River Bridge	
Washington	285	Tacoma Narrows Bridge	
Washington	309	SR 167 - HOT Lanes	
Washington	316	Albert D. Rosellini Bridge	
Washington	1087	Puget Island Ferry	
Washington	1097	Seattle - Bainbridge Island	
Washington	1098	Seattle - Bremerton	
Washington	1099	Edmonds - Kingston	
Washington	1100	Port Townsend	

State	HPMS Toll ID	Name of Toll Facility	New Facility
Washington	1101	Mukilteo - Clinton	
Washington	1102	Pt. Defiance - Tahlequah	
Washington	1103	Fauntleroy - Southworth	
Washington	1104	Fauntleroy - Vashon	
Washington	1105	Southworth - Vashon	
Washington	1106	Anacortes - San Juan Isles	
Washington	1107	Guemes Island	
Washington	1108	Lummi Island	
Washington	1109	Steilacoom	
Washington	1110	Wahkiakum Co. Public Works Ferry	
Washington	1111	Anacortes - Sidney	
Washington	1112	Port Angeles	
West Virginia	195	Newell-East Liverpool Bridge	
West Virginia	217	Mon-Fayette Expressway	
West Virginia	287	Parkersburg Memorial Bridge	
West Virginia	288	West Virginia Turnpike	
West Virginia	1113	Sistersville	
Wisconsin	1114	Washington Island	
Wisconsin	1115	Bayfeld	

Toll IDs 1001-1126 denote ferry facilities

New Harmony Bridge (HPMS Toll ID #68) was closed on 5/2012

Sakonnet River Bridge (Toll ID #333) removed due to State legislative action