

SHEET 1

LTPP TRAFFIC DATA  
SUMMARY TRANSMITTAL FORM\*STATE ASSIGNED ID 161741\*STATE CODE 47\*SHRP SECTION ID 160221SB  
8-28-95

STATE OR PROVINCE TENNESSEE COUNTY POTNAM  
HIGHWAY ROUTE NO. SR-111 MILEPOST# N/A  
NEAREST CITY/TOWN COOKEVILLE NEAREST INTERSECTION I-40  
FUNCTIONAL CLASS 02 NO. LANES EACH DIRECTION 2 TOTAL NO. LANES 4  
DIRECTION OF TRAVEL GPS LANE SOUTH DATE OPENED TO TRAF. 07/26/15/70  
FIPS COUNTY CODE 141 FHWA STATION IDENTIFICATION NO. \_\_\_\_\_  
HPMS SAMPLE NO. 7101S1110322 HPMS SUBDIVISION NO. 1  
TYPE OF PAVEMENT: AC ☒ PCC \_\_\_\_\_ OTHER \_\_\_\_\_  
CONTROL OF ACCESS: YES \_\_\_\_\_ NO ☒ MEDIAN: YES ☒ NO \_\_\_\_\_  
CURRENT SURROUNDING DEVELOPMENT:  
URBAN \_\_\_\_\_ SUBURBAN \_\_\_\_\_ RURAL ☒  
HAS INTENSITY OF ROADSIDE DEVELOPMENT INCREASED OVER PAST 10 YEARS?  
YES \_\_\_\_\_ NO ☒  
IF YES, DESCRIBE CHANGES \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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 GPS TEST SECTION.

NAME OF PREPARER CHARLES N. KING PHONE # (615) 741-0957  
DATE PREPARED 8-12-91

## SHEET 2

## LTPP TRAFFIC DATA

TRAFFIC VOLUMES  
AND LOAD ESTIMATES

\*STATE ASSIGNED ID [ \_ \_ \_ \_ ]

\*STATE CODE [47]

\*SHRP SECTION ID [6022]

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 TRUCKS AADT GPS LANE	5. ESTIMATED ESAL'S/YR GPS LANE (1000's)
1989	5500	853	1901	285	116
1988	5431	842	1877	282	115
1987	6749	1047	2332	350	142
1986	3971	616	1372	206	84
1985	3463	537	1197	180	73
1984	5100	791	1763	264	108
1983	3301	512	1141	171	70
1982	5075	322	1754	263	107
1981	3832	594	1324	199	81
1980	3730	579	1289	193	79
1979	3548	550	1226	184	75
1978	2839	440	981	147	60
1977	2441	379	844	127	52
1976	1737	269	600	90	37
1975	1602	248	554	83	34
1974	1646	255	569	85	35
1973	1027	159	355	53	22
1972	2004	311	693	104	42
1971	1186	184	410	62	25
1970	1430	222	494	74	30
1969					
1968					
1967					
1966					
1965					

NAME OF PREPARER CHARLES N. KINGPHONE # (615) 741-0957DATE PREPARED 8-12-91

## SHEET 3

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

\*STATE ASSIGNED ID [ \_ \_ \_ \_ ]

\*STATE CODE [ 47 ]

\*SHRP SECTION ID [ 6022 ]

1. Year Applicable ALL

## 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 year's 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.
- ☐ Used computerized network analyses.
- ☐ Other: \_\_\_\_\_

## 4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☒ Based on actual lane count data.
- ☐ System distribution factors.
- ☐ Other: \_\_\_\_\_

## 5. METHOD FOR ESTIMATING TRUCK AADT IN GPS LANES

- ☒ Based on actual lane count data.
- ☐ System distribution factors.
- ☐ Other: \_\_\_\_\_

## 6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
- ☐ ESAL/Vehicle class. (no. of classes) \_\_\_\_\_
- ☒ Other: USED SYSTEM  
AVERAGES

## 7. ESAL ESTIMATES

## (A) Source of Data

- ☐ Weight data collected at GPS site this year.
- ☐ Weight data collected at GPS site 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 CHARLES N. KING PHONE # (615) 741-0957

DATE PREPARED 8-12-91

<p align="center"><b>SHEET 4</b></p> <p align="center"><b>LTPP TRAFFIC DATA</b></p> <p align="center"><b>TRAFFIC VOLUME COUNTS</b></p>	*STATE ASSIGNED ID [ _ _ _ _ ]
	*STATE CODE [ 47 ]
	*SHRP SECTION ID [ 6022 ]

HIGHWAY ROUTE NO. (THIS COUNT) SR-111

MILEPOST# OR LOCATION (THIS COUNT) SOUTH OF I-40

BEGINNING DATE 12-19-89 ENDING DATE 12-20-89

BEGINNING TIME 12:00 ENDING TIME 12:00

COUNT DURATION 24 [ ✓ ] HOURS [ ] DAYS [ ] MONTHS

TYPE OF COUNTER STREETEER NAME/MODEL # 5150 XT

TYPE OF COUNT: TWO-WAY ✓ ONE DIRECTION ONLY     GPS TEST LANE ONLY    

<u>ITEM</u>	<u>ACTUAL COUNTS</u>	<u>UNITS</u>
1. TOTAL NO. OF VEHICLES (RAW COUNT)		<u>--3918</u>
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT		<u>-.----</u>
B. AXLE CORRECTION FACTOR		<u>0.95</u>
C. DAY OF WEEK FACTOR	} <u>      </u>	<u>0.93</u>
D. MONTH FACTOR		<u>-.----</u>
E. OTHER FACTOR ( <u>GROWTH TREND</u> )		<u>1.589</u>
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY)		<u>--5500</u>
4. DIRECTIONAL DISTRIBUTION FACTOR		<u>-.----</u>
5. GPS LANE DISTRIBUTION FACTOR		<u>-.----</u>
6. AADT GPS LANE		<u>--1921</u>

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

NAME OF PREPARER <u>CHARLES N. KING</u>	PHONE # <u>(615) 741-0957</u>
DATE PREPARED <u>8-12-91</u>	

## LTPP TRAFFIC DATA

VEHICLE CLASSIFICATION DATA  
FHWA 13-CLASS SYSTEM

\*STATE ASSIGNED ID [\_\_\_\_\_] ]

\*STATE CODE [47]

\*SHRP SECTION ID [6022]

HIGHWAY RT. NO. (THIS COUNT) SR-111 MILEPOST# (THIS COUNT) N/ALOCATION (THIS COUNT) AT GPS LOCATION FUNCTIONAL CLASS 02BEGINNING DATE 4-3-90 ENDING DATE 4-3-90BEGINNING TIME 06:00 ENDING TIME 18:00 DURATION (HRS) 12TYPE OF COUNT: MANUAL \_\_\_\_\_ AUTOMATED ☒ NO. OF LANES COUNTED 4TYPE OF EQUIP.: AVC PERM. \_\_\_\_\_ AVC PORT. ☒ WIM PERM. \_\_\_\_\_ WIM PORT. \_\_\_\_\_EQUIPMENT NAME / MODEL # STREETER 5150 XTTOTAL NO. OF VEHICLES CLASSIFIED 3934 # TRUCKS 610 % TRUCKS 15.51NO. OF TRUCKS IN GPS LANE 286 % OF TRUCKS IN GPS LANE 15.22VEHICLE CLASSIFICATION METHOD: FHWA ☒ OTHER \_\_\_\_\_ # BINS \_\_\_\_\_

NOTE: IF THIS COUNT DOES NOT USE THE FHWA 13-BIN CLASSIFICATION SYSTEM USE SHEET 6. PLEASE DESCRIBE ON AN ATTACHED PAGE THE VEHICLE CLASSIFICATION SYSTEM USED BY THE AGENCY AND COMPLETE SHEET 7 DESCRIBING HOW THE SHA WOULD EXPAND OR COLLAPSE THE USER CLASSIFICATION SYSTEM TO CORRESPOND WITH THE FHWA 13 CLASSES.

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 (Cars, Motorcycles, Vans)	<u>4662</u>	<u>2238</u>	<u>1615</u>
2. FHWA CLASS 4 (Buses)	<u>8</u>	<u>4</u>	<u>3</u>
3. FHWA CLASS 5 (Two Axle, 6-Tire, SU Truck)	<u>252</u>	<u>121</u>	<u>93</u>
4. FHWA CLASS 6 (3 AXLE SU TRUCK)	<u>152</u>	<u>73</u>	<u>39</u>
5. FHWA CLASS 7 (4 or more Axle SU Truck)	<u>97</u>	<u>46</u>	<u>3</u>
6. FHWA CLASS 8 (4 or less axle 1-Trlr.Truck)	<u>46</u>	<u>22</u>	<u>21</u>
7. FHWA CLASS 9 (5 Axle, 1-Trlr.Truck)	<u>266</u>	<u>128</u>	<u>120</u>
8. FHWA CLASS 10 (6 or more Axle, 1-Trlr.Truck)	<u>3</u>	<u>1</u>	<u>1</u>
9. FHWA CLASS 11 (5 or less Axle, Multi-Trlr.Truck)	<u>12</u>	<u>6</u>	<u>6</u>
10. FHWA CLASS 12 (6 Axle, Multi-Trlr.Truck)	<u>0</u>	<u>0</u>	<u>0</u>
11. FHWA CLASS 13 (7 or more Axle, Multi-Trlr.Truck)	<u>0</u>	<u>0</u>	<u>0</u>
12. OTHER VEHICLES	<u>2</u>	<u>1</u>	<u>0</u>
GRAND TOTAL	<u>5500</u>	<u>2640</u>	<u>1901</u>

NAME OF PREPARER CHARLES N. KING PHONE # (615) 741-0957  
 DATE PREPARED 8-12-91

<b>SHEET 11</b> <b>LTPP TRAFFIC DATA</b>  <b>VOLUME DATA</b> <b>TRANSMITTAL FORM</b>	*STATE ASSIGNED ID [ _ _ _ _ ]
	*STATE CODE [ 42 ]
	*SHRP SECTION ID [ 6022 ]

HIGHWAY RT. NO. (THIS COUNT) S.R. 111 MILEPOST NO. (THIS COUNT) 3.21LOCATION (THIS COUNT) Putnam Co., 0.8 mile south of I-40FILENAME V476022.M12 DISK/TAPE ID 47001BEGINNING DATE 11-1-92 BEGINNING TIME 0:00ENDING DATE 11-30-92 ENDING TIME 24:00TYPE OF COUNT: TWO-WAY \_\_\_\_\_ ONE-WAY \_\_\_\_\_ GPS LANE XCOUNT DURATION 1 [ ] HOURS [ ] DAYS [X] MONTHSTYPE OF SENSOR \_\_\_\_\_ ROAD TUBES X PIEZO CABLE

\_\_\_\_\_ PIEZO FILM \_\_\_\_\_ LOOPS \_\_\_\_\_ OTHER \_\_\_\_\_

EQUIPMENT MANUFACTURER / MODEL # PAT/DAW 100

AXLE CORRECTION FACTOR \_\_\_\_\_ STANDARD DEV. OF FACTOR \_\_\_\_\_

MONTHLY/SEASONAL FACTOR \_\_\_\_\_ STANDARD DEV. OF FACTOR \_\_\_\_\_

DAY-OF-WEEK FACTOR \_\_\_\_\_ STANDARD DEV. OF FACTOR \_\_\_\_\_

OTHER FACTOR \_\_\_\_\_ STANDARD DEV. OF FACTOR \_\_\_\_\_  
SPECIFY \_\_\_\_\_DISTRIBUTION FACTOR FOR GPS LANE \_\_\_\_\_  
(WHEN NOT AVAILABLE FROM ACTUAL COUNT DATA.)

SOURCE OF GPS LANE DISTRIBUTION FACTOR ESTIMATE \_\_\_\_\_

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER <u>Ken Arnold</u>	PHONE # <u>(615) 741-1816</u>
DATE PREPARED <u>3-15-93</u>	

<p align="center"><b>SHEET 11</b></p> <p align="center"><b>LTPP TRAFFIC DATA</b></p> <p align="center"><b>VOLUME DATA</b></p> <p align="center"><b>TRANSMITTAL FORM</b></p>	<p>*STATE ASSIGNED ID [ _ _ _ _ ]</p> <p>*STATE CODE [ 42 ]</p> <p>*SHRP SECTION ID [ 0022 ]</p>
---	--

HIGHWAY RT. NO. (THIS COUNT) S.R. 111 MILEPOST NO. (THIS COUNT) 3.21LOCATION (THIS COUNT) Putnam Co., 0.8 mile south of I-40FILENAME V476022.N12 DISK/TAPE ID 47601BEGINNING DATE 12-1-92 BEGINNING TIME 0:00ENDING DATE 12-31-92 ENDING TIME 24:00TYPE OF COUNT: TWO-WAY \_\_\_\_\_ ONE-WAY \_\_\_\_\_ GPS LANE XCOUNT DURATION 1 [ ] HOURS [ ] DAYS [X] MONTHSTYPE OF SENSOR \_\_\_\_\_ ROAD TUBES X PIEZO CABLE

\_\_\_\_\_ PIEZO FILM \_\_\_\_\_ LOOPS \_\_\_\_\_ OTHER \_\_\_\_\_

EQUIPMENT MANUFACTURER / MODEL # PAT/DAW 100

AXLE CORRECTION FACTOR \_\_\_\_\_ STANDARD DEV. OF FACTOR \_\_\_\_\_

MONTHLY/SEASONAL FACTOR \_\_\_\_\_ STANDARD DEV. OF FACTOR \_\_\_\_\_

DAY-OF-WEEK FACTOR \_\_\_\_\_ STANDARD DEV. OF FACTOR \_\_\_\_\_

OTHER FACTOR \_\_\_\_\_ STANDARD DEV. OF FACTOR \_\_\_\_\_

SPECIFY \_\_\_\_\_

DISTRIBUTION FACTOR FOR GPS LANE \_\_\_\_\_

(WHEN NOT AVAILABLE FROM ACTUAL COUNT DATA.)

SOURCE OF GPS LANE DISTRIBUTION FACTOR ESTIMATE \_\_\_\_\_

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER Ken Arnold PHONE # (615) 741-1816DATE PREPARED 3-19-93

<b>SHEET 11</b> <b>LTPP TRAFFIC DATA</b>  <b>VOLUME DATA</b> <b>TRANSMITTAL FORM</b>	*STATE ASSIGNED ID [ _ _ _ _ ]
	*STATE CODE [ 42 ]
	*SHRP SECTION ID [ 0022 ]

HIGHWAY RT. NO. (THIS COUNT) S.R. 111 MILEPOST NO. (THIS COUNT) 3.21LOCATION (THIS COUNT) Putnam Co., 0.8 mile south of I-40FILENAME V476022.C03 DISK/TAPE ID 47001BEGINNING DATE 1-1-93 BEGINNING TIME 0:00ENDING DATE 1-31-93 ENDING TIME 24:00TYPE OF COUNT: TWO-WAY \_\_\_\_\_ ONE-WAY \_\_\_\_\_ GPS LANE XCOUNT DURATION 1 [ ] HOURS [ ] DAYS [X] MONTHSTYPE OF SENSOR \_\_\_\_\_ ROAD TUBES X PIEZO CABLE

\_\_\_\_\_ PIEZO FILM \_\_\_\_\_ LOOPS \_\_\_\_\_ OTHER \_\_\_\_\_

EQUIPMENT MANUFACTURER / MODEL # PAT/DAW 100

AXLE CORRECTION FACTOR \_\_\_\_\_ STANDARD DEV. OF FACTOR \_\_\_\_\_

MONTHLY/SEASONAL FACTOR \_\_\_\_\_ STANDARD DEV. OF FACTOR \_\_\_\_\_

DAY-OF-WEEK FACTOR \_\_\_\_\_ STANDARD DEV. OF FACTOR \_\_\_\_\_

OTHER FACTOR \_\_\_\_\_ STANDARD DEV. OF FACTOR \_\_\_\_\_

SPECIFY \_\_\_\_\_

DISTRIBUTION FACTOR FOR GPS LANE \_\_\_\_\_

(WHEN NOT AVAILABLE FROM ACTUAL COUNT DATA.)

SOURCE OF GPS LANE DISTRIBUTION FACTOR ESTIMATE \_\_\_\_\_

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER Ken Arnold PHONE # (615) 741-1816DATE PREPARED 3-24-93



<b>SHEET 11</b> <b>LTPP TRAFFIC DATA</b>  <b>VOLUME DATA</b> <b>TRANSMITTAL FORM</b>	*STATE ASSIGNED ID [ _ _ _ _ ]
	*STATE CODE [ 42 ]
	*SHRP SECTION ID [ 6022 ]

HIGHWAY RT. NO. (THIS COUNT) S.R. 111 MILEPOST NO. (THIS COUNT) 3.21LOCATION (THIS COUNT) Putnam Co. 0.8 mile south of I-40FILENAME V476022.D13 DISK/TAPE ID 47001BEGINNING DATE 2-1-93 BEGINNING TIME 0:00ENDING DATE 2-28-93 ENDING TIME 24:00TYPE OF COUNT: TWO-WAY \_\_\_\_\_ ONE-WAY \_\_\_\_\_ GPS LANE XCOUNT DURATION 1 [ ] HOURS [ ] DAYS [X] MONTHSTYPE OF SENSOR \_\_\_\_\_ ROAD TUBES X PIEZO CABLE

\_\_\_\_\_ PIEZO FILM \_\_\_\_\_ LOOPS \_\_\_\_\_ OTHER \_\_\_\_\_

EQUIPMENT MANUFACTURER / MODEL # PAT/DAW 100

AXLE CORRECTION FACTOR \_\_\_\_\_ STANDARD DEV. OF FACTOR \_\_\_\_\_

MONTHLY/SEASONAL FACTOR \_\_\_\_\_ STANDARD DEV. OF FACTOR \_\_\_\_\_

DAY-OF-WEEK FACTOR \_\_\_\_\_ STANDARD DEV. OF FACTOR \_\_\_\_\_

OTHER FACTOR \_\_\_\_\_ STANDARD DEV. OF FACTOR \_\_\_\_\_

SPECIFY \_\_\_\_\_

DISTRIBUTION FACTOR FOR GPS LANE \_\_\_\_\_  
(WHEN NOT AVAILABLE FROM ACTUAL COUNT DATA.)

SOURCE OF GPS LANE DISTRIBUTION FACTOR ESTIMATE \_\_\_\_\_

COMMENTS: This section is being dropped from further study  
due to being scheduled for "cold planing" and overlay.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER Ken Arnold PHONE # (615) 741-1816DATE PREPARED 3-31-93