XRMS

XRMSSEG

ROADWAY INVENTORY SEGMENTS

Agency Responsible: Bureau of Maintenance & Operations

Contact: State road data: Bureau of Planning and Research, Geographic Information Division, 772-3305

Non-state data: Bureau of Planning and Research, Transportation Planning Division, 787-6046

Limits of Distribution: PennDOT Business Partners Only

Feature Type: Linear

Description of Content:

This table contains information the location and physical characteristics of each active roadway segment. It also includes all Pennsylvania Turnpike segments, and all non-state federal aid roads.

GIS

XRMS DATABASE GUIDE

The Roadway Management System (RMS) is the Department's centralized data processing application system for managing the Pennsylvania's state highway assets. The RMS databases record the location, physical characteristics, usage and administrative attributes of all state roads. All RMS-inventoried road segments are recorded in GIS.

Each of the RMS tables in GIS contains location data so that its attributes can be used in MGE dynamic segmentation applications without joining another table. The location data in each record mark the range (beginning and ending points) of its attributes.

GIS Database	Tables	of RMS	Data
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Table Name	Non- SR	Description	Occurrence
xrmsseg	4	Road segment inventory; location and physical characteristics of road segment	One row per segment
xrmsadmin	4	Classification of the road segment for administrative and reporting purposes	One row for each contiguous section of a route over which all the administrative attributes remain unchanged
rmstraffic	4	Traffic volumes; measured and calculated amounts of vehicle traffic that travel the section of road	One row for each contiguous section of a route over which all the traffic volume attributes remain unchanged

4 Turnpike and non-state federal aid data is also available in these tables.

1. <u>DEPARTMENT DATA</u>:

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RMSSEG - Road Segments				
PG	FIELD	ТҮРЕ	WIDTH	H DESCRIPTION
5	ST_RT_NO	С	4	State route number
6	CTY_CODE	С	2	County code
7	DISTRICT_NO	С	2	PennDOT district number
8	JURIS	С	1	Jurisdiction
9	SEG_LNGTH_FEET	Ν	9.1	Segment length in feet
10	SEQ_NO	Ν	9	Sequence number (internal use)
11	SEG_NO	С	4	Segment number
12	SUB_ROUTE	Ν	4	Used for sequential numbering of
				discontinuous sections
13	YR_BUILT	Ν	4	Year built
14	YR_RESURF	Ν	4	Year of last resurfacing
15	DIR_IND	С	1	Directional indicator
16	FAC TYPE	С	1	One-way indicator
17	TOTAL WIDTH	Ν	2	Total paved width of roadway
18	SURF TYPE	С	2	Surface type
19	LANE CNT	Ν	2	Number of lanes
20	PARK LANE	С	1	Parking lane indicator
21	DIVSR TYPE		С	1 Type of barrier or median on
divide	ed		-	road segments
22	DIVSR WIDTH	Ν	3	Width of divisor in feet
23	COND DATE	С	8	Pavement survey date
24	ROUGH INDX	Ν	3	International roughness index
	_			coefficient (IRI) rating
25	CUR_AADT	Ν	6	Current annual average daily traffic
26	ACCESS_CTRL	С	1	Access control code
27	TOLL_CODE	С	1	Toll indicator
28	STREET_NAME	С	25	Street name
29	TRAF_RT_NO_PREFIX	С	2	Traffic route number prefix
30	TRAF_RT_NO	С	3	Traffic route number
31	TRAF_RT_NO_SUF	С	1	Traffic route number suffix
32	BGN_DESC	С	20	Begin terminus (descriptive)
33	END_DESC	С	20	End terminus (descriptive)
34	MAINT_RESPOND_IND	С	2	Maintenance responsibility
35	URBAN RURAL	С	1	Urban/rural code
36	SPECIAL SYS	С	2	Special system code
37	NHS IND	С	1	National Highway System code
38	TANDEM TRLR TRK	С	1	Truck/parkway network indicator
39	ACCESS TAND TRLR	С	1	Truck route network indicator
40	INTERST NETWRK IND	С	1	Interstate network
41	NHPN_IND	C	1	National Highway Planning Network
42	HPMS_SECTN_ID	С	12	HPMS section ID

43	NORM_ADMIN_BGN	С	8	Beginning segment/offset of RMSADMIN record related to this segment
44	NORM_TRAFF_BGN	C	8	Beginning segment/offset of RMSTRAFFIC record related to this
45	NORM_SHLD_BGN	С	8	segment Beginning segment/offset of RMSPAVEMENT record related to this segment
46	MSLINK	Ν	10	MGE link ID
47	MAPID	N	10	MGE map ID
48	NLF_ID	N	10	Network linear feature id.
49	SIDE_IND	С	1	Right/left side indicator
50	NLF_CNTL_BGN	Ν	9.1	Distance in feet from start of NLF to segment begin point
51	NLF_CNTL_END	Ν	9.1	Distance in feet from start of NLF to segment end point
52	CUM_OFFSET_BGN	Ν	9.1	Cumulative offset segment beginning measurement in feet
53	CUM_OFFSET_END	Ν	9.1	Cumulative offset segment ending measurement in feet
54	KEY UPDATE	С	8	Date of last update
55	ATTR UPDATE	С	8	Date of last update
56	OVERALL_PVMNT_IDX	Ν	3	Overall pavement index
57	SEG_STATUS	С	1	Segment status – open or under construction
58	PAVMT_CYCLE	Ν	1	Pavement survey cycle
59	DRAIN_CYCLE	Ν	1	Drainage survey cycle
60	GDRAIL_CYCLE	Ν	1	Guardrail survey cycle

Database Field:



Field Type: Character (4)

Field Descriptions: State route number

Field Attributes:

STATE ROUTE NUMBER

Database Field:



Field Type: Character (2)

Field Descriptions: County Number Code

01	ADAMS	35	LACKAWANNA
02	ALLEGHENY	36	LANCASTER
03	ARMSTRONG	37	LAWRENCE
04	BEAVER	38	LEBANON
05	BEDFORD	39	LEHIGH
06	BERKS	40	LUZERNE
07	BLAIR	41	LYCOMING
08	BRADFORD	42	MCKEAN
09	BUCKS	43	MERCER
10	BUTLER	44	MIFFLIN
11	CAMBRIA	45	MONROE
12	CAMERON	46	MONTGOMERY
13	CARBON	47	MONTOUR
14	CENTRE	48	NORTHAMPTON
15	CHESTER	49	NORTHUMBERLAND
16	CLARION	50	PERRY
17	CLEARFIELD	67	PHILADELPHIA
18	CLINTON	51	PIKE
19	COLUMBIA	52	POTTER
20	CRAWFORD	53	SCHUYKILL
21	CUMBERLAND	54	SNYDER
22	DAUPHIN	55	SOMERSET
23	DELAWARE	56	SULLIVAN
24	ELK	57	SUSQUEHANNA
25	ERIE	58	TIOGA
26	FAYETTE	59	UNION
27	FOREST	60	VENANGO
28	FRANKLIN	61	WARREN
29	FULTON	62	WASHINGTON
30	GREENE	63	WAYNE
31	HUNTINGDON	64	WESTMORELAND
32	INDIANA	65	WYOMING
33	JEFFERSON	66	YORK
34	JUNIATA		

Database Field:



Field Type: Character (2)

Field Descriptions: PennDOT District number

Field Attributes:

DISTRICT NUMBER

Database Field:



Field Type: Character (1)

Field Descriptions: Jurisdiction ownership

- 1 STATE
- 2 TURNPIKE
- 4 LOCAL ROADS
- 5 NON-STATE FEDERAL AID ROADS
- 6 TOLL BRIDGES

Database Field:



Field Type: Numeric (9 + 1 decimal place)

Field Descriptions: Segment length in feet

Field Attributes:

SEGMENT LENGTH IN FEET

Database Field:



Field Type: Numeric $\overline{(9)}$

Field Descriptions: Internal PennDOT sequence number

Field Attributes:

SEQUENCE NUMBER

Database Field:



Field Type: Character (4)

Field Descriptions: PennDOT route segment number

Field Attributes:

SEGMENT NUMBER

Database Field:



Field Type: Numeric (4)

Field Descriptions: Used for sequential numbering of discontinuous sections

Field Attributes:

SEQUENTIAL ID NUMBER

Database Field:



Field Type: Numeric (4)

Field Descriptions: Year segment built

Field Attributes:

YEAR

Database Field:



Field Type: Numeric (4)

Field Descriptions: Year of last resurfacing

Field Attributes:

YEAR

Database Field:



Field Type: Character (1)

Field Descriptions: Directional indicator

Ν	NORTH
S	SOUTH
E	EAST
W	WEST
В	BOTH

Database Field:



Field Type: Character (1)

Field Descriptions: One - way indicator

- 1 ONE-WAY
- 2 TWO_WAY

Database Field:



Field Type: Numeric (2)

Field Descriptions: Total paved width measurement from edge of pavement to edge of pavement, including any parking lanes

Field Attributes:

WIDTH IN FEET

Database Field:



Field Type: Character (2)

Field Descriptions: Surface type

- 20 EARTH UNIMPROVED
- 30 EARTH GRADED/DRAINED
- 40 STABILIZED SOIL, GRAVEL, OR STONE
- 51 BITUMINOUS SURFACE TREATMENT
- 52 MIXED BITUMINOUS INTERMEDIATE TYPE
- 53 BITUM PENETRATION INTERMEDIATE TYPE
- 61 BITUMINOUS PAVEMENT HIGH TYPE
- 62 BITUMINOUS PAVEMENT ON PCC BASE
- 71 PLAIN PORTLAND CEMENT CONCRETE BASEMENT
- 72 REINFORCED PORTLAND CEMENT CONCRETE
- 73 CONTINUALLY REINFORCED CONCRETE
- 74 CONCRETE OVER CONCRETE BONDED
- 75 CONCRETE OVER CONCRETE UNBONDED
- 76 CONCRETE OVER BITUMINOUS PAVEMENT
- 80 BRICK/BLOCK PAVEMENT
- 98 BRRIDGE DECK
- 99 UNDEFINED SURFACE TYPE

Database Field:



Field Type: Numeric (2)

Field Descriptions: Number of lanes on segment. Does not include turning lanes, passing lanes

Field Attributes:

NUMBER OF LANES

Database Field:



Field Type: Character (1)

Field Descriptions: Parking lane indicator

- L LEFT SIDE PARKING ALLOWED
- R RIGHT SIDE PARKING ALLOWED
- B BOTH SIDES PARKING ALLOWED
- N NO PARKING ALLOWED
- C CENTER PARKING ALLOWED
- 3 LEFT, RIGHT, AND CENTER PARKING ALLOWED

Database Field:



Field Type: Character (1)

Field Descriptions: Type of barrier or median on divided road segments

- 0 NONE (NOT DIVIDED)
- 1 PAINT
- 2 FIXED BARRIER (MAN MADE)
- 3 EARTH
- 4 PAINT MORE THAN 4 FEET WIDE
- 5 CURB
- 6 CITY BLOCK
- 7 NATURAL BARRIER (TREES, FILL, ETC.)
- 8 MOUNTABLE CURB

Database Field:



Field Type:

Numeric (3)

Field Descriptions: Width of divisor in feet

Field Attributes:

WIDTH IN FEET

Database Field:



Field Type: Character (8)

Field Descriptions: Pavement survey date

Field Attributes:

DATE (YYYYMMDD)

Database Field:	
	ROUGH_INDX
Field Type: Numer	ric (3)
Field Descriptions:	International roughness index (IRI) rating
Field Attributes:	
IRI NUMBER	ξ

Database Field:



Field Type: Numeric (6)

Field Descriptions: Current annual average daily traffic count

Field Attributes:

AADT

Database Field:



Field Type: Character (1)

Field Descriptions: Access control code

- 1 LIMITED ACCESS
- 2 PARTIAL ACCESS
- 3 NO ACCESS CONTROL

Database Field:



Field Type: Character (1)

Field Descriptions: Toll indicator

Field Attributes:

1 TOLL BRIDGE

Database Field:



Field Type: Character (25)

Field Descriptions: Street name

Field Attributes:

STREET NAME

Database Field:

TRAF_RT_NO_PREFIX

Field Type: Character (2)

Field Descriptions: Traffic route prefix, such as "US" and "PA."

Field Attributes:

TRAFFIC ROUTE NUMBER PREFIX

Database Field:



Field Type: Character (3)

Field Descriptions: Traffic route number

Field Attributes:

ROUTE NUMBER

Database Field:



Field Type: Character (1)

Field Descriptions: Traffic route suffix, such as "N" for "NORTH"

Field Attributes:

TRAFFIC ROUTE SUFFIX

Database Field:



Field Type: Character (20)

Field Descriptions: Begin terminus of segment (descriptive)

Field Attributes:

BEGIN TERMINUS

Database Field:



Field Type: Character (20)

Field Descriptions: End terminus of segment (descriptive)

Field Attributes:

END TERMINUS

Database Field:

MAINT_RESPON_IND

Field Type:

Character (2)

Field Descriptions: Maintenance responsibility

Field Attributes:

ASSISTANT MAINTENANCE MANAGER NUMBER (PennDOT)

Database Field:



Field Type: Character (1)

Field Descriptions: Urban/rural code

- 1 RURAL
- 2 SMALL URBAN AREA (pop. to 49,999)
- 3 URBANIZED AREA (pop. 50,000 to 199,999)
- 4 URBANIZED AREA (pop. 200,000 or more)

Database Field:



Field Type: Character (2)

Field Descriptions: Special system code

Field Attributes:

00 NOT ON A SPECIAL SYSTEM

04 FUTURE ADDITION TO INTERSTATE SYSTEM
Database Field:



Field Type: Character (1)

Field Descriptions: National Highway System indicator is based on the "Core Highway Indicator" field in the RMS database. If Core Highway Indicator is Y, S, C, P, or a number 2 through 9, then the segment is on the NHS.

Field Attributes:

- N NOT ON A NATIONAL HIGHWAY SYSTEM
- C MAJOR STRATEGIC HIGHWAY CONNECTOR
- P CONGRESSIONAL HIGH PRIORITY CORRIDOR
- S STRATEGIC HIGHWAY NETWORK
- Y OTHER PRINCIPLE ARTERIAL ROUTE
- 0 This section **is not** on the NHS
- 1 This section **is** on the NHS but **is not** an NHS intermodal connector
- 2-9 INTERMODAL CONNECTOR
 - 2 Major Airport
 - 3 Major Port Facility
 - 4 Major Amtrak Station
 - 5 Major Rail/Truck Terminal
 - 6 Major Intercity Bus Terminal
 - 7 Major Public Transit or Multi-Modal Passenger Terminal
 - 8 Major Pipeline Terminal
 - 9 Major Ferry Terminal

NOTE: If more than one connector type is involved, use the predominant type.

Database Field:

TANDEM_TRLR_TRK

Field Type: Character (1)

Field Descriptions: Truck/parkway network indicator

- 1 HPMS CODE "1" DESIGNATION ON TANDEM TRAILER FIELD
- 2 HPMS CODE "8" DESIGNATION ON ACCESS FIELD
- 3/4 HPMS CODE "N" DESIGNATION ON ACCESS FIELD

Database Field:

ACCESS_TANDEM_TRLR

Field Type: Character (1)

Field Descriptions: Truck route network indicator

- N NOT ON NETWORK
- 6 48' X 96" OR 102" SEMITRAILER; OR TWIN TRAILERS X 96" OR 102"
- 7 1 OF 3 OF THE DEFINITIONS SPECIFIED IN VALUE = 8 AS BELOW
- 8 53' X 96" OR 102" SEMITRAILER; OR 48' X 97" OR 102" SEMITRAILER; OR TWIN TRAILERS X 96" OR 102"

Database Field:

INTERST_NETWRK_IND

Field Type: Character (1)

Field Descriptions: Interstate network

- N NOT ON INTERSTATE
- Y ON INTERSTATE NETWORK

Database Field:



Field Type: Character (1)

Field Descriptions: National Highway Planning Network indicator. A segment is on the NHPN if it is on the National Highway System (NHS), or if it is a principle arterial. Odd-numbered segments qualify only if they are part of a "one-way pair", or if there is no parallel even-numbered segment.

Field Attributes:

(Y/N)

Database Field:

HPMS_SECTN_ID

Field Type: Character (12)

Field Descriptions: Federal Highway Performance Monitoring System sample number

Field Attributes:

HPMS NUMBER (ROADWAY JURSIDICTION KEY)

Database Field:

NORM_ADMIN_BGN

Field Type: Character (8)

Field Descriptions: Pointer to administrative data

Field Attributes:

SEG_PT_BGN of the record on the *RMSADMIN* table that contains this segment.

Database Field:

NORM _TRAF_BGN

Field Type: Character (8)

Field Descriptions: Pointer to traffic data

Field Attributes:

SEG_PT_BGN of the record on the *RMSTRAFFIC* table that contains this segment.

Database Field:

NORM_SHLD_BGN

Field Type: Character (8)

Field Descriptions: Pointer to shoulder data

Field Attributes:

SEG_PT_BGN of the record on the *RMSPAVEMENT* table that contains this segment.

Database Field:

MSLINK

Field Type: Numeric (10)

Field Descriptions: MGE link ID (PennDOT internal use)

Field Attributes:

N/A

Database Fiel	d:	
	MAPID	
Field Type:	Numeric (10)	

Field Descriptions: MGE map ID (PennDOT internal use)

Field Attributes:

N/A

Database Field:



Field Type: Numeric (10)

Field Descriptions: Network linear feature identifier for use in dynamic segmentation. NLF_ID is a unique control number internally assigned to represent a single contiguous section of a route within a county.

Field Attributes:

NLF_ID

Database Field:



Field Type: Character (1)

Field Descriptions: Right/left side indicator of segment

- 1 RIGHT SIDE EVEN-NUMBERED SEGMENTS
- 2 LEFT SIDE ODD-NUMBERED SEGMENTS

Database Field:



Field Type: Numeric (9 + 1 decimal place)

Field Descriptions: Beginning control point position. Total distance in feet from the beginning of the network linear feature to the begin point of the attribute record.

Field Attributes:

Database Field:

NLF_CNTL_END

Field Type: Numeric (9 + 1 decimal place)

Field Descriptions: Ending control point position. Total distance in feet from the beginning of the network linear feature to the end point of the attribute record.

Field Attributes:

Database Field:

CUM_OFFSET_BGN

Field Type: Numeric (9 + 1 decimal place)

Field Descriptions: Cumulative offset segment measurement in feet. Total distance in feet from the beginning of the route in the county to the begin point of the attribute record.

Field Attributes:

Database Field:

CUM_OFFSET_END

Field Type: Numeric (9 + 1 decimal place)

Field Descriptions: Cumulative offset segment ending measurement in feet. Total distance in feet from the beginning of the route in the county to the end point of the attribute record.

Field Attributes:

Database Field:

KEY_UPDATE

Field Type: Character (8)

Field Descriptions: Current date of location reference data update

Field Attributes:

DATE OF LAST UPDATE (YYYYMMDD)

Database Field:

ATTR_UPDATE

Field Type: Character (8)

Field Descriptions: Current date of attribute fields update

Field Attributes:

DATE OF UPDATE (YYYYMMDD)

Database Field:

OVERALL_PVMNT_IDX

Field Type: Numeric (3)

Field Descriptions: Overall pavement index

Field Attributes:

Calculated by BOMO to provide an overall comparative rating of pavement condition.

Database Field:



Field Type: Character (1)

Field Descriptions: Segment status -- Indicates whether the segment is open to public traffic, or under-construction.

- A Active open to traffic
- C Under Construction

Database Field:



Field Type: Numeric (1)

Field Descriptions: Pavement survey cycle. The entire state highway system is surveyed for pavement distress condition rating on a 2-year cycle. Some segments, such as those on the National Highway System, are surveyed every year, whereas others are surveyed every other year. This data item indicates the cycle for a given road segment.

- 0 Surveyed annually
- 1 Surveyed every odd numbered year
- 2 Surveyed every even-numbered year

Database Field:



Field Type: Numeric (1)

Field Descriptions: Drainage survey cycle. Drainage is surveyed on a 4-year cycle. This data item indicates the cycle for a given road segment.

- 1 Surveyed in first year of the cycle
- 2 Surveyed in the second year of the cycle
- 3 Surveyed in the third year of the cycle
- 4 Surveyed in the fourth year of the cycle

Database Field:



Field Type: Numeric (1)

Field Descriptions: Guardrail survey cycle. Guardrails are surveyed on a 4-year cycle. This data item indicates the cycle for a given road segment.

- 1 Surveyed in first year of the cycle
- 2 Surveyed in the second year of the cycle
- 3 Surveyed in the third year of the cycle
- 4 Surveyed in the fourth year of the cycle

XRMS

XRMSADMIN

ROADWAY ADMINISTRATIVE CLASSIFICATION

Agency Responsible: Bureau of Maintenance & Operations

Contact: State road data: Bureau of Planning and Research Geographic Information Division, 772-3305 Non-state data: Bureau of Planning and Research, Transportation

Planning Division, 787-6046

Limits of Distribution: PennDOT Business Partners Only

Feature Type: Linear

Description of Content:

This table contains information describing how the roads are classified for various administrative and reporting purposes, such as functional class. It includes all state routes, all Pennsylvania Turnpike segments, and all non-state federal aid roads.

If multiple contiguous segments of a route all have the exact same administrative information, there will be only one record on this table covering all those segments, and the record will contain the beginning and ending segment and offset.

DISCLAIMER / USE RESTRICTIONS

2. <u>DEPARTMENT DATA</u>:

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XRMSADMIN - State Route Administrative

PG	FIELD	TYPE	WIDTH	H DESCRIPTION
*	ST RT NO	С	4	State route number
*	CTY CODE	Ċ	2	County code
*	DISTRICT NO	C	2	PennDOT District number
*	JURIS	С	1	Jurisdiction
4	SEG_BGN	С	4	Beginning segment number
5	OFFSET_BGN	Ν	4	Beginning measurement of segment offset
6	SEG_END	С	4	Ending segment number
7	OFFSET_END	Ν	4	Ending measurement of segment offset
*	SEG_LNGTH_FEET	Ν	9.1	Length of segment in feet
8	SEG_PT_BGN	С	8	Concatenated field:
				SEG_BGN+OFFSET_BGN
9	SEG_PT_END	С	8	Concatenated field:
				SEG_END+OFFSET_END
*	SEQ_NO	Ν	5	Sequence number
10	MAINT_FUNC_CLS	С	1	Maintenance function class
11	FED_AID_SYS	С	1	Federal-Aid System code
12	FED_AID_URBAN_AREA	С	1	Federal-Aid urban area code
13	FUNC_CLS	С	2	Federal functional class code
14	FED_ID	С	4	Federal identification code
15	FED_AID_SYS_STATUS	С	1	Federal-Aid System status code
*	MSLINK	Ν	10	MGE link ID (internal use)
*	MAPID	Ν	10	MGE map ID (internal use)
*	NLF_ID	Ν	10	Network Linear Feature
*	SIDE_IND	С	1	Right/left side indicator
*	NLF_CNTL_BGN	Ν	9.1	Beginning control point position
*	NLF_CNTL_END	Ν	9.1	Ending control point position
*	CUM_OFFSET_BGN	Ν	9.1	Cumulative offset segment begin measurement in feet
*	CUM_OFFSET_END	Ν	9.1	Cumulative offset segment ending measurement in feet
16	RECORD_UPDATE	С	8	Date of last update

* These data fields described in RMSSEGMENT database listing

Database Field:



Field Type: Character (4)

Field Descriptions: Beginning segment number

Field Attributes:

SEGMENT NUMBER

Database Field:	OFFSET_BGN
Field Type: Nume	ric (4)
Field Descriptions:	Beginning measurement of segment offset in feet
Field Attributes:	
SEGMENT C	DFFSET

Database Field:	SEG_END
Field Type: Chara	cter (4)
Field Descriptions:	Ending segment number
Field Attributes:	

SEGMENT NUMBER

Database Field:	OFFSET_END
Field Type: Numer	ric (4)
Field Descriptions:	Ending measurement of segment offset
Field Attributes:	
SEGMENT C	OFFSET

Database Field:	
	SEG_PT_BGN
Field Type: Chara	cter (8)
Field Descriptions:	Concatenated field : SEG_BGN + OFFSET_BGN
Field Attributes:	
SEG_BGN +	OFFSET_BGN

Database Field:	SEG_PT_END
Field Type: Chara	cter (8)
Field Descriptions:	Concatenated field: SEG_PT_END + OFFSET_END
Field Attributes:	

SEG_PT_END + OFFSET END

Database Field:

MAINT_FUNC_CLS

Field Type: Character (1)

Field Descriptions: Maintenance function class

- A INTERSTATE HIGHWAY
- B OTHER EXPRESSWAYS AND PRINCIPAL ARTERIAL HIGHWAYS
- C MINOR ARTERIAL HIGHWAYS
- D COLLECTOR HIGHWAYS
- E LOCAL ACCESS HIGHWAYS
- F INTERCHANGE RAMPS

Database Field:

FED_AID_SYS

Field Type: Character (1)

Field Descriptions: Federal - Aid Systems code

- 0 NOT ON FEDERAL AID
- 1 FEDERAL AID (NHS)
- 2 OTHER FEDERAL AID (STP)

Database Field:

FED_AID_URBAN_AREA

Field Type: Character (1)

Field Descriptions: Federal - Aid urban area code

- 1 RURAL
- 2 SMALL URBAN (Pop. 5,000 49,999)
- 3 URBANIZED (Pop. 50,000 199,999)
- 4 URBANIZED (Pop.200,000 or more)
Database Field:

FUNC_CLS

Field Type: Character (2)

Field Descriptions: Federal functional class

Field Attributes:

- 01 RURAL PRINCIPLE ARTERIAL INTERSTATE
- 02 RURAL PRINCIPLE ARTERIAL OTHER
- 06 RURAL MINOR ARTERIAL
- 07 RURAL MAJOR COLLECTOR
- 08 RURAL MINOR COLLECTOR
- 09 RURAL LOCAL
- 11 URBAN PRINCIPLE ARTERIAL INTERSTATE
- 12 URBAN PRINCIPLE ARTERIAL OTHER FREEWAYS
- 14 URBAN OTHER PRINCIPLE ARTERIAL
- 16 URBAN MINOR ARTERIAL
- 17 URBAN COLLECTOR
- 19 URBAN LOCAL
- 99 RAMP

Database Field:



Field Type: Character (4)

Field Descriptions: Federal identification code

Field Attributes:

FEDERAL ID CODE NUMBER

Database Field:

FED_AID_SYS_STATUS

Field Type: Character (1)

Field Descriptions: Federal - Aid Systems status code

Field Attributes:

- 1 FEDERAL AID SYSTEM OPEN TO TRAFFIC
- 2 FEDERAL AID SYSTEM NOT YET BUILT OR NOT OPEN TO TRAFFIC
- 8 NON FEDERAL AID OPEN TO TRAFFIC
- 9 NON FEDERAL AID NOT YET BUILT OR NOT OPEN TO TRAFFIC

Database Field:



Field Type: Character (8)

Field Descriptions: Date of last update

Field Attributes:

DATE OF LAST UPDATE (YYYYMMDD)

RMS

RMSTRAFFIC

ROADWAY TRAFFIC VOLUMES

Agency Responsible: Bureau of Maintenance & Operations

Contact: Bureau of Planning and Research, Transportation Planning Division, 787-4574

Limits of Distribution: Unlimited

Feature Type: Linear

Description of Content:

This table contains traffic volume statistics -- measured and calculated amounts of vehicle traffic that travel the section of road. It includes all state routes, all Pennsylvania Turnpike segments, and all non-state federal aid roads.

If multiple contiguous segments of a route all have the exact same traffic volume statistics, there will be only one record on this table covering all those segments, and the record will contain the beginning and ending segment and offset.

DISCLAIMER / USE RESTRICTIONS

DEPARTMENT DATA:

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RMSTRAFFIC - Current Traffic Volumes

PG	FIELD	TYPE	WIDTH	H DESCRIPTION
*	ST RT NO	С	4	State route number
*	CTY CODE	Č	2	County code
*	DISTRICT NO	C	2	PennDOT District number
*	JURIS	Č	1	Jurisdiction
+	SEG BGN	Č	4	Beginning segment number
+	OFFSET_BGN	N	4	Beginning measurement of segment
+	SEG END	С	4	Ending segment number
+	OFFSET_END	N	4	Ending measurement of segment offset
+	SEG_PT_BGN	С	8	Concatenated field: SEG_BGN + OFFSET_BGN
+	SEG_PT_END	С	8	Concatenated field: SEG END + OFFSET END
*	SEG LNGTH FEET	Ν	9.1	Length of segment in feet
*	SEQ NO	Ν	5	Sequence number
4	CUR_AADT	Ν	6	Current annual average daily traffic
5	ADTT_CUR	Ν	6	Current truck AADT
6	TRK_PCT	Ν	3	Truck percent
7	AXLE_2_CUR	Ν	6	Current 2 axle truck volume
8	AXLE_3_CUR	Ν	6	Current 3 axle truck volume
9	AXLE_3_SEMI_CUR	Ν	6	Current 3 axle semi volume
10	AXLE_4_CUR	Ν	6	Current 4 axle truck volume
11	AXLE_4_SEMI_CUR	Ν	6	Current 4 axle semi volume
12	AXLE_5_SEMI_CUR	Ν	6	Current 5 axle truck volume
13	DBL_AXLE_5_CUR	Ν	6	Current 5 axle double truck volume
14	DBL_AXLE_6_CUR	Ν	6	Current 6 axle double truck volume
15	WKDY_TRK_CUR	Ν	6	Current weekday truck volume
16	ADLR_TRK_CUR	Ν	6	Current Average Daily Load Rigid
17	ADLF_TRK_CUR	Ν	6	Current Average Daily Load Flexible
18	BASE_YR_CLS_CNT	Ν	4	Base year class count
19	BASE_ADT	Ν	6	Base AADT
20	ADTT_BASE	Ν	6	Base truck AADT
21	AXLE_2_BASE	Ν	6	Base 2 axle truck volume
22	AXLE_3_BASE	Ν	6	Base 3 axle truck volume
23	AXLE_3_SEMI_BASE	Ν	6	Base 3 axle semi volume
24	AXLE_4_BASE	Ν	6	Base 4 axle truck volume
25	AXLE_4_SEMI_BASE	Ν	6	Base 4 semi volume
26	AXLE_5_SEMI_BASE	Ν	6	Base 5 semi volume
27	DBL_AXLE_5_BASE	Ν	6	Base 5 axle double truck volume

RMSTRAFFIC - Current Traffic Volumes (cont.)

PG	FIELD	TYPE	WIDTH	H DESCRIPTION
28	DBL AXLE 6 BASE	Ν	6	Base 6 axle double truck volume
29	WKDY_TRK_BASE	Ν	6	Base weekday truck volume
30	ADLR_TRK_BASE	Ν	6	Base ADLR
31	ADLF_TRK_BASE	Ν	6	Base ADLF
32	BASE_ADT_YR	Ν	4	Base ADT year
33	DLY_VMT	Ν	7	Daily Vehicle Miles Traveled(VMT)
34	DLY_TRK_VMT	Ν	7	Daily truck VMT
35	K_FACTOR	Ν	2	K- factor
36	D_FACTOR	Ν	3	D- factor
37	T_FACTOR	Ν	2	T- factor
38	VOL_CNT_KEY	С	14	Volume count key
39	VOL_CNT_DATE	С	8	Volume count date
40	RAW_CNT_HIST_DATE	С	8	Raw count date
41	TRAFF_PATT_GRP	С	2	Traffic pattern group
42	DUR_CLS_CNT	Ν	2	Duration of class count
43	TYPE_OF_CNT	С	1	Type of count
*	MSLINK	Ν	10	MGE link ID (internal use)
*	MAPID	Ν	10	MGE map ID (internal use)
*	NLF_ID	Ν	10	Network Linear Feature
*	SIDE_IND	С	1	Right/left side indicator
*	NLF_CNTL_BGN	Ν	9.1	Beginning control point position
*	NLF_CNTL_END	Ν	9.1	Ending control point position
*	CUM_OFFSET_BGN	Ν	9.1	Cumulative offset segment begin measurement in feet
*	CUM_OFFSET_END	Ν	9.1	Cumulative offset segment ending measurement in feet
+	RECORD_UPDATE	С	8	Date of last update

*

These data fields described in XRMSSEG database listing These data fields described in XRMSADMIN database listing +

Database Field:	CUR_AADT
Field Type: Nume	eric (6)
Field Descriptions:	Current annualized average daily traffic count
Field Attributes:	
AADT	

Database Field:	ADTT_CUR
Field Type: Nume	ric (6)
Field Descriptions:	Current annualized average daily truck traffic count
Field Attributes:	
ADTT	

Database Field:	
	TRK_PCT

Field Type: Numeric (3)

Field Descriptions: Truck percent. Excludes pick-ups, panels, and light trucks.

Field Attributes:

TRUCK PERCENTAGE

Database Field:



Field Type: Numeric (6)

Field Descriptions: Current 2 axle truck volume

Field Attributes:

Database Field:



Field Type: Numeric (6)

Field Descriptions: Current 3 axle truck volume

Field Attributes:

Database Field:

AXLE_3_SEMI_CUR

Field Type: Numeric (6)

Field Descriptions: Current 3 axle semi volume

Field Attributes:

Database Field:



Field Type: Numeric (6)

Field Descriptions: Current 4 axle truck volume

Field Attributes:

Database Field:

AXLE_4_SEMI_CUR

Field Type: Numeric (6)

Field Descriptions: Current 4 axle semi volume

Field Attributes:

Database Field:

AXLE_5_SEMI_CUR

Field Type: Numeric (6)

Field Descriptions: Current 5 axle truck volume

Field Attributes:

Database Field:



Field Type: Numeric (6)

Field Descriptions: Current 5 axle double truck volume

Field Attributes:

Database Field:



Field Type: Numeric (6)

Field Descriptions: Current 6 axle double truck volume

Field Attributes:

Database Field:



Field Type: Numeric (6)

Field Descriptions: Current weekday truck volume. Calculated by multiplying base total truck count by a designated factor.

Field Attributes:

Database Field:



Field Type: Numeric (6)

Field Descriptions: Current Average Daily Load Rigid pavement quality. The sum of multiplying the 8 truck classes by a designated value and adding each result.

Field Attributes:

CURRENT ADLR FACTOR

Database Field:



Field Type: Numeric (6)

Field Descriptions: Current average Daily Load Flexible pavement quality. The sum of multiplying the 8 truck classes by a designated value and adding each result.

Field Attributes:

CURRENT ADLF FACTOR

Database Field:

BASE_YR_CLS_CNT

Field Type: Numeric (4)

Field Descriptions: Base year class count

Field Attributes:

YEAR OF COUNT

Database Field:



Field Type: Numeric (6)

Field Descriptions: Base AADT

Field Attributes:

AADT

Database Field:



Field Type: Numeric (6)

Field Descriptions: Base truck AADT

Field Attributes:

BASE TRUCK AADT

Database Field:

AXLE_2_BASE

Field Type: Numeric (6)

Field Descriptions: Base 2 axle truck volume

Field Attributes:

Database Field:



Field Type: Numeric(6)

Field Descriptions: Base 3 axle truck volume

Field Attributes:

Database Field:

AXLE_3_SEMI_BASE

Field Type: Numeric (6)

Field Descriptions: Base 3 axle semi volume

Field Attributes:

Database Field:



Field Type: Numeric (6)

Field Descriptions: Base 4 axle truck volume

Field Attributes:

Database Field:

AXLE_4_SEMI_BASE

Field Type: Numeric (6)

Field Descriptions: Base 4 axle semi volume

Field Attributes:

Database Field:

AXLE_5_SEMI_BASE

Field Type: Numeric (6)

Field Descriptions: Base 5 axle semi volume

Field Attributes:

Database Field:

DBL_AXLE_5_BASE

Field Type: Numeric (6)

Field Descriptions: Base 5 axle double truck volume

Field Attributes:

Database Field:

DBL_AXLE_6_BASE

Field Type: Numeric (6)

Field Descriptions: Base 6 axle double truck volume

Field Attributes:

Database Field:

WKDY_TRK_BASE

Field Type: Numeric (6)

Field Descriptions: Base weekday truck volume. Calculated by multiplying base total truck count by a designated factor.

Field Attributes:

Database Field:



Field Type: Numeric (6)

Field Descriptions: Base Average Daily Load Rigid pavement quality. The sum of multiplying the 8 truck classes by a designated value and adding each result.

Field Attributes:

BASE ADLR FACTOR

Database Field:



Field Type: Numeric (6)

Field Descriptions: Base Average Daily Load Flexible pavement quality. The sum of multiplying the 8 truck classes by a designated value and adding each result.

Field Attributes:

BASE ADLF FACTOR
Database Field:



Field Type: Numeric (4)

Field Descriptions: Base ADT year

Field Attributes:

YEAR

Database Field:



Field Type: Numeric (7)

Field Descriptions: Daily vehicle miles traveled (VMT). VMT = Segment length in miles times AADT

Field Attributes:

VMT

Database Field:



Field Type: Numeric (7)

Field Descriptions: Daily truck vehicle miles traveled (VMT). Truck VMT = Segment length (in miles) times ADTT

Field Attributes:

TRUCK VMT

Database Field:



Field Type: Numeric (2)

Field Descriptions: Ratio of Design Hour Values (DHV) to Annual Average Daily Traffic (AADT)

Field Attributes:

K FACTOR

Database Field:



Field Type: Numeric (3)

Field Descriptions: Directional traffic split. For the highest hour of traffic, the percentage of the highest direction of the highest hour total, displayed in increments of 5.

Field Attributes:

D FACTOR

Database Field:



Field Type: Numeric (2)

Field Descriptions: Truck factor. Calculated by dividing the number of trucks in the highest hour by the number of vehicles in the highest hour and multiplying by 100.

Field Attributes:

T FACTOR

Database Field:



Field Type: Character (14)

Field Descriptions: Volume count key; usually the county, route, segment, and offset associated with the actual count.

Field Attributes:

VOLUME COUNT KEY

Database Field:

VOL_CNT_DATE

Field Type: Character (8)

Field Descriptions: Volume count date; Date the actual count was recorded.

Field Attributes:

DATE (YYYYMMDD)

Database Field:

RAW_CNT_HIST_DATE

Field Type: Character (8)

Field Descriptions: Raw count date

Field Attributes:

DATE (YYYYMMDD)

Database Field:



Field Type: Character (2)

Field Descriptions: Traffic pattern group. Used to factor raw data into count data. Values are dependent on functional class.

Field Attributes:

01-10

Database Field:



Field Type: Numeric (2)

Field Descriptions: Duration of class count

Field Attributes:

DURATION IN HOURS

Database Field:



Field Type: Character (1)

Field Descriptions: Type of count

Field Attributes:

- 1 MANUAL TRAFFIC CLASSIFICATION COUNT
- 2 MACHINE TRAFFIC CLASSIFICATION COUNT
- 3 PORTABLE TRAFFIC COUNT