

JUN 18 2008

295503

NAME OF PREPARER Fred Trippensee PHONE # (314) 751-3980
DATE PREPARED 10-90

SHEET 2 LTPP TRAFFIC DATA TRAFFIC VOLUMES AND LOAD ESTIMATES	*STATE ASSIGNED ID [4 0 0 6] *STATE CODE [2 9] *SHRP SECTION ID [4 0 3 1]
-----------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------

5503

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	9,367	1,530	4,164	696	470
1988	9,094	1,485	4,043	676	456
1987	8,803	1,438	3,913	654	442
1986	8,673	1,416	3,856	644	435
1985	7,695	1,257	3,508	586	396
1984	7,336	1,198	3,345	559	377
1983	7,125	1,164	3,153	527	356
1982					
1981					
1980					
1979					
1978					
1977					
1976					
1975					
1974					
1973					
1972					
1971					
1970					
1969					
1968					
1967					
1966					
1965					

NAME OF PREPARER <u>Fred Trippensee</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 [4 0 0 6]

*STATE CODE [2 9]

*SHRP SECTION ID [4 0 3 1]

1. Year Applicable 1988-1983

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: Actual machine counts in '86, '84. Growth trends on estimated years. Counts not available.

3. METHOD FOR ESTIMATING TRUCK VOLUMES OR PERCENTAGES

- ☒ Used a single count taken this year at the GPS site. (1989-AVC)
☐ 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: Weight data collected at GPS site - 1989

(B) Weight Scale Type

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

NAME OF PREPARER Fred TrippenseePHONE # (314) 751-3980DATE PREPARED 10-90

SHEET 3

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

*STATE ASSIGNED ID [4 0 0 6]

*STATE CODE [2 9]

*SHRP SECTION ID [4-0-3-1]

5573

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: Base year actual machine count not available.

3. METHOD FOR ESTIMATING TRUCK VOLUMES OR PERCENTAGES

- ☒ Used a single count taken this year at the GPS site. (AVC)
☐ 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: _____

(B) Weight Scale Type

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

NAME OF PREPARER Fred TrippenseePHONE # (314) 751-3980DATE PREPARED 10-90

SHEET 5 LTPP TRAFFIC DATA VEHICLE CLASSIFICATION DATA FHWA 13-CLASS SYSTEM	*STATE ASSIGNED ID [4 0 0 6] *STATE CODE [2 9] *SHRP SECTION ID [4 0 3 1]
-------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------

HIGHWAY RT. NO. (THIS COUNT) _____ MILEPOST# (THIS COUNT) 2502

LOCATION (THIS COUNT) _____ FUNCTIONAL CLASS _____

BEGINNING DATE _____ ENDING DATE _____

BEGINNING TIME _____ ENDING TIME _____ DURATION (HRS) _____

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

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

EQUIPMENT NAME / MODEL # _____

TOTAL NO. OF VEHICLES CLASSIFIED _____ # TRUCKS _____ % TRUCKS _____

NO. OF TRUCKS IN GPS LANE _____ % OF TRUCKS IN GPS LANE _____

VEHICLE 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)	_____	_____	_____
2. FHWA CLASS 4 (Buses)	_____	_____	_____
3. FHWA CLASS 5 (Two Axle, 6-Tire, SU Truck)	_____	_____	_____
4. FHWA CLASS 6 (3 AXLE SU TRUCK)	_____	_____	_____
5. FHWA CLASS 7 (4 or more Axle SU Truck)	_____	_____	_____
6. FHWA CLASS 8 (4 or less axle 1-Trlr.Truck)	_____	_____	_____
7. FHWA CLASS 9 (5 Axle, 1-Trlr.Truck)	_____	_____	_____
8. FHWA CLASS 10 (6 or more Axle, 1-Trlr.Truck)	_____	_____	_____
9. FHWA CLASS 11 (5 or less Axle, Multi-Trlr.Truck)	_____	_____	_____
10. FHWA CLASS 12 (6 Axle, Multi-Trlr.Truck)	_____	_____	_____
11. FHWA CLASS 13 (7 or more Axle, Multi-Trlr.Truck)	_____	_____	_____
12. OTHER VEHICLES	_____	_____	_____
GRAND TOTAL	_____	_____	_____

NAME OF PREPARER Fred Trippensee

PHONE # (314) 751-3980

DATE PREPARED 10-90

SHEET 7 LTPP TRAFFIC DATA VEHICLE CLASSIFICATION CONVERSION CHART	*STATE ASSIGNED ID [740] SB
	*STATE CODE [29]
	*SHRP SECTION ID [5503_]

FOR 4-BIN, 6-BIN, OR OTHER CLASSIFICATION SYSTEMS NOT MATCHING FHWA 13-BIN SCHEME.

USE THIS SHEET TO DESCRIBE HOW THE AGENCY’S CLASSIFICATION SYSTEM CAN BE CONVERTED TO THE FHWA 13 BINS. ENTER PERCENTAGE OF TOTAL SHA CLASS DISTRIBUTED TO EACH FHWA CLASS.

APPLICABLE PERIOD *FROM January 2006 *TO December 2006

FHWA CLASSES													
SHA CLASS	1-3	4	5	6	7	8	9	10	11	12	13	OTHER	TOTAL
*A	_69_	___	_06_	_01_	___	_02_	_21_	___	_01_	_ _	___	___	*_100_
*B	___	___	___	___	___	___	___	___	___	___	___	___	*_ _
C	___	___	___	___	___	___	___	___	___	___	___	___	___
D	___	___	___	___	___	___	___	___	___	___	___	___	___
E	___	___	___	___	___	___	___	___	___	___	___	___	___
F	___	___	___	___	___	___	___	___	___	___	___	___	___
G	___	___	___	___	___	___	___	___	___	___	___	___	___
H	___	___	___	___	___	___	___	___	___	___	___	___	___
I	___	___	___	___	___	___	___	___	___	___	___	___	___
J	___	___	___	___	___	___	___	___	___	___	___	___	___
K	___	___	___	___	___	___	___	___	___	___	___	___	___
L	___	___	___	___	___	___	___	___	___	___	___	___	___
M	___	___	___	___	___	___	___	___	___	___	___	___	___
N	___	___	___	___	___	___	___	___	___	___	___	___	___
O	___	___	___	___	___	___	___	___	___	___	___	___	___
P	___	___	___	___	___	___	___	___	___	___	___	___	___
Q	___	___	___	___	___	___	___	___	___	___	___	___	___
R	___	___	___	___	___	___	___	___	___	___	___	___	___
S	___	___	___	___	___	___	___	___	___	___	___	___	___
T	___	___	___	___	___	___	___	___	___	___	___	___	___
TOTAL	___	___	*_ _	___	___	___	*_ _	___	___	___	___	___	*_ _

NAME OF PREPARER	Mary L. Kladiva	PHONE#	573-526-4907
DATE PREPARED	June 19, 2006	rev. March 12, 2001	

SHEET 14 LTPP TRAFFIC DATA EQUIPMENT INSTALLATION LOG	*STATE ASSIGNED ID	0740	LOCATION US 71 1.6 mi. S of Res. H & K
	*STATE CODE	129	
	*SHRP SECTION ID	5503	
			INSTALLATION DATE _____

	TYPE	BRAND NAME	SERIAL NUMBER
Control Unit(s) and peripheral equipment	IRD 1067 WIM	I.R.D	9906-5719
Control Unit	IRD Model 1067 WIM	I.R.D	9906-5719
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	Measurement Specialties	
Sensor Next Adjacent Lane (1)	PIEZO CLASS 2	Measurement Specialties	
Sensor 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	IRD. R 7.50	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

SHEET 15 LTPP TRAFFIC DATA LOG OF CHANGE AT LTPP TEST LOCATIONS WITH PERM. AVC OR WIM	*STATE ASSIGNED ID	[0740] SB
	*STATE CODE	[29]
	*SHRP SECTION ID	[5503]

LOCATION US 71 TYPE EQUIP. Peek
 MP# 315 MODEL # ADR 3000

DATE OF CHANGE	TIME OF CHANGE	DESCRIPTION OF CHANGE	PERSON MAKING CHANGE	PHONE #	NEW EQUIP. SERIAL #
		Equipment Failure	Field Acquisition Crew		
		No Volume			
		for following dates:			
		3/14, 3/27, 4/6, 4/8, 4/9			
		4/13, 6/16, 8/3, 8/4, 8/10,			
		8/11, 9/19 thru 9/28, 10/3,			
		11/8,			
		No Class Data Available			

revised November 11, 1999

SHEET 15 LTPP TRAFFIC DATA LOG OF CHANGE AT LTPP TEST LOCATIONS WITH PERM. AVC OR WIM	*STATE ASSIGNED ID	[0740]
	*STATE CODE	[29]
	*SHRP SECTION ID	[5503]

LOCATION US 71 TYPE EQUIP. _____
 MP# _____ MODEL # _____

DATE OF CHANGE	TIME OF CHANGE	DESCRIPTION OF CHANGE	PERSON MAKING CHANGE	PHONE #	NEW EQUIP. SERIAL #

**SHEET 15
LTPP TRAFFIC DATA**

**LOG OF CHANGE AT LTPP TEST
LOCATIONS WITH PERM. AVC OR WIM**

*STATE ASSIGNED ID

[0740]

*STATE CODE

[29]

*SHRP SECTION ID

[5503]

LOCATION US 71 1.6 mi. s/p Res. H & K TYPE EQUIP. IRD
MP# 3.5 MODEL # 1067

DATE OF CHANGE	TIME OF CHANGE	DESCRIPTION OF CHANGE	PERSON MAKING CHANGE	PHONE #	NEW EQUIP. SERIAL #
2/26/04		adjusted sensors	Curt Evers		
3/2/04		reset unit	Curt Evers + Tom Jones		
3/30/04		unclassifieds high - adjusted replaced splice	Curt Evers + Tom Jones		
6/21/04		replaced piezos	Tom Jones		
8/23/04		replaced piezos	Curt, Tom, Dave, Steve		
8/10/04		repair work on lanes ^{in the middle} of the ^{where} the ^{data may} appear in one lane.			
10/24/04		Replaced unit	Tom Jones		

revised November 11, 1999

SHEET 15 LTPP TRAFFIC DATA LOG OF CHANGE AT LTPP TEST LOCATIONS WITH PERM. AVC OR WIM	*STATE ASSIGNED ID	[0740] sb
	*STATE CODE	[29]
	*SHRP SECTION ID	[5503]

LOCATION US 71 1.6 miles s/w Rt. H&K TYPE EQUIP. IRD
 MP# 3.5 MODEL # 1067

DATE OF CHANGE	TIME OF CHANGE	DESCRIPTION OF CHANGE	PERSON MAKING CHANGE	PHONE #	NEW EQUIP. SERIAL #
4/17-05	all day	no class wim, equipment	Field Acquisition		
5/22-04	↓	problem	new		
10/10	↓	↓	↓		
11/30	↓	↓	↓		

revised November 11, 1999

SHEET 15 LTPP TRAFFIC DATA LOG OF CHANGE AT LTPP TEST LOCATIONS WITH PERM. AVC OR WIM	*STATE ASSIGNED ID	[0740] 50
	*STATE CODE	[09]
	*SHRP SECTION ID	[5503]

LOCATION US 7-1 1.6 miles S/O RT5. H&K
 TYPE EQUIP. IRD
 MP# 3-5 MODEL # 1067

DATE OF CHANGE	TIME OF CHANGE	DESCRIPTION OF CHANGE	PERSON MAKING CHANGE	PHONE #	NEW EQUIP. SERIAL #
1/15-10	all day	no class/wim, equipment	Field Acquisition		
0/8-19		problems	crew		
3/12-16					
4/8-18 20-30					
5/1-14					
6/11					
7/9-11					
8/1-15					
10/19-14	✓	✓	✓		

revised November 11, 1999

SHEET 15 LTPP TRAFFIC DATA LOG OF CHANGE AT LTPP TEST LOCATIONS WITH PERM. AVC OR WIM	*STATE ASSIGNED ID	[0740]
	*STATE CODE	[29]
	*SHRP SECTION ID	[5503]

LOCATION US 71 TYPE EQUIP. PEEK
 MP# 3.5 MODEL # ADR 3000

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:			
		1/12, 1/25, 1/27, 2/1 - 2/11			
		3/1 - 3/6, 3/10, 3/13, 3/22			
		8/22 - 8/31, 10/3, 10/17, 10/18			
		11/8 - 11/21			
		NO CLASS DATA ONLY:			
		1/1 - 8/21			

revised November 11, 1999

SHEET 15 LTPP TRAFFIC DATA LOG OF CHANGE AT LTPP TEST LOCATIONS WITH PERM. AVC OR WIM	**STATE ASSIGNED ID	[0740]
	*STATE CODE	[29]
	*SHRP SECTION ID	[5503]

LOCATION US 71 TYPE EQUIP. PEEK
 MP# 3.5 MODEL # ADR 3000

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, 3/23 to 4/1, 4/5 to 4/9, 4/14, 4/15</i>			
		<i>4/29, 4/30, 5/2 to 5/6</i>			

revised November 11, 1999