

SHEET 1
LTPP TRAFFIC DATA
SUMMARY TRANSMITTAL FORM

*STATE ASSIGNED ID [0026]
*STATE CODE [21]
*SHRP SECTION ID [6040]

STATE OR PROVINCE KENTUCKY COUNTY FAYETTE
HIGHWAY ROUTE NO. KY 4 MILEPOST# 3.500
NEAREST CITY/TOWN LEXINGTON NEAREST INTERSECTION US 60
FUNCTIONAL CLASS 12 NO. LANES EACH DIRECTION 2 TOTAL NO. LANES 4
DIRECTION OF TRAVEL GPS LANE SOUTH DATE OPENED TO TRAF. 10-30-69
FIPS COUNTY CODE 067 FHWA STATION IDENTIFICATION NO. _____
HPMS SAMPLE NO. 4 2235 HPMS SUBDIVISION NO. 0
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 RELATIVE TO THIS GPS TEST SECTION.

NAME OF PREPARER A. RUCKER PHONE # 502 564-7183
DATE PREPARED 1-15-90

SCANNED

JUN 17 2008
BY [Signature]

SHEET 1 LTPP TRAFFIC DATA SUMMARY TRANSMITTAL FORM	*STATE ASSIGNED ID [0026] *STATE CODE [21] *SHRP SECTION ID [6040]
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STATE OR PROVINCE KENTUCKY COUNTY FAYETTEHIGHWAY ROUTE NO. KY 4 MILEPOST# 3.500NEAREST CITY/TOWN LEXINGTON NEAREST INTERSECTION US 60FUNCTIONAL CLASS 12 NO. LANES EACH DIRECTION 2 TOTAL NO. LANES 4DIRECTION OF TRAVEL GPS LANE SOUTH DATE OPENED TO TRAF. 10-30-69FIPS COUNTY CODE 067 FHWA STATION IDENTIFICATION NO. _____HPMS SAMPLE NO. 4 2235 HPMS SUBDIVISION NO. 0TYPE 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 RELATIVE TO THIS GPS TEST SECTION.

NAME OF PREPARER <u>A. Rucker</u>	PHONE # <u>502 564-7183</u>
DATE PREPARED <u>1-15-90</u>	

SHEET 2
LTPP TRAFFIC DATA
TRAFFIC VOLUMES
AND LOAD ESTIMATES

*STATE ASSIGNED ID [0026]
 *STATE CODE [21]
 *SHRP SECTION ID [6040]

YEAR	1. ESTIMATED TOTAL VEHICLES AADT (TWO-WAY)	2. ESTIMATED TOTAL TRUCK AADT (TWO-WAY) 4.6	3. ESTIMATED TOTAL VEHICLES AADT GPS LANE 35.1	4. ESTIMATED TOTAL TRUCKS AADT GPS LANE 6.8	5. ESTIMATED ESAL'S / YR GPS LANE (1000's)
1989	-49000	2255	17200	1170	360.5
1988	-48100	2215	16900	1150	362.3
1987	47600	2190	16700	1135	358.0
1986	-43700	2010	15300	1040	328.0
1985	40100	1845	14100	960	302.3
1984	40700	1870	14300	970	238.7
1983	-38300	1760	13400	910	219.1
1982	36700	1690	12900	875	206.4
1981	32500	1495	11400	775	179.2
1980	-33200	1525	11700	795	179.7
1979	31400	1445	11000	750	164.9
1978	-30800	1415	10800	735	158.8
1977	-29800	1370	10500	715	150.4
1976	29300	1350	10300	700	144.4
1975	-27100	1245	9510	645	129.7
1974	24700	1135	8670	590	114.8
1973	-26800	1235	9410	640	121.6
1972	-24500	1125	8600	585	107.7
1971	29900	1375	10500	715	127.2
1970	-18900	870	6630	450	78.1
1969					
1968					
1967					
1966					
1965					

NOTE: TRUCK & GPS AADT BASED ON 1990 CLASSIFICATION COUNT.

NAME OF PREPARER A. RUCKER PHONE # 502 564-7183
 DATE PREPARED 1-15-90

SHEET 3

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

*STATE ASSIGNED ID [0026]

*STATE CODE [21]

*SHRP SECTION ID [6040]

1. Year Applicable 70, 72, 73, 75, 77, 78
80, 83, 86, 88, 89

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: _____

*FACTORED FROM ACTUAL COUNTS FOR PREVIOUS YEARS

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: 1990 CLASSIFICATION COUNT

4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☒ Based on actual lane count data. 1990 class comp
☐ System distribution factors.
☐ Other: _____

5. METHOD FOR ESTIMATING TRUCK AADT IN GPS LANES

- ☒ Based on actual lane count data. 1990 CLASS. COUNT
☐ System distribution factors.
☐ Other: _____

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
☐ ESAL/Vehicle class. (no. of classes) _____
☒ Other: Used Kentucky's ESAL estimation method

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: USED KENTUCKY'S ESAL ESTIMATION METHOD

(B) Weight Scale Type

- ☒ WIM scale. 1990
☐ Static scale used for enforcement.
☐ Static scale not used for enforcement.
☐ Other: _____

NAME OF PREPARER A. RUCKERPHONE # 564-7183DATE PREPARED 8-10-90

SHEET 3

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

*STATE ASSIGNED ID [0026]

*STATE CODE [21]

*SHRP SECTION ID [6040]

1. Year Applicable 1971

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: 1990 CLASSIFICATION
COUNT

4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☒ Based on actual lane count data. 1990 CLASS, C7.
- ☐ System distribution factors.
- ☐ Other: _____

5. METHOD FOR ESTIMATING TRUCK AADT IN GPS LANES

- ☒ Based on actual lane count data. 1990 CLASS, C7.
- ☐ System distribution factors.
- ☐ Other: _____

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck
- ☐ ESAL/Vehicle class. (no. of classes) _____
- ☒ Other: USED KENTUCKY'S ESAL
ESTIMATION METHOD

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: USED KENTUCKY'S ESAL
ESTIMATION METHOD

(B) Weight Scale Type

- ☐ WIM scale.
- ☐ Static scale used for enforcement.
- ☐ Static scale not used for enforcement.
- ☒ Other: NO WEIGHT DATA AT
THIS SITE

NAME OF PREPARER A. RUCKER

DATE PREPARED 1-10-91

PHONE # 502 564-7183

SHEET 3

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

*STATE ASSIGNED ID [0026]

*STATE CODE [21]

*SHRP SECTION ID [6040]

1. Year Applicable 1974

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: 1990 CLASSIFICATION COUNT

4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☒ Based on actual lane count data. 1990 CLASS. CT.
- ☐ System distribution factors.
- ☐ Other: _____

5. METHOD FOR ESTIMATING TRUCK AADT IN GPS LANES

- ☒ Based on actual lane count data. 1990 CLASS CT
- ☐ System distribution factors.
- ☐ Other: _____

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
- ☐ ESAL/Vehicle class. (no. of classes)
- ☒ Other: USED KENTUCKY'S ESAL ESTIMATION METHOD

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: USED KENTUCKY'S ESAL ESTIMATION METHOD

(B) Weight Scale Type

- ☐ WIM scale.
- ☐ Static scale used for enforcement.
- ☐ Static scale not used for enforcement.
- ☒ Other: NO WEIGHT DATA AT THIS SITE

NAME OF PREPARER A. RUCKER
DATE PREPARED 1-10-91

PHONE # 502 564-7183

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

*STATE ASSIGNED ID [0026]
 *STATE CODE [21]
 *SHRP SECTION ID [6040]

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: 1990 CLASSIFICATION
COUNT

4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☒ Based on actual lane count data. 1990 CLASS. CT.
- ☐ System distribution factors.
- ☐ Other: _____

5. METHOD FOR ESTIMATING TRUCK AADT IN GPS LANES

- ☒ Based on actual lane count data. 1990 CLASS. CT.
- ☐ System distribution factors.
- ☐ Other: _____

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
- ☐ ESAL/Vehicle class. (no. of classes) _____
- ☒ Other: USED KENTUCKY'S ESAL
ESTIMATION METHOD

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: USED KENTUCKY'S ESAL
ESTIMATION METHOD

(B) Weight Scale Type

- ☐ WIM scale.
- ☐ Static scale used for enforcement.
- ☐ Static scale not used for enforcement.
- ☒ Other: NO WEIGHT DATA AT
THIS SITE

NAME OF PREPARER A. Rucker PHONE # 502 564-7183
 DATE PREPARED 1-10-90

SHEET 3

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

*STATE ASSIGNED ID [0026]

*STATE CODE [21]

*SHRP SECTION ID [6040]

1. Year Applicable 1979

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: 1990 CLASSIFICATION COUNT

4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☒ Based on actual lane count data. 1990 CLASS. CT.
- ☐ System distribution factors.
- ☐ Other: _____

5. METHOD FOR ESTIMATING TRUCK AADT IN GPS LANES

- ☒ Based on actual lane count data. 1990 CLASS CT.
- ☐ System distribution factors.
- ☐ Other: _____

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
- ☐ ESAL/Vehicle class. (no. of classes)
- ☒ Other: USED KENTUCKY'S ESAL ESTIMATION METHOD

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: USED KENTUCKY'S ESAL ESTIMATION METHOD

(B) Weight Scale Type

- ☐ WIM scale.
- ☐ Static scale used for enforcement.
- ☐ Static scale not used for enforcement.
- ☒ Other: NO WEIGHT DATA AT THIS SITE

NAME OF PREPARER A. RUCKEL

PHONE # 502 564-7183

DATE PREPARED 1-10-91

SHEET 3

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

*STATE ASSIGNED ID [0026]

*STATE CODE [21]

*SHRP SECTION ID [6040]

1. Year Applicable 1981

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: 1990 CLASSIFICATION
COUNT

4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☒ Based on actual lane count data. 1990 CLASS. C7.
- ☐ System distribution factors.
- ☐ Other: _____

5. METHOD FOR ESTIMATING TRUCK AADT IN GPS LANES

- ☒ Based on actual lane count data. 1990 CLASS. C7.
- ☐ System distribution factors.
- ☐ Other: _____

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
- ☐ ESAL/Vehicle class. (no. of classes) _____
- ☒ Other: USED KENTUCKY'S ESAL
ESTIMATION METHOD

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: USED KENTUCKY'S ESAL
ESTIMATION METHOD

(B) Weight Scale Type

- ☐ WIM scale.
- ☐ Static scale used for enforcement.
- ☐ Static scale not used for enforcement.
- ☒ Other: NO WEIGHT DATA AT
THIS SITE

NAME OF PREPARER A. RUCKEN

DATE PREPARED 1-10-91

PHONE # 502 564-7183

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

*STATE ASSIGNED ID [0026]
 *STATE CODE [21]
 *SHRP SECTION ID [6040]

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: 1990 CLASSIFICATION COUNT

4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☒ Based on actual lane count data. 1990 CLASS. CT.
☐ System distribution factors.
☐ Other: _____

5. METHOD FOR ESTIMATING TRUCK AADT IN GPS LANES

- ☒ Based on actual lane count data. 1990 CLASS. CT.
☐ System distribution factors.
☐ Other: _____

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
☐ ESAL/Vehicle class. (no. of classes) _____
☒ Other: USED KENTUCKY'S ESAL ESTIMATION METHOD

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: USED KENTUCKY'S ESAL ESTIMATION METHOD

(B) Weight Scale Type

- ☐ WIM scale.
☐ Static scale used for enforcement.
☐ Static scale not used for enforcement.
☒ Other: NO WEIGHT DATA AT THIS SITE

NAME OF PREPARER A. RUCKER
 DATE PREPARED 1-10-91

PHONE # 502 564-7183

SHEET 3

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

*STATE ASSIGNED ID [0026]

*STATE CODE [21]

*SHRP SECTION ID [6040]

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: 1990 CLASSIFICATION COUNT

4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☒ Based on actual lane count data. 1990 CLASS. CT.
- ☐ System distribution factors.
- ☐ Other: _____

5. METHOD FOR ESTIMATING TRUCK AADT IN GPS LANES

- ☒ Based on actual lane count data. 1990 CLASS. CT.
- ☐ System distribution factors.
- ☐ Other: _____

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
- ☐ ESAL/Vehicle class. (no. of classes) _____
- ☒ Other: USED KENTUCKY'S ESAL ESTIMATION METHOD

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: USED KENTUCKY'S ESAL ESTIMATION METHOD

(B) Weight Scale Type

- ☐ WIM scale.
- ☐ Static scale used for enforcement.
- ☐ Static scale not used for enforcement.
- ☒ Other: NO WEIGHT DATA AT THIS SITE

NAME OF PREPARER A. RUCKER

PHONE # 502 564-7183

DATE PREPARED 1-10-91

SHEET 3

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

*STATE ASSIGNED ID 0026*STATE CODE 21*SHRP SECTION ID 60401. Year Applicable 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: _____

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: 1990 CLASSIFICATION COUNT

4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☒ Based on actual lane count data. 1990 CLASS CT.
☐ System distribution factors.
☐ Other: _____

5. METHOD FOR ESTIMATING TRUCK AADT IN GPS LANES

- ☒ Based on actual lane count data. 1990 CLASS CT.
☐ System distribution factors.
☐ Other: _____

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
☐ ESAL/Vehicle class. (no. of classes) _____
☒ Other: USED KENTUCKY'S ESAL ESTIMATION METHOD

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: USED KENTUCKY'S ESAL ESTIMATION METHOD

(B) Weight Scale Type

- ☐ WIM scale.
☐ Static scale used for enforcement.
☐ Static scale not used for enforcement.
☒ Other: NO WEIGHT DATA AT THIS SITE

NAME OF PREPARER A. KUCKERDATE PREPARED 1-10-91PHONE # 502 564-7183

SHEET 3

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

*STATE ASSIGNED ID [0026]

*STATE CODE [21]

*SHRP SECTION ID [6040]

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: 1990 CLASSIFICATION
COUNT

4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☒ Based on actual lane count data. 1990 CLASS COUNT
- ☐ System distribution factors.
- ☐ Other: 19-

5. METHOD FOR ESTIMATING TRUCK AADT IN GPS LANES

- ☒ Based on actual lane count data. 1990 CLASS, CT.
- ☐ System distribution factors.
- ☐ Other: _____

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
- ☐ ESAL/Vehicle class. (no. of classes) _____
- ☒ Other: USED KENTUCKY'S ESAL
ESTIMATION METHOD

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: USED KENTUCKY'S ESAL
ESTIMATION METHOD

(B) Weight Scale Type

- ☐ WIM scale.
- ☐ Static scale used for enforcement.
- ☐ Static scale not used for enforcement.
- ☒ Other: NO WEIGHT DATA AT
THIS SITE

NAME OF PREPARER A. Rucker

DATE PREPARED 1-10-91

PHONE # 502 564-7183

SHEET 4 LTPP TRAFFIC DATA TRAFFIC VOLUME COUNTS	*STATE ASSIGNED ID [0026]
	*STATE CODE [21]
	*SHRP SECTION ID [0040]

HIGHWAY ROUTE NO. (THIS COUNT) 104

MILEPOST# OR LOCATION (THIS COUNT) MP 3.500

BEGINNING DATE 10-11-71 ENDING DATE 10-13-71

BEGINNING TIME 12 NOON ENDING TIME 12 NOON

COUNT DURATION 48 HOURS [] DAYS [] MONTHS

TYPE OF COUNTER PORTABLE NAME/MODEL # _____

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

ITEM	ACTUAL COUNTS	UNITS
1. TOTAL NO. OF VEHICLES (RAW COUNT)		<u>23400</u> (GPS DIRECTION)
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT		<u>0.500</u>
B. AXLE CORRECTION FACTOR		<u>1.000</u>
C. DAY OF WEEK FACTOR		<u>1.070</u>
D. MONTH FACTOR		<u>0.960</u>
E. OTHER FACTOR (_____)		<u>----</u>
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY) = <u>29,900</u>		<u>12800</u> (GPS DIRECTION)
4. DIRECTIONAL DISTRIBUTION FACTOR		<u>1.000</u>
5. GPS LANE DISTRIBUTION FACTOR		<u>0.820</u>
6. AADT GPS LANE		<u>10500</u>

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

NAME OF PREPARER <u>A. RUCKER</u>	PHONE # <u>502 564-7183</u>
DATE PREPARED <u>12-6-90</u>	

SHEET 4 LTPP TRAFFIC DATA TRAFFIC VOLUME COUNTS	*STATE ASSIGNED ID [0026]
	*STATE CODE [21]
	*SHRP SECTION ID [6040]

HIGHWAY ROUTE NO. (THIS COUNT) 104

MILEPOST# OR LOCATION (THIS COUNT) MP 3.500

BEGINNING DATE 7-15-74 ENDING DATE 7-17-74

BEGINNING TIME 11 AM ENDING TIME 11 AM

COUNT DURATION 48 HOURS [] DAYS [] MONTHS

TYPE OF COUNTER PORTABLE NAME/MODEL # _____

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

	ACTUAL COUNTS	UNITS
1. TOTAL NO. OF VEHICLES (RAW COUNT)		<u>25590 (GPS DIRECTION)</u>
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT	<u>0.500</u>	
B. AXLE CORRECTION FACTOR	<u>1.000</u>	
C. DAY OF WEEK FACTOR	<u>1.000</u>	
D. MONTH FACTOR	<u>0.960</u>	
E. OTHER FACTOR (_____)	<u>----</u>	
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY) = <u>24,700</u>		<u>12300 (GPS DIRECTION)</u>
4. DIRECTIONAL DISTRIBUTION FACTOR	<u>1.000</u>	
5. GPS LANE DISTRIBUTION FACTOR	<u>0.705</u>	
6. AADT GPS LANE		<u>8670</u>

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

NAME OF PREPARER <u>A. Rucker</u>	PHONE # <u>502 564-7183</u>
DATE PREPARED <u>12-6-90</u>	

SHEET 4 LTPP TRAFFIC DATA TRAFFIC VOLUME COUNTS	*STATE ASSIGNED ID [0026]
	*STATE CODE [21]
	*SHRP SECTION ID [6040]

HIGHWAY ROUTE NO. (THIS COUNT) 104

MILEPOST# OR LOCATION (THIS COUNT) MP 3.500

BEGINNING DATE 9-9-76 ENDING DATE 9-13-76

BEGINNING TIME 2 PM ENDING TIME 2 PM

COUNT DURATION 96 HOURS [] DAYS [] MONTHS

TYPE OF COUNTER PORTABLE NAME/MODEL # _____

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

ITEM	ACTUAL COUNTS	UNITS
1. TOTAL NO. OF VEHICLES (RAW COUNT)		<u>55220</u> (GPS DIRECTION)
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT		<u>0.250</u>
B. AXLE CORRECTION FACTOR		<u>1.000</u>
C. DAY OF WEEK FACTOR		<u>1.000</u>
D. MONTH FACTOR		<u>0.970</u>
E. OTHER FACTOR (_____)		<u>----</u>
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT)		<u>15000</u> (GPS DIRECTION)
(TWO-WAY) - <u>29,300</u>		
4. DIRECTIONAL DISTRIBUTION FACTOR		<u>1.000</u>
5. GPS LANE DISTRIBUTION FACTOR		<u>0.687</u>
6. AADT GPS LANE		<u>10300</u>

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

NAME OF PREPARER <u>A. RUCKER</u>	PHONE # <u>502 564-7183</u>
DATE PREPARED <u>12-6-90</u>	

SHEET 4 LTPP TRAFFIC DATA TRAFFIC VOLUME COUNTS	*STATE ASSIGNED ID (0026)
	*STATE CODE (21)
	*SHRP SECTION ID (6040)

HIGHWAY ROUTE NO. (THIS COUNT) KY 4

MILEPOST# OR LOCATION (THIS COUNT) MP 3-500

BEGINNING DATE 8-29-79 ENDING DATE 8-31-79

BEGINNING TIME 10 AM ENDING TIME 10 AM

COUNT DURATION 48 HOURS [] DAYS [] MONTHS

TYPE OF COUNTER PORTABLE NAME/MODEL # _____

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

ITEM	ACTUAL COUNTS	UNITS
1. TOTAL NO. OF VEHICLES (RAW COUNT)		<u>34120</u> (GPS DIRECTION)
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT		<u>0.500</u>
B. AXLE CORRECTION FACTOR		<u>1.000</u>
C. DAY OF WEEK FACTOR		<u>1.000</u>
D. MONTH FACTOR		<u>0.930</u>
E. OTHER FACTOR (_____)		<u>----</u>
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY) - 31,400		<u>15800</u> (GPS DIRECTION)
4. DIRECTIONAL DISTRIBUTION FACTOR		<u>1.000</u>
5. GPS LANE DISTRIBUTION FACTOR		<u>0.696</u>
6. AADT GPS LANE		<u>11000</u>

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

NAME OF PREPARER <u>A. RUCKER</u>	PHONE # <u>502 564-7183</u>
DATE PREPARED <u>12-6-90</u>	

SHEET 4 LTPP TRAFFIC DATA TRAFFIC VOLUME COUNTS	*STATE ASSIGNED ID [0026]
	*STATE CODE [21]
	*SHRP SECTION ID [6040]

HIGHWAY ROUTE NO. (THIS COUNT) KY4

MILEPOST# OR LOCATION (THIS COUNT) MP 3.500

BEGINNING DATE 6-2-81 ENDING DATE 6-4-81

BEGINNING TIME 12 NOON ENDING TIME 12 NOON

COUNT DURATION 48 HOURS [] DAYS [] MONTHS

TYPE OF COUNTER PORTABLE NAME/MODEL # _____

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

ITEM	ACTUAL COUNTS	UNITS
1. TOTAL NO. OF VEHICLES (RAW COUNT)		<u>33370</u> (GPS DIRECTION)
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT		<u>0.500</u>
B. AXLE CORRECTION FACTOR		<u>1.000</u>
C. DAY OF WEEK FACTOR		<u>1.000</u>
D. MONTH FACTOR		<u>0.970</u>
E. OTHER FACTOR (_____)		<u> </u>
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY) <u>32500</u>		<u>16200</u> (GPS DIRECTION)
4. DIRECTIONAL DISTRIBUTION FACTOR		<u>1.000</u>
5. GPS LANE DISTRIBUTION FACTOR		<u>0.704</u>
6. AADT GPS LANE		<u>11400</u>

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

NAME OF PREPARER <u>A. RUCKER</u>	PHONE # <u>502 564-7183</u>
DATE PREPARED <u>12-6-90</u>	

SHEET 4 LTPP TRAFFIC DATA TRAFFIC VOLUME COUNTS	*STATE ASSIGNED ID [0026]
	*STATE CODE [21]
	*SHRP SECTION ID [6040]

HIGHWAY ROUTE NO. (THIS COUNT) KY 4

MILEPOST# OR LOCATION (THIS COUNT) MP 3.500

BEGINNING DATE 12-7-82 ENDING DATE 12-9-82

BEGINNING TIME 2 PM ENDING TIME 2 PM

COUNT DURATION 48 HOURS [] DAYS [] MONTHS

TYPE OF COUNTER PORTABLE NAME/MODEL # _____

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

ITEM	ACTUAL COUNTS	UNITS
1. TOTAL NO. OF VEHICLES (RAW COUNT)		<u>36310</u> (GPS DIRECTION)
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT	<u>0.500</u>	
B. AXLE CORRECTION FACTOR	<u>1.000</u>	
C. DAY OF WEEK FACTOR	<u>1.000</u>	
D. MONTH FACTOR	<u>0.990</u>	
E. OTHER FACTOR (_____)	<u>---</u>	
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY) <u>36,700</u>		<u>17900</u> (GPS DIRECTION)
4. DIRECTIONAL DISTRIBUTION FACTOR	<u>1.000</u>	
5. GPS LANE DISTRIBUTION FACTOR	<u>0.721</u>	
6. AADT GPS LANE		<u>12900</u>

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

NAME OF PREPARER <u>A. RUCKER</u>	PHONE # <u>502 564-7183</u>
DATE PREPARED <u>12-5-90</u>	

SHEET 4 LTPP TRAFFIC DATA TRAFFIC VOLUME COUNTS	*STATE ASSIGNED ID <u>10026</u>
	*STATE CODE <u>21</u>
	*SHRP SECTION ID <u>16040</u>

HIGHWAY ROUTE NO. (THIS COUNT) KY 4

MILEPOST# OR LOCATION (THIS COUNT) MP 3.500

BEGINNING DATE 9-24-84 ENDING DATE 9-26-84

BEGINNING TIME 1 PM ENDING TIME 1 PM

COUNT DURATION 48 ☒ HOURS ☐ DAYS ☐ MONTHS

TYPE OF COUNTER PORTABLE NAME/MODEL # _____

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

ITEM	ACTUAL COUNTS	UNITS
1. TOTAL NO. OF VEHICLES (RAW COUNT)		<u>42550</u> (GPS DIRECTION)
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT		<u>0.500</u>
B. AXLE CORRECTION FACTOR		<u>1.000</u>
C. DAY OF WEEK FACTOR		<u>1.000</u>
D. MONTH FACTOR		<u>0.970</u>
E. OTHER FACTOR (_____)		<u>----</u>
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY) <u>40700</u>		<u>20600</u> (GPS DIRECTION)
4. DIRECTIONAL DISTRIBUTION FACTOR		<u>1.000</u>
5. GPS LANE DISTRIBUTION FACTOR		<u>0.694</u>
6. AADT GPS LANE		<u>14300</u>

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

NAME OF PREPARER <u>A. RUCKER</u>	PHONE # <u>502 564-7183</u>
DATE PREPARED <u>12-6-90</u>	

SHEET 4 LTPP TRAFFIC DATA TRAFFIC VOLUME COUNTS	*STATE ASSIGNED ID <u>[0026]</u>
	*STATE CODE <u>[21]</u>
	*SHRP SECTION ID <u>[6040]</u>

HIGHWAY ROUTE NO. (THIS COUNT) KY 4

MILEPOST# OR LOCATION (THIS COUNT) MP 3.500

BEGINNING DATE 11-11-85 ENDING DATE 11-13-85

BEGINNING TIME 2 PM ENDING TIME 2 PM

COUNT DURATION 48 HOURS [] DAYS [] MONTHS

TYPE OF COUNTER PORTABLE NAME/MODEL # _____

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

ITEM	ACTUAL COUNTS	UNITS
1. TOTAL NO. OF VEHICLES (RAW COUNT)	<u>40580</u>	(GPS DIRECTION)
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT	<u>0.500</u>	
B. AXLE CORRECTION FACTOR	<u>1.000</u>	
C. DAY OF WEEK FACTOR	<u>---</u>	
D. MONTH FACTOR	<u>0.960</u>	
E. OTHER FACTOR (_____)	<u>---</u>	
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY) - <u>40,100</u>	<u>19500</u>	(GPS DIRECTION)
4. DIRECTIONAL DISTRIBUTION FACTOR	<u>1.000</u>	
5. GPS LANE DISTRIBUTION FACTOR	<u>0.723</u>	
6. AADT GPS LANE	<u>14100</u>	

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

NAME OF PREPARER <u>A. Kucker</u>	PHONE # <u>502 564-7183</u>
DATE PREPARED <u>12-5-90</u>	

SHEET 4 LTPP TRAFFIC DATA TRAFFIC VOLUME COUNTS	*STATE ASSIGNED ID [0026]
	*STATE CODE [21]
	*SHRP SECTION ID [6040]

HIGHWAY ROUTE NO. (THIS COUNT) 104

MILEPOST# OR LOCATION (THIS COUNT) m.p. 3.500

BEGINNING DATE 8-17-87 ENDING DATE 8-20-87

BEGINNING TIME 1 PM ENDING TIME 1 PM

COUNT DURATION 72 T HOURS [] DAYS [] MONTHS

TYPE OF COUNTER PORTABLE NAME/MODEL # _____

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

ITEM	ACTUAL COUNTS	UNITS
1. TOTAL NO. OF VEHICLES (RAW COUNT)		<u>78600</u> (GPS DIR.)
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT		<u>0.333</u>
B. AXLE CORRECTION FACTOR		<u>1.000</u>
C. DAY OF WEEK FACTOR		<u> </u>
D. MONTH FACTOR		<u>0.920</u>
E. OTHER FACTOR (_____)		<u> </u>
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY) - <u>47,600</u>		<u>23860</u> (24100)
4. DIRECTIONAL DISTRIBUTION FACTOR		<u>1.000</u>
5. GPS LANE DISTRIBUTION FACTOR		<u>0.693</u>
6. AADT GPS LANE		<u>16700</u>

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

NAME OF PREPARER <u>A. RUCKER</u>	PHONE # <u>502 564-7183</u>
DATE PREPARED <u>12-5-90</u>	

SHEET 6

LTPP TRAFFIC DATA

VEHICLE CLASSIFICATION DATA
FHWA 13-CLASS SYSTEM

*STATE ASSIGNED ID (0026)

*STATE CODE (21)

*SHRP SECTION ID (6040)

HIGHWAY RT. NO. (THIS COUNT) EV4 MILEPOST# (THIS COUNT) 3.500LOCATION (THIS COUNT) MP 3.5 FUNCTIONAL CLASS 12BEGINNING DATE 5-31-90 ENDING DATE 6-1-90BEGINNING TIME 3 PM ENDING TIME 3 PM DURATION (HRS) 1TYPE OF COUNT: MANUAL ✓ AUTOMATED ✓ NO. OF LANES COUNTED 4TYPE OF EQUIP.: AVC PERM. ✓ AVC PORT. ✓ WIM PERM. ✓ WIM PORT. ✓EQUIPMENT NAME / MODEL # STREETEK AMGT 241 IITOTAL NO. OF VEHICLES CLASSIFIED 45375 # TRUCKS 2088 % TRUCKS 4.6NO. OF TRUCKS IN GPS LANE 1089 % OF TRUCKS IN GPS LANE 6.8VEHICLE CLASSIFICATION METHOD: FHWA ✓ OTHER ✓ # BINS ✓

NOTE: IF THIS COUNT DOES NOT USE THE FHWA 13-BIN CLASSIFICATION SYSTEM USE SHEET 6. PLEASE DESCRIBE ON AN ATTACHED PAGE THE VEHICLE CLASSIFICATION SYSTEM USED BY THE AGENCY AND COMPLETE SHEET 7 DESCRIBING HOW THE SHA WOULD EXPAND OR COLLAPSE THE USER CLASSIFICATION SYSTEM TO CORRESPOND WITH THE FHWA 13 CLASSES.

VEHICLE CLASSES

	TOTAL NUMBER OF VEHICLES TWO-WAY	TOTAL NUMBER OF VEHICLES GPS DIRECTION	TOTAL NUMBER OF VEHICLES GPS LANE
1. FHWA CLASSES 1-3 (Cars, Motorcycles, Vans)	<u>43287</u>	<u>22254</u>	<u>14832</u>
2. FHWA CLASS 4 (Buses)	<u>27</u>	<u>63</u>	<u>57</u>
3. FHWA CLASS 5 (Two Axle, 6-Tire, SU Truck)	<u>675</u>	<u>418</u>	<u>362</u>
4. FHWA CLASS 6 (3 AXLE SU TRUCK)	<u>410</u>	<u>194</u>	<u>184</u>
5. FHWA CLASS 7 (4 or more Axle SU Truck)	<u>123</u>	<u>118</u>	<u>115</u> 6.8
6. FHWA CLASS 8 (4 or less axle 1-Trlr.Truck)	<u>241</u>	<u>129</u>	<u>119</u>
7. FHWA CLASS 9 (5 Axle, 1-Trlr.Truck)	<u>513</u>	<u>260</u>	<u>223</u>
8. FHWA CLASS 10 (6 or more Axle, 1-Trlr.Truck)	<u>21</u>	<u>14</u>	<u>12</u>
9. FHWA CLASS 11 (5 or less Axle, Multi-Trlr.Truck)	<u>20</u>	<u>11</u>	<u>10</u>
10. FHWA CLASS 12 (6 Axle, Multi-Trlr.Truck)	<u>462</u>	<u>1</u>	<u>1</u>
11. FHWA CLASS 13 (7 or more Axle, Multi-Trlr.Truck)	<u>6</u>	<u>4</u>	<u>4</u>
12. OTHER VEHICLES	<u>0</u>	<u>0</u>	<u>0</u>
GRAND TOTAL	<u>45375</u>	<u>23466</u>	<u>15919</u>

NAME OF PREPARER

PHONE #

DATE PREPARED

ESTIMATION OF EQUIVALENT AXLELOAD ACCUMULATIONS

COUNTY FAYETTEDATE 1-15-91NAME D. RUCKER

ROUTE ID:

Road Name NEW CIRCLE LN.Route No. 104Classified ✓Project No. SHRP 216040Unclassified Project Limits MP 3.5Reference Stations FAYETTE CO. STA. E48(90) 1989 GAL TABLES

Functional Class		
Rural	Urban	
01 Interstate	11 Interstate	
02 Principal Arterial	12 Other Freeways & Expressways	
06 Minor Arterial	14 Other Principal Arterial	
07 Major Collector	16 Minor Arterial	
08 Minor Collector	17 Collector	
09 Local	19 Local	

Percent Trucks Hauling Coal
✓ Less Than 3.0
 3.0 or GreaterDATES: Base Year Design Period (Years) Project Midyear 1989

TRAFFIC PARAMETERS:

	Base Year Estimate	Annual Change (Fractions)	No. Years to Midyear	Increment	Base Year Estimate	Project Midyear Estimate
Volume (AADT)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u>17200</u>
Percent Trucks (%T)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u>6.8</u>
% Trucks Hauling Coal (%CT)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u> </u>
Non-Coal Trucks						
Axles/Truck (A/NCT)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u>3.344</u>
EAL's/Axle (EAL/NCA)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u>0.232</u>
Coal Trucks						
Axles/Truck (A/CT)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u> </u>
EAL's/Axle (EAL/CA)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u> </u>

DAILY EAL'S AT MIDYEAR:

$$\begin{aligned}
 & \text{4-Tired Vehicles: } \frac{17200}{\text{AADT}} \times \frac{0.932}{1-(\%T/100)} \times 0.005 = \underline{80.15} \\
 & \text{Non-Coal Trucks: } \frac{17200}{\text{AADT}} \times \frac{0.068}{(\%T/100)(1-\%CT/100)} \times \frac{3.344}{\text{A/NCT}} \times \frac{0.232}{\text{EAL/NCA}} = \underline{907.39} \\
 & \text{Coal Trucks: } \frac{\text{AADT}}{\text{AADT}} \times \frac{4}{(\%T/100)(\%CT/100)} \times \frac{\text{A/CT}}{\text{A/CT}} \times \frac{\text{EAL/CA}}{\text{EAL/CA}} = \underline{987.54} \\
 & \text{Total Midyear Daily EAL's} = \underline{987.54}
 \end{aligned}$$

DESIGN EAL'S:

$$\begin{aligned}
 & \underline{987.54} \times 365 \times \frac{1}{\text{Design Period}} \times \frac{\text{Lane Adjustment}}{\text{Lane Adjustment (1 or 2 Way)}} = \underline{360,452}
 \end{aligned}$$

Lane Distribution Adjustments

L = 0.497 - (1.84 + 1.42 FT)(AADT)(10⁻⁴) for 4-lane roadways (Minimum value = 0.375)L = 0.427 - (2.308 + 1.75 FT)(AADT)(10⁻⁴) for 6-lane roadways (Minimum value = 0.25)

L = 0.50 for 2-lane roadways

ESTIMATION OF EQUIVALENT AXLELOAD ACCUMULATIONS

COUNTY FAYETTEDATE 1-15-91NAME A. Rucker

ROUTE ID:

Road Name NEW CIRCLE RD. Route No. KY 4 Classified ☒Project No. SHRP 216040 Unclassified ☐Project Limits MP 3.500Reference Stations FAYETTE RD STA E48(90) 1989 EAL TABLES

Functional Class		Percent Trucks Hauling Coal	
Rural	Urban	Less Than 3.0	3.0 or Greater
<input type="checkbox"/> 01 Interstate	<input type="checkbox"/> 11 Interstate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 02 Principal Arterial	<input checked="" type="checkbox"/> 12 Other Freeways & Expressways	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 06 Minor Arterial	<input type="checkbox"/> 14 Other Principal Arterial	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 07 Major Collector	<input type="checkbox"/> 16 Minor Arterial	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 08 Minor Collector	<input type="checkbox"/> 17 Collector	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 09 Local	<input type="checkbox"/> 19 Local	<input type="checkbox"/>	<input type="checkbox"/>

DATES: Base Year _____ Design Period (Years) _____ Project Midyear 1988

TRAFFIC PARAMETERS:

	Base Year Estimate	Annual Change (Fractions)	No. Years to Midyear	Increment	Base Year Estimate	Project Midyear Estimate
Volume (AADT)	_____ x	_____ x	_____ =	_____ +	_____ =	<u>16900</u>
Percent Trucks (%T)	_____ x	_____ x	_____ =	_____ +	_____ =	<u>6.8</u>
% Trucks Hauling Coal (%CT)	_____ x	_____ x	_____ =	_____ +	_____ =	_____
Non-Coal Trucks						
Axles/Truck (A/NCT)	_____ x	_____ x	_____ =	_____ +	_____ =	<u>3.168</u>
EAL's/Axle (EAL/NCA)	_____ x	_____ x	_____ =	_____ +	_____ =	<u>0.251</u>
Coal Trucks						
Axles/Truck (A/CT)	_____ x	_____ x	_____ =	_____ +	_____ =	_____
EAL's/Axle (EAL/CA)	_____ x	_____ x	_____ =	_____ +	_____ =	_____

DAILY EAL'S AT MIDYEAR:

$$\begin{aligned}
 &4\text{-Tired Vehicles: } \frac{16900}{\text{AADT}} \times \frac{0.932}{1-(\%T/100)} \times 0.005 = \underline{78.75} \\
 &\text{Non-Coal Trucks: } \frac{16900}{\text{AADT}} \times \frac{0.068}{(\%T/100)(1-\%CT/100)} \times \frac{3.168}{\text{A/NCT}} \times \frac{0.251}{\text{EAL/NCA}} = \underline{913.81} \\
 &\text{Coal Trucks: } \frac{\text{AADT}}{\text{AADT}} \times \frac{\%CT/100}{(\%T/100)(\%CT/100)} \times \frac{\text{A/CT}}{\text{A/CT}} \times \frac{\text{EAL/CA}}{\text{EAL/CA}} = \underline{\quad\quad\quad} \\
 &\text{Total Midyear Daily EAL's} = \underline{992.56}
 \end{aligned}$$

DESIGN EAL'S:

$$\begin{aligned}
 &\underline{992.56} \times 365 \times \frac{1}{\text{Design Period}} \times \frac{\text{Lane Adjustment}}{\text{Lane Adjustment (1 or 2 Way)}} = \underline{362,284} \\
 &\text{Midyear Daily EAL's (No. of Lanes } \underline{1} \text{)}
 \end{aligned}$$

Lane Distribution Adjustments

$$L = 0.497 - (1.84 + 1.42 \text{ FT})(\text{AADT})(10^{-4}) \text{ for 4-lane roadways (Minimum value} = 0.375)$$

$$L = 0.427 - (2.308 + 1.75 \text{ FT})(\text{AADT})(10^{-4}) \text{ for 6-lane roadways (Minimum value} = 0.25)$$

$$L = 0.50 \text{ for 2-lane roadways}$$

ESTIMATION OF EQUIVALENT AXLELOAD ACCUMULATIONS

COUNTY FAYETTEDATE 1-15-91NAME A. RUCKER

ROUTE ID:

Road Name NEW CIRCLE RDRoute No. KY 4Classified ✓Project No. SRP 216040Unclassified Project Limits MP 3.500Reference Stations FAYETTE CO. STA 648(90) 1989 EAL TABLES

Functional Class	
Rural	Urban
<u>01</u> Interstate	<u>11</u> Interstate
<u>02</u> Principal Arterial	<u>12</u> Other Freeways & Expressways
<u>06</u> Minor Arterial	<u>14</u> Other Principal Arterial
<u>07</u> Major Collector	<u>16</u> Minor Arterial
<u>08</u> Minor Collector	<u>17</u> Collector
<u>09</u> Local	<u>19</u> Local

 Percent Trucks Hauling Coal
☒ Less Than 3.0
☐ 3.0 or Greater

 DATES: Base Year Design Period (Years) Project Midyear 1987

TRAFFIC PARAMETERS:

	Base Year Estimate	Annual Change (Fractions)	No. Years to Midyear	Increment	Base Year Estimate	Project Midyear Estimate
Volume (AADT)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u>16700</u>
Percent Trucks (%T)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u>6.8</u>
% Trucks Hauling Coal (%CT)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u> </u>
Non-Coal Trucks						
Axles/Truck (A/NCT)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u>3,168</u>
EAL's/Axle (EAL/NCA)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u>0.251</u>
Coal Trucks						
Axles/Truck (A/CT)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u> </u>
EAL's/Axle (EAL/CA)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u> </u>

DAILY EAL'S AT MIDYEAR:

4-Tired Vehicles:	$\frac{16700}{AADT} \times \frac{0.932}{1-(\%T/100)} \times 0.005$	=	<u>77.82</u>
Non-Coal Trucks:	$\frac{16700}{AADT} \times \frac{0.068}{(\%T/100)(1-\%CT/100)} \times \frac{3,168}{A/NCT} \times \frac{0.251}{EAL/NCA}$	=	<u>902.99</u>
Coal Trucks:	$\frac{AADT}{AADT} \times \frac{(\%T/100)(\%CT/100)}{(\%T/100)(\%CT/100)} \times \frac{A/CT}{A/CT} \times \frac{EAL/CA}{EAL/CA}$	=	<u> </u>
Total Midyear Daily EAL's		=	<u>980.81</u>

DESIGN EAL'S:

<u>980.81</u>	x	365	x	$\frac{1}{\text{Design Period}}$	x	$\frac{\text{Lane Adjustment}}{\text{Lane Adjustment (1 or 2 Way)}}$	=	<u>357,996</u>
Midyear Daily EAL's (No. of Lanes <u>1</u>)								

Lane Distribution Adjustments

 $L = 0.497 - (1.84 + 1.42 \text{ FT})(AADT)(10^{-4})$ for 4-lane roadways (Minimum value = 0.375)

 $L = 0.427 - (2.308 + 1.75 \text{ FT})(AADT)(10^{-4})$ for 6-lane roadways (Minimum value = 0.25)

 $L = 0.50$ for 2-lane roadways

ESTIMATION OF EQUIVALENT AXLELOAD ACCUMULATIONS

COUNTY FAYETTEDATE 1-15-91NAME A. Rucker

ROUTE ID:

Road Name NEW CIRCLE RD.Route No. KY 4Classified ☒Project No. SHPP 216040Unclassified ☐Project Limits MP 3.800Reference Stations FAYETTE CO. STA E48(90) 1989 EAL TABLES

Functional Class	
Rural	Urban
01 Interstate	11 Interstate
02 Principal Arterial	12 Other Freeways & Expressways
06 Minor Arterial	14 Other Principal Arterial
07 Major Collector	16 Minor Arterial
08 Minor Collector	17 Collector
09 Local	19 Local

Percent Trucks Hauling Coal
☒ Less Than 3.0
☐ 3.0 or Greater

DATES: Base Year _____ Design Period (Years) _____ Project Midyear 1986

TRAFFIC PARAMETERS:

	Base Year Estimate	Annual Change (Fractions)	No. Years to Midyear	Increment	Base Year Estimate	Project Midyear Estimate
Volume (AADT)	_____ x _____	_____ x _____	_____ - _____	_____ + _____	_____ - _____	<u>15300</u>
Percent Trucks (%T)	_____ x _____	_____ x _____	_____ - _____	_____ + _____	_____ - _____	<u>6.8</u>
% Trucks Hauling Coal (%CT)	_____ x _____	_____ x _____	_____ - _____	_____ + _____	_____ - _____	_____
Non-Coal Trucks						
Axles/Truck (A/NCT)	_____ x _____	_____ x _____	_____ - _____	_____ + _____	_____ - _____	<u>3,168</u>
EAL's/Axle (EAL/NCA)	_____ x _____	_____ x _____	_____ - _____	_____ + _____	_____ - _____	<u>0.251</u>
Coal Trucks						
Axles/Truck (A/CT)	_____ x _____	_____ x _____	_____ - _____	_____ + _____	_____ - _____	_____
EAL's/Axle (EAL/CA)	_____ x _____	_____ x _____	_____ - _____	_____ + _____	_____ - _____	_____

DAILY EAL'S AT MIDYEAR:

$$\begin{aligned}
 & \text{4-Tired Vehicles: } \frac{15300}{\text{AADT}} \times \frac{0.932}{1-(\%T/100)} \times 0.005 = \underline{71.3} \\
 & \text{Non-Coal Trucks: } \frac{15300}{\text{AADT}} \times \frac{0.068}{(\%T/100)(1-\%CT/100)} \times \frac{3.168}{\text{A/NCT}} \times \frac{0.251}{\text{EAL/NCA}} = \underline{827.29} \\
 & \text{Coal Trucks: } \frac{\text{AADT}}{\text{AADT}} \times \frac{(\%T/100)(\%CT/100)}{(\%T/100)(\%CT/100)} \times \frac{\text{A/CT}}{\text{A/CT}} \times \frac{\text{EAL/CA}}{\text{EAL/CA}} = \underline{\quad\quad\quad} \\
 & \text{Total Midyear Daily EAL's} = \underline{898.59}
 \end{aligned}$$

DESIGN EAL'S:

$$\begin{aligned}
 & \frac{898.59}{\text{Midyear Daily EAL's}} \times 365 \times \frac{1}{\text{Design Period}} \times \frac{\text{Lane Adjustment}}{\text{Lane Adjustment (1 or 2 Way)}} = \underline{327,985}
 \end{aligned}$$

Lane Distribution Adjustments

$$\begin{aligned}
 L &= 0.497 - (1.84 + 1.42 \text{ FT})(\text{AADT})(10^{-4}) \text{ for 4-lane roadways} \quad (\text{Minimum value} = 0.375) \\
 L &= 0.427 - (2.308 + 1.75 \text{ FT})(\text{AADT})(10^{-4}) \text{ for 6-lane roadways} \quad (\text{Minimum value} = 0.25) \\
 L &= 0.50 \text{ for 2-lane roadways}
 \end{aligned}$$

ESTIMATION OF EQUIVALENT AXLELOAD ACCUMULATIONS

COUNTY FAYETTEDATE 1-15-91NAME A. Ruckel

ROUTE ID:

Road Name NEW CIRCLE LK.Route No. KY 4Classified ✓Project No. SHRP 216040Unclassified Project Limits MP 3.500Reference Stations FAYETTE CO. STA. 648(90) 1989 EAL TABLES

Functional Class		
Rural	Urban	
01 Interstate	11 Interstate	
02 Principal Arterial	12 Other Freeways & Expressways	
06 Minor Arterial	14 Other Principal Arterial	
07 Major Collector	16 Minor Arterial	
08 Minor Collector	17 Collector	
09 Local	19 Local	

Percent Trucks Hauling Coal
✓ Less Than 3.0
 3.0 or Greater

DATES: Base Year Design Period (Years) Project Midyear 1985

TRAFFIC PARAMETERS:

	Base Year Estimate	Annual Change (Fractions)	No. Years to Midyear	Increment	Base Year Estimate	Project Midyear Estimate
Volume (AADT)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u>14100</u>
Percent Trucks (%T)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u>6.8</u>
% Trucks Hauling Coal (%CT)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u> </u>
Non-Coal Trucks						
Axles/Truck (A/NCT)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u>3,168</u>
EAL's/Axle (EAL/NCA)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u>0,251</u>
Coal Trucks						
Axles/Truck (A/CT)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u> </u>
EAL's/Axle (EAL/CA)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u> </u>

DAILY EAL'S AT MIDYEAR:

$$\begin{aligned}
 & \text{4-Tired Vehicles: } \frac{14100}{\text{AADT}} \times \frac{0.932}{1 - (\%T/100)} \times 0.005 = \underline{65.71} \\
 & \text{Non-Coal Trucks: } \frac{14100}{\text{AADT}} \times \frac{0.068}{(\%T/100)(1 - \%CT/100)} \times \frac{3,168}{\text{A/NCT}} \times \frac{0.251}{\text{EAL/NCA}} = \underline{762.41} \\
 & \text{Coal Trucks: } \frac{\text{AADT}}{\text{AADT}} \times \frac{\text{A/CT}}{(\%T/100)(\%CT/100)} \times \frac{\text{EAL/CA}}{\text{EAL/CA}} = \underline{\text{ }} \\
 & \text{Total Midyear Daily EAL's} = \underline{828.12}
 \end{aligned}$$

DESIGN EAL'S:

$$\begin{aligned}
 & \underline{828.12} \times 365 \times \frac{1}{\text{Design Period}} \times \frac{\text{Lane Adjustment}}{\text{Lane Adjustment (1 or 2 Way)}} = \underline{302,264} \\
 & \text{Midyear Daily EAL's (No. of Lanes } \underline{1} \text{)}
 \end{aligned}$$

Lane Distribution Adjustments

$$\begin{aligned}
 L &= 0.497 - (1.84 + 1.42 \text{ FT})(\text{AADT})(10^{-4}) \text{ for 4-lane roadways} & (\text{Minimum value} &= 0.375) \\
 L &= 0.427 - (2.308 + 1.75 \text{ FT})(\text{AADT})(10^{-4}) \text{ for 6-lane roadways} & (\text{Minimum value} &= 0.25) \\
 L &= 0.50 \text{ for 2-lane roadways}
 \end{aligned}$$

ESTIMATION OF EQUIVALENT AXLELOAD ACCUMULATIONS

COUNTY FAYETTEDATE 1-15-91

NAME _____

ROUTE ID:

Road Name NEW CIRCLE RD.Route No. KY 4Classified ✓Project No. SHRP 216040

Unclassified _____

Project Limits MP 3.500Reference Stations FAYETTE CO. STA. E48(90) 1989 EAL TABLES

Functional Class

<u>01</u> Rural Interstate	<u>11</u> Urban Interstate
<u>02</u> Principal Arterial	<u>12</u> Other Freeways & Expressways
<u>06</u> Minor Arterial	<u>14</u> Other Principal Arterial
<u>07</u> Major Collector	<u>16</u> Minor Arterial
<u>08</u> Minor Collector	<u>17</u> Collector
<u>09</u> Local	<u>19</u> Local

 Percent Trucks Hauling Coal
✓ Less Than 3.0
 _____ 3.0 or Greater

 DATES: Base Year _____ Design Period (Years) _____ Project Midyear 1984

TRAFFIC PARAMETERS:

	Base Year Estimate	Annual Change (Fractions)	No. Years to Midyear	Increment	Base Year Estimate	Project Midyear Estimate
Volume (AADT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>14300</u>
Percent Trucks (%T)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>6.8</u>
% Trucks Hauling Coal (%CT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	_____
Non-Coal Trucks						
Axles/Truck (A/NCT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>2,904</u>
EAL's/Axle (EAL/NCA)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>0.208</u>
Coal Trucks						
Axles/Truck (A/CT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	_____
EAL's/Axle (EAL/CA)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	_____

DAILY EAL'S AT MIDYEAR:

4-Tired Vehicles:	<u>14300</u> x <u>0.932</u> x 0.005	= <u>66.64</u>
Non-Coal Trucks:	<u>14300</u> x <u>0.068</u> x <u>2,904</u> x <u>0.208</u>	= <u>587.36</u>
Coal Trucks:	<u>AADT</u> x <u>(%T/100)(%CT/100)</u> x <u>A/CT</u> x <u>EAL/CA</u>	= _____
Total Midyear Daily EAL's		= <u>654.0</u>

DESIGN EAL'S:

<u>654.0</u> x 365 x <u>1</u> x _____	= <u>238,710</u>
Midyear Daily EAL's (No. of Lanes <u>1</u>)	
Design Period	
Lane Adjustment (1 or 2 Way <u>1</u>)	

Lane Distribution Adjustments

L = 0.497 - (1.84 + 1.42 FT)(AADT)(10⁻⁴) for 4-lane roadways (Minimum value = 0.375)L = 0.427 - (2.308 + 1.75 FT)(AADT)(10⁻⁴) for 6-lane roadways (Minimum value = 0.25)

L = 0.50 for 2-lane roadways

ESTIMATION OF EQUIVALENT AXLELOAD ACCUMULATIONS

COUNTY FAYETTEDATE 1-15-91NAME A. RUCKEL

ROUTE ID:

Road Name NEW CIRCLE RD.Route No. KY 4Classified ☒Project No. SHRP 216040Unclassified ☐Project Limits MD 3.500Reference Stations FAYETTE CO. STA. E48(90) 1989 EAL TABLE

Functional Class	
Rural	Urban
<input type="checkbox"/> 01 Interstate	<input type="checkbox"/> 11 Interstate
<input type="checkbox"/> 02 Principal Arterial	<input type="checkbox"/> 12 Other Freeways & Expressways
<input type="checkbox"/> 06 Minor Arterial	<input type="checkbox"/> 14 Other Principal Arterial
<input type="checkbox"/> 07 Major Collector	<input type="checkbox"/> 16 Minor Arterial
<input type="checkbox"/> 08 Minor Collector	<input type="checkbox"/> 17 Collector
<input type="checkbox"/> 09 Local	<input type="checkbox"/> 19 Local

Percent Trucks Hauling Coal
☒ Less Than 3.0
☐ 3.0 or Greater

DATES: Base Year _____ Design Period (Years) _____ Project Midyear 1983

TRAFFIC PARAMETERS:

	Base Year Estimate	Annual Change (Fractions)	No. Years to Midyear	Increment	Base Year Estimate	Project Midyear Estimate
Volume (AADT)	_____ x	_____ x	_____ =	_____ +	_____ =	<u>13400</u>
Percent Trucks (%T)	_____ x	_____ x	_____ =	_____ +	_____ =	<u>6.8</u>
% Trucks Hauling Coal (%CT)	_____ x	_____ x	_____ =	_____ +	_____ =	_____
Non-Coal Trucks						
Axles/Truck (A/NCT)	_____ x	_____ x	_____ =	_____ +	_____ =	<u>2,922</u>
EAL's/Axle (EAL/NCA)	_____ x	_____ x	_____ =	_____ +	_____ =	<u>0.202</u>
Coal Trucks						
Axles/Truck (A/CT)	_____ x	_____ x	_____ =	_____ +	_____ =	_____
EAL's/Axle (EAL/CA)	_____ x	_____ x	_____ =	_____ +	_____ =	_____

DAILY EAL'S AT MIDYEAR:

$$\begin{aligned}
 & \text{4-Tired Vehicles: } \frac{13400}{\text{AADT}} \times \frac{0.932}{1-(\%T/100)} \times 0.005 = \underline{62.44} \\
 & \text{Non-Coal Trucks: } \frac{13400}{\text{AADT}} \times \frac{0.068}{(\%T/100)(1-\%CT/100)} \times \frac{2.922}{\text{A/NCT}} \times \frac{0.202}{\text{EAL/NCA}} = \underline{537.83} \\
 & \text{Coal Trucks: } \frac{\text{AADT}}{\text{AADT}} \times \frac{1}{(\%T/100)(\%CT/100)} \times \frac{\text{A/CT}}{\text{A/CT}} \times \frac{\text{EAL/CA}}{\text{EAL/CA}} = \underline{\quad\quad\quad} \\
 & \text{Total Midyear Daily EAL's} = \underline{600.27}
 \end{aligned}$$

DESIGN EAL'S:

$$\begin{aligned}
 & \underline{600.27} \times 365 \times \frac{1}{\text{Design Period}} \times \frac{\text{Lane Adjustment}}{\text{Lane Adjustment (1 or 2 Way)}} = \underline{219,099}
 \end{aligned}$$

Lane Distribution Adjustments

$$L = 0.497 - (1.84 + 1.42 \text{ FT})(\text{AADT})(10^{-4}) \text{ for 4-lane roadways} \quad (\text{Minimum value} = 0.375)$$

$$L = 0.427 - (2.308 + 1.75 \text{ FT})(\text{AADT})(10^{-4}) \text{ for 6-lane roadways} \quad (\text{Minimum value} = 0.25)$$

$$L = 0.50 \text{ for 2-lane roadways}$$

ESTIMATION OF EQUIVALENT AXLELOAD ACCUMULATIONS

COUNTY FAYETTEDATE 1-15-91NAME A. RUCKEL

ROUTE ID:

Road Name NEW CIRCLE RD.Route No. KY 4Classified ☒Project No. SHRP 216040Unclassified ☐Project Limits MP 3.500Reference Stations FAYETTE CO, STA 648(90) 1989 EAL TABLES

Functional Class		
Rural	Urban	
01 Interstate	11 Interstate	
02 Principal Arterial	12 Other Freeways & Expressways	
06 Minor Arterial	14 Other Principal Arterial	
07 Major Collector	16 Minor Arterial	
08 Minor Collector	17 Collector	
09 Local	19 Local	

Percent Trucks Hauling Coal
☒ Less Than 3.0
☐ 3.0 or Greater

DATES: Base Year _____ Design Period (Years) _____ Project Midyear 1982

TRAFFIC PARAMETERS:

	Base Year Estimate	Annual Change (Fractions)	No. Years to Midyear	Increment	Base Year Estimate	Project Midyear Estimate
Volume (AADT)	_____ x	_____ x	_____ -	_____ +	_____ -	<u>12900</u>
Percent Trucks (%T)	_____ x	_____ x	_____ -	_____ +	_____ -	<u>6.8</u>
% Trucks Hauling Coal (%CT)	_____ x	_____ x	_____ -	_____ +	_____ -	_____
Non-Coal Trucks						
Axles/Truck (A/NCT)	_____ x	_____ x	_____ -	_____ +	_____ -	<u>2,939</u>
EAL's/Axle (EAL/NCA)	_____ x	_____ x	_____ -	_____ +	_____ -	<u>0.196</u>
Coal Trucks						
Axles/Truck (A/CT)	_____ x	_____ x	_____ -	_____ +	_____ -	_____
EAL's/Axle (EAL/CA)	_____ x	_____ x	_____ -	_____ +	_____ -	_____

DAILY EAL'S AT MIDYEAR:

$$\begin{aligned}
 & \text{4-Tired Vehicles: } \frac{12900}{\text{AADT}} \times \frac{0.932}{1-(\%T/100)} \times 0.005 = \underline{60.11} \\
 & \text{Non-Coal Trucks: } \frac{12900}{\text{AADT}} \times \frac{0.068}{(\%T/100)(1-\%CT/100)} \times \frac{2.939}{\text{A/NCT}} \times \frac{0.196}{\text{EAL/NCA}} = \underline{505.31} \\
 & \text{Coal Trucks: } \frac{\text{AADT}}{\text{AADT}} \times \frac{\%CT/100}{(\%T/100)(\%CT/100)} \times \frac{\text{A/CT}}{\text{A/CT}} \times \frac{\text{EAL/CA}}{\text{EAL/CA}} = \underline{\quad\quad\quad} \\
 & \text{Total Midyear Daily EAL's} = \underline{565.42}
 \end{aligned}$$

DESIGN EAL'S:

$$\begin{aligned}
 & \frac{565.42}{\text{Midyear Daily EAL's}} \times 365 \times \frac{1}{\text{Design Period}} \times \frac{\text{Lane Adjustment}}{\text{Lane Adjustment (1 or 2 Way)}} = \underline{206,378} \\
 & \text{(No. of Lanes } \underline{1} \text{)}
 \end{aligned}$$

Lane Distribution Adjustments

$$L = 0.497 - (1.84 + 1.42 \text{ FT})(\text{AADT})(10^{-4}) \text{ for 4-lane roadways (Minimum value} = 0.375)$$

$$L = 0.427 - (2.308 + 1.75 \text{ FT})(\text{AADT})(10^{-4}) \text{ for 6-lane roadways (Minimum value} = 0.25)$$

$$L = 0.50 \text{ for 2-lane roadways}$$

ESTIMATION OF EQUIVALENT AXLELOAD ACCUMULATIONS

COUNTY FAYETTEDATE 1-15-91NAME A. RUCKER

ROUTE ID:

Road Name NEW CIRCLE RD.Route No. KY 4Classified ☒Project No. SHR 216040Unclassified ☐Project Limits MP 3.500Reference Stations FAYETTE CO. STA. E48(90) 1989 EAL TABLES

Functional Class		
Rural	Urban	
01 Interstate	11 Interstate	
02 Principal Arterial	12 Other Freeways & Expressways	
06 Minor Arterial	14 Other Principal Arterial	
07 Major Collector	16 Minor Arterial	
08 Minor Collector	17 Collector	
09 Local	19 Local	

Percent Trucks Hauling Coal
☒ Less Than 3.0
☐ 3.0 or Greater

DATES: Base Year _____ Design Period (Years) _____ Project Midyear 1981

TRAFFIC PARAMETERS:

	Base Year Estimate	Annual Change (Fractions)	No. Years to Midyear	Increment	Base Year Estimate	Project Midyear Estimate
Volume (AADT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>11400</u>
Percent Trucks (%T)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>6.8</u>
% Trucks Hauling Coal (%CT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	_____
Non-Coal Trucks						
Axles/Truck (A/NCT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>2.957</u>
EAL's/Axle (EAL/NCA)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>0.191</u>
Coal Trucks						
Axles/Truck (A/CT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	_____
EAL's/Axle (EAL/CA)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	_____

DAILY EAL'S AT MIDYEAR:

$$\begin{aligned}
 & \text{4-Tired Vehicles: } \frac{11400}{\text{AADT}} \times \frac{0.932}{1-(\%T/100)} \times 0.005 = \underline{53.12} \\
 & \text{Non-Coal Trucks: } \frac{11400}{\text{AADT}} \times \frac{0.068}{(\%T/100)(1-\%CT/100)} \times \frac{2.957}{\text{A/NCT}} \times \frac{0.191}{\text{EAL/NCA}} = \underline{437.82} \\
 & \text{Coal Trucks: } \frac{\text{AADT}}{\text{AADT}} \times \frac{1}{(\%T/100)(\%CT/100)} \times \frac{\text{A/CT}}{\text{A/CT}} \times \frac{\text{EAL/CA}}{\text{EAL/CA}} = \underline{490.94} \\
 & \text{Total Midyear Daily EAL's} = \underline{490.94}
 \end{aligned}$$

DESIGN EAL'S:

$$\begin{aligned}
 & \frac{490.94}{\text{Midyear Daily EAL's}} \times 365 \times \frac{1}{\text{Design Period}} \times \frac{\text{Lane Adjustment}}{\text{Lane Adjustment (1 or 2 Way)}} = \underline{179,193}
 \end{aligned}$$

Lane Distribution Adjustments

$$L = 0.497 - (1.84 + 1.42 \text{ FT})(\text{AADT})(10^{-4}) \text{ for 4-lane roadways (Minimum value} = 0.375)$$

$$L = 0.427 - (2.308 + 1.75 \text{ FT})(\text{AADT})(10^{-4}) \text{ for 6-lane roadways (Minimum value} = 0.25)$$

$$L = 0.50 \text{ for 2-lane roadways}$$

ESTIMATION OF EQUIVALENT AXLELOAD ACCUMULATIONS

COUNTY FAYETTEDATE 1-15-91NAME A. RUCKER

ROUTE ID:

Road Name NEW CIRCLE RD.Route No. KY 4Classified ☒Project No. SHRP 216040Unclassified ☐Project Limits MP 3.500Reference Stations FAYETTE CO. STA. 643(90) 1989 GAL TABLES

Functional Class

Rural	Urban
<input type="checkbox"/> 01 Interstate	<input type="checkbox"/> 11 Interstate
<input type="checkbox"/> 02 Principal Arterial	<input checked="" type="checkbox"/> 12 Other Freeways & Expressways
<input type="checkbox"/> 06 Minor Arterial	<input type="checkbox"/> 14 Other Principal Arterial
<input type="checkbox"/> 07 Major Collector	<input type="checkbox"/> 16 Minor Arterial
<input type="checkbox"/> 08 Minor Collector	<input type="checkbox"/> 17 Collector
<input type="checkbox"/> 09 Local	<input type="checkbox"/> 19 Local

 Percent Trucks Hauling Coal
☒ Less Than 3.0
☐ 3.0 or Greater

 DATES: Base Year _____ Design Period (Years) _____ Project Midyear 1980

TRAFFIC PARAMETERS:

	Base Year Estimate	Annual Change (Fractions)	No. Years to Midyear	Increment	Base Year Estimate	Project Midyear Estimate
Volume (AADT)	_____ x _____	_____ x _____	_____ - _____	_____ + _____	_____ - _____	<u>11700</u>
Percent Trucks (%T)	_____ x _____	_____ x _____	_____ - _____	_____ + _____	_____ - _____	<u>6.8</u>
% Trucks Hauling Coal (%CT)	_____ x _____	_____ x _____	_____ - _____	_____ + _____	_____ - _____	_____
Non-Coal Trucks						
Axles/Truck (A/NCT)	_____ x _____	_____ x _____	_____ - _____	_____ + _____	_____ - _____	<u>2.975</u>
EAL's/Axle (EAL/NCA)	_____ x _____	_____ x _____	_____ - _____	_____ + _____	_____ - _____	<u>0.185</u>
Coal Trucks						
Axles/Truck (A/CT)	_____ x _____	_____ x _____	_____ - _____	_____ + _____	_____ - _____	_____
EAL's/Axle (EAL/CA)	_____ x _____	_____ x _____	_____ - _____	_____ + _____	_____ - _____	_____

DAILY EAL'S AT MIDYEAR:

4-Tired Vehicles:	$\frac{11700}{AADT} \times \frac{0.932}{1-(\%T/100)} \times 0.005$	=	<u>54.52</u>
Non-Coal Trucks:	$\frac{11700}{AADT} \times \frac{0.068}{(\%T/100)(1-\%CT/100)} \times \frac{2.975}{A/NCT} \times \frac{0.185}{EAL/NCA}$	=	<u>437.88</u>
Coal Trucks:	$\frac{AADT}{AADT} \times \frac{(\%T/100)(\%CT/100)}{(\%T/100)(\%CT/100)} \times \frac{A/CT}{A/CT} \times \frac{EAL/CA}{EAL/CA}$	=	_____
Total Midyear Daily EAL's			= <u>492.4</u>

DESIGN EAL'S:

<u>492.4</u>	x	365	x	$\frac{1}{\text{Design Period}}$	x	$\frac{\text{Lane Adjustment}}{\text{Lane Adjustment (1 or 2 Way)}}$	=	<u>179,726</u>
Midyear Daily EAL's								
(No. of Lanes <u>1</u>)								

Lane Distribution Adjustments

L = 0.497 - (1.84 + 1.42 FT)(AADT)(10⁻⁴) for 4-lane roadways (Minimum value = 0.375)L = 0.427 - (2.308 + 1.75 FT)(AADT)(10⁻⁴) for 6-lane roadways (Minimum value = 0.25)

L = 0.50 for 2-lane roadways

ESTIMATION OF EQUIVALENT AXLELOAD ACCUMULATIONS

COUNTY FAYETTEDATE 1-15-91
NAME A. ROCKER

ROUTE ID:

Road Name NEW CIRCLE RD.Route No. KY 4Classified ☒Project No. SHRP 216040Unclassified ☐Project Limits MP 3.500Reference Stations FAYETTE CO. STA. 548(90) 1989 EAL TABLES

Functional Class		Urban
<u>01</u> Rural Interstate	<u>11</u> Interstate	
<u>02</u> Principal Arterial	<u>12</u> Other Freeways & Expressways	
<u>06</u> Minor Arterial	<u>14</u> Other Principal Arterial	
<u>07</u> Major Collector	<u>16</u> Minor Arterial	
<u>08</u> Minor Collector	<u>17</u> Collector	
<u>09</u> Local	<u>19</u> Local	

Percent Trucks Hauling Coal
☒ Less Than 3.0
☐ 3.0 or GreaterDATES: Base Year _____ Design Period (Years) _____ Project Midyear 1979

TRAFFIC PARAMETERS:

	Base Year Estimate	Annual Change (Fractions)	No. Years to Midyear	Increment	Base Year Estimate	Project Midyear Estimate
Volume (AADT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>11000</u>
Percent Trucks (%T)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>6.8</u>
% Trucks Hauling Coal (%CT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	_____
Non-Coal Trucks						
Axles/Truck (A/NCT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>2.992</u>
EAL's/Axle (EAL/NCA)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>0.179</u>
Coal Trucks						
Axles/Truck (A/CT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	_____
EAL's/Axle (EAL/CA)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	_____

DAILY EAL'S AT MIDYEAR:

$$\begin{aligned}
 &4\text{-Tired Vehicles: } \frac{11000}{\text{AADT}} \times \frac{0.932}{1-(\%T/100)} \times 0.005 = \underline{51.26} \\
 &\text{Non-Coal Trucks: } \frac{11000}{\text{AADT}} \times \frac{0.068}{(\%T/100)(1-\%CT/100)} \times \frac{2.992}{\text{A/NCT}} \times \frac{0.179}{\text{EAL/NCA}} = \underline{400.60} \\
 &\text{Coal Trucks: } \frac{\text{AADT}}{\text{AADT}} \times \frac{1}{(\%T/100)(\%CT/100)} \times \frac{\text{A/CT}}{\text{A/CT}} \times \frac{\text{EAL/CA}}{\text{EAL/CA}} = \underline{451.86} \\
 &\text{Total Midyear Daily EAL's} = \underline{451.86}
 \end{aligned}$$

DESIGN EAL'S:

$$\begin{aligned}
 &\frac{451.86}{\text{Midyear Daily EAL's}} \times 365 \times \frac{1}{\text{Design Period}} \times \frac{\text{Lane Adjustment}}{\text{Lane Adjustment (1 or 2 Way)}} = \underline{164,929} \\
 &\text{(No. of Lanes } \underline{1} \text{)}
 \end{aligned}$$

Lane Distribution Adjustments

$$L = 0.497 - (1.84 + 1.42 \text{ FT})(\text{AADT})(10^{-4}) \text{ for 4-lane roadways (Minimum value} = 0.375)$$

$$L = 0.427 - (2.308 + 1.75 \text{ FT})(\text{AADT})(10^{-4}) \text{ for 6-lane roadways (Minimum value} = 0.25)$$

$$L = 0.50 \text{ for 2-lane roadways}$$

ESTIMATION OF EQUIVALENT AXLELOAD ACCUMULATIONS

COUNTY FAYETTEDATE 1-15-91
NAME A. RUCKER

ROUTE ID:

Road Name NEW CIRCLE CO.Route No. KY 4Classified ☒Project No. SKP 216040Unclassified ☐Project Limits MP 3.500Reference Stations FAYETTE CO. STA. 648(90) 1989 GAL TABLES

Functional Class		
Rural	Urban	
01 Interstate	11 Interstate	
02 Principal Arterial	12 Other Freeways & Expressways	
06 Minor Arterial	14 Other Principal Arterial	
07 Major Collector	16 Minor Arterial	
08 Minor Collector	17 Collector	
09 Local	19 Local	

Percent Trucks Hauling Coal
☒ Less Than 3.0
☐ 3.0 or GreaterDATES: Base Year _____ Design Period (Years) _____ Project Midyear 1978

TRAFFIC PARAMETERS:

	Base Year Estimate	Annual Change (Fractions)	No. Years to Midyear	Increment	Base Year Estimate	Project Midyear Estimate
Volume (AADT)	_____ x	_____ x	_____ =	_____ +	_____ =	<u>10800</u>
Percent Trucks (%T)	_____ x	_____ x	_____ =	_____ +	_____ =	<u>6.8</u>
% Trucks Hauling Coal (%CT)	_____ x	_____ x	_____ =	_____ +	_____ =	_____
Non-Coal Trucks						
Axles/Truck (A/NCT)	_____ x	_____ x	_____ =	_____ +	_____ =	<u>3,010</u>
EAL's/Axle (EAL/NCA)	_____ x	_____ x	_____ =	_____ +	_____ =	<u>0.174</u>
Coal Trucks						
Axles/Truck (A/CT)	_____ x	_____ x	_____ =	_____ +	_____ =	_____
EAL's/Axle (EAL/CA)	_____ x	_____ x	_____ =	_____ +	_____ =	_____

DAILY EAL'S AT MIDYEAR:

$$\begin{aligned}
 &4\text{-Tired Vehicles: } \frac{10800}{\text{AADT}} \times \frac{0.932}{1-(\%T/100)} \times 0.005 = \underline{50.33} \\
 &\text{Non-Coal Trucks: } \frac{10800}{\text{AADT}} \times \frac{0.068}{(\%T/100)(1-\%CT/100)} \times \frac{3,010}{\text{A/NCT}} \times \frac{0.174}{\text{EAL/NCA}} = \underline{384.63} \\
 &\text{Coal Trucks: } \frac{\text{AADT}}{\text{AADT}} \times \frac{\%T/100}{(\%T/100)(\%CT/100)} \times \frac{\text{A/CT}}{\text{A/CT}} \times \frac{\text{EAL/CA}}{\text{EAL/CA}} = \underline{434.96} \\
 &\text{Total Midyear Daily EAL's} = \underline{434.96}
 \end{aligned}$$

DESIGN EAL'S:

$$\begin{aligned}
 &\frac{434.96}{\text{Midyear Daily EAL's (No. of Lanes)}} \times 365 \times \frac{1}{\text{Design Period}} \times \frac{\text{Lane Adjustment (1 or 2 Way)}}{\text{Lane Adjustment}} = \underline{158,760}
 \end{aligned}$$

Lane Distribution Adjustments

$$\begin{aligned}
 L &= 0.497 - (1.84 + 1.42 \text{ FT})(\text{AADT})(10^{-4}) \text{ for 4-lane roadways} & (\text{Minimum value} &= 0.375) \\
 L &= 0.427 - (2.308 + 1.75 \text{ FT})(\text{AADT})(10^{-4}) \text{ for 6-lane roadways} & (\text{Minimum value} &= 0.25) \\
 L &= 0.50 \text{ for 2-lane roadways}
 \end{aligned}$$

ESTIMATION OF EQUIVALENT AXLELOAD ACCUMULATIONS

COUNTY FAYETTEDATE 1-15-91NAME A. RUCKER

ROUTE ID:

Road Name NEW CIRCLE RD.Route No. KY4Classified ☒Project No. SHRP 216040Unclassified ☐Project Limits MP 3.500Reference Stations FAYETTE CO. STA. E48(90) 1989 GAL TABLES

Functional Class

Percent Trucks Hauling Coal
Less Than 3.0
3.0 or Greater

Rural	Urban
01 Interstate	11 Interstate
02 Principal Arterial	12 Other Freeways & Expressways
06 Minor Arterial	14 Other Principal Arterial
07 Major Collector	16 Minor Arterial
08 Minor Collector	17 Collector
09 Local	19 Local

DATES: Base Year _____ Design Period (Years) _____ Project Midyear 1977

TRAFFIC PARAMETERS:

	Base Year Estimate	Annual Change (Fractions)	No. Years to Midyear	Increment	Base Year Estimate	Project Midyear Estimate
Volume (AADT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>10500</u>
Percent Trucks (%T)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>6.8</u>
% Trucks Hauling Coal (%CT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	_____
Non-Coal Trucks						
Axles/Truck (A/NCT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>3,027</u>
EAL's/Axle (EAL/NCA)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>0.168</u>
Coal Trucks						
Axles/Truck (A/CT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	_____
EAL's/Axle (EAL/CA)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	_____

DAILY EAL'S AT MIDYEAR:

$$\begin{aligned}
 &4\text{-Tired Vehicles: } \frac{10500}{\text{AADT}} \times \frac{0.932}{1-(\%T/100)} \times 0.005 = \underline{48.93} \\
 &\text{Non-Coal Trucks: } \frac{10500}{\text{AADT}} \times \frac{0.068}{(\%T/100)(1-\%CT/100)} \times \frac{3,027}{\text{A/NCT}} \times \frac{0.168}{\text{EAL/NCA}} = \underline{363.09} \\
 &\text{Coal Trucks: } \frac{\text{AADT}}{\text{AADT}} \times \frac{1}{(\%T/100)(\%CT/100)} \times \frac{\text{A/CT}}{\text{A/CT}} \times \frac{\text{EAL/CA}}{\text{EAL/CA}} = \underline{\quad\quad\quad} \\
 &\text{Total Midyear Daily EAL's} = \underline{412.02}
 \end{aligned}$$

DESIGN EAL'S:

$$\begin{aligned}
 &\frac{412.02}{\text{Midyear Daily EAL's}} \times 365 \times \frac{1}{\text{Design Period}} \times \frac{\text{Lane Adjustment}}{\text{Lane Adjustment (1 or 2 Way)}} = \underline{150,387} \\
 &\text{(No. of Lanes } \underline{1} \text{)}
 \end{aligned}$$

Lane Distribution Adjustments

$$L = 0.497 - (1.84 + 1.42 \text{ FT})(\text{AADT})(10^{-4}) \text{ for 4-lane roadways (Minimum value} = 0.375)$$

$$L = 0.427 - (2.308 + 1.75 \text{ FT})(\text{AADT})(10^{-4}) \text{ for 6-lane roadways (Minimum value} = 0.25)$$

$$L = 0.50 \text{ for 2-lane roadways}$$

ESTIMATION OF EQUIVALENT AXLELOAD ACCUMULATIONS

COUNTY FAYETTEDATE 1-15-91
NAME A. RUCKEL

ROUTE ID:

Road Name NEW CIRCLE RD.Route No. KY 4Classified ☒Project No. SHRP 216040Unclassified ☐Project Limits MP 3.500Reference Stations FAYETTE CO. STA. 648(90) 1989 EAL TABLES

Functional Class		
Rural	Urban	
<input type="checkbox"/> 01 Interstate	<input type="checkbox"/> 11 Interstate	
<input type="checkbox"/> 02 Principal Arterial	<input type="checkbox"/> 12 Other Freeways & Expressways	
<input type="checkbox"/> 06 Minor Arterial	<input type="checkbox"/> 14 Other Principal Arterial	
<input type="checkbox"/> 07 Major Collector	<input type="checkbox"/> 16 Minor Arterial	
<input type="checkbox"/> 08 Minor Collector	<input type="checkbox"/> 17 Collector	
<input type="checkbox"/> 09 Local	<input type="checkbox"/> 19 Local	

Percent Trucks Hauling Coal
☒ Less Than 3.0
☐ 3.0 or GreaterDATES: Base Year _____ Design Period (Years) _____ Project Midyear 1976

TRAFFIC PARAMETERS:

	Base Year Estimate	Annual Change (Fractions)	No. Years to Midyear	Increment	Base Year Estimate	Project Midyear Estimate
Volume (AADT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>10300</u>
Percent Trucks (%T)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>6.8</u>
% Trucks Hauling Coal (%CT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	_____
Non-Coal Trucks						
Axles/Truck (A/NCT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>3.045</u>
EAL's/Axle (EAL/NCA)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>0.163</u>
Coal Trucks						
Axles/Truck (A/CT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	_____
EAL's/Axle (EAL/CA)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	_____

DAILY EAL'S AT MIDYEAR:

$$\begin{aligned}
 &4\text{-Tired Vehicles: } \frac{10300}{\text{AADT}} \times \frac{0.932}{1-(\%T/100)} \times 0.005 = \underline{48.00} \\
 &\text{Non-Coal Trucks: } \frac{10300}{\text{AADT}} \times \frac{0.068}{(\%T/100)(1-\%CT/100)} \times \frac{3.045}{\text{A/NCT}} \times \frac{0.163}{\text{EAL/NCA}} = \underline{347.63} \\
 &\text{Coal Trucks: } \frac{\text{AADT}}{\text{AADT}} \times \frac{(\%T/100)(\%CT/100)}{(\%T/100)(\%CT/100)} \times \frac{\text{A/CT}}{\text{A/CT}} \times \frac{\text{EAL/CA}}{\text{EAL/CA}} = \underline{395.63} \\
 &\text{Total Midyear Daily EAL's} = \underline{395.63}
 \end{aligned}$$

DESIGN EAL'S:

$$\begin{aligned}
 &\frac{395.63}{\text{Midyear Daily EAL's}} \times 365 \times \frac{1}{\text{Design Period}} \times \frac{\text{Lane Adjustment}}{\text{Lane Adjustment}} = \underline{144,405} \\
 &\text{(No. of Lanes } \underline{1} \text{)} \quad \text{Lane Adjustment (1 or 2 Way } \underline{1} \text{)}
 \end{aligned}$$

Lane Distribution Adjustments

L = 0.497 - (1.84 + 1.42 FT)(AADT)(10⁻⁴) for 4-lane roadways (Minimum value = 0.375)L = 0.427 - (2.308 + 1.75 FT)(AADT)(10⁻⁴) for 6-lane roadways (Minimum value = 0.25)

L = 0.50 for 2-lane roadways

ESTIMATION OF EQUIVALENT AXLELOAD ACCUMULATIONS

COUNTY FAYETTEDATE 1-15-91NAME D. RUCKER

ROUTE ID:

Road Name NEW CIRCLE RD.Route No. KV4Classified ✓Project No. SHRP 216040Unclassified Project Limits MP 3.500Reference Stations FAYETTE CO. STA. 648(90) 1989 GAC TABLES

Functional Class		Percent Trucks Hauling Coal	
Rural	Urban	Less Than 3.0	3.0 or Greater
<u>01</u> Interstate	<u>11</u> Interstate		
<u>02</u> Principal Arterial	<u>12</u> Other Freeways & Expressways		
<u>06</u> Minor Arterial	<u>14</u> Other Principal Arterial		
<u>07</u> Major Collector	<u>16</u> Minor Arterial		
<u>08</u> Minor Collector	<u>17</u> Collector		
<u>09</u> Local	<u>19</u> Local		

DATES: Base Year Design Period (Years) Project Midyear 1975

TRAFFIC PARAMETERS:

	Base Year Estimate	Annual Change (Fractions)	No. Years to Midyear	Increment	Base Year Estimate	Project Midyear Estimate
Volume (AADT)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u>9510</u>
Percent Trucks (%T)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u>6.8</u>
% Trucks Hauling Coal (%CT)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u> </u>

Non-Coal Trucks

Axles/Truck (A/NCT)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u>3.063</u>
EAAL's/Axle (EAAL/NCA)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u>0.157</u>

Coal Trucks

Axles/Truck (A/CT)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u> </u>
EAAL's/Axle (EAAL/CA)	<u> </u> x	<u> </u> x	<u> </u> =	<u> </u> +	<u> </u> =	<u> </u>

DAILY EAAL'S AT MIDYEAR:

4-Tired Vehicles:	$\frac{9510}{AADT} \times \frac{0.932}{1-(\%T/100)} \times 0.005$	<u>44.32</u>
Non-Coal Trucks:	$\frac{9510}{AADT} \times \frac{0.068}{(\%T/100)(1-\%CT/100)} \times \frac{3.063}{A/NCT} \times \frac{0.157}{EAAL/NCA}$	<u>310.98</u>
Coal Trucks:	$\frac{AADT}{AADT} \times \frac{(\%T/100)(\%CT/100)}{(\%T/100)(\%CT/100)} \times \frac{A/CT}{A/CT} \times \frac{EAAL/CA}{EAAL/CA}$	<u>355.3</u>
Total Midyear Daily EAAL's		<u>129,685</u>

DESIGN EAAL'S:

<u>355.3</u>	x	365	x	$\frac{1}{\text{Design Period}}$	x	$\frac{\text{Lane Adjustment}}{\text{Lane Adjustment (1 or 2 Way)}}$	<u>129,685</u>
Midyear Daily EAAL's							
(No. of Lanes <u>1</u>)							

Lane Distribution Adjustments

L = 0.497 - (1.84 + 1.42 FT)(AADT)(10⁻⁴) for 4-lane roadways (Minimum value = 0.375)L = 0.427 - (2.308 + 1.75 FT)(AADT)(10⁻⁴) for 6-lane roadways (Minimum value = 0.25)

L = 0.50 for 2-lane roadways

ESTIMATION OF EQUIVALENT AXLELOAD ACCUMULATIONS

COUNTY FAYETTEDATE 1-15-91
NAME A. RUCKER

ROUTE ID:

Road Name NEW CIRCLE RD. Route No. KY 4 Classified ☒
Project No. SHRP 216040 Unclassified ☐
Project Limits MP 3.500Reference Stations FAYETTE CO. STA. 648(90) 1989 EAL TABLES

Functional Class		Percent Trucks Hauling Coal	
Rural	Urban	Less Than 3.0	3.0 or Greater
<input type="checkbox"/> 01 Interstate	<input type="checkbox"/> 11 Interstate	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 02 Principal Arterial	<input checked="" type="checkbox"/> 12 Other Freeways & Expressways	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 06 Minor Arterial	<input type="checkbox"/> 14 Other Principal Arterial	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 07 Major Collector	<input type="checkbox"/> 16 Minor Arterial	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 08 Minor Collector	<input type="checkbox"/> 17 Collector	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 09 Local	<input type="checkbox"/> 19 Local	<input type="checkbox"/>	<input type="checkbox"/>

DATES: Base Year _____ Design Period (Years) _____ Project Midyear 1974

TRAFFIC PARAMETERS:

	Base Year Estimate	Annual Change (Fractions)	No. Years to Midyear	Increment	Base Year Estimate	Project Midyear Estimate
Volume (AADT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>8670</u>
Percent Trucks (%T)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>6.8</u>
% Trucks Hauling Coal (%CT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	_____
Non-Coal Trucks						
Axles/Truck (A/NCT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>3.080</u>
EAL's/Axle (EAL/NCA)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>0.151</u>
Coal Trucks						
Axles/Truck (A/CT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	_____
EAL's/Axle (EAL/CA)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	_____

DAILY EAL'S AT MIDYEAR:

$$\begin{aligned}
 &4\text{-Tired Vehicles: } \frac{8670}{\text{AADT}} \times \frac{0.932}{1 - (\%T/100)} \times 0.005 = \underline{40.4} \\
 &\text{Non-Coal Trucks: } \frac{8670}{\text{AADT}} \times \frac{0.068}{(\%T/100)(1 - \%CT/100)} \times \frac{3.080}{\text{A/NCT}} \times \frac{0.151}{\text{EAL/NCA}} = \underline{274.19} \\
 &\text{Coal Trucks: } \frac{\text{AADT}}{\text{AADT}} \times \frac{\%CT/100}{(\%T/100)(\%CT/100)} \times \frac{\text{A/CT}}{\text{A/CT}} \times \frac{\text{EAL/CA}}{\text{EAL/CA}} = \underline{314.59} \\
 &\text{Total Midyear Daily EAL's} = \underline{314.59}
 \end{aligned}$$

DESIGN EAL'S:

$$\begin{aligned}
 &\frac{314.59}{\text{Midyear Daily EAL's}} \times 365 \times \frac{1}{\text{Design Period}} \times \frac{\text{Lane Adjustment}}{\text{Lane Adjustment (1 or 2 Way)}} = \underline{114,825} \\
 &\text{(No. of Lanes } \underline{1} \text{)}
 \end{aligned}$$

Lane Distribution Adjustments

$$L = 0.497 - (1.84 + 1.42 \text{ FT})(\text{AADT})(10^{-4}) \text{ for 4-lane roadways (Minimum value} = 0.375)$$

$$L = 0.427 - (2.308 + 1.75 \text{ FT})(\text{AADT})(10^{-4}) \text{ for 6-lane roadways (Minimum value} = 0.25)$$

$$L = 0.50 \text{ for 2-lane roadways}$$

ESTIMATION OF EQUIVALENT AXLELOAD ACCUMULATIONS

COUNTY FAYETTEDATE 1-18-90NAME A. RUCKER

ROUTE ID:

Road Name NEW CIRCLE RD.Route No. 244Classified ✓Project No. SHRP 216040Unclassified Project Limits MP 3.500Reference Stations FAYETTE CO. STA. 648(90) 1989 GAL TABLES

Functional Class		Percent Trucks Hauling Coal	
Rural	Urban	Less Than 3.0	3.0 or Greater
<u>01</u> Interstate	<u>11</u> Interstate	<u> </u>	<u> </u>
<u>02</u> Principal Arterial	<u>12</u> Other Freeways & Expressways	<u> </u>	<u> </u>
<u>06</u> Minor Arterial	<u>14</u> Other Principal Arterial	<u> </u>	<u> </u>
<u>07</u> Major Collector	<u>16</u> Minor Arterial	<u> </u>	<u> </u>
<u>08</u> Minor Collector	<u>17</u> Collector	<u> </u>	<u> </u>
<u>09</u> Local	<u>19</u> Local	<u> </u>	<u> </u>

DATES: Base Year Design Period (Years) Project Midyear 1973

TRAFFIC PARAMETERS:

	Base Year Estimate	Annual Change (Fractions)	No. Years to Midyear	Increment	Base Year Estimate	Project Midyear Estimate
Volume (AADT)	<u> </u> x <u> </u>	<u> </u> x <u> </u>	<u> </u> = <u> </u>	<u> </u> + <u> </u>	<u> </u>	<u>9410</u>
Percent Trucks (%T)	<u> </u> x <u> </u>	<u> </u> x <u> </u>	<u> </u> = <u> </u>	<u> </u> + <u> </u>	<u> </u>	<u>6.8</u>
% Trucks Hauling Coal (%CT)	<u> </u> x <u> </u>	<u> </u> x <u> </u>	<u> </u> = <u> </u>	<u> </u> + <u> </u>	<u> </u>	<u> </u>
Non-Coal Trucks						
Axles/Truck (A/NCT)	<u> </u> x <u> </u>	<u> </u> x <u> </u>	<u> </u> = <u> </u>	<u> </u> + <u> </u>	<u> </u>	<u>3.097</u>
EAL's/Axle (EAL/NCA)	<u> </u> x <u> </u>	<u> </u> x <u> </u>	<u> </u> = <u> </u>	<u> </u> + <u> </u>	<u> </u>	<u>0.146</u>
Coal Trucks						
Axles/Truck (A/CT)	<u> </u> x <u> </u>	<u> </u> x <u> </u>	<u> </u> = <u> </u>	<u> </u> + <u> </u>	<u> </u>	<u> </u>
EAL's/Axle (EAL/CA)	<u> </u> x <u> </u>	<u> </u> x <u> </u>	<u> </u> = <u> </u>	<u> </u> + <u> </u>	<u> </u>	<u> </u>

DAILY EAL'S AT MIDYEAR:

$$\begin{aligned}
 &4\text{-Tired Vehicles: } \frac{9410}{\text{AADT}} \times \frac{0.932}{1 - (\%T/100)} \times 0.005 = 43.85 \\
 &\text{Non-Coal Trucks: } \frac{9410}{\text{AADT}} \times \frac{0.068}{(\%T/100)(1 - \%CT/100)} \times \frac{3.097}{\text{A/NCT}} \times \frac{0.146}{\text{EAL/NCA}} = 289.33 \\
 &\text{Coal Trucks: } \frac{\text{AADT}}{\text{AADT}} \times \frac{\%CT/100}{(\%T/100)(\%CT/100)} \times \frac{\text{A/CT}}{\text{A/CT}} \times \frac{\text{EAL/CA}}{\text{EAL/CA}} = 333.18 \\
 &\text{Total Midyear Daily EAL's} = 333.18
 \end{aligned}$$

DESIGN EAL'S:

$$\begin{aligned}
 &\frac{333.18}{\text{Midyear Daily EAL's}} \times 365 \times \frac{1}{\text{Design Period}} \times \frac{\text{Lane Adjustment}}{\text{Lane Adjustment (1 or 2 Way)}} = 121,611
 \end{aligned}$$

Lane Distribution Adjustments

$$L = 0.497 - (1.84 + 1.42 \text{ FT})(\text{AADT})(10^{-4}) \text{ for 4-lane roadways (Minimum value} = 0.375)$$

$$L = 0.427 - (2.308 + 1.75 \text{ FT})(\text{AADT})(10^{-4}) \text{ for 6-lane roadways (Minimum value} = 0.25)$$

$$L = 0.50 \text{ for 2-lane roadways}$$

ESTIMATION OF EQUIVALENT AXLELOAD ACCUMULATIONS

COUNTY FAYETTEDATE 1-15-91NAME A. RUCKER

ROUTE ID:

Road Name NEW CIRCLE RD.Route No. KY 4Classified ☒Project No. SHRP 216040Unclassified ☐Project Limits MP 3.500Reference Stations FAYETTE CO. STA. 848(90) 1989 EAL TABLES

Functional Class		
Rural	Urban	
<input type="checkbox"/> 01 Interstate	<input type="checkbox"/> 11 Interstate	
<input type="checkbox"/> 02 Principal Arterial	<input checked="" type="checkbox"/> 12 Other Freeways & Expressways	
<input type="checkbox"/> 06 Minor Arterial	<input type="checkbox"/> 14 Other Principal Arterial	
<input type="checkbox"/> 07 Major Collector	<input type="checkbox"/> 16 Minor Arterial	
<input type="checkbox"/> 08 Minor Collector	<input type="checkbox"/> 17 Collector	
<input type="checkbox"/> 09 Local	<input type="checkbox"/> 19 Local	

 Percent Trucks Hauling Coal
☐ Less Than 3.0
☐ 3.0 or Greater

 DATES: Base Year _____ Design Period (Years) _____ Project Midyear 1972

TRAFFIC PARAMETERS:

TRAFFIC PARAMETERS:									
	Base Year		Annual	No. Years		Increment	Base		Project
	Estimate		Change	to Midyear			Year		Midyear
			(Fractions)				Estimate		Estimate
Volume (AADT)	_____ x _____		_____ x _____	_____ = _____		_____ + _____	_____ = _____		<u>8600</u>
Percent Trucks (%T)	_____ x _____		_____ x _____	_____ = _____		_____ + _____	_____ = _____		<u>6.8</u>
% Trucks Hauling Coal (%CT)	_____ x _____		_____ x _____	_____ = _____		_____ + _____	_____ = _____		_____
Non-Coal Trucks									
Axles/Truck (A/NCT)	_____ x _____		_____ x _____	_____ = _____		_____ + _____	_____ = _____		<u>3,114</u>
EAL's/Axle (EAL/NCA)	_____ x _____		_____ x _____	_____ = _____		_____ + _____	_____ = _____		<u>0.140</u>
Coal Trucks									
Axles/Truck (A/CT)	_____ x _____		_____ x _____	_____ = _____		_____ + _____	_____ = _____		_____
EAL's/Axle (EAL/CA)	_____ x _____		_____ x _____	_____ = _____		_____ + _____	_____ = _____		_____

DAILY EAL'S AT MIDYEAR:

$$\begin{aligned}
 &4\text{-Tired Vehicles: } \frac{8600}{\text{AADT}} \times \frac{0.932}{1-(\%T/100)} \times 0.005 = \underline{40.08} \\
 &\text{Non-Coal Trucks: } \frac{8600}{\text{AADT}} \times \frac{0.068}{(\%T/100)(1-\%CT/100)} \times \frac{3,114}{\text{A/NCT}} \times \frac{0.140}{\text{EAL/NCA}} = \underline{254.95} \\
 &\text{Coal Trucks: } \frac{\text{AADT}}{\text{AADT}} \times \frac{\%T/100}{(\%T/100)(\%CT/100)} \times \frac{\text{A/CT}}{\text{A/CT}} \times \frac{\text{EAL/CA}}{\text{EAL/CA}} = \underline{295.03} \\
 &\text{Total Midyear Daily EAL's} = \underline{295.03}
 \end{aligned}$$

DESIGN EAL'S:

$$\text{Midyear Daily EAL's (No. of Lanes } \underline{1} \text{)} \times 365 \times \frac{1}{\text{Design Period}} \times \frac{\text{Lane Adjustment (1 or 2 Way } \underline{1} \text{)}}{\text{Lane Adjustment}} = \underline{107,686}$$

Lane Distribution Adjustments

 $L = 0.497 - (1.84 + 1.42 \text{ FT})(\text{AADT})(10^{-4})$ for 4-lane roadways (Minimum value = 0.375)

 $L = 0.427 - (2.308 + 1.75 \text{ FT})(\text{AADT})(10^{-4})$ for 6-lane roadways (Minimum value = 0.25)

 $L = 0.50$ for 2-lane roadways

ESTIMATION OF EQUIVALENT AXLELOAD ACCUMULATIONS

COUNTY FAYETTE DATE 1-15-91
 NAME A. RUCKEL
 ROUTE ID: _____
 Road Name NEW CIRCLE Route No. 244 Classified ☒
 Project No. SHRP 216040 Unclassified _____
 Project Limits MP 3.500

Reference Stations FAYETTE CO. STA. E48(90) 1989 EAL TABLES

Functional Class		Percent Trucks Hauling Coal
Rural	Urban	
01 Interstate	11 Interstate	Less Than 3.0
02 Principal Arterial	12 Other Freeways & Expressways	3.0 or Greater
06 Minor Arterial	14 Other Principal Arterial	
07 Major Collector	16 Minor Arterial	
08 Minor Collector	17 Collector	
09 Local	19 Local	

DATES: Base Year _____ Design Period (Years) _____ Project Midyear 1991

TRAFFIC PARAMETERS:

	Base Year Estimate	Annual Change (Fractions)	No. Years to Midyear	Increment	Base Year Estimate	Project Midyear Estimate
Volume (AADT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = <u>10500</u>	
Percent Trucks (%T)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = <u>6.8</u>	
% Trucks Hauling Coal (%CT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	
Non-Coal Trucks						
Axles/Truck (A/NCT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = <u>3.131</u>	
EAL's/Axle (EAL/NCA)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = <u>0.134</u>	
Coal Trucks						
Axles/Truck (A/CT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	
EAL's/Axle (EAL/CA)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	

DAILY EAL'S AT MIDYEAR:

4-Tired Vehicles: $\frac{10500}{AADT} \times \frac{0.932}{1-(\%T/100)} \times 0.005$ = 48.93
 Non-Coal Trucks: $\frac{10500}{AADT} \times \frac{0.068}{(\%T/100)(1-\%CT/100)} \times \frac{3.131}{A/NCT} \times \frac{0.134}{EAL/NCA}$ = 299.56
 Coal Trucks: $\frac{AADT}{AADT} \times \frac{(\%T/100)(\%CT/100)}{(\%T/100)(\%CT/100)} \times \frac{A/CT}{A/CT} \times \frac{EAL/CA}{EAL/CA}$ = _____
 Total Midyear Daily EAL's = 348.49

DESIGN EAL'S:

348.49 x 365 x $\frac{1}{\text{Design Period}}$ x $\frac{\text{Lane Adjustment}}{(1 \text{ or } 2 \text{ Way})}$ = 127,199
 Midyear Daily EAL's (No. of Lanes 1)

Lane Distribution Adjustments

L = 0.497 - (1.84 + 1.42 FT)(AADT)(10⁻⁴) for 4-lane roadways (Minimum value = 0.375)

L = 0.427 - (2.308 + 1.75 FT)(AADT)(10⁻⁴) for 6-lane roadways (Minimum value = 0.25)

L = 0.50 for 2-lane roadways

ESTIMATION OF EQUIVALENT AXLELOAD ACCUMULATIONS

COUNTY FAYETTEDATE 1-15-91
NAME A. RUCKER

ROUTE ID:

Road Name NEW CIRCLE RD. Route No. KY 4 Classified ☒
Project No. SHRP 216040 Unclassified ☐
Project Limits MP 3.500Reference Stations FAYETTE CO. STA E48(90) 1989 EAL TABLE

Functional Class	
Rural	Urban
<input type="checkbox"/> 01 Interstate	<input type="checkbox"/> 11 Interstate
<input type="checkbox"/> 02 Principal Arterial	<input type="checkbox"/> 12 Other Freeways & Expressways
<input type="checkbox"/> 06 Minor Arterial	<input type="checkbox"/> 14 Other Principal Arterial
<input type="checkbox"/> 07 Major Collector	<input type="checkbox"/> 16 Minor Arterial
<input type="checkbox"/> 08 Minor Collector	<input type="checkbox"/> 17 Collector
<input type="checkbox"/> 09 Local	<input type="checkbox"/> 19 Local

Percent Trucks Hauling Coal
☐ Less Than 3.0
☐ 3.0 or GreaterDATES: Base Year _____ Design Period (Years) _____ Project Midyear 1970

TRAFFIC PARAMETERS:

	Base Year Estimate	Annual Change (Fractions)	No. Years to Midyear	Increment	Base Year Estimate	Project Midyear Estimate
Volume (AADT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>6630</u>
Percent Trucks (%T)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>6.8</u>
% Trucks Hauling Coal (%CT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	_____
Non-Coal Trucks						
Axles/Truck (A/NCT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>3,148</u>
EAL's/Axle (EAL/NCA)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	<u>0.129</u>
Coal Trucks						
Axles/Truck (A/CT)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	_____
EAL's/Axle (EAL/CA)	_____ x _____	_____ x _____	_____ = _____	_____ + _____	_____ = _____	_____

DAILY EAL'S AT MIDYEAR:

4-Tired Vehicles:	$\frac{6630}{AADT} \times \frac{0.932}{1-(\%T/100)} \times 0.005$	=	<u>30.9</u>
Non-Coal Trucks:	$\frac{6630}{AADT} \times \frac{0.068}{(\%T/100)(1-\%CT/100)} \times \frac{3,148}{A/NCT} \times \frac{0.129}{EAL/NCA}$	=	<u>183.08</u>
Coal Trucks:	$\frac{AADT}{AADT} \times \frac{(\%T/100)(\%CT/100)}{(\%T/100)(\%CT/100)} \times \frac{A/CT}{A/CT} \times \frac{EAL/CA}{EAL/CA}$	=	_____
Total Midyear Daily EAL's			= <u>213.98</u>

DESIGN EAL'S:

<u>213.98</u>	x	365	x	<u>1</u>	x	<u>1</u>	=	<u>78,103</u>
Midyear Daily EAL's				Design Period		Lane Adjustment (1 or 2 Way)		
(No. of Lanes)				<u>1</u>		<u>1</u>		

Lane Distribution Adjustments

L = 0.497 - (1.84 + 1.42 FT)(AADT)(10⁻⁴) for 4-lane roadways (Minimum value = 0.375)L = 0.427 - (2.308 + 1.75 FT)(AADT)(10⁻⁴) for 6-lane roadways (Minimum value = 0.25)

L = 0.50 for 2-lane roadways