

## LTPP TRAFFIC DATA

\*STATE ASSIGNED ID [ N/A ]\*STATE CODE [ 46 ]\*SHRP SECTION ID [ 9106 ]

SCANNED

AUG 05 2008

## SUMMARY TRANSMITTAL FORM

BY STATE OR PROVINCE South Dakota COUNTY PERKINSHIGHWAY ROUTE NO. SH-73 MILEPOST# 235.63NEAREST CITY/TOWN So. of LEHMON NEAREST INTERSECTION S.75 S of US12FUNCTIONAL CLASS 6 NO. LANES EACH DIRECTION 1 TOTAL NO. LANES 2DIRECTION OF TRAVEL GPS LANE SB DATE OPENED TO TRAF. - - - 88FIPS COUNTY CODE 105 FHWA STATION IDENTIFICATION NO. \_\_\_\_\_HPMS SAMPLE NO. 000073229500 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 \_\_\_\_\_ PHONE # \_\_\_\_\_  
DATE PREPARED \_\_\_\_\_

LTPP TRAFFIC DATA  
SUMMARY TRANSMITTAL FORM\*STATE ASSIGNED ID [ N/A ]\*STATE CODE [ 46 ]\*SHRP SECTION ID [ 9106 ]

STATE OR PROVINCE South Dakota COUNTY PERKINS  
HIGHWAY ROUTE NO. SH-73 MILEPOST# 235.63  
NEAREST CITY/TOWN So. of LEHMOM NEAREST INTERSECTION S.75 S of US12  
FUNCTIONAL CLASS 6 NO. LANES EACH DIRECTION 1 TOTAL NO. LANES 2  
DIRECTION OF TRAVEL GPS LANE SB DATE OPENED TO TRAF. - - - 88  
FIPS COUNTY CODE 105 FHWA STATION IDENTIFICATION NO. \_\_\_\_\_  
HPMS SAMPLE NO. 000073229500 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 \_\_\_\_\_ PHONE # \_\_\_\_\_  
DATE PREPARED \_\_\_\_\_

## LTPP TRAFFIC DATA

STATE ASSIGNMENT

STATE CODE

PRIMARY TRANSMISSION

STATE OR PROVINCE South Dakota COUNTY Butte  
HIGHWAY ROUTE NO. SH-73 MILEPOST# 23.563  
NEAREST CITY/TOWN Sioux/Lemmon NEAREST INTERSECTION SD 25/44/4512  
SECTIONAL CLASS 6 NO. LANES EACH DIRECTION 1 TOTAL NO. LANES 2  
NO. OF TRAVEL GPS LANE SB DATE OPENED TO TRAFFIC 12/1/82  
GPS COUNTY CODE 105 FHWA STATION IDENTIFICATION NO. \_\_\_\_\_  
HPMS SAMPLE NO. 50000 732 29500 HPMS SUBDIVISION NO. 0  
TYPE OF PAVEMENT: AC ☒ PCC \_\_\_\_\_ OTHER \_\_\_\_\_  
SIDE OF ACCESS: YES ☒ NO \_\_\_\_\_ MEDIAN: YES ☒  
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  
CHRP 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 \_\_\_\_\_

PHONE # \_\_\_\_\_

DATE PREPARED \_\_\_\_\_

SHEET 2

## LTPP TRAFFIC DATA

TRAFFIC VOLUMES  
AND LOAD ESTIMATES

\*STATE ASSIGNED ID [N/A]

\*STATE CODE [46]

\*SHRP SECTION ID [9106]

| YEAR | 1.<br>ESTIMATED<br>TOTAL VEHICLES<br>AADT<br>(TWO-WAY) | 2.<br>ESTIMATED<br>TOTAL TRUCK<br>AADT<br>(TWO-WAY) | 3.<br>ESTIMATED<br>TOTAL VEHICLES<br>AADT<br>GPS LANE | 4.<br>ESTIMATED<br>TOTAL TRUCKS<br>AADT<br>GPS LANE | 5.<br>ESTIMATED<br>ESAL'S / YR<br>GPS LANE<br>(1000's) |
|------|--|---|---|---|--|
| 1964 | 735  | 125 17.0  | 368   | 63  | 3.0  |
| 1963 | 647  | 108 16.7  | 324   | 54  | 2.7  |
| 1962 | 538  | 90 16.7   | 269   | 45  | 2.2  |
| 1961 | 566  | 98 17.3   | 283   | 49  | 2.3  |
| 1960 | 584  | 98 16.8   | 292   | 49  | 2.4  |
| 1959 | 641  | 108 16.8  | 321   | 54  | 2.6  |
| 1983 |  |   |   |   |  |
| 1982 |  |   |   |   |  |
| 1981 |  |   |   |   |  |
| 1980 |  |   |   |   |  |
| 1979 |  |   |   |   |  |
| 1978 |  |   |   |   |  |
| 1977 |  |   |   |   |  |
| 1976 |  |   |   |   |  |
| 1975 |  |   |   |   |  |
| 1974 |  |   |   |   |  |
| 1973 |  |   |   |   |  |
| 1972 |  |   |   |   |  |
| 1971 |  |   |   |   |  |
| 1970 |  |   |   |   |  |
| 1969 |  |   |   |   |  |
| 1968 |  |   |   |   |  |
| 1967 |  |   |   |   |  |
| 1966 |  |   |   |   |  |
| 1965 |  |   |   |   |  |

NAME OF PREPARER

PHONE #

DATE PREPARED

SHEET 2

## LTPP TRAFFIC DATA

TRAFFIC VOLUMES  
AND LOAD ESTIMATES

\*STATE ASSIGNED ID [ 11A ]

\*STATE CODE [ 46 ]

\*SHRP SECTION ID [ 1106 ]

| YEAR | 1.<br>ESTIMATED<br>TOTAL VEHICLES<br>AADT<br>(TWO-WAY) | 2.<br>ESTIMATED<br>TOTAL TRUCK<br>AADT<br>(TWO-WAY) | 3.<br>ESTIMATED<br>TOTAL VEHICLES<br>AADT<br>GPS LANE | 4.<br>ESTIMATED<br>TOTAL TRUCKS<br>AADT<br>GPS LANE | 5.<br>ESTIMATED<br>ESAL'S/YR<br>GPS LANE<br>(1000's) |
|------|--|---|---|---|--|
| 1989 |  |   |   |   |  |
| 1988 | 835  | 65 7.5  | 418   | 33  | 4.0  |
| 1987 | 810  | 70  | 406   | 36  | 4.0  |
| 1986 | 785  | 75 9.6  | 393   | 38  | 4.0  |
| 1985 | 890  | 80  | 446   | 41  | 3.6  |
| 1984 | 995  | 85 8.5  | 498   | 43  | 3.1  |
| 1983 | 923  | 80  | 462   | 41  | 2.8  |
| 1982 | 850  | 75 8.7  | 425   | 38  | 2.4  |
| 1981 | 816  | 73  | 405   | 37  | 2.4  |
| 1980 | 770  | 70 9.1  | 385   | 35  | 2.3  |
| 1979 | 780  | 73  | 390   | 37  | 2.3  |
| 1978 | 790  | 75 9.5  | 395   | 38  | 2.3  |
| 1977 | 765  | 108   | 383   | 59  | 2.7  |
| 1976 | 740  | 140 12.9  | 370   | 70  | 3.1  |
| 1975 | 685  | 130 12.9  | 343   | 65  | 2.8  |
| 1974 | 615  | 115 11.7  | 308   | 58  | 2.5  |
| 1973 | 479  | 128   | 340   | 64  | 2.8  |
| 1972 | 743  | 140 13.8  | 372   | 70  | 3.1  |
| 1971 | 753  | 77 10.2   | 377   | 39  | 3.1  |
| 1970 | 702  | 72 10.3   | 351   | 36  | 2.9  |
| 1969 | 627  | 64 10.2   | 315   | 32  | 2.6  |
| 1968 | 535  | 48 8.0  | 268   | 24  | 2.2  |
| 1967 | 694  | 60 8.6  | 347   | 30  | 2.9  |
| 1966 | 698  | 116 16.6  | 349   | 58  | 2.9  |
| 1965 | 651  | 108 17.4  | 326   | 54  | 2.7  |

NAME OF PREPARER

PHONE #

DATE PREPARED

|  |  |
|--|--|
| SHEET 2<br><b>LTPP TRAFFIC DATA</b><br><b>TRAFFIC VOLUMES</b><br><b>AND LOAD ESTIMATES</b> | *STATE ASSIGNED ID [ <u>14A</u> ]<br>*STATE CODE [ <u>46</u> ]<br>*SHRP SECTION ID [ <u>9106</u> ] |
|--|--|

| YEAR        | 1.<br>ESTIMATED<br>TOTAL VEHICLES<br>AADT<br>(TWO-WAY) | 2.<br>ESTIMATED<br>TOTAL TRUCK<br>AADT<br>(TWO-WAY) | 3.<br>ESTIMATED<br>TOTAL VEHICLES<br>AADT<br>GPS LANE | 4.<br>ESTIMATED<br>TOTAL TRUCKS<br>AADT<br>GPS LANE | 5.<br>ESTIMATED<br>ESAL'S / YR<br>GPS LANE<br>(1000's) |
|-------------|--|---|---|---|--|
| <u>1989</u> | <u>240</u>   | <u>41</u>   | <u>120</u>  | <u>21</u>   | <u>1.5</u>   |
| 1988        |  |   |   |   |  |
| 1987        |  |   |   |   |  |
| 1986        |  |   |   |   |  |
| 1985        |  |   |   |   |  |
| 1984        |  |   |   |   |  |
| 1983        |  |   |   |   |  |
| 1982        |  |   |   |   |  |
| 1981        |  |   |   |   |  |
| 1980        |  |   |   |   |  |
| 1979        |  |   |   |   |  |
| 1978        |  |   |   |   |  |
| 1977        |  |   |   |   |  |
| 1976        |  |   |   |   |  |
| 1975        |  |   |   |   |  |
| 1974        |  |   |   |   |  |
| 1973        |  |   |   |   |  |
| 1972        |  |   |   |   |  |
| 1971        |  |   |   |   |  |
| 1970        |  |   |   |   |  |
| 1969        |  |   |   |   |  |
| 1968        |  |   |   |   |  |
| 1967        |  |   |   |   |  |
| 1966        |  |   |   |   |  |
| 1965        |  |   |   |   |  |

|                        |               |
|------------------------|---------------|
| NAME OF PREPARER _____ | PHONE # _____ |
| DATE PREPARED _____    |               |

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

\*STATE ASSIGNED ID [ N/A ]\*STATE CODE [ 46 ]\*SHRP SECTION ID [ 2606 ]1. Year Applicable 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: \_\_\_\_\_

## 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: Flow maps

## 4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☐ Based on actual lane count data.
- ☐ System distribution factors.
- ☒ Other: EST 90/10

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

- ☐ Based on actual lane count data.
- ☐ System distribution factors.
- ☒ Other: Flow maps

## 6. METHOD FOR ESTIMATING ESAL/VEHICLE

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

## 7. ESAL ESTIMATES

## (A) Source of Data

- ☐ Weight data collected at GPS site this year.
- ☐ Weight data collected at GPS site prior years.
- ☒ Weight data from system averages this year.
- ☐ Weight data from system averages prior years.
- ☐ Weight data from historic W-4 Tables used.
- ☐ Other: \_\_\_\_\_

## (B) Weight Scale Type

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

NAME OF PREPARER \_\_\_\_\_

PHONE # \_\_\_\_\_

DATE PREPARED \_\_\_\_\_

LTPP TRAFFIC DATA  
TRAFFIC VOLUME COUNTS

\*STATE ASSIGNED ID [ N/A ]  
\*STATE CODE [ 44 ]  
\*SHRP SECTION ID [ 2L06 ]

HIGHWAY ROUTE NO. (THIS COUNT) \_\_\_\_\_

MILEPOST# OR LOCATION (THIS COUNT) \_\_\_\_\_

BEGINNING DATE \_\_\_\_\_ ENDING DATE \_\_\_\_\_

BEGINNING TIME \_\_\_\_\_ ENDING TIME \_\_\_\_\_

COUNT DURATION \_\_\_\_\_ [ ] HOURS [ ] DAYS [ ] MONTHS

TYPE OF COUNTER \_\_\_\_\_ 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)                | -----         | Sheets    |
| 2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):      |               | 4-7       |
| A. ADJUSTMENT TO 24-HOUR COUNT                      | -----         | N/A       |
| B. AXLE CORRECTION FACTOR                           | -----         | used Flow |
| C. DAY OF WEEK FACTOR                               | -----         | maps      |
| D. MONTH FACTOR                                     | -----         |           |
| E. OTHER FACTOR (_____)                             | -----         |           |
| 3. ANNUAL AVERAGE DAILY TRAFFIC (AADT)<br>(TWO-WAY) | -----         |           |
| 4. DIRECTIONAL DISTRIBUTION FACTOR                  | -----         |           |
| 5. GPS LANE DISTRIBUTION FACTOR                     | -----         |           |
| 6. AADT GPS LANE                                    | -----         |           |

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

NAME OF PREPARER \_\_\_\_\_

DATE PREPARED \_\_\_\_\_

PHONE # \_\_\_\_\_



# LTPP TRAFFIC DATA

## VEHICLE CLASSIFICATION DATA FHWA 13-CLASS SYSTEM

\*STATE ASSIGNED ID [ N/A ]

\*STATE CODE [ 46 ]

\*SHRP SECTION ID [ 9106 ]

HIGHWAY RT. NO. (THIS COUNT) \_\_\_\_\_ MILEPOST# (THIS COUNT) \_\_\_\_\_

LOCATION (THIS COUNT) \_\_\_\_\_ FUNCTIONAL CLASS \_\_\_\_\_

BEGINNING DATE \_\_\_\_\_ ENDING DATE \_\_\_\_\_

BEGINNING TIME \_\_\_\_\_ ENDING TIME \_\_\_\_\_ DURATION (HRS) \_\_\_\_\_

TYPE OF COUNT: MANUAL \_\_\_\_\_ AUTOMATED \_\_\_\_\_ NO. OF LANES COUNTED \_\_\_\_\_

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

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

TOTAL NO. OF VEHICLES CLASSIFIED \_\_\_\_\_ # TRUCKS \_\_\_\_\_ % TRUCKS \_\_\_\_\_

NO. OF TRUCKS IN GPS LANE \_\_\_\_\_ % OF TRUCKS IN GPS LANE \_\_\_\_\_

VEHICLE CLASSIFICATION METHOD: FHWA \_\_\_\_\_ OTHER \_\_\_\_\_ # BINS \_\_\_\_\_

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

### VEHICLE CLASSES

|   | TOTAL NUMBER<br>OF VEHICLES<br>TWO-WAY | TOTAL NUMBER<br>OF VEHICLES<br>GPS DIRECTION | TOTAL NUMBER<br>OF VEHICLES<br>GPS LANE |
|---|--|--|---|
| 1. FHWA CLASSES 1-3<br>(Cars, Motorcycles, Vans)        | _____                                  | _____  | _____                                   |
| 2. FHWA CLASS 4<br>(Buses)                              | _____                                  | _____  | _____                                   |
| 3. FHWA CLASS 5<br>(Two Axle, 6-Tire, SU Truck)         | _____                                  | _____  | _____                                   |
| 4. FHWA CLASS 6<br>(3 AXLE SU TRUCK)                    | _____                                  | _____  | _____                                   |
| 5. FHWA CLASS 7<br>(4 or more Axle SU Truck)            | _____                                  | _____  | _____                                   |
| 6. FHWA CLASS 8<br>(4 or less axle 1-Trlr.Truck)        | _____                                  | _____  | _____                                   |
| 7. FHWA CLASS 9<br>(5 Axle, 1-Trlr.Truck)               | _____                                  | _____  | _____                                   |
| 8. FHWA CLASS 10<br>(6 or more Axle, 1-Trlr.Truck)      | _____                                  | _____  | _____                                   |
| 9. FHWA CLASS 11<br>(5 or less Axle, Multi-Trlr.Truck)  | _____                                  | _____  | _____                                   |
| 10. FHWA CLASS 12<br>(5 Axle, Multi-Trlr.Truck)         | _____                                  | _____  | _____                                   |
| 11. FHWA CLASS 13<br>(7 or more Axle, Multi-Trlr.Truck) | _____                                  | _____  | _____                                   |
| 12. OTHER VEHICLES                                      | _____                                  | _____  | _____                                   |
| GRAND TOTAL   | _____                                  | _____  | _____                                   |

NAME OF PREPARER \_\_\_\_\_ PHONE # \_\_\_\_\_

DATE PREPARED \_\_\_\_\_

## LTPP TRAFFIC DATA

VEHICLE CLASSIFICATION DATA  
FHWA 13-CLASS SYSTEM\*STATE ASSIGNED ID [ N/A ]\*STATE CODE [ 46 ]\*SHRP SECTION ID [ 9106 ]

HIGHWAY RT. NO. (THIS COUNT) \_\_\_\_\_ MILEPOST# (THIS COUNT) \_\_\_\_\_

LOCATION (THIS COUNT) \_\_\_\_\_ FUNCTIONAL CLASS \_\_\_\_\_

BEGINNING DATE \_\_\_\_\_ ENDING DATE \_\_\_\_\_

BEGINNING TIME \_\_\_\_\_ ENDING TIME \_\_\_\_\_ DURATION (HRS) \_\_\_\_\_

TYPE OF COUNT: MANUAL \_\_\_\_\_ AUTOMATED \_\_\_\_\_ NO. OF LANES COUNTED \_\_\_\_\_

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

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

TOTAL NO. OF VEHICLES CLASSIFIED \_\_\_\_\_ # TRUCKS \_\_\_\_\_ % TRUCKS \_\_\_\_\_

NO. OF TRUCKS IN GPS LANE \_\_\_\_\_ % OF TRUCKS IN GPS LANE \_\_\_\_\_

VEHICLE CLASSIFICATION METHOD: FHWA \_\_\_\_\_ OTHER \_\_\_\_\_ # BINS \_\_\_\_\_

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

## VEHICLE CLASSES

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

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

NAME OF PREPARER \_\_\_\_\_ PHONE # \_\_\_\_\_

DATE PREPARED \_\_\_\_\_

# LTPP TRAFFIC DATA

## VEHICLE CLASSIFICATION DATA FHWA 13-CLASS SYSTEM

\*STATE ASSIGNED ID [ N/A ]

\*STATE CODE [ 44 ]

\*SHRP SECTION ID [ 191061 ]

HIGHWAY RT. NO. (THIS COUNT) \_\_\_\_\_ MILEPOST# (THIS COUNT) \_\_\_\_\_

LOCATION (THIS COUNTY) \_\_\_\_\_ FUNCTIONAL CLASS \_\_\_\_\_

BEGINNING DATE \_\_\_\_\_ ENDING DATE \_\_\_\_\_

BEGINNING TIME \_\_\_\_\_ ENDING TIME \_\_\_\_\_ DURATION (HRS) \_\_\_\_\_

TYPE OF COUNT: MANUAL \_\_\_\_\_ AUTOMATED \_\_\_\_\_ NO. OF LANES COUNTED \_\_\_\_\_

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

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

TOTAL NO. OF VEHICLES CLASSIFIED \_\_\_\_\_ # TRUCKS \_\_\_\_\_ % TRUCKS \_\_\_\_\_

NO. OF TRUCKS IN GPS LANE \_\_\_\_\_ % OF TRUCKS IN GPS LANE \_\_\_\_\_

VEHICLE CLASSIFICATION METHOD: FHWA \_\_\_\_\_ OTHER \_\_\_\_\_ # BINS \_\_\_\_\_

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

| VEHICLE CLASSES   | TOTAL NUMBER<br>OF VEHICLES<br>TWO-WAY | TOTAL NUMBER<br>OF VEHICLES<br>GPS DIRECTION | TOTAL NUMBER<br>OF VEHICLES<br>GPS LANE |
|---|--|--|---|
| 1. FHWA CLASSES 1-3<br>(Cars, Motorcycles, Vans)        |  |  |   |
| 2. FHWA CLASS 4<br>(Buses)                              |  |  |   |
| 3. FHWA CLASS 5<br>(Two Axle, 6-Tire, SU Truck)         |  |  |   |
| 4. FHWA CLASS 6<br>(3 AXLE SU TRUCK)                    |  |  |   |
| 5. FHWA CLASS 7<br>(4 or more Axle SU Truck)            |  |  |   |
| 6. FHWA CLASS 8<br>(4 or less axle 1-Trlr.Truck)        |  |  |   |
| 7. FHWA CLASS 9<br>(5 Axle, 1-Trlr.Truck)               |  |  |   |
| 8. FHWA CLASS 10<br>(6 or more Axle, 1-Trlr.Truck)      |  |  |   |
| 9. FHWA CLASS 11<br>(5 or less Axle, Multi-Trlr.Truck)  |  |  |   |
| 10. FHWA CLASS 12<br>(6 Axle, Multi-Trlr.Truck)         |  |  |   |
| 11. FHWA CLASS 13<br>(7 or more Axle, Multi-Trlr.Truck) |  |  |   |
| 12. OTHER VEHICLES                                      |  |  |   |
| GRAND TOTAL   |  |  |   |

NAME OF PREPARER \_\_\_\_\_ PHONE # \_\_\_\_\_  
DATE PREPARED \_\_\_\_\_

## LTPP TRAFFIC DATA

VEHICLE CLASSIFICATION DATA  
AGENCY DEFINED CLASSES\*STATE ASSIGNED ID [ N/A ]\*STATE CODE [ 46 ]\*SHRP SECTION ID [ 9106 ]

FOR 4-BIN OR OTHER CLASSIFICATION SYSTEMS

HIGHWAY ROUTE NO. (THIS COUNT) \_\_\_\_\_ MILEPOST # (THIS COUNT) \_\_\_\_\_

BEGINNING DATE \_\_\_\_\_ ENDING DATE \_\_\_\_\_

BEGINNING TIME \_\_\_\_\_ ENDING TIME \_\_\_\_\_ DURATION (HRS) \_\_\_\_\_

| VEHICLE CLASSES<br>(DESCRIBE VEHICLE TYPES<br>IN EACH CLASS OR<br>AXLE SPACING CATEGORY) | TOTAL NUMBER<br>OF VEHICLES<br>TWO-WAY | TOTAL NUMBER<br>OF VEHICLES<br>GPS DIRECTION | TOTAL NUMBER<br>OF VEHICLES<br>GPS LANE |
|--|--|--|---|
| A. _____   | _____                                  | _____  | _____                                   |
| B. _____   | _____                                  | _____  | _____                                   |
| C. _____   | _____                                  | _____  | _____                                   |
| D. _____   | _____                                  | _____  | _____                                   |
| E. _____   | _____                                  | _____  | _____                                   |
| F. _____   | _____                                  | _____  | _____                                   |
| G. _____   | _____                                  | _____  | _____                                   |
| H. _____   | _____                                  | _____  | _____                                   |
| I. _____   | _____                                  | _____  | _____                                   |
| J. _____   | _____                                  | _____  | _____                                   |
| K. _____   | _____                                  | _____  | _____                                   |
| L. _____   | _____                                  | _____  | _____                                   |
| M. _____   | _____                                  | _____  | _____                                   |
| N. _____   | _____                                  | _____  | _____                                   |
| O. _____   | _____                                  | _____  | _____                                   |
| P. _____   | _____                                  | _____  | _____                                   |
| Q. _____   | _____                                  | _____  | _____                                   |
| R. _____   | _____                                  | _____  | _____                                   |
| S. _____   | _____                                  | _____  | _____                                   |
| T. _____   | _____                                  | _____  | _____                                   |

GRAND TOTAL \_\_\_\_\_

NAME OF PREPARER \_\_\_\_\_

PHONE # \_\_\_\_\_

DATE PREPARED \_\_\_\_\_

|   |   |
|---|---|
| <p><b>SHEET 7</b></p> <p><b>LTPP TRAFFIC DATA</b></p> <p><b>VEHICLE CLASSIFICATION</b></p> <p><b>CONVERSION CHART</b></p> | <p>*STATE ASSIGNED ID [ <u>N/A</u> ]</p> <p>*STATE CODE [ <u>46</u> ]</p> <p>*SHRP SECTION ID [ <u>9106</u> ]</p> |
|---|---|

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

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

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

|                        |               |
|------------------------|---------------|
| NAME OF PREPARER _____ | PHONE # _____ |
| DATE PREPARED _____    |               |

HIGHWAY RT. NO.(THIS SESSION) \_\_\_\_\_ MILEPOST # (THIS SESSION) \_\_\_\_\_

LOCATION (THIS SESSION) \_\_\_\_\_

FUNCTIONAL CLASSIFICATION \_\_\_\_\_ DIRECTION OF TRAVEL \_\_\_\_\_

1. FHWA STATION IDENTIFICATION NUMBER \_\_\_\_\_

2. TYPE OF WEIGHING EQUIPMENT:      PERM. SCALE \_\_\_\_\_ PERM. WIM \_\_\_\_\_  
  PORT. SCALE \_\_\_\_\_ PORT. WIM \_\_\_\_\_

3. COUNT DURATION (HOURS) \_\_\_\_\_ COUNT LANE \_\_\_\_\_

4. BEGINNING TIME (MONTH, DAY, YEAR, TIME) \_\_\_\_-\_\_\_\_-\_\_\_\_-\_\_\_\_\_

5. ENDING TIME (MONTH, DAY, YEAR, TIME)        \_\_\_\_-\_\_\_\_-\_\_\_\_-\_\_\_\_\_

6. EQUIPMENT MANUFACTURER / MODEL # \_\_\_\_\_

7. PURPOSE OF WEIGHT SESSION:  
    DATA COLLECTION \_\_\_\_\_ ENFORCEMENT \_\_\_\_\_

8. VEHICLE CLASSIFICATION SCHEME: FHWA \_\_\_\_\_ OTHER \_\_\_\_\_ # BINS \_\_\_\_\_

9. PAVEMENT TYPE: AC \_\_\_\_\_ PCC \_\_\_\_\_ OTHER \_\_\_\_\_

10. METHOD OF CALIBRATION AND FREQUENCY: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**NOTE: IF THIS WEIGHT SESSION IS NOT BASED UPON THE FHWA 13-BIN CLASSIFICATION SYSTEM, USE SHEET 7 TO DESCRIBE HOW THE SHA WOULD EXPAND OR COLLAPSE THE AGENCY CLASSIFICATION SYSTEM TO CORRESPOND WITH THE FHWA 13 CLASSES. ALSO PROVIDE A DESCRIPTION OF THE CLASSIFICATION SCHEME THAT WAS USED.**

NAME OF PREPARER \_\_\_\_\_ PHONE # \_\_\_\_\_  
DATE PREPARED \_\_\_\_\_

## LTPP TRAFFIC DATA

TRUCK AXLE LOAD MEASUREMENTS  
BY VEHICLE CLASSIFICATION\*STATE ASSIGNED ID [ sh ]\*STATE CODE [ 46 ]\*SHRP SECTION ID [ 19106 ]

FHWA CLASSIFICATION SCHEME: FHWA \_\_\_\_\_ OTHER \_\_\_\_\_ #BINS \_\_\_\_\_

NOTE: FOR CLASSIFICATION SCHEMES OTHER THAN FHWA, ATTACH SHEET 7  
DESCRIBING CONVERSION FROM AGENCY CLASSIFICATION SCHEME TO  
FHWA 13 CLASSES.

1. VEHICLE CLASS \_\_\_\_\_

2. TOTAL NUMBER VEHICLES COUNTED \_\_\_\_\_

| 3. SINGLE AXLES<br>LOAD RANGE | NUMBER OF<br>SINGLE AXLES<br>WEIGHED | 4. TANDEM AXLES<br>LOAD RANGE | NUMBER OF<br>TANDEM AXLES<br>WEIGHED | 5. TRIPLE AXLES<br>LOAD RANGE | NUMBER OF<br>TRIPLE AXLES<br>WEIGHED |
|-------------------------------|--------------------------------------|-------------------------------|--------------------------------------|-------------------------------|--------------------------------------|
| < 3000                        | _____                                | < 6000                        | _____                                | < 12000                       | _____                                |
| 3000 - 3999                   | _____                                | 6000 - 7999                   | _____                                | 12000 - 14999                 | _____                                |
| 4000 - 4999                   | _____                                | 8000 - 9999                   | _____                                | 15000 - 17999                 | _____                                |
| 5000 - 5999                   | _____                                | 10000 - 11999                 | _____                                | 18000 - 20999                 | _____                                |
| 6000 - 6999                   | _____                                | 12000 - 13999                 | _____                                | 21000 - 23999                 | _____                                |
| 7000 - 7999                   | _____                                | 14000 - 15999                 | _____                                | 24000 - 26999                 | _____                                |
| 8000 - 8999                   | _____                                | 16000 - 17999                 | _____                                | 27000 - 29999                 | _____                                |
| 9000 - 9999                   | _____                                | 18000 - 19999                 | _____                                | 30000 - 32999                 | _____                                |
| 10000 - 10999                 | _____                                | 20000 - 21999                 | _____                                | 33000 - 35999                 | _____                                |
| 11000 - 11999                 | _____                                | 22000 - 23999                 | _____                                | 36000 - 38999                 | _____                                |
| 12000 - 12999                 | _____                                | 24000 - 25999                 | _____                                | 39000 - 41999                 | _____                                |
| 13000 - 13999                 | _____                                | 26000 - 27999                 | _____                                | 42000 - 44999                 | _____                                |
| 14000 - 14999                 | _____                                | 28000 - 29999                 | _____                                | 45000 - 47999                 | _____                                |
| 15000 - 15999                 | _____                                | 30000 - 31999                 | _____                                | 48000 - 50999                 | _____                                |
| 16000 - 16999                 | _____                                | 32000 - 33999                 | _____                                | 51000 - 53999                 | _____                                |
| 17000 - 17999                 | _____                                | 34000 - 35999                 | _____                                | 54000 - 56999                 | _____                                |
| 18000 - 18999                 | _____                                | 36000 - 37999                 | _____                                | 57000 - 59999                 | _____                                |
| 19000 - 19999                 | _____                                | 38000 - 39999                 | _____                                | 60000 - 62999                 | _____                                |
| 20000 - 20999                 | _____                                | 40000 - 41999                 | _____                                | 63000 - 65999                 | _____                                |
| 21000 - 21999                 | _____                                | 42000 - 43999                 | _____                                | 66000 - 68999                 | _____                                |
| 22000 - 22999                 | _____                                | 44000 - 45999                 | _____                                | 69000 - 71999                 | _____                                |
| 23000 - 23999                 | _____                                | 46000 - 47999                 | _____                                | 72000 - 74999                 | _____                                |
| 24000 - 24999                 | _____                                | 48000 - 49999                 | _____                                | 75000 - 77999                 | _____                                |
| 25000 - 25999                 | _____                                | 50000 - 51999                 | _____                                | 78000 - 79999                 | _____                                |
| 26000 - 26999                 | _____                                | 52000 - 53999                 | _____                                | > 80000                       | _____                                |
| 27000 - 27999                 | _____                                | 54000 - 55999                 | _____                                |                               |                                      |
| 28000 - 28999                 | _____                                | 56000 - 57999                 | _____                                |                               |                                      |
| 29000 - 29999                 | _____                                | 58000 - 59999                 | _____                                |                               |                                      |
| > 30000                       | _____                                | > 60000                       | _____                                |                               |                                      |

6. USE SECOND PAGE FOR FOUR AXLE GROUPS.

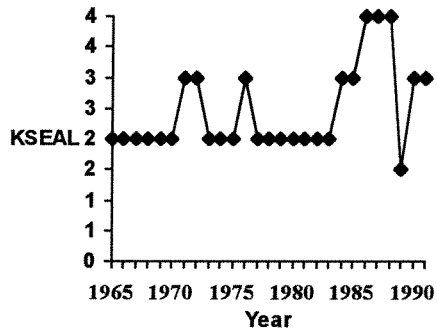
NAME OF PREPARER \_\_\_\_\_ PHONE # \_\_\_\_\_  
DATE PREPARED \_\_\_\_\_

Agency ID: 46

SHRP ID: 9106

Agency Name: South Dakota

### Historical Traffic Data



| Year: | KESAL: | SRO: |
|-------|--------|------|
| 1990  | 3      |      |
| 1991  | 3      |      |

Site Location: ST-73 SB

MP or Station: MP 235.80

Design KESAL: 12

Level: P

Number of Lanes: 2

Lanes Monitored: 1S/1N

Equipment Location: 6.2 MLS

### Construction Event 1

| Layer Number | Layer Type | Thickness0 | Thickness5 |
|--------------|------------|------------|------------|
| 1            | SS         |            |            |
| 2            | GB         | 7          |            |
| 3            | AC         | 1.8        | 1.5        |
| 4            | AC         | 2.9        | 2.5        |
| 5            | AC         | 1.5        | 1.4        |
| 6            | AC         | 0.6        | 0.3        |

### Construction Event 2

| Layer Number | Layer Type | Thickness0 | Thickness5 |
|--------------|------------|------------|------------|
| 1            | SS         |            |            |
| 2            | GB         | 7          |            |
| 3            | AC         | 1.8        | 1.5        |
| 4            | AC         | 2.9        | 2.5        |
| 5            | AC         | 1.5        | 1.4        |
| 6            | AC         | 0.6        | 0.3        |
| 7            | AC         | 1.9        | 1.5        |