

SHEET 1 LTPP TRAFFIC DATA SUMMARY TRANSMITTAL FORM	*STATE ASSIGNED ID [_ _ _ _] *STATE CODE <u>15</u> *SHRP SECTION ID <u>7080</u>
-------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------

STATE OR PROVINCE HAWAII COUNTY HAWAII
 HIGHWAY ROUTE NO. FAP 19 MILEPOST# 83.53 (ROUTE MILE)
 NEAREST CITY/TOWN 16 MI N. OF KONA NEAREST INTERSECTION VILLAGE REPORT
 FUNCTIONAL CLASS 06 NO. LANES EACH DIRECTION 1 TOTAL NO. LANES 2
 DIRECTION OF TRAVEL GPS LANE NORTH DATE OPENED TO TRAF. 03-01-75
 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
 STATION ~~ENTERED~~ THIS GPS TEST SECTION. **ENTERED**
 DEC 11 1991 AUG 16 1991

By _____

NAME OF PREPARER <u>G. Sato</u>	PHONE # <u>548-3827</u>
DATE PREPARED <u>3/12/91</u>	

SHEET 2

LTPP TRAFFIC DATA

**TRAFFIC VOLUMES
AND LOAD ESTIMATES**

*STATE ASSIGNED ID [_ _ _ _]

*STATE CODE [15]

*SHRP SECTION ID [7080]

Sheet
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Input

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
1990	9484	799	3993	742	360	244
1989	(7020)	(566)	(3090)	(447)	(202)	(158)
1988	4555	333	2186	151	(44)	(31)
1987	(4468)	(327)	(2190)	151	(44)	(31)
1986	4380	320	2194	151	(44)	(31)
1985	(4032)	(303)	(2042)	(144)	(40)	(28)
1984	3684	285	1890	136	36	26
1983	(3347)	(107)	(1690)	(121)	(34)	(24)
1982	3010	214	1490	106	(32)	(23)
1981	(2215)	(158)	(1133)	(81)	(28)	(21)
1980	1419	101	776	55	(25)	(19)
1979	(1798)	(128)	(919)	(65)	(26)	(20)
1978	2176	155	1062	75	28	21
1977	(1796)	(128)	(961)	(68)	(25)	(19)
1976	1415	100	859	61	(22)	(17)
1975						
1974						
1973						
1972						
1971	ENTERED					
1970	MAR 72 7mm					
1969	By <u>SD</u> <u>MP</u>					
1968	By <u>SD</u> ENTERED					
1967				ENTERED		
1966				DEC 11 1991		
1965	By <u>SD</u>			AUG 16 1991		

Note : (xxx) Interpolated values.

By _____

NAME OF PREPARER <u>S. Tasaka (Cok. 1 thru 4)</u>	PHONE # <u>(808) 586-9602</u>
DATE PREPARED <u>3/1/91</u>	

SHEET 3

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

*STATE ASSIGNED ID [_ _ _ _]

*STATE CODE [15]

*SHRP SECTION ID [7080]

1. Year Applicable 1990

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. *at nearby site.*
- ☐ System distribution factors.
- ☐ Other: _____

5. METHOD FOR ESTIMATING TRUCK AADT IN GPS LANES

- ☒ Based on actual lane count data. *at nearby site.*
- ☐ System distribution factors.
- ☐ Other: _____

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
- ☒ ESAL/Vehicle class. (no. of classes) 9
- ☐ 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: _____

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DEC 11 1991

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AUG 16 1991

By _____

By _____

NAME OF PREPARER S. Tasaka (items 1 thru 5)PHONE # (808) 586-9602DATE PREPARED 2/27/91

SHEET 3

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

*STATE ASSIGNED ID [_ _ _ _]

*STATE CODE [15]

*SHRP SECTION ID [7080]

1. Year Applicable 1989, 1987, 1985, 1983, 1981, 1979, 1977 *

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: Interpolated/Extrapolated volumes between surveyed 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: Same as item 2 -

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: Same as item 2 -

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
- ☒ ESAL/Vehicle class. (no. of classes) 9
- ☐ 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: _____

* Note: Traffic count surveys are conducted biennially on the Island of Hawaii. No surveys taken in odd-numbered years.

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By _____

NAME OF PREPARER S. Tasaka (items 1 thru 5)PHONE # (808) 586-9602DATE PREPARED 3/1/91

SHEET 3

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

*STATE ASSIGNED ID [_ _ _ _]

*STATE CODE [15]

*SHRP SECTION ID [7-080]

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 at nearby site taken in earlier years.

4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☒ Based on actual lane count data at nearby site.
☐ 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 at nearby site taken in earlier years.

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
☒ ESAL/Vehicle class. (no. of classes) 9
☐ 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: _____

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DEC 11 1991

By _____

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AUG 16 1991

By _____

NAME OF PREPARER S. Tasaka (items 1 thru 5)PHONE # (808) 586-9602DATE PREPARED 2/28/91

SHEET 3

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

*STATE ASSIGNED ID [_ _ _ _]

*STATE CODE [15]

*SHRP SECTION ID [7080]

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 taken in earlier years.

4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☒ Based on actual lane count data. at nearby By _____
☐ 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 at nearby site taken in earlier years.

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
☒ ESAL/Vehicle class. (no. of classes) 9
☐ 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: _____

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AUG 16 1991

By _____

NAME OF PREPARER S. Tasaka (items 1 thru 5)PHONE # (808) 586-9602DATE PREPARED 3/1/91

SHEET 3

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

*STATE ASSIGNED ID [_ _ _ _]

*STATE CODE [15]

*SHRP SECTION ID [7080]

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. at nearby site
- ☐ System distribution factors.
- ☐ Other: _____

5. METHOD FOR ESTIMATING TRUCK AADT IN GPS LANES

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

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
- ☒ ESAL/Vehicle class. (no. of classes) 9
- ☐ 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: _____

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AUG 16 1991

By _____

By _____

NAME OF PREPARER S. Tasaka (items 1 thru 5)PHONE # (808) 586-9602DATE PREPARED 2/28/91

SHEET 3

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

*STATE ASSIGNED ID [_ _ _ _]

*STATE CODE [15]

*SHRP SECTION ID [7080]

1. Year Applicable 1982

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 taken in earlier years.

4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☒ Based on actual lane count data. at nearby site
☐ 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 at nearby site taken in earlier years.

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
☒ ESAL/Vehicle class. (no. of classes) 9
☐ 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: _____

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DEC 11 1991 - ENTERED

AUG 16 1991

By _____

NAME OF PREPARER S. Tasaka (intern 14615)PHONE # (808) 586-9602DATE PREPARED 3/1/91

SHEET 3

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

*STATE ASSIGNED ID [_ _ _ _]

*STATE CODE [15]

*SHRP SECTION ID [7080]

1. Year Applicable 1980

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 taken in earlier years.

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 taken in earlier years.

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
☒ ESAL/Vehicle class. (no. of classes) - 9
☐ 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.
☐ System distribution factors.
☐ Other: _____

DEC 11 1991

By _____

ENTERED

AUG 16 1991

By _____

NAME OF PREPARER S. Tasaka (items 1 thru 5)PHONE # (808) 586-9602DATE PREPARED 3/1/91

<p align="center">SHEET 3</p> <p align="center">LTPP TRAFFIC DATA PROCEDURES FOR ESTIMATING ANNUAL AVERAGE VOLUMES AND TOTAL ANNUAL ESALS</p>	<p>*STATE ASSIGNED ID [_ _ _ _]</p> <p>*STATE CODE [<u>15</u>]</p> <p>*SHRP SECTION ID [<u>7080</u>]</p>
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1. Year Applicable 1978

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

4. METHOD FOR ESTIMATING AADT BY GPS LANE
- ☒ Based on actual lane count data. at nearby site
 - ☐ System distribution factors.
 - ☐ Other: _____

5. METHOD FOR ESTIMATING TRUCK AADT IN GPS LANES
- ☐ Based on actual lane count data.
 - ☐ System distribution factors.
 - ☒ Other: Use truck % from count at nearby site

6. METHOD FOR ESTIMATING ESAL/VEHICLE
- ☐ ESAL/Truck.
 - ☒ ESAL/Vehicle class. (no. of classes) 9
 - ☐ 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	ENTERED
DEC 11 1991	AUG 16 1991
By _____	By _____

NAME OF PREPARER <u>S. Tasaka (items 1 thru 5)</u>	PHONE # <u>(808) 586-9602</u>
DATE PREPARED <u>3/1/91</u>	

SHEET 3 LTPP TRAFFIC DATA PROCEDURES FOR ESTIMATING ANNUAL AVERAGE VOLUMES AND TOTAL ANNUAL ESALS	*STATE ASSIGNED ID [_ _ _ _] *STATE CODE [<u>15</u>] *SHRP SECTION ID [<u>7080</u>]
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1. Year Applicable 1976

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 in 1978.

4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☒ Based on actual lane count data. at nearby site
- ☐ 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 in 1978.

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
- ☒ ESAL/Vehicle class. (no. of classes) 9
- ☐ 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: _____

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DEC 11 1991

ENTERED

AUG 16 1991

By _____

NAME OF PREPARER <u>S. Tasaka (items 1 thru 5)</u>	PHONE # <u>(808) 586 9602</u>
DATE PREPARED <u>3/1/91</u>	

SHEET 4 LTPP TRAFFIC DATA TRAFFIC VOLUME COUNTS	*STATE ASSIGNED ID [_ _ _ _] *STATE CODE [<u>15</u>] *SHRP SECTION ID [<u>7080</u>]
------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------

HIGHWAY ROUTE NO. (THIS COUNT) FAP 19

MILEPOST# OR LOCATION (THIS COUNT) M.P. 92.82

BEGINNING DATE 10-16-90 ENDING DATE 10-17-90

BEGINNING TIME 0715 ENDING TIME 0715

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

TYPE OF COUNTER Classification recorder NAME/MODEL # TrafComp II, III

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

Sheet
11
Input

<u>ITEM</u>	<u>ACTUAL COUNTS</u>	<u>UNITS</u>
1. TOTAL NO. OF VEHICLES (RAW COUNT)	009541	
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT	1.000	
B. AXLE CORRECTION FACTOR	1.000	
C. DAY OF WEEK FACTOR	.N/A	
D. MONTH FACTOR	0.994	
E. OTHER FACTOR ()	.N/A	
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY)	009484	
4. DIRECTIONAL DISTRIBUTION FACTOR	0.421	
5. GPS LANE DISTRIBUTION FACTOR	1.000	
6. AADT GPS LANE	003993	

ENTERED
APR 09 1992
By LD

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

NAME OF PREPARER <u>S. Tasaka</u>	PHONE # <u>(808) 586-9602</u>
DATE PREPARED <u>2/27/91</u>	

TRAFFIC VOLUME COUNTS

*SHRP SECTION ID [7_0_80]

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

UNITS

- 002186

Bv

ENTERED

AUG 16 1991

By

DATE PREPARED 2/28/91

SHEET 4 LTPP TRAFFIC DATA TRAFFIC VOLUME COUNTS	19(83.53) *STATE ASSIGNED ID [_ _ _ _] *STATE CODE [<u>LS</u>] *SHRP SECTION ID [<u>7080</u>]
------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------

HIGHWAY ROUTE NO. (THIS COUNT) FAP 19

MILEPOST# OR LOCATION (THIS COUNT) MP 92.82

BEGINNING DATE 9-29-86 ENDING DATE 9-30-86

BEGINNING TIME 1200 ENDING TIME 1200

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

TYPE OF COUNTER Classification recorder NAME/MODEL # Trafficomp II, IV

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

ACTUAL COUNTS	
ITEM	UNITS
1. TOTAL NO. OF VEHICLES (RAW COUNT)	<u>004521</u>
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):	
A. ADJUSTMENT TO 24-HOUR COUNT	<u>1.000</u>
B. AXLE CORRECTION FACTOR	<u>0.965</u>
C. DAY OF WEEK FACTOR	<u>.N/A</u>
D. MONTH FACTOR	<u>1.004</u>
E. OTHER FACTOR (_____)	<u>.N/A</u>
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY)	<u>004380</u>
4. DIRECTIONAL DISTRIBUTION FACTOR	<u>0.501</u>
5. GPS LANE DISTRIBUTION FACTOR	<u>1.000</u>
6. AADT GPS LANE	<u>002194</u>

ENTERED
APR 09 1992
 By WW

ENTERED
AUG 16 1991

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

By _____

NAME OF PREPARER <u>S. Tasaka</u>	PHONE # <u>(808) 586-9602</u>
DATE PREPARED <u>3/1/91</u>	

SHEET 4 LTPP TRAFFIC DATA TRAFFIC VOLUME COUNTS	<div style="text-align: right;">19 (83.53)</div> *STATE ASSIGNED ID [_ _ _ _] *STATE CODE [15] *SHRP SECTION ID [7080]
------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------

HIGHWAY ROUTE NO. (THIS COUNT) FAP 19

MILEPOST# OR LOCATION (THIS COUNT) MP 92.82

BEGINNING DATE 08-09-84 ENDING DATE 08-10-84

BEGINNING TIME 0800 ENDING TIME 0800

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

TYPE OF COUNTER Electro-mechanical NAME/MODEL # MR

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>003911</u>	
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT	<u>1.000</u>	
B. AXLE CORRECTION FACTOR	<u>1.000</u>	
C. DAY OF WEEK FACTOR	<u>.N/A</u>	
D. MONTH FACTOR	<u>0.942</u>	
E. OTHER FACTOR (<u> </u>)	<u>.N/A</u>	
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY)	<u>003684</u>	
4. DIRECTIONAL DISTRIBUTION FACTOR	<u>0.513</u>	
5. GPS LANE DISTRIBUTION FACTOR	<u>1.000</u>	
6. AADT GPS LANE	<u>001890</u>	

ENTERED

APR 09 1992

By HW

ENTERED

AUG 16 1991

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

By

NAME OF PREPARER <u>S. Tasaka</u>	PHONE # <u>(808) 586-9602</u>
DATE PREPARED <u>2/28/91</u>	

SHEET 4 LTPP TRAFFIC DATA TRAFFIC VOLUME COUNTS	<div style="text-align: right;">1978551</div> *STATE ASSIGNED ID [_ _ _ _] *STATE CODE [<u>LS</u>] *SHRP SECTION ID [<u>7080</u>]
------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------

HIGHWAY ROUTE NO. (THIS COUNT) FAP 19

MILEPOST# OR LOCATION (THIS COUNT) MP 92.82

BEGINNING DATE 04-15-82 ENDING DATE 04-15-82¹⁶

BEGINNING TIME 2400 ENDING TIME 2400

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

TYPE OF COUNTER Electro-mechanical NAME/MODEL # MR

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

ITEM	ACTUAL COUNTS	UNITS
1. TOTAL NO. OF VEHICLES (RAW COUNT)	003001	
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT	1.000	
B. AXLE CORRECTION FACTOR	.N/A	
C. DAY OF WEEK FACTOR	.N/A	
D. MONTH FACTOR	1.001	
E. OTHER FACTOR (_____)	.N/A	
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY)	003010	
4. DIRECTIONAL DISTRIBUTION FACTOR	0.495	
5. GPS LANE DISTRIBUTION FACTOR	1.000	
6. AADT GPS LANE	001490	

ENTERED
APR 09 1992
By LLW

ENTERED
AUG 16 1991

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

By _____

NAME OF PREPARER <u>S. Tasaka</u>	PHONE # <u>(808) 586-9602</u>
DATE PREPARED <u>3/1/91</u>	

SHEET 4 LTPP TRAFFIC DATA TRAFFIC VOLUME COUNTS	1983-84 *STATE ASSIGNED ID [_ _ _ _] *STATE CODE [15] *SHRP SECTION ID [7080]
----------------------------------------------------------------------------	----------------------------------------------------------------------------------------------

HIGHWAY ROUTE NO. (THIS COUNT) FAR 19

MILEPOST# OR LOCATION (THIS COUNT) MP 92.82

BEGINNING DATE 4-80 ENDING DATE 4-80

BEGINNING TIME - ENDING TIME -

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

TYPE OF COUNTER Electro-mechanical NAME/MODEL # MR

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

ACTUAL COUNTS		
ITEM	UNITS	
1. TOTAL NO. OF VEHICLES (RAW COUNT)	<u>001418</u>	
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		ENTERED
A. ADJUSTMENT TO 24-HOUR COUNT	<u>1.000</u>	APR 09 1992
B. AXLE CORRECTION FACTOR	<u>.N/A</u>	By <u>W</u>
C. DAY OF WEEK FACTOR	<u>.N/A</u>	
D. MONTH FACTOR	<u>1.001</u>	
E. OTHER FACTOR ()	<u>.N/A</u>	
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY)	<u>001419</u>	
4. DIRECTIONAL DISTRIBUTION FACTOR	<u>0.547</u>	
5. GPS LANE DISTRIBUTION FACTOR	<u>1.000</u>	
6. AADT GPS LANE	<u>000776</u>	ENTERED

AUG 16 1991

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

By _____

NAME OF PREPARER <u>S. Tasaka</u>	PHONE # <u>(808) 586-9602</u>
DATE PREPARED <u>3/1/91</u>	

SHEET 4

LTPP TRAFFIC DATA
TRAFFIC VOLUME COUNTS

*STATE ASSIGNED ID [_ _ _ _]

*STATE CODE [15]

*SHRP SECTION ID [7080]

HIGHWAY ROUTE NO. (THIS COUNT) FAP 19

MILEPOST# OR LOCATION (THIS COUNT) MP 92.82

BEGINNING DATE 08-78 ENDING DATE 08-78

BEGINNING TIME _____ ENDING TIME _____

COUNT DURATION 24 ☒ HOURS ☐ DAYS ☐ MONTHS

TYPE OF COUNTER Electro-mechanical NAME/MODEL # MR

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

ACTUAL COUNTS

ITEM

UNITS

- | | |
|-----------------------------------------------------|---------------|
| 1. TOTAL NO. OF VEHICLES (RAW COUNT) | <u>002310</u> |
| 2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE): | |
| A. ADJUSTMENT TO 24-HOUR COUNT | <u>1.000</u> |
| B. AXLE CORRECTION FACTOR | <u>.N/A</u> |
| C. DAY OF WEEK FACTOR | <u>.N/A</u> |
| D. MONTH FACTOR | <u>0.942</u> |
| E. OTHER FACTOR (_____) | <u>.N/A</u> |
| 3. ANNUAL AVERAGE DAILY TRAFFIC (AADT)
(TWO-WAY) | <u>002176</u> |
| 4. DIRECTIONAL DISTRIBUTION FACTOR | <u>0.488</u> |
| 5. GPS LANE DISTRIBUTION FACTOR | <u>1.000</u> |
| 6. AADT GPS LANE | <u>001062</u> |

1.000 ENTERED
APR 09 1992
N/A
N/A By
0.942
N/A
002176
0.488
1.000
001062 ENTERED

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

By _____

NAME OF PREPARER S. Tasaka

PHONE # (808) 586-9602

DATE PREPARED 3/1/91

SHEET 4 LTPP TRAFFIC DATA TRAFFIC VOLUME COUNTS	*STATE ASSIGNED ID [_ _ _ _] *STATE CODE [15] *SHRP SECTION ID [7080]
------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------

HIGHWAY ROUTE NO. (THIS COUNT) FAP 19

MILEPOST# OR LOCATION (THIS COUNT) MP 92.82

BEGINNING DATE 04-76 ENDING DATE 04-76

BEGINNING TIME - ENDING TIME -

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

TYPE OF COUNTER Electro-mechanical NAME/MODEL # MR

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>001414</u>	
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT	<u>1.000</u>	
B. AXLE CORRECTION FACTOR	<u>N/A</u>	
C. DAY OF WEEK FACTOR	<u>N/A</u>	
D. MONTH FACTOR	<u>1.001</u>	
E. OTHER FACTOR ()	<u>NA</u>	
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY)	<u>001415</u>	
4. DIRECTIONAL DISTRIBUTION FACTOR	<u>0.607</u>	
5. GPS LANE DISTRIBUTION FACTOR	<u>1.000</u>	
6. AADT GPS LANE	<u>000859</u>	

ENTERED

APR 09 1992

By

ENTERED

AUG 16 1991

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

By _____

NAME OF PREPARER <u>S. Tasaka</u>	PHONE # <u>(808) 586-9602</u>
DATE PREPARED <u>3/1/91</u>	

SHEET

LTPP TRAFFIC DATA

VEHICLE CLASSIFICATION DATA
FHWA 13-CLASS SYSTEM

*STATE ASSIGNED ID []

*STATE CODE [15]

*SHRP SECTION ID [7080]

HIGHWAY RT. NO. (THIS COUNT) FAP 19 MILEPOST# (THIS COUNT) MP 92.82LOCATION (THIS COUNT) Queen Katakumary at Krahale Airport Rd FUNCTIONAL CLASS 06 Minor ArterialBEGINNING DATE 10-16-90 ENDING DATE 10-17-90BEGINNING TIME 0715 ENDING TIME 0715 DURATION (HRS) 24TYPE OF COUNT: MANUAL _____ AUTOMATED X NO. OF LANES COUNTED 2TYPE OF EQUIP.: AVC PERM. _____ AVC PORT. ✓ WIM PERM. _____ WIM PORT. _____EQUIPMENT NAME / MODEL # IMC IVTOTAL NO. OF VEHICLES CLASSIFIED 9541 # TRUCKS 799 % TRUCKS 8.4%NO. OF TRUCKS IN GPS LANE 742 % OF TRUCKS IN GPS LANE 18.5%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.

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>008742</u>	<u>003279</u>	<u>003279</u>
2. FHWA CLASS 4 (Buses)	<u>000054</u>	<u>000054</u>	<u>000054</u>
3. FHWA CLASS 5 (Two Axle, 6-Tire, SU Truck)	<u>000575</u>	<u>000525</u>	<u>000525</u>
4. FHWA CLASS 6 (3 AXLE SU TRUCK)	<u>000026</u>	<u>000022</u>	<u>000022</u>
5. FHWA CLASS 7 (4 or more Axle SU Truck)	<u>000000</u>	<u>000000</u>	<u>000000</u>
6. FHWA CLASS 8 (4 or less axle 1-Trlr.Truck)	<u>000016</u>	<u>000016</u>	<u>000016</u>
7. FHWA CLASS 9 (5 Axle, 1-Trlr.Truck)	<u>000050</u>	<u>000050</u>	<u>000050</u>
8. FHWA CLASS 10 (6 or more Axle, 1-Trlr.Truck)	<u>000000</u>	<u>000000</u>	<u>000000</u>
9. FHWA CLASS 11 (5 or less Axle, Multi-Trlr.Truck)	<u>000000</u>	<u>000000</u>	<u>000000</u>
10. FHWA CLASS 12 (6 Axle, Multi-Trlr.Truck)	<u>000000</u>	<u>000000</u>	<u>000000</u>
11. FHWA CLASS 13 (7 or more Axle, Multi-Trlr.Truck)	<u>000002</u>	<u>000002</u>	<u>000002</u>
12. OTHER VEHICLES	<u>000076</u>	<u>000073</u>	<u>000073</u>
GRAND TOTAL	<u>009541</u>	<u>004021</u>	<u>004021</u>

NAME OF PREPARER S. TasakaPHONE # (808) 586-9602DATE PREPARED 2/27/91

APR 09 1992

By W

ENTERED

197203

SHEET 5 LTPP TRAFFIC DATA VEHICLE CLASSIFICATION DATA FHWA 13-CLASS SYSTEM	*STATE ASSIGNED ID [_____] *STATE CODE [<u>15</u>] *SHRP SECTION ID [<u>7080</u>]
-----------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------

HIGHWAY RT. NO. (THIS COUNT) FAP 19 MILEPOST# (THIS COUNT) 92.82

LOCATION (THIS COUNT) Queen Kaahumanu at Keahole Airport Rd FUNCTIONAL CLASS 06 Minor Arterial

BEGINNING DATE 08-09-84 ENDING DATE 08-10-84 08-09-84

BEGINNING TIME 0600 ENDING TIME 1800 DURATION (HRS) 12

TYPE OF COUNT: MANUAL X AUTOMATED _____ NO. OF LANES COUNTED 2 *021em 12/1/2004*

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

EQUIPMENT NAME / MODEL # _____

TOTAL NO. OF VEHICLES CLASSIFIED 3911 # TRUCKS 285 % TRUCKS 7.3%

NO. OF TRUCKS IN GPS LANE 136 % OF TRUCKS IN GPS LANE 6.9%

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.

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	_____	_____	_____

ENTERED
APR 09 1992
By W

ENTERED
AUG 16 1991
By _____

NAME OF PREPARER <u>S. Tasaka</u>	PHONE # <u>(808) 586-9602</u>
DATE PREPARED <u>2/28/91</u>	

1/ adjusted to 24-hr w/ 12 hr meter night count of 753.

SHEET 5

LTPP TRAFFIC DATA

VEHICLE CLASSIFICATION DATA
FHWA 13-CLASS SYSTEM

*STATE ASSIGNED ID []

*STATE CODE [15]

*SHRP SECTION ID [7080]

HIGHWAY RT. NO. (THIS COUNT) FAP 19 MILEPOST# (THIS COUNT) 66.82LOCATION (THIS COUNT) Queen K @ Kawaihee-Waimae Rd FUNCTIONAL CLASS 06 Minor ArterialBEGINNING DATE 08-02-78 ENDING DATE 08-02-78 08/02/78BEGINNING TIME 0600 ENDING TIME 1800 DURATION (HRS) 12TYPE OF COUNT: MANUAL X AUTOMATED NO. OF LANES COUNTED 2 ^{021em 12/1/2004}TYPE OF EQUIP.: AVC PERM. AVC PORT. WIM PERM. WIM PORT. EQUIPMENT NAME / MODEL # TOTAL NO. OF VEHICLES CLASSIFIED 3085 # TRUCKS 218 % TRUCKS 7.1%NO. OF TRUCKS IN GPS LANE 107 % OF TRUCKS IN GPS LANE 7.1%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.

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

ENTERED

APR 09 1992

By LLV

ENTERED

AUG 16 1991

GRAND TOTAL

By NAME OF PREPARER S. TasakaPHONE # (808) 586-9603DATE PREPARED 3/1/91

Adjusted to 24-hr w/ 12-hr meter night count of 618.

SHEET 6 LTPP TRAFFIC DATA VEHICLE CLASSIFICATION DATA AGENCY DEFINED CLASSES	*STATE ASSIGNED ID [_____] *STATE CODE [<u>15</u>] *SHRP SECTION ID [<u>7080</u>]
-------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------

FOR 4-BIN OR OTHER CLASSIFICATION SYSTEMS

HIGHWAY ROUTE NO. (THIS COUNT) FAP 19 MILEPOST # (THIS COUNT) 92.82

BEGINNING DATE 08-09-84 ENDING DATE 08-09-84

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	ENTERED
A. <u>Passenger Cars</u>	<u>002321</u>	<u>001199</u>	<u>0011</u>	By <u>9</u>
B. <u>Buses</u>	<u>000026</u>	<u>000013</u>	<u>000013</u>	
C. <u>2P</u>	<u>000552</u>	<u>000286</u>	<u>000286</u>	
D. <u>2S</u>	<u>000069</u>	<u>000034</u>	<u>000034</u>	
E. <u>2D</u>	<u>000111</u>	<u>000047</u>	<u>000047</u>	
F. <u>3X</u>	<u>000025</u>	<u>000014</u>	<u>000014</u>	
G. <u>4X</u>	<u>000001</u>	<u>000001</u>	<u>000001</u>	
H. <u>3-S-1</u>	<u>000002</u>	<u>000001</u>	<u>000001</u>	
I. <u>3-S-2</u>	<u>000046</u>	<u>000024</u>	<u>000024</u>	
J. <u>3-2</u>	<u>000001</u>	<u>000001</u>	<u>000001</u>	
K. <u>2-S1-2</u>	<u>000001</u>	<u>000000</u>	<u>000000</u>	
L. <u>2-S2-2</u>	<u>000001</u>	<u>000000</u>	<u>000000</u>	
M. <u>3-S2-2</u>	<u>000001</u>	<u>000000</u>	<u>000000</u>	
N. <u>3-S2-3</u>	<u>000001</u>	<u>000001</u>	<u>000001</u>	
O. _____	-----	-----	-----	
P. <u>SUB TOTAL</u>	<u>003158</u>	<u>001621</u>	<u>001621</u>	
Q. _____	-----	-----	-----	
R. <u>12-HR 1800-0600</u> <u>meter count</u>	<u>000753</u>	<u>000345</u>	<u>000345</u>	
S. _____	-----	-----	-----	
T. _____	-----	-----	-----	

ENT'D SEP 15 2004

GRAND TOTAL 003911 001966 001966

NAME OF PREPARER S. Tasaka PHONE # (808) 586-9602

DATE PREPARED 2/28/91

ENTERED

AUG 16 1991

Rv

SHEET 6

LTPP TRAFFIC DATA

VEHICLE CLASSIFICATION DATA
AGENCY DEFINED CLASSES

*STATE ASSIGNED ID []

*STATE CODE [15]

*SHRP SECTION ID [7080]

FOR 4-BIN OR OTHER CLASSIFICATION SYSTEMS

HIGHWAY ROUTE NO. (THIS COUNT) FAP 19MILEPOST # (THIS COUNT) 6682BEGINNING DATE 08-02-78 ENDING DATE 08-03-78BEGINNING 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>001800</u>	<u>000832</u>	<u>000832</u>
B. <u>Buses</u>	<u>000037</u>	<u>000018</u>	<u>000018</u>
C. <u>2P</u>	<u>000449</u>	<u>000214</u>	<u>000214</u>
D. <u>2S</u>	<u>000063</u>	<u>000030</u>	<u>000030</u>
E. <u>2D</u>	<u>000055</u>	<u>000030</u>	<u>000030</u>
F. <u>3X</u>	<u>000016</u>	<u>000007</u>	<u>000007</u>
G. <u>2-5-1</u>	<u>000004</u>	<u>000002</u>	<u>000002</u>
H. <u>2-5-2</u>	<u>000001</u>	<u>000001</u>	<u>000001</u>
I. <u>3-5-1</u>	<u>000001</u>	<u>000000</u>	<u>000000</u>
J. <u>3-5-2</u>	<u>000037</u>	<u>000017</u>	<u>000017</u>
K. <u>3-2</u>	<u>000004</u>	<u>000002</u>	<u>000002</u>
L. _____	_____	_____	_____
M. <u>Subtotal</u>	<u>002467</u>	<u>001153</u>	<u>001153</u>
N. _____	_____	_____	_____
O. <u>12-hr 1800-0600 night meter count</u>	<u>000618</u>	<u>000347</u>	<u>000347</u>
P. _____	_____	_____	_____
Q. _____	_____	_____	_____
R. _____	_____	_____	_____
S. _____	_____	_____	_____
T. _____	_____	_____	_____

ENT'D SEP 15 2004

ENTERED

AUG 16 1991

By _____

GRAND TOTAL

003085 001500 001500NAME OF PREPARER S. Tasaka

ENTERED

PHONE # (808) 586-9602DATE PREPARED 3/1/91

APR 09 1992

By _____

SHEET 7
LTPP TRAFFIC DATA
VEHICLE CLASSIFICATION
CONVERSION CHART

*STATE ASSIGNED ID [_____]
 *STATE CODE [15]
 *SHRP SECTION ID [7080]

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 70

NAME OF PREPARER 70 PHONE # _____
 DATE PREPARED 4-10-96

SHEET 7 LTPP TRAFFIC DATA VEHICLE CLASSIFICATION CONVERSION CHART	*STATE ASSIGNED ID [_____]
	*STATE CODE [<u>15</u>]
	*SHRP SECTION ID [<u>7080</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 08-09-84 TO 08-10-84

FHWA CLASSES													
SHA CLASS	1-3	4	5	6	7	8	9	10	11	12	13	OTHER	TOTAL
A	<u>59</u>												<u>059</u>
B		<u>01</u>											<u>001</u>
C	<u>14</u>												<u>014</u>
D	<u>02</u>												<u>002</u>
E			<u>03</u>										<u>003</u>
F				<u>01</u>									<u>001</u>
G					*								*
H						*							*
I							<u>01</u>						<u>001</u>
J							*						*
K									*				*
L										*			*
M											*		*
N											*		*
O													
P													
Q													
R	<u>19</u>												<u>019</u>
S													
T													
TOTAL	<u>94</u>	<u>01</u>	<u>03</u>	<u>01</u>	*	*	<u>01</u>	<u>00</u>	*	*	*	<u>00</u>	<u>100</u>

* % less than 1.

NAME OF PREPARER <u>S. Tasaka</u>	ENTERED	PHONE # <u>(808) 586-9082</u>	ENTERED
DATE PREPARED <u>2/28/91</u>	APR 09 1992		SEP 02 1992
By <u>LLV</u>		By <u>LLV</u>	

SHEET 7 LTPP TRAFFIC DATA VEHICLE CLASSIFICATION CONVERSION CHART	*STATE ASSIGNED ID [_____] *STATE CODE [<u>15</u>] *SHRP SECTION ID [<u>70 80</u>]
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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 08-02-78 TO 08-03-78

FHWA CLASSES													
SHA CLASS	1-3	4	5	6	7	8	9	10	11	12	13	OTHER	TOTAL
A	<u>5 8</u>												<u>0 5 8</u>
B		<u>0 1</u>											<u>0 0 1</u>
C	<u>1 5</u>												<u>0 1 5</u>
D	<u>0 2</u>												<u>0 0 2</u>
E			<u>0 2</u>										<u>0 0 2</u>
F				<u>0 1</u>									<u>0 0 1</u>
G						*							*
H						*							*
I						*							*
J							<u>0 1</u>						<u>0 1</u>
K							*						*
L													
M													
N													
O	<u>2 0</u>												<u>0 2 0</u>
P													
Q													
R													
S													
T													
TOTAL	<u>9 5</u>	<u>0 1</u>	<u>0 2</u>	<u>0 1</u>	<u>0 0</u>	<u>*</u>	<u>0 1</u>	<u>0 0</u>	<u>0 0</u>	<u>0 0</u>	<u>0 0</u>	<u>0 0</u>	<u>1 0 0</u>

E
B

ENTERED
AUG 16 1991
By _____

* % less than 1.

NAME OF PREPARER <u>S. Tasaka</u>	ENTERED PHONE # <u>(808) 586-9602</u>	ENTERED
DATE PREPARED <u>3/1/91</u>	APR 09 1992	SEP 02 1992
By <u>____</u>	By <u>____</u>	