

SHEET 10 LTPP TRAFFIC DATA TRAFFIC VOLUME AND LOAD ESTIMATE UPDATE-NO SITE COUNT	*STATE ASSIGNED ID [] *STATE CODE <u>46</u> *SHRP SECTION ID <u>0800</u>
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1. ANNUAL TRAFFIC ESTIMATES

*YEAR	ESTIMATED TOTAL VEHICLES AADT (TWO-WAY)	ESTIMATED TOTAL TRUCK AADT (TWO-WAY)	ESTIMATED TOTAL VEHICLES AADT LTPP LANE	*ESTIMATED TOTAL TRUCKS AADT LTPP LANE	*ESTIMATED ESAL=S/YR LTPP LANE (1000'S)
<u>1993</u>	<u>155</u>	<u>21</u>	<u>78</u>	<u>11</u>	<u>1</u>

2. METHOD FOR ESTIMATING TOTAL VEHICLE AADT (TWO-WAY)

- ☒ Growth factored last year=s estimate. (6)
- ☐ Estimated based on volume counts at nearby locations. (3)
- ☐ Used computerized network analyses. (4)
- ☐ Factored a single count taken this year at the LTPP site. (1)
- ☐ Average multiple counts taken this year at the LTPP site. (2)
- ☐ Average and factored multiple count taken this year at the LTPP site. (5)
- ☐ Used flow maps. (7)
- ☐ Other: (8) _____

3. METHOD FOR ESTIMATING TOTAL TRUCK AADT (TWO-WAY)

- ☐ Used system averages from counts taken this year. (6)
- ☐ Used count data from nearby sites. (3)
- ☐ Used count data from previous years at the LTPP site. (7)
- ☒ Used system averages from previous years. (8)
- ☐ Used computerized network analyses. (4)
- ☐ Used a single count taken this year at the LTPP site. (5)
- ☐ Factored a single count taken this year at the LTPP site. (1)
- ☐ Averaged multiple counts taken this year at the LTPP site. (2)
- ☐ Other: (9) _____

4. METHOD FOR ESTIMATING TOTAL VEHICLES LTPP LANE AADT

- ☐ System distribution factors. (2)
- ☐ Based on actual lane count data. (1)
- ☒ Other: (3) G.F.

***5. METHOD FOR ESTIMATING TOTAL TRUCKS, LTPP LANE, AADT**

- ☐ System distribution factors. (2)
- ☐ Based on actual lane data count. (1)
- ☒ Other: (3) G.F.

***6. METHOD FOR ESTIMATING ESAL/YEAR IN LTPP LANE**

- ☒ ESAL/Truck factor (1)
- ☐ ESAL/Vehicle class. (2) (No. of classes)
- ☐ ESAL/Axle(3) Sing. _____ Tand. _____ Tri. _____
- ☐ Other: (4) _____

7. ESAL ESTIMATES - SOURCE OF DATA

- ☐ Weight data collected at LTPP site prior years. (2)
- ☐ Weight data from system averages this year. (3)
- ☒ Weight data from system averages prior years. (4)
- ☐ Weight data from historic W-4 Tables used. (5)
- ☐ Other: (6) _____

8. WEIGHT SCALE TYPE

- ☐ WIM scale. (1)
- ☐ Static scale used for enforcement. (2)
- ☒ Static scale not used for enforcement. (3)
- ☐ Other: (4) _____

ENTERED APR 09 2009

NAME OF PREPARER <u>N. Whitford</u>	PHONE# _____
DATE PREPARED <u>Apr 8/09</u>	rev. March 12, 2001

SHEET 12 LTPP TRAFFIC DATA COLLECTION SITE	STATE ASSIGNED ID	[3902]
	STATE CODE	[46]
	SHRP SECTION ID	[0803]
	EFFECTIVE DATE	[08/26/93]

HIGHWAY RT. NO. SD 1804 MILEPOST NO. MRM 399+/-

LOCATION Near North Dakota Border

VEHICLE CLASSIFICATION METHOD: FHWA ☒ OTHER ☐ # BINS ☐

TYPE OF CLASSIFICATION EQUIPMENT: PORTABLE ☐ PERMANENT ☒

AVC EQUIPMENT MAKE/MODEL NO.

SENSOR TYPE

WEIGHT SCALE TYPE: PORT. WIM ☐ PERM. WIM ☒ OTHER ☐

EQUIPMENT MAKE/MODEL NO. PAT DAW 100

SENSOR TYPE Piezo

METHOD OF CALIBRATION: Intitial calibration was done with a 5 axle semi having known weights and axle spacings.

FREQUENCY OF CALIBRATION: Yearly using 5 axle semi's from traffic stream with indepent weights by Highway Patrol Static Scale

COMMENTS: WIM has not worked all year.

NAME OF PREPARER <u>Kenneth E. Marks</u>	PHONE # <u>(605) 773-3336</u>
DATE PREPARED <u>3-11-04</u>	

SHEET 12 LTPP TRAFFIC DATA COLLECTION SITE	STATE ASSIGNED ID	[3902]
	STATE CODE	[46]
	SHRP SECTION ID	[0803]
	EFFECTIVE DATE	[08/26/93]

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FREQUENCY OF CALIBRATION: Yearly using 5 axle semi's from traffic stream with indepent weights by Highway Patrol Static Scale

COMMENTS: WIM has not worked all year.

NAME OF PREPARER	<u>Kenneth E. Marks</u>	PHONE #	<u>(605) 773-3336</u>
DATE PREPARED	<u>2-25-10</u>		

SHEET 12
TRAFFIC DATA
COLLECTION SITE

STATE ASSIGNED ID [3902]
STATE CODE [46]
SHRP SECTION ID [~~SPS8~~] 0803
EFFECTIVE DATE 08/26/93

HIGHWAY RT. NO. SD1804 MILEPOST NO. MRM 399+/-

LOCATION Near North Dakota border

VEHICLE CLASSIFICATION METHOD: FHWA X OTHER #BINS

TYPE OF CLASSIFICATION EQUIPMENT: PORTABLE PERMANENT X

AVC EQUIPMENT MAKE/MODEL NO.

SENSOR TYPE

WEIGHT SCALE TYPE: PORT. WIM PERM. WIM X OTHER

EQUIPMENT MAKE/MODEL NO. PAT DAW 100

SENSOR TYPE Piezo

METHOD OF CALIBRATION: Initial calibration was done with a 5 axle semi
having known weights and axle spacings.

FREQUENCY OF CALIBRATION:

COMMENTS:

NAME OF PREPARER Rocky W. Hook PHONE # 605-773-3336
DATE PREPARED 01-19-94

SHEET 12
TRAFFIC DATA
COLLECTION SITE

STATE ASSIGNED ID [3902]
STATE CODE [46]
SHRP SECTION ID [SPS8] 0803
EFFECTIVE DATE 08/26/93

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LOCATION Near North Dakota border

VEHICLE CLASSIFICATION METHOD: FHWA ☒ OTHER ☐ #BINS ☐

TYPE OF CLASSIFICATION EQUIPMENT: PORTABLE ☐ PERMANENT ☒

AVC EQUIPMENT MAKE/MODEL NO. ☐

SENSOR TYPE ☐

WEIGHT SCALE TYPE: PORT. WIM ☐ PERM. WIM ☒ OTHER ☐

EQUIPMENT MAKE/MODEL NO. PAT DAW 100

SENSOR TYPE Piezo

METHOD OF CALIBRATION: Initial calibration was done with a 5 axle semi
having known weights and axle spacings.

FREQUENCY OF CALIBRATION: ☐

COMMENTS: ☐

NAME OF PREPARER Rocky W. Hook PHONE # 605-773-3336
DATE PREPARED 04-08-94

SHEET 12
TRAFFIC DATA
COLLECTION SITE

STATE ASSIGNED ID [3902]
STATE CODE [46]
SHRP SECTION ID [SPS8] 2803
EFFECTIVE DATE 08/26/93

HIGHWAY RT. NO. SD1804 MILEPOST NO. MRM 399+/-

LOCATION Near North Dakota border

VEHICLE CLASSIFICATION METHOD: FHWA X OTHER #BINS

TYPE OF CLASSIFICATION EQUIPMENT: PORTABLE PERMANENT X

AVC EQUIPMENT MAKE/MODEL NO.

SENSOR TYPE

WEIGHT SCALE TYPE: PORT. WIM PERM. WIM X OTHER

EQUIPMENT MAKE/MODEL NO. PAT DAW 100

SENSOR TYPE Piezo

METHOD OF CALIBRATION: Initial calibration was done with a 5 axle semi
having known weights and axle spacings.

FREQUENCY OF CALIBRATION:

COMMENTS:

10/11-10/14
10/26-10/31

9/11-9/12
9/14-9/30

10/11-10/14 11/1
10/26-10/31 22-23

NAME OF PREPARER Rocky W. Hook PHONE # 605-773-3336
DATE PREPARED 05-19-94

SHEET 12
TRAFFIC DATA
COLLECTION SITE

STATE ASSIGNED ID [3902]
STATE CODE [46]
SHRP SECTION ID [0803]
EFFECTIVE DATE 08/26/93

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SENSOR TYPE

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EQUIPMENT MAKE/MODEL NO. PAT DAW 100

SENSOR TYPE Piezo

METHOD OF CALIBRATION: Initial calibration was done with a 5 axle semi
having known weights and axle spacings.

FREQUENCY OF CALIBRATION:

COMMENTS:

NAME OF PREPARER Rocky W. Hook PHONE # 605-773-3336
DATE PREPARED 11-21-94

SHEET 12
TRAFFIC DATA
COLLECTION SITE

STATE ASSIGNED ID [3902]
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SHRP SECTION ID [0803]
EFFECTIVE DATE 08/26/93

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LOCATION Near North Dakota border

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AVC EQUIPMENT MAKE/MODEL NO.

SENSOR TYPE

WEIGHT SCALE TYPE: PORT. WIM PERM. WIM X OTHER

EQUIPMENT MAKE/MODEL NO. PAT DAW 100

SENSOR TYPE Piezo

METHOD OF CALIBRATION: Initial calibration was done with a 5 axle semi
having known weights and axle spacings.

FREQUENCY OF CALIBRATION:

COMMENTS: Data for the month of November.

NAME OF PREPARER Rocky W. Hook PHONE # 605-773-3336
DATE PREPARED 12-21-94

SHEET 12
TRAFFIC DATA
COLLECTION SITE

STATE ASSIGNED ID [3902]
STATE CODE [46]
SHRP SECTION ID [0803]
EFFECTIVE DATE 08/26/93

HIGHWAY RT. NO. SD1804 MILEPOST NO. MRM 399+/-

LOCATION Near North Dakota border

VEHICLE CLASSIFICATION METHOD: FHWA X OTHER #BINS

TYPE OF CLASSIFICATION EQUIPMENT: PORTABLE PERMANENT X

AVC EQUIPMENT MAKE/MODEL NO.

SENSOR TYPE

WEIGHT SCALE TYPE: PORT. WIM PERM. WIM X OTHER

EQUIPMENT MAKE/MODEL NO. PAT DAW 100

SENSOR TYPE Piezo

METHOD OF CALIBRATION: Initial calibration was done with a 5 axle semi
having known weights and axle spacings.

FREQUENCY OF CALIBRATION:

COMMENTS: Data for the month of December.

NAME OF PREPARER Rocky W. Hook PHONE # 605-773-3336
DATE PREPARED 02-09-95

SHEET 12 LTPP TRAFFIC DATA COLLECTION SITE	STATE ASSIGNED ID	[3902]
	STATE CODE	[46]
	SHRP SECTION ID	[0803]
	EFFECTIVE DATE	[08/26/93]

HIGHWAY RT. NO. SD 1804 MILEPOST NO. MRM 399+/-

LOCATION Near North Dakota Border

VEHICLE CLASSIFICATION METHOD: FHW ☒ OTHER ☐ # BINS ☐

TYPE OF CLASSIFICATION EQUIPMENT: PORTABLE ☐ PERMANENT ☒

AVC EQUIPMENT MAKE/MODEL NO.

SENSOR TYPE

WEIGHT SCALE TYPE: PORT. WIM ☐ PERM. WIM ☒ OTHER ☐

EQUIPMENT MAKE/MODEL NO. PAT DAW 100

SENSOR TYPE Piezo

METHOD OF CALIBRATION: Intitial calibration was done with a 5 axle semi having known weights and axle spacings.

FREQUENCY OF CALIBRATION:

COMMENTS: Data for the months of January, February, March, June, July, August, September, October, November and December.

NAME OF PREPARER	<u>Rocky W. Hook</u>	PHONE #	<u>(605) 773-3336</u>
DATE PREPARED	<u>12-30-96</u>		

SHEET 14 LTPP TRAFFIC DATA LOG OF CHANGES AT GPS TEST LOCATIONS WITH PERM. AVC OR WIM	STATE ASSIGNED ID <u>3902</u> STATE CODE <u>46</u> SHRP SECTION ID <u>0803</u> 2800
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LOCATION SD1804 TYPE EQUIP. PAT Piezo
 MILEPOST NO. Near North Dakota Border MODEL # DAW 100

DATE OF CHANGE	TIME OF CHANGE	DESCRIPTION OF CHANGE	PERSON MAKING CHANGE	PHONE	NEW EQUIP. SERIAL#
8-26-93		Installation & calibration completed	PAT Rep & Dan Strand		NA
3/6/1997		Fix phone problems Phone line surge protector was submerged in water and ice	Strand, Orth, Engelman		
4/14/1997		System was flooded causing the power supply to get zapped. Order new supply and build pedestal for later installation.	Strand, Becker, Engelman		
6/19/1997		Fix power and phone problems that were caused by flooding prior to 3/6/1997	Strand and Becker		
Wk of 2/5/01		Autopoll halted - no daily retrieval of files.	Darin Charlson	(605) 773-5026	

2/28/2001

2/28/2001

2/28/2001

SHEET 14 LTPP TRAFFIC DATA LOG OF CHANGES AT GPS TEST LOCATIONS WITH PERM. AVC OR WIM	STATE ASSIGNED ID <u>3902</u> STATE CODE <u>46</u> SHRP SECTION ID <u>0803</u>
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LOCATION SD1804 TYPE EQUIP. PAT Piezo
 MILEPOST NO. Near North Dakota Border MODEL # DAW 100

DATE OF CHANGE	TIME OF CHANGE	DESCRIPTION OF CHANGE	PERSON MAKING CHANGE	PHONE	NEW EQUIP. SERIAL#
8-26-93		Installation & calibration completed	PAT Rep & Dan Strand		NA
3/6/97		Fix phone problems Phone line surge protector was submerged in water and ice	Strand, Orth, Engelman		
4/14/97		System was flooded causing the power supply to get zapped. Order new supply and build pedestal for later installation.	Strand, Becker, Engelman		
6/19/97		Fix power and phone problems that were caused by flooding prior to 3/6/97	Strand and Becker		