

SHEET 1 LTPP TRAFFIC DATA SUMMARY TRANSMITTAL FORM	•STATE ASSIGNED ID [_____]
	•STATE CODE [42]
	•SHRP SECTION ID [1605]

STATE OR PROVINCE PENNSYLVANIA COUNTY NORTHUMBERLAND
 HIGHWAY ROUTE NO. SR 147 MILEPOST# SEG. 780
 NEAREST CITY/TOWN 2.7 MI. S.E. OF MILTON
 NEAREST INTERSECTION 1 MI. S PA 642
 FUNCTIONAL CLASS 14 NO.LANES EA DIRECTION 1 TOTAL NO.LANES 2
 DIRECTION OF TRAVEL GPS LANE N DATE OPENED TO TRAF. - -71
 FIPS COUNTY CODE 097 FHWA STATION IDENTIFICATION NO. _____
 HPMS SAMPLE NO. 490147006775 HPMS SUBDIVISION NO. 0
 TYPE OF PAVEMENT: AC X PCC _____ OTHER _____
 CONTROL OF ACCESS: YES X NO _____ MEDIAN: YES _____ NO X
 CURRENT SURROUNDING DEVELOPMENT:
 URBAN _____ SUBURBAN X RURAL _____
 HAS INTENSITY OF ROADSIDE DEVELOPMENT INCREASED OVER PAST 10
 YEARS? YES _____ NO X
 IF YES, DESCRIBE CHANGES _____

NAME OF PREPARER <u>EDWIN R. MARSHALL, JR.</u>	PHONE # <u>(717) 787-3082</u>
DATE PREPARED <u>10/25/90</u>	

ENTERED SEP 13 2000

SHEET 1

LTPP TRAFFIC DATA

SUMMARY TRANSMITTAL FORM

*STATE ASSIGNED ID [_ _ _ _]

*STATE CODE 42

*SHRP SECTION ID [A 3 0 0]

1605

STATE OR PROVINCE Pennsylvania COUNTY Northumberland.

HIGHWAY ROUTE NO. SR 147 MILEPOST#

NEAREST CITY/TOWN _____ NEAREST INTERSECTION SR. 642

*FUNCTIONAL CLASS 14 NO. LANES EACH DIRECTION 1 TOTAL NO. LANES 2

*DIRECTION OF TRAVEL LTPP LANE N [N S E W]

*DATE OPENED TO TRAFFIC 09-01-1971

FIPS COUNTY CODE 097 FHWA STATION IDENTIFICATION NO. _____

HPMS SAMPLE NO. 490147006775 HPMS SUBDIVISION 0

*TYPE OF PAVEMENT: 1- AC X 2- PCC 3- OTHER

CONTROL OF ACCESS: YES X NO _____ MEDIAN: YES _____ NO X

CURRENT (1990) SURROUNDING DEVELOPMENT:

URBAN _____ SUBURBAN ~~_____~~ RURAL _____

DID INTENSITY OF ROADSIDE DEVELOPMENT INCREASE BETWEEN 1980 AND 1990?

YES _____ NO X

IF YES, DESCRIBE CHANGES

NEW FUNCTIONAL CLASS: _____

DATE FUNCTIONAL CLASS CHANGED: _____

NOTE: ATTACH ALL RELATED FORMS AND COUNT DATA AND SUBMIT TO THE SHRP REGIONAL OFFICE. ATTACH MAP INDICATING THE LOCATION OF EACH TRAFFIC COUNT, VEHICLE CLASSIFICATION COUNT, OR WEIGHT STATION RELATIVE TO THIS LTPP SITE.

NAME OF PREPARER *Ed Fillion*

PHONE # 716-632-0804

DATE PREPARED Sept. 13/00

rev. February 28, 2000

<p>SHEET 2</p> <p>LTPP TRAFFIC DATA</p> <p>TRAFFIC VOLUMES AND LOAD ESTIMATES</p>	<p>•STATE ASSIGNED ID [-----]</p> <p>•STATE CODE [42]</p> <p>•SHRP SECTION ID [1605]</p>
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YEAR	1. ESTIMATED TOTAL VEHICLES AADT (TWO-WAY)	2 ESTIMATED TOTAL TRUCK AADT (TWO-WAY)	3 ESTIMATED TOTAL VEHICLES AADT GPS LANE	4 ESTIMATED TOTAL TRUCK AADT GPS LANE	5 ESTIMATED ESAL'S/YR GPS LANE (1000's)
1989	6456	1454	3228	727	219
1988	6208	1398	3104	699	211
1987	6027	1358	3014	679	205
1986	5795	1306	2898	653	197
1985	6040	1338	3020	669	202
1984	5922	1312	2961	656	198
1983	5750	1272	2875	636	192
1982	5586	1200	2793	600	181
1981	5335	1081	2668	541	163
1980	5335	1081	2668	541	163
1979	5335	1081	2668	541	163
1978	5483	1000	2742	500	151
1977	5288	1171	2644	586	177
1976	5018	1112	2509	556	167
1975	4894	1084	2447	542	163
1974	4776	1058	2388	529	159
1973	4700	1040	2350	520	157
1972	4626	1024	2313	512	154
1971	4554	1008	2277	504	152
1970					
1969					
1968					
1967					
1966					
1965					

NAME OF PREPARER <u>PALMER E. WERT, JR</u>	PHONE # <u>(717) 787-4574</u>
DATE PREPARED <u>10/25/90</u>	

ENTERED AUG 28 2000

SHEET 2
LTPP TRAFFIC DATA
TRAFFIC VOLUMES
AND LOAD ESTIMATES

*STATE ASSIGNED ID [_ _ _ _]
 *STATE CODE [42]
 *SHRP SECTION ID [A 300]

*YEAR	1. ESTIMATED TOTAL VEHICLES AADT (TWO-WAY)	2. ESTIMATED TOTAL TRUCK AADT (TWO-WAY)	3. ESTIMATED TOTAL VEHICLES AADT LTPP LANE	*4. ESTIMATED TOTAL TRUCKS AADT LTPP LANE	*5. ESTIMATED ESALS/YEAR LTPP LANE (100'S)
1989 _x	6456	1454	3228	727	219
1988 _x	6208	1398	3104	699	211
1987 _x	6027	1358	3014	679	205
1986 _x	5795	1306	2898	653	197
1985 _x	6040	1338	3020	669	202
1984 _x	5922	1312	2961	656	198
1983 _x	5750	1272	2875	636	192
1982 _x	5586	1200	2793	600	181
1981 _x	5335	1081	2668	541	163
1980 _x	5335	1081	2668	541	163
1979 _x	5335	1081	2668	541	163
1978 _x	5483	1000	2742	500	151
1977 _x	5288	1171	2644	586	177
1976 _x	5018	1112	2509	556	167
1975 _x	4894	1084	2447	542	163
1974 _x	4776	1058	2388	529	159
1973 _x	4700	1040	2350	520	157
1972 _x	4626	1024	2313	512	154
1971 _f	4554	1008	2277	504	152
1970					
1969					
1968					
1967					
1966					
1965					

NAME OF PREPARER Ed Fillion
 DATE PREPARED Aug 28/00

PHONE # 716-632-0804
 Rev. November 8, 1999

<p>SHEET 3</p> <p>LTPP TRAFFIC DATA</p> <p>PROCEDURES FOR ESTIMATING</p> <p>ANNUAL AVERAGE VOLUMES AND</p> <p>TOTAL ANNUAL ESALS</p>	<p>*STATE ASSIGNED ID [-----]</p> <p>*STATE CODE [42]</p> <p>*SHRP SECTION ID [1605]</p>
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1. YEAR APPLICABLE 1971 - 84

2. METHOD FOR ESTIMATING AADT

- ☐ Factored a single count taken this year at the GPS site.
- ☐ Averaged multiple counts taken this year at the GPS site.
- ☐ Averaged and factored multiple counts taken this year at the GPS site.
- ☐ Growth factored last years estimate.
- ☐ Estimated based on volume counts at nearby locations.
- ☐ Used flow maps.
- ☐ Used computerized network analysis.
- ☒ Other FACTORED FROM 1985.

3. METHOD FOR ESTIMATING TRUCK VOLUMES OR PERCENTAGES

- ☐ Used a single count taken this year at the GPS site.
- ☐ Factored a single count taken this year at the GPS site.
- ☐ Averaged multiple counts taken this year at the GPS site.
- ☐ Used system averages from counts taken this year.
- ☐ Used count data from nearby sites.
- ☐ Used count data taken in earlier years at the GPS site.
- ☐ Used system averages taken in earlier years at the GPS site.
- ☒ Other FACTORED FROM 1985.

4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☐ Based on actual lane data.
- ☐ System distribution factors.
- ☒ Other FACTORED FROM 1985.
- ASSUMED 50/50 SPLIT

5. METHOD FOR ESTIMATING TRUCK AADT IN GPS LANES.

- ☐ Based on actual lane count data.
- ☐ System distribution factors.
- ☒ Other FACTORED FROM 1985. ASSUMED 50/50 SPLIT
6. METHOD FOR ESTIMATING ESAL/VEHICLE
- ☐ ESAL/Truck.
- ☒ ESAL/Vehicle class (no. of classes) 11
- ☒ Other FACTORED FROM 1985.

7. ESAL ESTIMATES

(A) Source of Data

- ☐ Weight data collected at GPS site this year.
- ☐ Weight data collected at GPS site in prior years.
- ☐ Weight data from system averages this year.
- ☐ Weight data from system averages prior years.
- ☐ Weight data from historic W-4 Tables used.
- ☒ Other FACTORED FROM 1985. SYSTEM AVERAGES

(B) Weight Scale Type

- ☐ WIM scale.
- ☐ Static scale used for enforcement.
- ☐ Static scale not used for enforcement.
- ☐ Other _____

NAME OF PREPARER <u>PALMER E. WERT, JR.</u>	PHONE # <u>(717)787-4574</u>
DATE PREPARED <u>10/25/90</u>	

<p>SHEET 3</p> <p>LTPP TRAFFIC DATA</p> <p>PROCEDURES FOR ESTIMATING</p> <p>ANNUAL AVERAGE VOLUMES AND</p> <p>TOTAL ANNUAL ESALS</p>	<p>•STATE ASSIGNED ID [-----]</p> <p>•STATE CODE [42]</p> <p>•SHRP SECTION ID [1605]</p>
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1. YEAR APPLICABLE 1985

2. METHOD FOR ESTIMATING AADT

- ☒ Factored a single count taken this year at the GPS site.
- ☐ Averaged multiple counts taken this year at the GPS site.
- ☐ Averaged and factored multiple counts taken this year at the GPS site.
- ☐ Growth factored last years estimate. Estimated based on volume counts at nearby locations.
- ☐ Used flow maps.
- ☐ Used computerized network analyses.
- ☐ Other _____

3. METHOD FOR ESTIMATING TRUCK VOLUMES OR PERCENTAGES

- ☒ Used a single count taken this year at the GPS site.
- ☐ Factored a single count taken this year at the GPS site.
- ☐ Averaged multiple counts taken this year at the GPS site.
- ☐ Used system averages from counts taken this year.
- ☐ Used count data from nearby sites.
- ☐ Used count data taken in earlier years at the GPS site.
- ☐ Used system averages taken in earlier years at the GPS site.
- ☐ Other _____

4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☒ Based on actual lane count data.
- ☐ System distribution factors.
- ☒ Other ASSUMED 50/50 SPLIT

5. METHOD FOR ESTIMATING TRUCK AADT IN GPS LANES.

- ☒ Based on actual lane count data.
- ☐ System distribution factors.
- ☒ Other ASSUMED 50/50 SPLIT

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
- ☒ ESAL/Vehicle class (no. of classes) 11
- ☐ Other _____

7. ESAL ESTIMATES

(A) Source of Data

- ☐ Weight data collected at GPS site this year.
- ☐ Weight data collected at GPS site in prior years.
- ☒ Weight data from system averages this year.
- ☐ Weight data from system averages prior years.
- ☐ Weight data from historic W-4 Tables used.
- ☐ Other _____

(B) Weight Scale Type

- ☐ WIM scale.
- ☐ Static scale used for enforcement.
- ☐ Static scale not used for enforcement.
- ☐ Other _____

NAME OF PREPARER <u>PALMER E. WERT, JR.</u>	PHONE # <u>(717)787-4574</u>
DATE PREPARED <u>10/25/90</u>	

SHEET 3
LTPP TRAFFIC DATA
PROCEDURES FOR ESTIMATING
ANNUAL AVERAGE VOLUMES AND
TOTAL ANNUAL ESALS

*STATE ASSIGNED ID [-----]

*STATE CODE [42]

*SHRP SECTION ID [1605]

1. YEAR APPLICABLE 1986 - 88

2. METHOD FOR ESTIMATING AADT

- ☐ Factored a single count taken this year at the GPS site.
☐ Averaged multiple counts taken this year at the GPS site.
☐ Averaged and factored multiple counts taken this year at the GPS site.
☐ Growth factored last years estimate.
☐ Estimated based on volume counts at nearby locations.
☐ Used flow maps.
☐ Used computerized network analysis.
☒ Other FACTORED FROM 1989.

3. METHOD FOR ESTIMATING TRUCK VOLUMES OR PERCENTAGES

- ☐ Used a single count taken this year at the GPS site.
☐ Factored a single count taken this year at the GPS site.
☐ Averaged multiple counts taken this year at the GPS site.
☐ Used system averages from counts taken this year.
☐ Used count data from nearby sites.
☐ Used count data taken in earlier years at the GPS site.
☐ Used system averages taken in earlier years at the GPS site.
☒ Other FACTORED FROM 1989.

4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☐ Based on actual lane data.
☐ System distribution factors.
☒ Other FACTORED FROM 1989.
ASSUMED 50/50 SPLIT

5. METHOD FOR ESTIMATING TRUCK AADT IN GPS LANES.

- ☐ Based on actual lane count data.
☐ System distribution factors.
☒ Other FACTORED FROM 1989. ASSUMED 50/50 SPLIT

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
☒ ESAL/Vehicle class (no. of classes) 11
☒ Other FACTORED FROM 1989.

7. ESAL ESTIMATES

(A) Source of Data

- ☐ Weight data collected at GPS site this year.
☐ Weight data collected at GPS site in prior years.
☐ Weight data from system averages this year.
☐ Weight data from system averages prior years.
☐ Weight data from historic W-4 Tables used.
☒ Other FACTORED FROM 1989. SYSTEM AVERAGES

(B) Weight Scale Type

- ☐ WIM scale.
☐ Static scale used for enforcement.
☐ Static scale not used for enforcement
☐ Other

NAME OF PREPARER PALMER E. WERT, JR.

PHONE # (717)787-4574

DATE PREPARED 10/25/90

<p>SHEET 3</p> <p>LTPP TRAFFIC DATA</p> <p>PROCEDURES FOR ESTIMATING</p> <p>ANNUAL AVERAGE VOLUMES AND</p> <p>TOTAL ANNUAL ESALS</p>	<p>*STATE ASSIGNED ID [_____] </p> <p>*STATE CODE [42] </p> <p>*SHRP SECTION ID [1605] </p>
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1. YEAR APPLICABLE 1989

2. METHOD FOR ESTIMATING AADT

- ☒ Factored a single count taken this year at the GPS site.
- ☐ Averaged multiple counts taken this year at the GPS site.
- ☐ Averaged and factored multiple counts taken this year at the GPS site.
- ☐ Growth factored last years estimate.
- ☐ Estimated based on volume counts at nearby locations.
- ☐ Used flow maps.
- ☐ Used computerized network analyses.
- ☐ Other _____

3. METHOD FOR ESTIMATING TRUCK VOLUMES OR PERCENTAGES

- ☒ Used a single count taken this year at the GPS site.
- ☐ Factored a single count taken this year at the GPS site.
- ☐ Averaged multiple counts taken this year at the GPS site.
- ☐ Used system averages from counts taken this year.
- ☐ Used count data from nearby sites.
- ☐ Used count data taken in earlier years at the GPS site.
- ☐ Used system averages taken in earlier years at the GPS site.
- ☐ Other _____

4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☒ Based on actual lane count data.
- ☐ System distribution factors.
- ☒ Other ASSUMED 50/50 SPLIT

5. METHOD FOR ESTIMATING TRUCK AADT IN GPS LANES.

- ☒ Based on actual lane count data.
- ☐ System distribution factors.
- ☒ Other ASSUMED 50/50 SPLIT

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
- ☒ ESAL/Vehicle class (no. of classes) 11
- ☐ Other _____

7. ESAL ESTIMATES

(A) Source of Data

- ☐ Weight data collected at GPS site this year.
- ☐ Weight data collected at GPS site in prior years.
- ☒ Weight data from system averages this year.
- ☐ Weight data from system averages prior years.
- ☐ Weight data from historic W-4 Tables used.
- ☐ Other _____

(B) Weight Scale Type

- ☐ WIM scale.
- ☐ Static scale used for enforcement.
- ☐ Static scale not used for enforcement
- ☐ Other _____

NAME OF PREPARER <u>PALMER E. WERT, JR.</u>	PHONE # <u>(717)787-4574</u>
DATE PREPARED <u>10/25/90</u>	

SHEET 4 LTPP TRAFFIC DATA TRAFFIC VOLUME COUNTS	•STATE ASSIGNED ID [_____]
	•STATE CODE [42]
	•SHRP SECTION ID [1605]

HIGHWAY ROUTE NO. (THIS COUNT) 147
 MILEPOST# OR LOCATION (THIS COUNT) 780
 BEGINNING DATE 8/23/89 ENDING DATE 8/23/89
 BEGINNING TIME 01 ENDING TIME 2400
 COUNT DURATION 24 (X) HOURS () DAYS () MONTHS
 TYPE OF COUNTER STREETER NAME/MODEL# 241
 TYPE OF COUNT: TWO-WAY ONEWAY GPS TEST LANE ONLY X

<u>ITEM</u>	<u>ACTUAL COUNTS</u>	<u>UNITS</u>
1. TOTAL NO. OF VEHICLES(RAW COUNT)	7481	
2. ADJUSTMENT FACTORS(AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT	N/A	
B. AXLE CORRECTION FACTOR	N/A	
C. DAY OF THE WEEK	N/A	
D. MONTH FACTOR	N/A	
E. OTHER FACTOR(<u>24 HRS TO ADT</u>)	.863	
3. ANNUAL AVERAGE DAILY TRAFFIC(AADT) (TWO-WAY)	6456	
4. DIRECTIONAL DISTRIBUTION FACTOR	.50	
5. GPS LANE DISTRIBUTION FACTOR	.50 N/A	
6. AADT GPS LANE	3228	

NAME OF PREPARER <u>PALMER E. WERT, JR</u>	PHONE # <u>(717) 787-4574</u>
DATE PREPARED <u>10/25/90</u>	

SHEET 5 LTPP TRAFFIC DATA VEHICLE CLASSIFICATION DATA FHWA 13-CLASS SYSTEM	*STATE ASSIGNED ID [-----] *STATE CODE [42] *SHRP SECTION ID [1605]
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HIGHWAY ROUTE NO. (THIS COUNT) 147 MILEPOST#(THIS COUNT) 780
 LOCATION(THIS COUNT) _____ FUNCTIONAL CLASS 14
 BEGINNING DATE 8/23/89 ENDING DATE 8/23/89
 BEGINNING TIME 01 ENDING TIME 2400 DURATION 24

TYPE OF COUNT: MANUAL _____ AUTOMATED X NO. OF LANES COUNTED 2

TYPE OF EQUIP: AVC PERM. _____ AVC PORT. X WIM PERM _____ WIM PORT _____

EQUIPMENT NAME/MODEL# STREETER-AMET-141

TOTAL NO.VEHICLES CLASSIFIED 7481 #TRUCKS 2019 TRUCKS 27%

NO. TRUCKS IN GPS LANE 1010 %TRUCKS IN GPS LANE 14%

VEHICLE CLASSIFICATION METHOD: FHWA X OTHER _____ #BINS _____

VEHICLE CLASSES	TOTAL NUMBER OF VEHICLES TWO-WAY	TOTAL NUMBER OF VEHICLES GPS DIRECTION	TOTAL NUMBER OF VEHICLES GPS LANE
1. FHWA CLASSES 1-3	5002	2501	2501
2. FHWA CLASS 4	0	0	0
3. FHWA CLASS 5	230	115	115
4. FHWA CLASS 6	88	44	44
5. FHWA CLASS 7	45	23	23
6. FHWA CLASS 8	6	3	3
7. FHWA CLASS 9	138	68	68
8. FHWA CLASS 10	937	468	468
9. FHWA CLASS 11	9	5	5
10. FHWA CLASS 12	1	1	1
11. FHWA CLASS 13	0	0	0
12. OTHER VEHICLES	0	0	0
GRAND TOTAL	6456	3228	3228

NAME OF PREPARER <u>PALMER E. WERT, JR</u>	PHONE # <u>(717) 787-4574</u>
DATE PREPARED <u>10/25/90</u>	

**SHEET 14
LTPP TRAFFIC DATA**

EQUIPMENT INSTALLATION LOG

STATE ASSIGNED ID [0409]

STATE CODE [42]

SHRP SECTION ID [1605]

LOCATION SR 147 N'umberland Co. 500' N. of SR 662 Bridge DATE OF INSTALLATION _____

	TYPE		BRAND NAME		SERIAL NUMBER	
Control Unit(s) and peripheral equipment						
Control Unit	Phoenix	Pietzsch DAW 100	Diamond	PAT WIM	896 EE35481	E93-00387
Interface						
Modem						
Loop Amplifiers						
Other _____	①	②	①	②	①	②
Sensor(s) / Platform(s)						
GPS Lane Sensor						
Sensor Next Adjacent Lane (1)	PAT					
Sensor Next Adjacent Lane (2)						
Sensor Next Adjacent Lane (3)						
Diagonal Sensor						
Offscale Sensor						
Right Platform						
Left Platform						
Other _____						
Software						
Complete Package	Trafman V4.37	Reporter V.6.73				
Axle Spacing Algorithm Only	F	F				
Other _____	①	②				
Loops						
Upstream - Lane 1						
Downstream - Lane 1						
Upstream - Other Lanes						
Downstream - Other Lanes						

PAT Equipment - Portable, Once per quarter (Wim)
 Diamond - All year around (Cave)
 ① All Diamond information
 ② All PAT information