

SHEET 10  
LTPP TRAFFIC DATA

TRAFFIC VOLUME AND LOAD  
ESTIMATE UPDATE-NO SITE COUNT

STATE ASSIGNED ID [ ]  
STATE CODE [ 46 ]  
SHRP SECTION ID [ 3052 ]

1. ANNUAL TRAFFIC ESTIMATES

YEAR	ESTIMATED TOTAL VEHICLES AADT (TWO-WAY)	ESTIMATED TOTAL TRUCKS AADT (TWO-WAY)	ESTIMATED TOTAL VEHICLES AADT GPS LANE	ESTIMATED TOTAL TRUCKS AADT GPS LANE	ESTIMATED ESAL'S/YR GPS LANE (1000's)
1995	1390	317	695	158	<del>9.5</del> 17
1996	1425	325	713	163	<del>9.7</del> 18
1997 ✓	1500	294	750	147	<del>9.4</del> 16
1998 ✓	1605	255	803	128	<del>10</del> 14
1999 ✓	1665	305	833	152	<del>10.3</del> 17
2000 ✓	1550	245	775	122	<del>9.2</del> 13
2001 ✓	1615	255	808	128	13.0

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

- 3 [ ] Growth factored last year's estimate.  
[ X ] Estimated based on volume counts at nearby locations.  
[ ] Used computerized network analysis.  
[ ] Other \_\_\_\_\_

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

- 3 [ ] Used system average from counts taken this year.  
[ X ] Used count data from nearby sites.  
[ ] Used count data from previous years at GPS site.  
[ ] Used system average from previous years count.  
[ ] Used computerized network analysis.  
[ ] Other \_\_\_\_\_

4. METHOD FOR ESTIMATING TOTAL VEHICLES GPS LANE AADT.

- 3 [ ] System distribution factors.  
[ X ] Other Estimation 50/50

5. METHOD FOR ESTIMATING TOTAL TRUCKS, GPS LANE, AADT.

- 3 [ ] System distribution factors.  
[ X ] Other Estimation 50/50

6. METHOD FOR ESTIMATING ESAL/YEAR IN GPS LANE.

- 1 [ X ] ESAL/Truck factor.  
[ ] ESAL/vehicle class  
[ ] System distribution factors - \_\_\_\_\_ # of classes.  
[ ] Other \_\_\_\_\_

7. ESAL ESTIMATES - SOURCE OF DATA.

- 4 [ ] Prior years data collected at GPS site.  
[ ] Current year system average.  
[ X ] Prior year system average.  
[ ] Historical W-4 tables.  
[ ] Other \_\_\_\_\_

8. WEIGHT SCALE TYPE.

- 1 [ X ] WIM scale.  
[ ] Static scale used for enforcement.  
[ ] Static scale not used for enforcement.  
[ ] Other \_\_\_\_\_

ENTERED APR 3 8 2002

NAME OF PREPARER Kenneth E. Marks  
DATE PREPARED 02/19/2002

PHONE # (605) 773-3336

KUC  
/som



SHEET 14	
LTPP TRAFFIC DATA	STATE ASSIGNED ID 3909
LOG OF CHANGES AT GPS TEST	STATE CODE 46
LOCATIONS WITH PERM. AVC OR WIM	SHRP SECTION ID 3052

LOCATION West of Manchester

TYPE EQUIP. PAT Bending Plate

MILEPOST NO.                      MRM 376

MODEL # DAW100

DATE OF CHANGE	TIME OF CHANGE	DESCRIPTION OF CHANGE	PERSON MAKING CHANGE	PHONE	NEW EQUIP. SERIAL#
10/01/1996		Installation of DAW100 BP		(605) 546-0215	
01/08/1997		Turn Auto Calibration OFF Due To Low Traffic volumes resulting in gross calibration adjustments	Daniel Strand & Dale Engelman		
05/07/1997	11:00	Update EPROM to version 8.65 which will compensate for temperature	Daniel S. & Daris O.		
07/02/2001		Removed WIM operating system from cabinet. The system was taken offline.	Dan Strand Jon Becker	(605) 773-3871 (605) 773-6242	
09/10/2001	A.M.	The operating system was reinstalled, and it was put back online. The EB lane is not registering axles correctly.	Dan Strand	(605) 773-3871	
06/17/2002		The calibration process was performed at this site on Monday June 17th.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	
05/30/2007	P.M.	Maintenance Check - Leading bending plate lane 1 (EB) is bad. Need to pull cab for all plates.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	
08/07/2007		Replaced leading bending plate in the east bound direction.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	7908
10/24/2007		Replaced the exit loop in the west bound direction.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	
04/30/2008	A.M.	Maintenance Check - Leading bending plate lane 2 (WB) is bad.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	
07/17/2008		Lane 2 (WB) is not bad - wire for plate was spliced and repaired instead.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	
09/17/2008		Replaced leading bending plate in the west bound direction.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	2903





SHEET 14 LTPP TRAFFIC DATA  LOG OF CHANGES AT GPS TEST LOCATIONS WITH PERM. AVC OR WIM	STATE ASSIGNED ID     3909 STATE CODE                46 SHRP SECTION ID        3052
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LOCATION    West of Manchester

TYPE EQUIP.                PAT Bending Plate

MILEPOST NO.              MRM 376

MODEL #                     DAW100

DATE OF CHANGE	TIME OF CHANGE	DESCRIPTION OF CHANGE	PERSON MAKING CHANGE	PHONE	NEW EQUIP. SERIAL#
10/01/1996		Installation of DAW100 BP		(605) 546-0215	
01/08/1997		Turn Auto Calibration OFF Due To Low Traffic volumes resulting in gross calibration adjustments	Daniel Strand & Dale Engelman		
05/07/1997	11:00	Update EPROM to version 8.65 which will compensate for temperature	Daniel S. & Daris O.		
07/02/2001		Removed WIM operating system from cabinet. The system was taken offline.	Dan Strand Jon Becker	(605) 773-3871 (605) 773-6242	
09/10/2001	A.M.	The operating system was reinstalled, and it was put back online. The EB lane is not registering axles correctly.	Dan Strand	(605) 773-3871	
06/17/2002		The calibration process was performed at this site on Monday June 17th.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	
05/30/2007	P.M.	Maintenance Check - Leading bending plate lane 1 (EB) is bad. Need to pull cable for all plates.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	
08/07/2007		Replaced leading bending plate in the east bound direction.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	
10/24/2007		Replaced the exit loop in the west bound direction.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	



SHEET 14 LTPP TRAFFIC DATA  LOG OF CHANGES AT GPS TEST LOCATIONS WITH PERM. AVC OR WIM	STATE ASSIGNED ID <u>3909</u> STATE CODE <u>46</u> SHRP SECTION ID <u>3052</u>
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LOCATION    West of Manchester                      TYPE EQUIP.    PAT Bending Plate  
 MILEPOST NO.    MRM 376                              MODEL #         DAW100

DATE OF CHANGE	TIME OF CHANGE	DESCRIPTION OF CHANGE	PERSON MAKING CHANGE	PHONE	NEW EQUIP. SERIAL#
10/01/1996		Installation of DAW100 BP		(605) 546-0215	
01/08/1997		Turn Auto Calibration OFF Due To Low Traffic volumes resulting in gross calibration adjustments	Daniel Strand & Dale Engelman		
05/07/1997	11:00	Update EPROM to version 8.65 which will compensate for temperature	Daniel S. & Daris O.		
07/02/2001		Removed WIM operating system from cabinet. The system was taken offline.	Dan Strand Jon Becker	(605) 773-3871 (605) 773-6242	
09/10/2001	A.M.	The operating system was reinstalled, and it was put back online. The EB lane is not registering axles correctly.	Dan Strand	(605) 773-3871	
06/17/2002		The calibration process was performed at this site on Monday June 17th.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	
05/30/2007	P.M.	Maintenance Check - Leading bending plate lane 1 (EB) is bad. Need to pull cable for all plates.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	
08/07/2007		Replaced leading bending plate in the east bound direction.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	
10/24/2007		Replaced the exit loop in the west bound direction.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	



<p style="text-align: center;">SHEET 14 LTPP TRAFFIC DATA</p> <p>LOG OF CHANGES AT GPS TEST LOCATIONS WITH PERM. AVC OR WIM</p>	<p style="text-align: right;">STATE ASSIGNED ID    <u>3909</u> STATE CODE            <u>46</u> SHRP SECTION ID     3052</p>
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LOCATION    West of Manchester                      TYPE EQUIP.    PAT Bending Plate

MILEPOST NO.    MRM 376                      MODEL #    DAW100

DATE OF CHANGE	TIME OF CHANGE	DESCRIPTION OF CHANGE	PERSON MAKING CHANGE	PHONE	NEW EQUIP. SERIAL#
10/1/1996		Installation of DAW100 BP		(605) 546-0215	
1/8/1997		Turn Auto Calibration OFF Due To Low Traffic volumes resulting in gross calibration adjustments	Daniel Strand & Dale Engelman		
5/7/1997	11:00	Update EPROM to version 8.65 which will compensate for temperature	Daniel S. & Daris O.		
7/2/2001		Removed WIM operating system from cabinet. The system was taken offline	Dan Strand Jon Becker	(605) 773-3871 (605) 773-6242	
9/10/2001	A.M.	The operating system was reinstalled, and it was put back online. The EB lane is not registering axles correctly.	Dan Strand	(605) 773-3871	
6/17/2002		The calibration process was performed at this site on Monday June 17th.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	

<p style="text-align: center;">SHEET 14 LTPP TRAFFIC DATA</p> <p>LOG OF CHANGES AT GPS TEST LOCATIONS WITH PERM. AVC OR WIM</p>	<p style="text-align: right;">STATE ASSIGNED ID    <u>3909</u> STATE CODE            <u>46</u> SHRP SECTION ID     <u>3052</u></p>
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LOCATION    West of Manchester                      TYPE EQUIP.    PAT Bending Plate

MILEPOST NO.    MRM 376                      MODEL #    DAW100

DATE OF CHANGE	TIME OF CHANGE	DESCRIPTION OF CHANGE	PERSON MAKING CHANGE	PHONE	NEW EQUIP. SERIAL#
10/01/1996		Installation of DAW100 BP		(605) 546-0215	
01/08/1997		Turn Auto Calibration OFF Due To Low Traffic volumes resulting in gross calibration adjustments	Daniel Strand & Dale Engelman		
05/07/1997	11:00	Update EPROM to version 8.65 which will compensate for temperature	Daniel S. & Daris O.		
07/02/2001		Removed WIM operating system from cabinet. The system was taken offline	Dan Strand Jon Becker	(605) 773-3871 (605) 773-6242	
09/10/2001	A.M.	The operating system was reinstalled, and it was put back online. The EB lane is not registering axles correctly.	Dan Strand	(605) 773-3871	
06/17/2002		The calibration process was performed at this site on Monday June 17th.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	





SHEET 14 LTPP TRAFFIC DATA LOG OF CHANGES AT GPS TEST LOCATIONS WITH PERM. AVC OR WIM	STATE ASSIGNED ID 3909 STATE CODE 48 SHRP SECTION ID 3052
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LOCATION West of Manchester TYPE EQUIP. PAT Bending Plate  
MILEPOST NO. MRM 376 MODEL # DAW100

DATE OF CHANGE	TIME OF CHANGE	DESCRIPTION OF CHANGE	PERSON MAKING CHANGE	PHONE	NEW EQUIP. SERIAL#
10/01/1996		Installation of DAW100 BP		(605) 546-0215	
01/08/1997		Turn Auto Calibration OFF Due To Low Traffic volumes resulting in gross calibration adjustments	Daniel Strand & Dale Engelman		
05/07/1997	11:00	Update EPROM to version 8.65 which will compensate for temperature	Daniel S. & Daris O.		
07/02/2001		Removed WIM operating system from cabinet. The system was taken offline.	Dan Strand Jon Becker	(605) 773-3871 (605) 773-6242	
09/10/2001	A.M.	The operating system was reinstalled, and it was put back online. The EB lane is not registering axes correctly.	Dan Strand	(605) 773-3871	
06/17/2002		The calibration process was performed at this site on Monday June 17th.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	
05/30/2007	P.M.	Maintenance Check - Leading bending plate lane 1 (EB) is bad. Need to pull cal for all plates.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	
08/07/2007		Replaced leading bending plate in the east bound direction.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	7908
10/24/2007		Replaced the exit loop in the west bound direction.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	
04/30/2008	A.M.	Maintenance Check - Leading bending plate lane 2 (WB) is bad.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	
07/17/2008		Lane 2 (WB) is not bad - wire for plate was spliced and repaired instead.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	
09/17/2008		Replaced leading bending plate in the west bound direction.	Darin Charlson Jon Becker	(605) 773-5026 (605) 773-6242	2903
09/09/2009		Replaced leading & trailing bending plate in the west bound direction. The load frames for both plates were replaced also.	Jorge Rubio ( IRD ) Ray Pollon ( IRD )	(402) 238-4974 (760) 271-4065	Leading - 11755 Trailing - 12027
09/10/2009		Replaced trailing bending plate in the east bound direction. The one load frame was replaced also.	Jorge Rubio ( IRD ) Ray Pollon ( IRD )	(402) 238-4974 cell (760) 271-4065 cell	11146
09/10/2009	P.M.	Converted the DAW 100 electronics with the cabinet to ISINC electronics - W3	Jorge Rubio ( IRD )	(402) 238-4974 cell	
09/17/2009		Replaced leading bending plate in the east bound direction. The load frame was replaced also.	Jorge Rubio ( IRD )	(402) 238-4974 cell	8094
09/18/2009		The calibration process was performed at this site using a test truck.	Jorge Rubio ( IRD )	(402) 238-4974 cell	

← Updated Site Equipment  
info 2/22/10  
NE