

<b>SHEET 1</b> <b>LTPP TRAFFIC DATA</b> <b>SUMMARY TRANSMITTAL FORM</b>	*STATE ASSIGNED ID [ <u>2025</u> ] *STATE CODE [ <u>29</u> ] *SHRP SECTION ID [ <u>5473</u> ]
---	---

STATE OR PROVINCE Missouri COUNTY Cooper  
 HIGHWAY ROUTE NO. I-70 MILEPOST# \_\_\_\_\_  
 NEAREST CITY/TOWN 4 mi. e/o Boonville NEAREST INTERSECTION 2.2 mi. e/o Rte. 87  
 FUNCTIONAL CLASS 01 NO. LANES EACH DIRECTION 2 TOTAL NO. LANES 4  
 DIRECTION OF TRAVEL GPS LANE W DATE OPENED TO TRAF. - - 89  
 FIPS COUNTY CODE 53 FHWA STATION IDENTIFICATION NO. \_\_\_\_\_  
 HPMS SAMPLE NO. 127162021238 HPMS SUBDIVISION NO. 0  
 TYPE OF PAVEMENT: AC X PCC \_\_\_\_\_ OTHER X  
 CONTROL OF ACCESS: YES X NO \_\_\_\_\_ MEDIAN: YES X NO \_\_\_\_\_  
 CURRENT SURROUNDING DEVELOPMENT:  
 URBAN \_\_\_\_\_ SUBURBAN \_\_\_\_\_ RURAL X  
 HAS INTENSITY OF ROADSIDE DEVELOPMENT INCREASED OVER PAST 10 YEARS?  
 YES \_\_\_\_\_ NO X  
 IF YES, DESCRIBE CHANGES \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

The Federal Highway Administration has been provided the No. 7 format truck weight records.

**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.**

Sheets included: 1, 2, 3, 4, 5

NAME OF PREPARER <u>John Rankin</u> DATE PREPARED <u>10-90</u>	PHONE # <u>(314) 751-3980</u>
---	-------------------------------

<b>SHEET 2</b>  <b>LTPP TRAFFIC DATA</b>  <b>TRAFFIC VOLUMES AND LOAD ESTIMATES</b>	*STATE ASSIGNED ID [ <u>500</u> <u>7025</u> ]  *STATE CODE [ <u>29</u> ]  *SHRP SECTION ID [ <u>5473</u> ]
---	---

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	<u>21,100</u>	<u>5490</u>	<u>8312</u>	<u>2248</u>	<u>1326</u>
1988	<u>20,018</u>	<u>4962</u>	<u>7659</u>	<u>2089</u>	<u>1232</u>
1987	<u>19,397</u>	<u>4808</u>	<u>7492</u>	<u>2041</u>	<u>1204</u>
1986	<u>21,662</u>	<u>5370</u>	<u>8493</u>	<u>2199</u>	<u>1297</u>
1985	<u>15,975</u>	<u>3960</u>	<u>6702</u>	<u>1709</u>	<u>932</u>
1984	<u>15,434</u>	<u>3844</u>	<u>6475</u>	<u>1659</u>	<u>908</u>
1983	<u>15,708</u>	<u>3913</u>	<u>6691</u>	<u>1689</u>	<u>924</u>
1982	<u>15,133</u>	<u>3770</u>	<u>6446</u>	<u>1627</u>	<u>890</u>
1981	<u>14,692</u>	<u>3124</u>	<u>6248</u>	<u>1348</u>	<u>743</u>
1980	<u>16,597</u>	<u>3529</u>	<u>6844</u>	<u>1523</u>	<u>840</u>
1979	<u>16,886</u>	<u>3590</u>	<u>6899</u>	<u>1536</u>	<u>847</u>
1978	<u>17,830</u>	<u>3653</u>	<u>6888</u>	<u>1564</u>	<u>787</u>
1977	<u>17,530</u>	<u>3591</u>	<u>7087</u>	<u>1537</u>	<u>774</u>
1976	<u>16,695</u>	<u>3420</u>	<u>6814</u>	<u>1476</u>	<u>743</u>
1975	<u>16,695</u>	<u>3060</u>	<u>6806</u>	<u>1320</u>	<u>709</u>
1974	<u>13,613</u>	<u>2495</u>	<u>5713</u>	<u>1104</u>	<u>593</u>
1973	<u>15,384</u>	<u>2820</u>	<u>6467</u>	<u>1228</u>	<u>660</u>
1972	<u>14,936</u>	<u>2861</u>	<u>6281</u>	<u>1246</u>	<u>644</u>
1971	<u>12,154</u>	<u>2328</u>	<u>5214</u>	<u>1038</u>	<u>537</u>
1970	<u>11,800</u>	<u>2260</u>	<u>5101</u>	<u>1008</u>	<u>521</u>
1969	<u>11,132</u>	<u>1689</u>	<u>4848</u>	<u>760</u>	<u>373</u>
1968	<u>10,120</u>	<u>1536</u>	<u>4448</u>	<u>697</u>	<u>342</u>
1967	<u>10,313</u>	<u>1470</u>	<u>4531</u>	<u>667</u>	<u>323</u>
1966	<u>9375</u>	<u>1336</u>	<u>3863</u>	<u>611</u>	<u>296</u>
1965	<u>8165</u>	<u>1272</u>	<u>3025</u>	<u>586</u>	<u>284</u>

NAME OF PREPARER <u>Fred Trippensee</u>	PHONE # <u>314-751-3980</u>
DATE PREPARED <u>Sept. 92'</u>	

<p>SHEET 2</p> <p><b>LTPP TRAFFIC DATA</b></p> <p><b>TRAFFIC VOLUMES AND LOAD ESTIMATES</b></p>	<p>*STATE ASSIGNED ID [ <u>500</u> <u>7025</u> ]</p> <p>*STATE CODE [ <u>22</u> ]</p> <p>*SHRP SECTION ID [ <u>5473</u> <u>  </u> ]</p>
---	---

NOT ENTERED

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)
1964	<u>6470</u>	<u>1208</u>	<u>2949</u>	<u>565</u>	<u>274</u>
1963	<u>6282</u>	<u>1174</u>	<u>2886</u>	<u>549</u>	<u>266</u>
1962	<u>5836</u>	<u>1090</u>	<u>2681</u>	<u>510</u>	<u>247</u>
1961	<u>5480</u>	<u>1024</u>	<u>2529</u>	<u>473</u>	<u>229</u>
1960	<u>5190</u>	<u>970</u>	<u>2396</u>	<u>448</u>	<u>217</u>
19	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
19	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
19	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
19	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>

NAME OF PREPARER <u>Fred Trippensee</u>	PHONE # <u>314-751-3980</u>
DATE PREPARED <u>Sept 92'</u>	

<b>SHEET 2</b> <b>LTPP TRAFFIC DATA</b>  <b>TRAFFIC VOLUMES AND LOAD ESTIMATES</b>	*STATE ASSIGNED ID [ <u>7 0 2 5</u> ] *STATE CODE [ <u>2 9</u> ] *SHRP SECTION ID [ <u>5 4 7 3</u> ]
---	--

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	<u>21,100</u>	<u>5,490</u>	<u>8,312</u>	<u>2,248</u>	<u>1,326</u>
1988	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1987	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1986	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1985	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1984	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1983	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1982	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1981	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1980	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1979	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1978	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1977	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1976	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1975	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1974	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1973	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1972	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1971	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1970	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1969	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1968	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1967	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1966	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
1965	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>

NAME OF PREPARER <u>John Rankin</u>	PHONE # <u>(314) 751-3980</u>
DATE PREPARED <u>10-90</u>	

**SHEET 3**

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

\*STATE ASSIGNED ID [ 7 0 2 5 ]

\*STATE CODE [ 2 9 ]

\*SHRP SECTION ID [ 5 4 7 3 ]

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 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) 13
- ☐ Other: \_\_\_\_\_

**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: Nearby site

**(B) Weight Scale Type**

- ☒ WIM scale.
- ☐ Static scale used for enforcement.
- ☐ Static scale not used for enforcement.
- ☐ Other: \_\_\_\_\_

NAME OF PREPARER John Rankin

PHONE # (314) 751-3980

DATE PREPARED 10-90

<b>SHEET 4</b>  <b>LTPP TRAFFIC DATA</b>  <b>TRAFFIC VOLUME COUNTS</b>	*STATE ASSIGNED ID [ 7 0 2 5 ] *STATE CODE [ 2 9 ] *SHRP SECTION ID [ 5 4 7 3 ]
--	---

HIGHWAY ROUTE NO. (THIS COUNT) I-70

MILEPOST# OR LOCATION (THIS COUNT) 0.5 mi. e/o Rte. 179

BEGINNING DATE 9-7-89 ENDING DATE 9-19-89

BEGINNING TIME 4:00 p.m. ENDING TIME 12:00 a.m.

COUNT DURATION 12 [ ] HOURS [X] DAYS [ ] MONTHS

TYPE OF COUNTER Streeter NAME/MODEL # 241

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

<b>ACTUAL COUNTS</b>	
<b>ITEM</b>	<b>UNITS</b>
1. TOTAL NO. OF VEHICLES (RAW COUNT)	<u>388,225</u>
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):	
A. ADJUSTMENT TO 24-HOUR COUNT	<u>.04</u>
B. AXLE CORRECTION FACTOR	<u>.740</u>
C. DAY OF WEEK FACTOR (12 day count)	<u>.973</u> (Avg.)
D. MONTH FACTOR	<u>.944</u>
E. OTHER FACTOR ( <u>                                </u> )	<u>.0</u>
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY)	<u>21,100</u>
4. DIRECTIONAL DISTRIBUTION FACTOR	<u>.50</u>
5. GPS LANE DISTRIBUTION FACTOR	<u>.788</u>
6. AADT GPS LANE	<u>8,312</u>

**NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.**

NAME OF PREPARER <u>John Rankin</u>	PHONE # <u>(314) 751-3980</u>
DATE PREPARED <u>10-90</u>	

**SHEET 14  
LTPP TRAFFIC DATA  
EQUIPMENT INSTALLATION LOG**

\*STATE ASSIGNED ID  
\*STATE CODE  
\*SHRP SECTION ID

[0500]  
[129]  
[5473]

LOCATION 5700-5 mi. ep M087  
INSTALLATION DATE \_\_\_\_\_

	TYPE	BRAND NAME	SERIAL NUMBER
Control Unit(s) and peripheral equipment	IRD Model/1067 WIM	I.R.D.	9906-5712
Control Unit	IRD Model/1067 WIM	I.R.D.	9906-5712
Interface	-	-	
Modem	56K V.92	U.S. Robotics	
Loop Amplifiers	N/A		
Other _____	N/A		
Sensor(s) / Platform(s)	PIEZO	Measurement Specialties	
LTPP Lane Sensor	PIEZO CLASS 1	" "	
Sensor Next Adjacent Lane (1)	PIEZO CLASS 2	" "	
Senor Next Adjacent Lane (2)	-		
Sensor Next Adjacent Lane (3)	-		
Diagonal Sensor	N/A		
Offscale Sensor	N/A		
Right Platform	N/A		
Left Platform	N/A		
Other _____	N/A		
Software	I.R.D. R7.50	I.R.D. Software	
Complete Package	-		
Axle Spacing Algorithm Only	72 inches		
Other _____	-		
Loops	Electro-Magnetic	18ga. Wire 4turns 6'x6'	
Upstream - Lane 1	Electro-Magnetic	18ga. Wire 4turns 6'x6'	
Downstream - Lane 1	-	-	
Upstream - Other Lanes	Electro-Magnetic	18ga. Wire 4turns 6'x6'	
Downstream - Other Lanes	Electro-Magnetic	18ga. Wire 4turns 6'x6'	

revised November 11, 1999

<b>SHEET 15</b> <b>LTPP TRAFFIC DATA</b>  <b>LOG OF CHANGE AT LTPP TEST</b> <b>LOCATIONS WITH PERM. AVC OR WIM</b>	*STATE ASSIGNED ID	[0500] WB
	*STATE CODE	[29]
	*SHRP SECTION ID	[5473]

LOCATION IS 70 TYPE EQUIP. IRD  
 MP# 2.2 MODEL # 1068

DATE OF CHANGE	TIME OF CHANGE	DESCRIPTION OF CHANGE	PERSON MAKING CHANGE	PHONE #	NEW EQUIP. SERIAL #
		Equipment Failure	Field Acquisition Crew		
		No Class or Volume			
		for following dates:			
		1/1, 1/4, 2/4, 4/3, 4/29			
		7/12, 7/13, 7/14, 7/15, 7/26			
		thru 7/31, 8/1, 8/2, 8/3			
		8/24, 8/26, 9/10 thru			
		9/23, 9/27 thru 9/29			
		10/8 thru 10/13, 11/18,			
		No Class Data Available for date below.			
		1/6			

revised November 11, 1999



<b>SHEET 15</b> <b>LTPP TRAFFIC DATA</b>  <b>LOG OF CHANGE AT LTPP TEST</b> <b>LOCATIONS WITH PERM. AVC OR WIM</b>	*STATE ASSIGNED ID	[0500]
	*STATE CODE	[29]
	*SHRP SECTION ID	[5473]

LOCATION IS to Woodland School TYPE EQUIP. IRD  
 MP# \_\_\_\_\_ MODEL # 1068

DATE OF CHANGE	TIME OF CHANGE	DESCRIPTION OF CHANGE	PERSON MAKING CHANGE	PHONE #	NEW EQUIP. SERIAL #
4/6-7		No class/Wim/Equipment Change	Field Acquisition Crew		
8/1-4, 12					
8/16-26					
9/1-9					
10/14-20, 31					
11/1-5, 24-30					
12/1-9, 30-31					

revised November 11, 1999

SHEET 15 LTPP TRAFFIC DATA  LOG OF CHANGE AT LTPP TEST LOCATIONS WITH PERM. AVC OR WIM	*STATE ASSIGNED ID	[0500]
	*STATE CODE	[29]
	*SHRP SECTION ID	[5473]

LOCATION IS 70 0.5 miles e/o mo 87  
 TYPE EQUIP. 1RD  
 MP# 2.2 MODEL # 1067

DATE OF CHANGE	TIME OF CHANGE	DESCRIPTION OF CHANGE	PERSON MAKING CHANGE	PHONE #	NEW EQUIP. SERIAL #
1/1-9, 11-17	all day	no class / wim, equipment	Field Acquisition		
3/8		problems	crew		
6/28					
7/5, 10-18, 20-21					
8/7-9					
9/27-30					
10/11-31					
11/1-2					
12/1					

revised November 11, 1999

<b>SHEET 15</b> <b>LTPP TRAFFIC DATA</b>  <b>LOG OF CHANGE AT LTPP TEST</b> <b>LOCATIONS WITH PERM. AVC OR WIM</b>	*STATE ASSIGNED ID	[0500]
	*STATE CODE	[29]
	*SHRP SECTION ID	[5473]

LOCATION IS TO 0.5 miles e 10 mo 87 TYPE EQUIP. IRD  
 MP# 2.2 MODEL # 1067

DATE OF CHANGE	TIME OF CHANGE	DESCRIPTION OF CHANGE	PERSON MAKING CHANGE	PHONE #	NEW EQUIP. SERIAL #
2/1	all day	no class/wim, equipment problems	Field Acquisition crew		
3/13-20					
4/13-12					
8/18-31					
9/1-18, 20-21					
9/23-30					
10/3-4, 10, 8-14, 18-25					
10/30-31					
11/1, 10, 8/14, 20-21					
12/3-B, 29-31	✓	✓	✓		

revised November 11, 1999

<p align="center">SHEET 15 LTPP TRAFFIC DATA</p> <p align="center">LOG OF CHANGE AT LTPP TEST LOCATIONS WITH PERM. AVC OR WIM</p>	*STATE ASSIGNED ID	[0500]
	*STATE CODE	[29]
	*SHRP SECTION ID	[5473]

LOCATION IS 70 TYPE EQUIP. IRD  
 MP# 2, 2 MODEL # 1067

DATE OF CHANGE	TIME OF CHANGE	DESCRIPTION OF CHANGE	PERSON MAKING CHANGE	PHONE #	NEW EQUIP. SERIAL #
		EQUIPMENT FAILURE	FIELD ACQ CREW		
		NO VOLUME OR CLASS :			
		1/27, 1/28, 2/1 - 2/10, 2/24			
		2/26, 2/27, 3/4, 5/8, 8/7			
		10/12, 10/20			
		NO CLASS DATA ONLY :			
		4/7, 12/13, 12/14			

revised November 11, 1999

<b>SHEET 15</b> <b>LTPP TRAFFIC DATA</b>  <b>LOG OF CHANGE AT LTPP TEST</b> <b>LOCATIONS WITH PERM. AVC OR WIM</b>	**STATE ASSIGNED ID	[ 0500 ]
	*STATE CODE	[ 29 ]
	*SHRP SECTION ID	[ 5473 ]

LOCATION IS 70 TYPE EQUIP. IRD

MP# 2.2 MODEL # 1067

DATE OF CHANGE	TIME OF CHANGE	DESCRIPTION OF CHANGE	PERSON MAKING CHANGE	PHONE #	NEW EQUIP. SERIAL #
		<i>No volume and class:</i>			
		<i>2/13, 5/24 to 5/27, 7/6 to 7/16</i>			
		<i>8/6, 9/10, 10/15 to 10/18, 12/7 to 12/10</i>			
		<i>12/12, 12/13, 12/15, 12/17 to 12/19</i>			

revised November 11, 1999