

SHEET <u>1</u> <b>LTPP TRAFFIC DATA</b> <b>SUMMARY TRANSMITTAL FORM</b>	*STATE ASSIGNED ID [ _ _ _ _ ] *STATE CODE [ <u>08</u> ] *SHRP SECTION ID [ <u>1035</u> ]
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STATE OR PROVINCE COLORADO COUNTY ADAMS  
 HIGHWAY ROUTE NO. I 70 MILEPOST# 286.2  
 NEAREST CITY/TOWN DENVER NEAREST INTERSECTION 0.5 MI. E/I 5H 32  
 FUNCTIONAL CLASS II NO. LANES EACH DIRECTION 2 TOTAL NO. LANES 4  
 DIRECTION OF TRAVEL GPS LANE E DATE OPENED TO TRAF. 08 - 84  
 FIPS COUNTY CODE 001 FHWA STATION IDENTIFICATION NO. \_\_\_\_\_  
 HPMS SAMPLE NO. 001-0166-070 HPMS SUBDIVISION NO. \_\_\_\_\_  
 TYPE OF PAVEMENT: AC \_\_\_\_\_ PCC \_\_\_\_\_ OTHER X  
 CONTROL OF ACCESS: YES X NO \_\_\_\_\_ MEDIAN: YES X NO \_\_\_\_\_  
 CURRENT SURROUNDING DEVELOPMENT:  
 URBAN \_\_\_\_\_ SUBURBAN X RURAL \_\_\_\_\_  
 HAS INTENSITY OF ROADSIDE DEVELOPMENT INCREASED OVER PAST 10 YEARS?  
 YES \_\_\_\_\_ NO X  
 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.

ENTERED  
 DEC 11 1991

By \_\_\_\_\_

NAME OF PREPARER <u>BOB TENNEY</u>	PHONE # <u>303-757-9489</u>
DATE PREPARED <u>28 DEC 90</u>	

ENTERED  
 2/6/91

## LTPP TRAFFIC DATA

TRAFFIC VOLUMES  
AND LOAD ESTIMATES

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

\*STATE CODE [ 08 ]

\*SHRP SECTION ID [ 7035 ]

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)
ASSUMED RIGID EQUIVALENCIES					
1989	9600	2112	4320	950	477
1988	9400	2020	4230	909	456
1987	9700	2328	4365	1048	526
1986	9700	2328	4365	1048	526
1985	9600	2304	4320	1037	520
1984	8900	2304	4005	1037	519
1983					
1982					
1981					
1980					
1979					
1978					
1977					
1976					
1975					
1974					
1973					
1972					
1971					
1970					
1969					
1968					
1967					
1966					
1965					

ENTERED

DEC 11 1991

By \_\_\_\_\_

NAME OF PREPARER BOB TENNEY

PHONE # 303-757-9489

DATE PREPARED 28 DEC 90

ENTERED  
DEC 26 1991

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

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

\*STATE CODE [ 08 ]

\*SHRP SECTION ID [ 7035 ]

1. Year Applicable 1988

## 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) 3
- ☐ 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: \_\_\_\_\_

ENTERED

DEC 11 1991

By \_\_\_\_\_

NAME OF PREPARER BOB TENNEYPHONE # 303-757-9489DATE PREPARED 28 DEC 90

ENTERED  
2/6/91

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

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

\*STATE CODE [ 08 ]

\*SHRP SECTION ID [ 7035 ]

1. Year Applicable 1987

## 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) 3
- ☐ 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: \_\_\_\_\_

ENTERED

DEC 11 1991

By \_\_\_\_\_

NAME OF PREPARER BOB TENNEYPHONE # 303-757-9489DATE PREPARED 28 DEC 90

ENTERED  
DEC 21 1991

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

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

\*STATE CODE [ 28 ]

\*SHRP SECTION ID [ 1053 ]

1. Year Applicable 1986

## 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) 3
- ☐ 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: \_\_\_\_\_

ENTERED

DEC 11 1991

By \_\_\_\_\_

NAME OF PREPARER BOB TENNEYPHONE # 303-757-9489DATE PREPARED 28 DEC 90

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

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

\*STATE CODE [ 08 ]

\*SHRP SECTION ID [ 7053 ]

1. Year Applicable 1984

**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) 3  
☐ 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: \_\_\_\_\_

**ENTERED  
DEC 11 1991**

By \_\_\_\_\_

NAME OF PREPARER BOB TENNEY

PHONE # 303-757-9489

DATE PREPARED 28 DEC 90

**ENTERED  
2/6/91**

SHEET <u>4</u> <b>LTPP TRAFFIC DATA</b> <b>TRAFFIC VOLUME COUNTS</b>	*STATE ASSIGNED ID [ _ _ _ _ ] *STATE CODE <u>108</u> *SHRP SECTION ID <u>17035</u>
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HIGHWAY ROUTE NO. (THIS COUNT) I 70  
 MILEPOST# OR LOCATION (THIS COUNT) 288.6  
 BEGINNING DATE 8-17-87 ENDING DATE 8-19-87  
 BEGINNING TIME <sup>0000</sup> NA ENDING TIME <sup>0000</sup> NA  
 COUNT DURATION 48 [X] HOURS [ ] DAYS [ ] MONTHS  
 TYPE OF COUNTER GOLDEN RIVER NAME/MODEL # MARKSMAN 330  
 TYPE OF COUNT: TWO-WAY X 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>19400</u> <sup>upt</sup> <u>NA</u>
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT		<u>AVERAGE FOR EACH HOUR + SUM = 15276</u>
B. AXLE CORRECTION FACTOR		<u>SUBTRACT 2800 FOR EXTRA AXLES</u>
C. DAY OF WEEK FACTOR		<u>-----</u> ENTERED
D. MONTH FACTOR		<u>-----</u> APR 02 1992
E. OTHER FACTOR ( <u>WEEKLY</u> )		<u>0.820</u> By <u>W</u>
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY)		<u>002700</u>
4. DIRECTIONAL DISTRIBUTION FACTOR		<u>0.500</u> ENTERED
5. GPS LANE DISTRIBUTION FACTOR		<u>0.900</u> MAY 08 1991
6. AADT GPS LANE		<u>004365</u> By <u>      </u>

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

NAME OF PREPARER <u>BOB TENNEY</u> DATE PREPARED <u>28 DEC 90</u>	PHONE # <u>303-757-9489</u>
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<b>SHEET 4</b> <b>LTPP TRAFFIC DATA</b> <b>TRAFFIC VOLUME COUNTS</b>	*STATE ASSIGNED ID [ _ _ _ _ ] *STATE CODE [ 08 ] *SHRP SECTION ID [ 1035 ]
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HIGHWAY ROUTE NO. (THIS COUNT) I 70  
 MILEPOST# OR LOCATION (THIS COUNT) 288.6  
 BEGINNING DATE 8-22-88 ENDING DATE 8-25-88  
 BEGINNING TIME 1400 ENDING TIME 1000  
 COUNT DURATION 68 [X] HOURS [ ] DAYS [ ] MONTHS  
 TYPE OF COUNTER GOLDEN RIVER NAME/MODEL # MARKSMAN 330  
 TYPE OF COUNT: TWO-WAY X ONE DIRECTION ONLY        GPS TEST LANE ONLY       

<u>ITEM</u>	<u>ACTUAL COUNTS</u>	<u>UNITS</u>
1. TOTAL NO. OF VEHICLES (RAW COUNT)		036404
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT		AVERAGE FOR EACH HOUR & SUM = 13092
B. AXLE CORRECTION FACTOR		SUBTRACTED 2200 FOR - EXTRA AXLES
C. DAY OF WEEK FACTOR		- . - - -
D. MONTH FACTOR		- . - - -
E. OTHER FACTOR ( <u>WEEKLY</u> )		0.880
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY)		009400
4. DIRECTIONAL DISTRIBUTION FACTOR		0.500
5. GPS LANE DISTRIBUTION FACTOR		0.200
6. AADT GPS LANE		004230

ENTERED  
 MAY 08 1991  
 By \_\_\_\_\_

ENTERED  
 APR 02 1992  
 By HW

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

NAME OF PREPARER <u>BOB TENNEY</u>	PHONE # <u>303-757-9489</u>
DATE PREPARED <u>28 DEC 90</u>	

ENTERED  
 2/6/91



<b>SHEET 4</b> <b>LTPP TRAFFIC DATA</b> <b>TRAFFIC VOLUME COUNTS</b>	*STATE ASSIGNED ID [ _ _ _ _ ]
	*STATE CODE [ 08 ]
	*SHRP SECTION ID [ 7035 ]

HIGHWAY ROUTE NO. (THIS COUNT) I 70

MILEPOST# OR LOCATION (THIS COUNT) 288.3

BEGINNING DATE 8-11-86 ENDING DATE 8-13-88 <sup>up</sup>

BEGINNING TIME <sup>0000</sup> NA ENDING TIME <sup>0000</sup> NA

COUNT DURATION 48 [X] HOURS [ ] DAYS [ ] MONTHS

TYPE OF COUNTER GOLDEN RIVER NAME/MODEL # MARKSMAN 330

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

ITEM	ACTUAL COUNTS	ENTERED
1. TOTAL NO. OF VEHICLES (RAW COUNT)		UNITS 19400 <sup>up</sup> <u>NA</u> By <u>W</u>
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		AVERAGE FOR EACH HOUR + SUM = 13811
A. ADJUSTMENT TO 24-HOUR COUNT		SUBTRACT 1650 FOR EXTRA AXLES
B. AXLE CORRECTION FACTOR		
C. DAY OF WEEK FACTOR		
D. MONTH FACTOR		
E. OTHER FACTOR ( <u>WEEKLY</u> )		0.820
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY)		002700
4. DIRECTIONAL DISTRIBUTION FACTOR		0.500
5. GPS LANE DISTRIBUTION FACTOR		0.900
6. AADT GPS LANE		004365

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

NAME OF PREPARER <u>BOB TENNEY</u>	PHONE # <u>303-757-9489</u>
DATE PREPARED <u>28 DEC 90</u>	

ENTERED  
2/6/91

SHEET <u>4</u> <b>LTPP TRAFFIC DATA</b> <b>TRAFFIC VOLUME COUNTS</b>	*STATE ASSIGNED ID [ _ _ _ _ ]
	*STATE CODE [ <u>08</u> ]
	*SHRP SECTION ID [ <u>1035</u> ]

HIGHWAY ROUTE NO. (THIS COUNT) I 70  
 MILEPOST# OR LOCATION (THIS COUNT) 288.5  
 BEGINNING DATE 6-11-84 ENDING DATE 6-13-84  
 BEGINNING TIME <sup>0000</sup> NA ENDING TIME <sup>0000</sup> NA  
 COUNT DURATION 48 [X] HOURS [ ] DAYS [ ] MONTHS  
 TYPE OF COUNTER FISHER-PORTER NAME/MODEL # NA  
 TYPE OF COUNT: TWO-WAY X ONE DIRECTION ONLY    GPS TEST LANE ONLY   

ITEM	ACTUAL COUNTS	UNITS
1. TOTAL NO. OF VEHICLES (RAW COUNT)		<u>17800</u> <u>NA</u>
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT		AVERAGE FOR EACH HOUR + SUM = 13392
B. AXLE CORRECTION FACTOR		SUBTRACT 2770 FOR EXTRA AXLES
C. DAY OF WEEK FACTOR		-----
D. MONTH FACTOR		-----
E. OTHER FACTOR ( <u>WEEKLY</u> )		<u>0.870</u>
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY)		<u>008200</u>
4. DIRECTIONAL DISTRIBUTION FACTOR		<u>0.500</u>
5. GPS LANE DISTRIBUTION FACTOR		<u>0.900</u>
6. AADT GPS LANE		<u>004005</u>

ENTERED  
 MAY 08 1991  
 By HW  
 ENTERED

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

APR 02 1992

NAME OF PREPARER BOB TENNEY PHONE # 303-757-9489  
 DATE PREPARED 28 DEC 90

ENTERED  
 2/6/91