

SHEET <b>LTPP TRAFFIC DATA</b> <b>SUMMARY TRANSMITTAL FORM</b>	*STATE ASSIGNED ID [1014] *STATE CODE [15] *SHRP SECTION ID [1008]
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STATE OR PROVINCE HAWAII COUNTY HAWAII

HIGHWAY ROUTE NO. FAR 11 MILEPOST# 120.72

NEAREST CITY/TOWN KONA NEAREST INTERSECTION HUALAKAI RD

FUNCTIONAL CLASS 06 NO. LANES EACH DIRECTION 1 TOTAL NO. LANES 2

DIRECTION OF TRAVEL GPS LANE EAST DATE OPENED TO TRAF. 05-01-84  
AND BASIC INFO NOT 3/2/01

FIPS COUNTY CODE 9 FHWA STATION IDENTIFICATION NO. —

HPMS SAMPLE NO. — HPMS SUBDIVISION NO. —

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

**ENTERED** STATION RELATIVE TO THIS GPS TEST SECTION.

DEC 10 1991

**ENTERED**

AUG 15 1991

By <u>HP</u>	NAME OF PREPARER <u>S. TASAKA (by ETL)</u> PHONE # <u>—</u>	By <u>—</u>
	DATE PREPARED <u>6/10/91</u>	

<b>SHEET 2</b> <b>LTPP TRAFFIC DATA</b> <b>TRAFFIC VOLUMES</b> <b>AND LOAD ESTIMATES</b>	*STATE ASSIGNED ID [1014]
	*STATE CODE [15]
	*SHRP SECTION ID [1008]

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)	RIGID FLEXIBLE	
1989	11856	308	6815	177	(77)	(50)	
1988	11344	295	6239	162	70	46	
1987	10833	444	5664	219	(111)	(82)	
1986	10321	423	5088	209	104	75	
1985	8535	444	4147	211	(107)	(77)	
1984	6748	351	3205	167	40	83	
1983							
1982							
1981							
1980							
1979							
1978							
1977							
1976							
1975							
1974							
1973							
1972							
1971							
1970							
1969							
1968							
1967							
1966							
1965							
ENTERED				ENTERED			
DEC 10 1991				AUG 15 1991			
By _____				By _____			

NAME OF PREPARER S. Tasaka (items 1 thru 4) PHONE # (808) 586-9602  
DATE PREPARED 7/13/90

## SHEET 3

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

\*STATE ASSIGNED ID [1014]

\*STATE CODE [15]

\*SHRP SECTION ID [1008]

1. Year Applicable 1989, 1987, 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 year's estimate.
- ☐ Estimated based on volume counts at nearby locations.
- ☐ Used flow maps.
- ☐ Used computerized network analyses.
- ☒ Other: Interpolate/Extrapolate  
volumes from 1988, 1986, & 1984 estimates.

## 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: Truck % from prior yr.

## 4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☐ Based on actual lane count data.
- ☐ System distribution factors.
- ☒ Other: Same as item 2.

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

- ☐ Based on actual lane count data.
- ☐ System distribution factors.
- ☒ Other: Truck % from prior year.

## 6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
- ☐ ESAL/Vehicle class. (no. of classes) \_\_\_\_\_
- ☐ 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**

AUG 15 1991

By \_\_\_\_\_

\* Note: Traffic Count Surveys are conducted biennially on the Island of Hawaii. No surveys taken in 1985, 1987, and 1989.

**ENTERED**

DEC 10 1991

By \_\_\_\_\_

NAME OF PREPARER S. Tasaka (items 1 thru 5)PHONE # (808) 586-9602DATE PREPARED 7/13/90

## SHEET 3

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

\*STATE ASSIGNED ID [1014]

\*STATE CODE [15]

\*SHRP SECTION ID [1008]

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: Used truck % from count taken at nearby site.

## 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: Used truck % taken from count at nearby site.

## 6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
- ☐ ESAL/Vehicle class. (no. of classes) \_\_\_\_\_
- ☐ 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 10 1991

By \_\_\_\_\_

ENTERED

AUG 15 1991

By \_\_\_\_\_

NAME OF PREPARER S. Tasaka (items 1 thru 5) PHONE # (808) 586-9602

DATE PREPARED 7/12/90

## SHEET 3

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

\*STATE ASSIGNED ID [1014]

\*STATE CODE [15]

\*SHRP SECTION ID [1008]

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: Used truck % from count at nearby site.

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

- ☐ Based on actual lane count data.  
☐ System distribution factors.  
☒ Other: Used truck % from count at nearby site.

## 6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.  
☐ ESAL/Vehicle class. (no of classes) \_\_\_\_\_  
☐ 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: \_\_\_\_\_

## 4. METHOD FOR ESTIMATING AADT BY GPS LANE

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

ENTERED ENTERED

DEC 10 1991

AUG 15 1991

NAME OF PREPARER S. Tasaka (items 1 thru 5)PHONE # (808) 586-9602DATE PREPARED 7/12/90

## SHEET 3

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

\*STATE ASSIGNED ID [1014]

\*STATE CODE [15]

\*SHRP SECTION ID [1008]

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: Used truck % from count taken at nearby site.

## 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: Used truck % from count taken at nearby site.

## 6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
- ☐ ESAL/Vehicle class. (no of classes) \_\_\_\_\_
- ☐ 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 10 1991

By \_\_\_\_\_

ENTERED

AUG 15 1991

By \_\_\_\_\_

NAME OF PREPARER S. Tasaka (items 1 thru 5) PHONE # (808) 586-9602DATE PREPARED 7/13/90

<b>SHEET 4</b> <b>LTPP TRAFFIC DATA</b> <b>TRAFFIC VOLUME COUNTS</b>	*STATE ASSIGNED ID <u>[1014]</u>
	*STATE CODE <u>[15]</u>
	*SHRP SECTION ID <u>[1008]</u>

HIGHWAY ROUTE NO. (THIS COUNT) FAR 11

MILEPOST# OR LOCATION (THIS COUNT) MP 120.52

BEGINNING DATE 05-11-88 ENDING DATE 05-12-88

BEGINNING TIME 1615 ENDING TIME 1615

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

TYPE OF COUNTER \_\_\_\_\_ NAME/MODEL # \_\_\_\_\_

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>011481</u>	✓
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT	<u>-.N/A</u>	
B. AXLE CORRECTION FACTOR	<u>0.993</u>	
C. DAY OF WEEK FACTOR	<u>-.N/A</u>	
D. MONTH FACTOR	<u>0.995</u>	
E. OTHER FACTOR ( _____ )	<u>-.N/A</u>	
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY)	<u>011344</u>	
4. DIRECTIONAL DISTRIBUTION FACTOR	<u>0.550</u>	
5. GPS LANE DISTRIBUTION FACTOR	<u>1.000</u>	✓
6. AADT GPS LANE	<u>006239</u>	$= 11344 (.550)$
7. TRUCK		$6239 (2.6\%) = 162$

ENTERED

APR 09 1992

By LW

ENTERED

AUG 15 1991

By \_\_\_\_\_

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

NAME OF PREPARER <u>S. Tasaka</u>	PHONE # <u>(808) 586-9602</u>
DATE PREPARED <u>7/12/90</u>	

<b>SHEET 4</b>  <b>LTPP TRAFFIC DATA</b>  <b>TRAFFIC VOLUME COUNTS</b>	*STATE ASSIGNED ID <u>[1014]</u> *STATE CODE <u>[15]</u> *SHRP SECTION ID <u>[1008]</u>
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HIGHWAY ROUTE NO. (THIS COUNT) FAP 11

MILEPOST# OR LOCATION (THIS COUNT) MP 119.27

BEGINNING DATE 10-07-86 ENDING DATE 10-08-86

BEGINNING TIME 1400 ENDING TIME 1400

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

TYPE OF COUNTER \_\_\_\_\_ NAME/MODEL # \_\_\_\_\_

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>010405</u>	<u>✓</u>	
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):			<b>ENTERED</b> <b>APR 09 1992</b> By <u>WD</u>
A. ADJUSTMENT TO 24-HOUR COUNT	<u>-.N/A</u>		
B. AXLE CORRECTION FACTOR	<u>0.989</u>		
C. DAY OF WEEK FACTOR	<u>-.N/A</u>		
D. MONTH FACTOR	<u>1.003</u>		
E. OTHER FACTOR (_____)	<u>-.N/A</u>		
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY)	<u>010321</u>		<b>ENTERED</b> <b>AUG 15 1991</b> By _____
4. DIRECTIONAL DISTRIBUTION FACTOR	<u>0.493</u>		
5. GPS LANE DISTRIBUTION FACTOR	<u>1.000</u>		
6. AADT GPS LANE	<u>005088</u>		
7 TRUCKS "		<u>5088(4.1%) = 209</u>	

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

NAME OF PREPARER <u>S. Tasaka</u>	PHONE # <u>(808) 586-9602</u>
DATE PREPARED <u>7/12/90</u>	



<b>SHEET 4</b> <b>LTPP TRAFFIC DATA</b> <b>TRAFFIC VOLUME COUNTS</b>	*STATE ASSIGNED ID <u>[1014]</u>
	*STATE CODE <u>[15]</u>
	*SHRP SECTION ID <u>[1008]</u>

HIGHWAY ROUTE NO. (THIS COUNT) FAP 11

MILEPOST# OR LOCATION (THIS COUNT) MP 120.52

BEGINNING DATE 08-14-84 ENDING DATE 08-15-84

BEGINNING TIME 1100 ENDING TIME 1100

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

TYPE OF COUNTER \_\_\_\_\_ NAME/MODEL # \_\_\_\_\_

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>001401</u>	
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT	<u>.N/A</u>	ENTERED
B. AXLE CORRECTION FACTOR	<u>0.990</u>	APR 09 1992
C. DAY OF WEEK FACTOR	<u>.N/A</u>	By <u>W</u>
D. MONTH FACTOR	<u>0.921</u>	
E. OTHER FACTOR ( _____ )	<u>.N/A</u>	
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY)	<u>006748</u>	ENTERED
		AUG 15 1991
4. DIRECTIONAL DISTRIBUTION FACTOR	<u>0.415</u>	By _____
5. GPS LANE DISTRIBUTION FACTOR	<u>1.000</u>	
6. AADT GPS LANE	<u>003205</u>	<u>x 52%</u>
7 TRUCKS	<u>167</u>	

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

NAME OF PREPARER <u>S. Tasaka</u>	PHONE # <u>(808) 586-9602</u>
DATE PREPARED <u>7/13/90</u>	

SHEET 5

## LTPP TRAFFIC DATA

VEHICLE CLASSIFICATION DATA  
FHWA 13-CLASS SYSTEM

\*STATE ASSIGNED ID [1014]

\*STATE CODE [15]

\*SHRP SECTION ID [1008]

HIGHWAY RT. NO. (THIS COUNT) FAP 11 MILEPOST# (THIS COUNT) MP 122.13LOCATION (THIS COUNT) @ Palani Rd FUNCTIONAL CLASS 06 - Minor ArterialBEGINNING DATE 05-04-88 ENDING DATE 05-04-88BEGINNING TIME 2400 ENDING TIME 2400 DURATION (HRS) 24TYPE OF COUNT: MANUAL \_\_\_\_\_ AUTOMATED X NO. OF LANES COUNTED 2

TYPE OF EQUIP.: AVC PERM. \_\_\_\_\_ AVC PORT. \_\_\_\_\_ WIM PERM. \_\_\_\_\_ WIM PORT. \_\_\_\_\_

EQUIPMENT NAME / MODEL # \_\_\_\_\_

TOTAL NO. OF VEHICLES CLASSIFIED 13093 # TRUCKS 339 % TRUCKS 2.6%NO. OF TRUCKS IN GPS LANE 184 % OF TRUCKS IN GPS LANE 2.7%VEHICLE CLASSIFICATION METHOD: FHWA X 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.

ENTERED

APR 09 1992

## VEHICLE CLASSES

TOTAL NUMBER  
OF VEHICLES  
TWO-WAYTOTAL NUMBER  
OF VEHICLES  
GPS DIRECTIONTOTAL NUMBER  
OF VEHICLES  
GPS LANE

1. FHWA CLASSES 1-3 (Cars, Motorcycles, Vans)	0 1 2 7 5 4	0 0 6 6 2 9	0 0 6 6 2 9
2. FHWA CLASS 4 (Buses)	0 0 0 0 6 7	0 0 0 0 3 5	0 0 0 0 3 5
3. FHWA CLASS 5 (Two Axle, 6-Tire, SU Truck)	0 0 0 1 1 1	0 0 0 0 6 6	0 0 0 0 6 6
4. FHWA CLASS 6 (3 AXLE SU TRUCK)	0 0 0 0 6 3	0 0 0 0 2 6	0 0 0 0 2 6
5. FHWA CLASS 7 (4 or more Axle SU Truck)	0 0 0 0 0 2	0 0 0 0 0 2	0 0 0 0 0 2
6. FHWA CLASS 8 (4 or less axle 1-Trlr.Truck)	0 0 0 0 2 9	0 0 0 0 1 3	0 0 0 0 1 3
7. FHWA CLASS 9 (5 Axle, 1-Trlr.Truck)	0 0 0 0 1 7	0 0 0 0 0 8	0 0 0 0 0 8
8. FHWA CLASS 10 (6 or more Axle, 1-Trlr.Truck)	0 0 0 0 0 1	0 0 0 0 0 0	0 0 0 0 0 0
9. FHWA CLASS 11 (5 or less Axle, Multi-Trlr.Truck)	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0
10. FHWA CLASS 12 (6 Axle, Multi-Trlr.Truck)	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0
11. FHWA CLASS 13 (7 or more Axle, Multi-Trlr.Truck)	0 0 0 0 0 1	0 0 0 0 0 1	0 0 0 0 0 1
12. OTHER VEHICLES	0 0 0 0 4 8	0 0 0 0 3 3	0 0 0 0 3 3
GRAND TOTAL	0 1 3 0 9 3	0 0 6 8 1 3	0 0 6 8 1 3

ENTERED

AUG 15 1991

By

NAME OF PREPARER S. TasakaPHONE # (808) 586-9602DATE PREPARED 7/12/90

SHEET 5

## LTPP TRAFFIC DATA

VEHICLE CLASSIFICATION DATA  
FHWA 13-CLASS SYSTEM

\*STATE ASSIGNED ID [1014]

\*STATE CODE [15]

\*SHRP SECTION ID [1008]

HIGHWAY RT. NO. (THIS COUNT) FAP 11MILEPOST# (THIS COUNT) MP 117.37LOCATION (THIS COUNT) Kuakin Hwy at Kam IIIFUNCTIONAL CLASS OC Minor ArterialBEGINNING DATE 10-07-86ENDING DATE 10-08-86BEGINNING TIME 0600ENDING TIME 1800DURATION (HRS) 12TYPE OF COUNT: MANUAL X

AUTOMATED \_\_\_\_\_

NO. OF LANES COUNTED 2

02/evm 12/1/2004

TYPE OF EQUIP.: AVC PERM. \_\_\_\_\_

AVC PORT. \_\_\_\_\_

WIM PERM. \_\_\_\_\_

WIM PORT. \_\_\_\_\_

EQUIPMENT NAME / MODEL # \_\_\_\_\_

TOTAL NO. OF VEHICLES CLASSIFIED 12022# TRUCKS 496% TRUCKS 4.1%NO. OF TRUCKS IN GPS LANE 247% OF TRUCKS IN GPS LANE 4.1%

VEHICLE CLASSIFICATION METHOD: FHWA \_\_\_\_\_

OTHER X

# 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.

ENTERED

APR 09 1992

## VEHICLE CLASSES

TOTAL NUMBER  
OF VEHICLES  
TWO-WAYTOTAL NUMBER  
OF VEHICLES  
GPS DIRECTIONTOTAL NUMBER  
OF VEHICLES  
GPS LANEBy WJ1. 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

ENTERED

AUG 15 1991

By \_\_\_\_\_

NAME OF PREPARER S. TasakaPHONE # (808) 586-9602DATE PREPARED 7/13/90

1/ adjusted to 24-hr w/ 12 hr meter night count of 2298.

SHEET 5

## LTPP TRAFFIC DATA

VEHICLE CLASSIFICATION DATA  
FHWA 13-CLASS SYSTEM

\*STATE ASSIGNED ID [1014]

\*STATE CODE [15]

\*SHRP SECTION ID [1008]

HIGHWAY RT. NO. (THIS COUNT) FAR 11MILEPOST# (THIS COUNT) MP 122.13LOCATION (THIS COUNT) @ Palani RdFUNCTIONAL CLASS 06 Minor ArterialBEGINNING DATE 08-14-84ENDING DATE 08-15-84BEGINNING TIME 0600ENDING TIME 1800DURATION (HRS) 12TYPE OF COUNT: MANUAL ☒ AUTOMATED ☐ NO. OF LANES COUNTED 2TYPE OF EQUIP.: AVC PERM. ☐ AVC PORT. ☐ WIM PERM. ☐ WIM PORT. ☐

EQUIPMENT NAME / MODEL # \_\_\_\_\_

TOTAL NO. OF VEHICLES CLASSIFIED 7810 # TRUCKS 406 % TRUCKS 5.2%NO. OF TRUCKS IN GPS LANE 199 % OF TRUCKS IN GPS LANE 5.1%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.

ENTERED

APR 09 1991

By W

## VEHICLE CLASSES

TOTAL NUMBER  
OF VEHICLES  
TWO-WAYTOTAL NUMBER  
OF VEHICLES  
GPS DIRECTIONTOTAL NUMBER  
OF VEHICLES  
GPS LANE1. 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

ENTERED

AUG 15 1991

By \_\_\_\_\_

NAME OF PREPARER S. TasakaPHONE # (808) 586-9602DATE PREPARED 7/13/90

-1 adjusted to 24-hr w/ 12-hr night meter count of 1566-

**SHEET 6**  
**LTPP TRAFFIC DATA**  
**VEHICLE CLASSIFICATION DATA**  
**AGENCY DEFINED CLASSES**

\*STATE ASSIGNED ID [1014]  
 \*STATE CODE [15]  
 \*SHRP SECTION ID [1008]

FOR 4-BIN OR OTHER CLASSIFICATION SYSTEMS

HIGHWAY ROUTE NO. (THIS COUNT) FAP 11 MILEPOST # (THIS COUNT) 117.37

BEGINNING DATE 10-07-86 ENDING DATE 10-08-86

BEGINNING TIME 0600 ENDING TIME 1800 DURATION (HRS) 12

VEHICLE CLASSES (DESCRIBE VEHICLE TYPES IN EACH CLASS OR AXLE SPACING CATEGORY)	TOTAL NUMBER OF VEHICLES TWO-WAY	TOTAL NUMBER OF VEHICLES GPS DIRECTION	TOTAL NUMBER OF VEHICLES GPS LANE
A. <u>Passenger Cars</u>	<u>007200</u>	<u>003555</u>	<u>003555</u>
B. <u>Buses</u>	<u>000087</u>	<u>000045</u>	<u>000045</u>
C. <u>2P</u>	<u>002017</u>	<u>000970</u>	<u>000970</u>
D. <u>2S</u>	<u>000220</u>	<u>000106</u>	<u>000106</u>
E. <u>2D</u>	<u>000160</u>	<u>000081</u>	<u>000081</u>
F. <u>3X</u>	<u>000012</u>	<u>000006</u>	<u>000006</u>
G. <u>2-S-1</u>	<u>000002</u>	<u>000001</u>	<u>000001</u>
H. <u>3-S-1</u>	<u>000000</u>	<u>000000</u>	<u>000000</u>
I. <u>3-S-2</u>	<u>000015</u>	<u>000008</u>	<u>000008</u>
J. <u>3-S1-2</u>	<u>000000</u>	<u>000000</u>	<u>000000</u>
K. <u>3-S2-3</u>	<u>000000</u>	<u>000000</u>	<u>000000</u>
L. _____	_____	_____	_____
M. <u>SUBTOTAL</u>	<u>009724</u>	<u>004772</u>	<u>004772</u>
N. _____	_____	_____	_____
O. <u>12-hr 1800-0600 meter count</u>	<u>002298</u>	<u>001247</u>	<u>001247</u>
P. _____	_____	_____	_____
Q. _____	_____	_____	_____
R. _____	_____	_____	_____
S. _____	_____	_____	_____
T. _____	_____	_____	_____

ENT'D SEP 15 2004

ENTERED  
AUG 15 1991

By \_\_\_\_\_

GRAND TOTAL

012022 6019 6019

NAME OF PREPARER S. Tasaka

PHONE # (808) 586-9602

DATE PREPARED 7/15/90

ENTERED

APR 09 1992

By AW

**SHEET 6**

**LTPP TRAFFIC DATA**

**VEHICLE CLASSIFICATION DATA**

**AGENCY DEFINED CLASSES**

\*STATE ASSIGNED ID [1014]

\*STATE CODE [15]

\*SHRP SECTION ID [1008]

FOR 4-BIN OR OTHER CLASSIFICATION SYSTEMS

HIGHWAY ROUTE NO. (THIS COUNT) FAP 11 MILEPOST # (THIS COUNT) 122.13

BEGINNING DATE 08-14-84 ENDING DATE 08-15-84

BEGINNING TIME 0600 ENDING TIME 1800 DURATION (HRS) 12

VEHICLE CLASSES (DESCRIBE VEHICLE TYPES IN EACH CLASS OR AXLE SPACING CATEGORY)	TOTAL NUMBER OF VEHICLES TWO-WAY	TOTAL NUMBER OF VEHICLES GPS DIRECTION	TOTAL NUMBER OF VEHICLES GPS LANE
A. <u>Passenger Cars</u>	<u>004242</u>	<u>002040</u>	<u>002040</u>
B. <u>Buses</u>	<u>000010</u>	<u>000006</u>	<u>000006</u>
C. <u>2P</u>	<u>001596</u>	<u>000742</u>	<u>000742</u>
D. <u>2S</u>	<u>000197</u>	<u>000086</u>	<u>000086</u>
E. <u>2D</u>	<u>000118</u>	<u>000064</u>	<u>000064</u>
F. <u>3X</u>	<u>000047</u>	<u>000026</u>	<u>000026</u>
G. <u>2-5-1</u>	<u>000001</u>	<u>000001</u>	<u>000001</u>
H. <u>3-5-1</u>	<u>000001</u>	<u>000001</u>	<u>000001</u>
I. <u>3-5-2</u>	<u>000030</u>	<u>000015</u>	<u>000015</u>
J. <u>3-51-2</u>	<u>000001</u>	<u>000000</u>	<u>000000</u>
K. <u>3-52-3</u>	<u>000001</u>	<u>000000</u>	<u>000000</u>
L. _____	_____	_____	_____
M. <u>SUBTOTAL</u>	<u>006244</u>	<u>002981</u>	<u>002981</u>
N. _____	_____	_____	_____
O. <u>12-hr 1800-0600 meter count</u>	<u>001566</u>	<u>000893</u>	<u>000893</u>
P. _____	_____	_____	_____
Q. _____	_____	_____	_____
R. _____	_____	_____	_____
S. _____	_____	_____	_____
T. _____	_____	_____	_____

ENTD SEP 15 2004

ENTERED

AUG 15 1991

By \_\_\_\_\_

GRAND TOTAL 007810 003874 003874

NAME OF PREPARER S. Tasaka

PHONE # (808) 586-6422 ENTERED

DATE PREPARED 7/13/90

APR 09 1992

By HW

<p><b>SHEET 7</b></p> <p><b>LTPP TRAFFIC DATA</b></p> <p><b>VEHICLE CLASSIFICATION CONVERSION CHART</b></p>	<p>*STATE ASSIGNED ID [ <u>1014</u> ]</p> <p>*STATE CODE [ <u>15</u> ]</p> <p>*SHRP SECTION ID [ <u>1008</u> ]</p>
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FOR 4-BIN, 6-BIN, OR OTHER NON FHWA CLASSIFICATION SYSTEMS

USE THIS SHEET TO DESCRIBE HOW THE AGENCY'S CLASSIFICATION SYSTEM CAN BE CONVERTED TO THE FHWA 13-CLASSES. ENTER PERCENTAGE OF TOTAL SHA CLASS DISTRIBUTED TO EACH FHWA CLASS. APPLICABLE PERIOD FROM 10-07-86 TO 10-08-86

FHWA CLASSES													
SHA CLASS	1-3	4	5	6	7	8	9	10	11	12	13	OTHER	TOTAL
A	<u>60</u>												<u>060</u>
B		<u>01</u>											<u>001</u>
C	<u>17</u>												<u>017</u>
D	<u>02</u>												<u>002</u>
E			<u>01</u>										<u>001</u>
F				*									*
G						*							*
H													<u>000</u>
I							*						*
J										*			*
K											*		*
L													
M													
N													
O	<u>19</u>												<u>019</u>
P													
Q													
R													
S													
T													
TOTAL	<u>98</u>	<u>01</u>	<u>01</u>	*	<u>00</u>	*	*	<u>00</u>	<u>00</u>	*	*	<u>00</u>	<u>100</u>

(A)

ENTERED

\* percent less than 1.

AUG 15 1991

<p>ENTERED</p> <p>SEP 02 1991</p>	<p>ENTERED</p> <p>APR 09 1992</p>	<p>By <u>[Signature]</u></p>
<p>NAME OF PREPARER <u>S. Tasaka</u></p> <p>DATE PREPARED <u>7/13/90</u></p> <p>PHONE # <u>(808) 586-4602</u></p>		
<p>By <u>[Signature]</u></p>		

**SHEET 7**  
**LTPP TRAFFIC DATA**  
**VEHICLE CLASSIFICATION**  
**CONVERSION CHART**

\*STATE ASSIGNED ID [ 1014 ]  
 \*STATE CODE [ 15 ]  
 \*SHRP SECTION ID [ 1008 ]

FOR 4-BIN, 6-BIN, OR OTHER NON FHWA CLASSIFICATION SYSTEMS

USE THIS SHEET TO DESCRIBE HOW THE AGENCY'S CLASSIFICATION SYSTEM CAN BE CONVERTED TO THE FHWA 13-CLASSES. ENTER PERCENTAGE OF TOTAL SHA CLASS DISTRIBUTED TO EACH FHWA CLASS. APPLICABLE PERIOD FROM 08-14-84 TO 08-15-84

FHWA CLASSES													
SHA CLASS	1-3	4	5	6	7	8	9	10	11	12	13	OTHER	TOTAL
A	<u>54</u>												<u>054</u>
B		*											*
C	<u>20</u>												<u>020</u>
D	<u>03</u>												<u>003</u>
E			<u>02</u>										<u>002</u>
F				<u>01</u>									<u>001</u>
G						*							*
H						*							*
I							*						*
J										*			*
K											*		*
L													
M													
N													
O	<u>20</u>												<u>020</u>
P													
Q													
R													
S													
T													
TOTAL	<u>97</u>	*	<u>02</u>	<u>01</u>	<u>00</u>	*	*	<u>00</u>	<u>00</u>	*	*	<u>00</u>	<u>100</u>

\* percent less than 1.

NAME OF PREPARER <u>S. Tasaka</u>	<b>ENTERED</b>		<b>ENTERED</b>	
DATE PREPARED <u>7/12/90</u>	SEP 02 1992		APR 09 1992	
By <u>IN</u>	By <u>AW</u>			



**SHEET 7**  
**LTPP TRAFFIC DATA**  
**VEHICLE CLASSIFICATION**  
**CONVERSION CHART**

\*STATE ASSIGNED ID [ \_\_\_\_\_ ]  
 \*STATE CODE 115  
 \*SRP SECTION ID 11008

FOR 4-BIN, 6-BIN, OR OTHER NON FHWA CLASSIFICATION SYSTEMS

A

USE THIS SHEET TO DESCRIBE HOW THE AGENCY'S CLASSIFICATION SYSTEM CAN BE CONVERTED TO THE FHWA 13-CLASSES. ENTER PERCENTAGE OF TOTAL SHA CLASS DISTRIBUTED TO EACH FHWA CLASS. APPLICABLE PERIOD FROM \_\_\_\_\_ TO \_\_\_\_\_

FHWA CLASSES													
SHA CLASS	1-3	4	5	6	7	8	9	10	11	12	13	OTHER	TOTAL
A	100												
B	100												
C	100												
D		100											
E			100										
F				100									
G					100								
H						100							
I							100						
J								100					
K									100				
L										100			
M											100		
N												100	
O													
P													
Q													
R													
S													
T													
TOTAL													

ENTERED

APR 10 1996

By [Signature]

NAME OF PREPARER [Signature] PHONE # \_\_\_\_\_  
 DATE PREPARED 4-10-96

**SHEET 7**

**LTPP TRAFFIC DATA**

**VEHICLE CLASSIFICATION  
CONVERSION CHART**

\*STATE ASSIGNED ID [ 1014 ]

\*STATE CODE [ 15 ]

\*SHRP SECTION ID [ 1008 ]

FOR 4-BIN, 6-BIN, OR OTHER NON FHWA CLASSIFICATION SYSTEMS

USE THIS SHEET TO DESCRIBE HOW THE AGENCY'S CLASSIFICATION SYSTEM CAN BE CONVERTED TO THE FHWA 13-CLASSES. ENTER PERCENTAGE OF TOTAL SHA CLASS DISTRIBUTED TO EACH FHWA CLASS. APPLICABLE PERIOD FROM 10-07-86 TO 10-08-86

FHWA CLASSES													
SHA CLASS	1-3	4	5	6	7	8	9	10	11	12	13	OTHER	TOTAL
A	<u>60</u>												<u>060</u>
B		<u>01</u>											<u>001</u>
C	<u>17</u>												<u>017</u>
D	<u>02</u>												<u>002</u>
E			<u>01</u>										<u>001</u>
F				*									*
G						*							*
H													<u>000</u>
I							*						*
J										*			*
K											*		*
L													
M													
N													
O	<u>19</u>												<u>019</u>
P													
Q													
R													
S													
T													
TOTAL	<u>98</u>	<u>01</u>	<u>01</u>	*	<u>00</u>	*	*	<u>00</u>	<u>00</u>	*	*	<u>00</u>	<u>100</u>

\* percent less than 1.

AUG 15 1991

ENTERED

NAME OF PREPARER S. Tasaka

DATE PREPARED 7/13/90

ENTERED

PHONE # (808) 586-7602

APR 09 1992

By WU By WU

<b>SHEET 7</b> <b>LTPP TRAFFIC DATA</b> <b>VEHICLE CLASSIFICATION</b> <b>CONVERSION CHART</b>	*STATE ASSIGNED ID [ <u>1014</u> ] *STATE CODE [ <u>15</u> ] *SHRP SECTION ID [ <u>1008</u> ]
--	---

FOR 4-BIN, 6-BIN, OR OTHER NON FHWA CLASSIFICATION SYSTEMS

USE THIS SHEET TO DESCRIBE HOW THE AGENCY'S CLASSIFICATION SYSTEM CAN BE CONVERTED TO THE FHWA 13-CLASSES. ENTER PERCENTAGE OF TOTAL SHA CLASS DISTRIBUTED TO EACH FHWA CLASS. APPLICABLE PERIOD FROM 08-14-84 TO 08-15-84

FHWA CLASSES													
SHA CLASS	1-3	4	5	6	7	8	9	10	11	12	13	OTHER	TOTAL
A	<u>54</u>												<u>054</u>
B		*											*
C	<u>20</u>												<u>020</u>
D	<u>03</u>												<u>003</u>
E			<u>02</u>										<u>002</u>
F				<u>01</u>									<u>001</u>
G						*							*
H						*							*
I							*						*
J										*			*
K											*		*
L													
M													
N													
O	<u>20</u>												<u>020</u>
P													
Q													
R													
S													
T													
TOTAL	<u>97</u>	*	<u>02</u>	<u>01</u>	<u>00</u>	*	*	<u>00</u>	<u>00</u>	*	*	<u>00</u>	<u>100</u>

\* percent less than 1.

NAME OF PREPARER <u>S. Tasaka</u>	ENTERED	ENTERED	
DATE PREPARED <u>7/12/90</u>	PHONE # <u>(808) 586-9602</u>		
	SEP 02 1992	APR 09 1992	
By <u>110</u>		By <u>AW</u>	