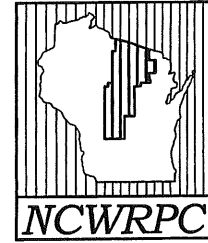


NORTH CENTRAL WISCONSIN REGIONAL PLANNING COMMISSION



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SERVING ADAMS, FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, ONEIDA, PORTAGE, VILAS AND WOOD COUNTIES

MEMORANDUM

TO: Larry Hendrickson, Chair - Town of Cassian
CC: John Hendrickson, Clerk - Town of Cassian
FROM: Darryl L. Landeau, AICP *DLL*
DATE: August 6, 2008
RE: Traffic Count Report

The Town of Cassian requested traffic counting services from the North Central Wisconsin Regional Planning Commission for three locations within the Town, see Table 1.

Count #	Count Location	Location Description	Counting Period
1	Sheep Ranch Rd	North of CTH K near Oak Rd	Count Failed
2	Sheep Ranch Rd	Just north of Timber Lake Rd	Thurs-Sun 7/17-7/27
3	Clear Lake Rd	Just before Romps Rd	Tues-Tues 7/29 - 8/5

The Town requested general information with regard to traffic volumes on these roads. The attached reports summarize the data from these sites. For each location, there is a vehicle volume report, with average hourly vehicle counts by lane direction and totals for the counting period, a combined speed report with totals combined for both directions by speed group and time, and a combined classification report with totals combined for both directions by type of vehicle and time.

On Sheep Ranch Road, the first count location has been a historical problem with the asphalt apparently unable to hold the counting equipment in place, see photos attached. This will be our final attempt to count this location.

On Sheep Ranch Road north of Timber Lake Road, traffic averages about 99 vehicles per day. The majority of vehicles counted were cars and pick-ups with some larger trucks. Accuracy is not quite as high with the gravel tubes as in asphalt, and the classification seems a bit off - the number for 2-axle/6-tire is probably mostly misclassified 3-axle dump trucks which were observed in significant numbers during counter installation. Average speed over the counting period was about 33 mph.

On Clear Lake Road, traffic averages about 96 vehicles per day. The majority of vehicles counted were cars and pick-ups, but here again with the gravel, classification of trucks appears skewed. Average speed over the counting period was about 23 mph.

If you have any questions about this memo or the traffic count data, please feel free to contact me at 715-849-5510 ext 308 or dlandeau@ncwrpc.org. We appreciate this opportunity to be of service to the Town of Cassian and look forward to assisting the Town again in the future. Thank you.

C:\DARRYL\ONEIDA\CASSIAN\TRANS\COUNT08.DOC

Location : Town of Cassian
 Road : Sheep Ranch Rd
 Prepared by : N. Central WI Regional Planning Commission
 Volume Grand Totals

Site: Cass08B
 Thursday, 7/17/2008, 12:00:00 AM -
 Sunday, 7/27/2008, 12:00:00 AM

Average Hourly Volumes

	NBnd	SBnd	Combined
12:00 AM	0.0	0.2	0.2
1:00 AM	0.0	0.1	0.1
2:00 AM	0.0	0.1	0.1
3:00 AM	0.3	0.0	0.3
4:00 AM	0.5	0.0	0.5
5:00 AM	0.8	0.5	1.3
6:00 AM	0.7	1.5	2.2
7:00 AM	1.3	2.6	3.9
8:00 AM	1.9	3.6	5.5
9:00 AM	4.9	3.5	8.4
10:00 AM	3.1	3.4	6.5
11:00 AM	6.9	4.7	11.6
12:00 PM	4.5	3.2	7.7
1:00 PM	5.1	5.5	10.6
2:00 PM	2.9	3.6	6.5
3:00 PM	5.2	2.7	7.9
4:00 PM	3.9	3.1	7.0
5:00 PM	2.9	2.3	5.2
6:00 PM	2.3	1.5	3.8
7:00 PM	2.0	1.2	3.2
8:00 PM	1.5	0.7	2.2
9:00 PM	1.9	1.0	2.9
10:00 PM	0.4	0.6	1.0
11:00 PM	0.1	0.3	0.4
ADT	53.1	45.9	99.0

Study Grand Totals

	NBnd	SBnd	Combined
	531	459	990
	53.6 %	46.4 %	

Location : Town of Cassian
 Road : Sheep Ranch Rd
 Prepared by : N. Central WI Regional Planning Commission

Site: Cass08B
 Thursday, 7/17/2008, 12:00:00 AM -
 Sunday, 7/27/2008, 12:00:00 AM

Speed Grand Totals
 Combined

mph	Hourly Averages												
	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
Total	16.7	1.6	4.0	9.1	13.8	20.4	17.1	9.8	4.7	1.0	0.4	0.0	0.4
12:00 AM	0.2	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1:00 AM	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2:00 AM	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3:00 AM	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0
4:00 AM	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.1	0.0	0.0	0.0
5:00 AM	1.3	0.0	0.1	0.3	0.1	0.2	0.3	0.3	0.0	0.0	0.0	0.0	0.0
6:00 AM	2.2	0.0	0.0	0.0	0.2	0.7	0.5	0.3	0.3	0.2	0.0	0.0	0.0
7:00 AM	3.9	0.0	0.0	0.4	0.3	1.1	1.3	0.3	0.5	0.0	0.0	0.0	0.0
8:00 AM	5.5	1.0	0.1	0.3	0.4	0.5	0.7	0.1	0.1	0.1	0.0	0.0	0.0
9:00 AM	8.4	0.9	0.1	0.7	0.9	1.5	1.1	0.4	0.1	0.0	0.0	0.0	0.0
10:00 AM	6.5	0.6	0.1	0.0	0.7	1.8	1.4	0.9	0.2	0.0	0.1	0.0	0.0
11:00 AM	11.6	5.6	0.1	0.3	0.6	1.2	1.3	0.7	0.0	0.0	0.0	0.0	0.0
12:00 PM	7.7	1.4	0.1	0.2	0.9	1.5	1.1	0.8	0.4	0.1	0.0	0.0	0.0
1:00 PM	10.6	4.0	0.2	0.2	0.6	1.3	1.7	1.2	0.6	0.5	0.0	0.1	0.2
2:00 PM	6.5	1.4	0.2	0.0	0.7	0.9	1.5	0.9	0.6	0.3	0.0	0.0	0.0
3:00 PM	7.9	0.5	0.2	0.3	1.0	1.8	1.1	1.0	0.3	0.0	0.0	0.0	0.0
4:00 PM	7.0	0.6	0.1	0.5	0.7	0.6	1.4	1.0	0.4	0.2	0.0	0.0	0.0
5:00 PM	5.2	0.4	0.0	0.5	0.4	0.6	0.9	1.0	0.8	0.4	0.0	0.1	0.0
6:00 PM	3.8	0.2	0.1	0.4	0.4	0.7	0.5	0.7	0.3	0.4	0.1	0.0	0.0
7:00 PM	3.2	0.0	0.1	0.3	0.0	0.4	0.9	0.8	0.3	0.1	0.2	0.1	0.0
8:00 PM	2.2	0.0	0.1	0.3	0.5	0.6	0.4	0.1	0.1	0.0	0.0	0.0	0.0
9:00 PM	2.9	0.0	0.0	0.6	0.9	0.6	0.2	0.3	0.2	0.0	0.0	0.0	0.1
10:00 PM	1.0	0.1	0.1	0.2	0.0	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0
11:00 PM	0.4	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0
ADT	99.0	16.7	1.6	4.0	9.1	13.8	20.4	17.1	9.8	4.7	1.0	0.4	0.4

Percentile Speeds (mph)
 10% 8.8
 15% 12.6
 50% 35.9
 85% 45.1
 90% 48.0

10 mph Pace Speed Number in pace
 33.9 - 43.9
 386 (39.0 %)

Average Minimum Maximum
 33.1 mph
 5.8 mph
 90.3 mph

Speeds Exceeded Count
 45 mph 163
 16.5 %
 55 mph 18
 1.8 %
 65 mph 4
 0.4 %

mph	Study Grand Totals												
	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
Total	86	10	29	61	83	103	78	51	20	4	2	0	4
NBnd	16.2%	1.9%	5.5%	11.5%	15.6%	19.4%	14.7%	9.6%	3.8%	0.8%	0.4%	0.0%	0.8%
SBnd	81	6	11	30	55	101	93	47	27	6	2	0	0
Combined	167	16	40	91	138	204	171	98	47	10	4	0	4
	16.9%	1.6%	4.0%	9.2%	13.9%	20.6%	17.3%	9.9%	4.7%	1.0%	0.4%	0.0%	0.4%

Location : Town of Cassian
 Road : Clear Lake Rd
 Prepared by : N. Central WI Regional Planning Commission
 Volume Grand Totals

Site: Cass08C
 Tuesday, 7/29/2008, 12:00:00 AM -
 Tuesday, 8/5/2008, 12:00:00 AM

Average Hourly Volumes

	EBnd	WBnd	Combined
12:00 AM	1.0	0.0	1.0
1:00 AM	0.1	0.0	0.1
2:00 AM	0.1	0.0	0.1
3:00 AM	0.1	0.0	0.1
4:00 AM	0.3	0.0	0.3
5:00 AM	0.1	0.3	0.4
6:00 AM	0.0	2.4	2.4
7:00 AM	0.7	4.3	5.0
8:00 AM	1.6	3.7	5.3
9:00 AM	3.9	2.6	6.4
10:00 AM	3.9	4.4	8.3
11:00 AM	4.3	4.7	9.0
12:00 PM	2.6	3.0	5.6
1:00 PM	2.6	1.9	4.4
2:00 PM	3.4	2.4	5.9
3:00 PM	3.6	3.1	6.7
4:00 PM	3.4	2.3	5.7
5:00 PM	6.6	1.6	8.1
6:00 PM	4.9	1.7	6.6
7:00 PM	2.9	1.7	4.6
8:00 PM	1.9	0.6	2.4
9:00 PM	3.6	0.4	4.0
10:00 PM	2.6	0.3	2.9
11:00 PM	0.7	0.0	0.7
ADT	54.7	41.4	96.1

Study Grand Totals

	EBnd	WBnd	Combined
	383	290	673
	56.9 %	43.1 %	

Classification Grand Totals
 Combined

	Total	Cars & Trailer		Bike	2 Axle		Buses	2 Axle 6 Tire		3 Axle Single	4 Axle		5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
		Trailer	Long		Long	6 Tire		Single	Single		Double	Double				
12:00 AM	1.0	0.0	0.7	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1:00 AM	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2:00 AM	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3:00 AM	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4:00 AM	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5:00 AM	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6:00 AM	2.4	0.0	1.6	0.0	0.6	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7:00 AM	5.0	0.0	2.6	0.0	1.6	0.0	0.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8:00 AM	5.3	0.0	2.1	0.0	2.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9:00 AM	6.4	0.4	3.4	1.7	0.1	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10:00 AM	8.3	0.1	4.3	2.3	0.4	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11:00 AM	9.0	0.0	4.4	3.1	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12:00 PM	5.6	0.0	2.7	2.0	0.1	0.0	0.0	0.6	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
1:00 PM	4.4	0.1	2.1	1.4	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2:00 PM	5.9	0.0	2.7	2.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3:00 PM	6.7	0.4	4.0	1.9	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4:00 PM	5.7	0.1	3.6	1.7	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5:00 PM	8.1	0.3	5.4	1.6	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6:00 PM	6.6	0.1	4.4	1.7	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7:00 PM	4.6	0.1	2.4	1.7	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
8:00 PM	2.4	0.1	0.9	1.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9:00 PM	4.0	0.0	2.6	1.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10:00 PM	2.9	0.0	1.6	0.9	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11:00 PM	0.7	0.1	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ADT	96.1	2.1	53.0	28.9	1.0	10.7	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	Total	Cars & Trailer		Bike	2 Axle		Buses	2 Axle 6 Tire		3 Axle Single	4 Axle		5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
		Trailer	Long		Long	6 Tire		Single	Single		Double	Double				
EBnd	383	9	207	113	3	49	1	0	0	0	0	0	0	0	0	0
WBnd	290	6	164	89	4	26	0	0	0	0	0	0	0	0	0	0
Combined	673	15	371	202	7	75	1	0	0	0	0	0	0	0	0	0
		2.3%	54.0%	29.5%	0.8%	12.8%	0.3%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
		2.1%	56.6%	30.7%	1.4%	9.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
		2.2%	55.1%	30.0%	1.0%	11.1%	0.1%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Study Grand Totals

Speed Grand Totals
 Combined

mph	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
Total	1.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12:00 AM	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1:00 AM	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2:00 AM	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3:00 AM	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4:00 AM	0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5:00 AM	0.4	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6:00 AM	2.4	0.0	0.3	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7:00 AM	5.0	0.0	1.4	2.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8:00 AM	5.3	0.4	2.3	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9:00 AM	6.4	0.4	2.0	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10:00 AM	8.3	0.4	2.3	3.0	2.0	0.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0
11:00 AM	9.0	0.3	3.1	3.6	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12:00 PM	5.6	0.1	1.9	2.6	0.7	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0
1:00 PM	4.4	0.1	1.3	1.7	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2:00 PM	5.9	0.9	1.6	2.1	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3:00 PM	6.7	1.1	1.9	2.7	0.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
4:00 PM	5.7	1.0	1.3	2.0	1.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
5:00 PM	8.1	0.1	2.0	3.9	1.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6:00 PM	6.6	0.0	1.3	3.3	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7:00 PM	4.6	1.0	1.6	1.3	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8:00 PM	2.4	0.1	0.6	1.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9:00 PM	4.0	0.6	0.4	1.7	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10:00 PM	2.9	0.0	0.9	1.1	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11:00 PM	0.7	0.0	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ADT	96.1	6.9	26.4	40.0	17.6	3.0	0.1	0.3	0.6	0.1	0.1	0.4	0.6

Percentile Speeds
 (mph)

10 mph Pace Speed
 Number in pace

Speeds Exceeded
 Count

mph	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
Total	383	36	76	145	100	20	1	0	0	0	0	1	4
EBnd	9.4%	19.8%	37.9%	26.1%	5.2%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.3%	1.0%
WBnd	290	12	109	135	23	1	0	2	4	1	1	2	0
Combined	673	48	185	280	123	21	1	2	4	1	1	3	4
	7.1%	27.5%	41.6%	18.3%	3.1%	0.0%	0.1%	0.3%	0.6%	0.1%	0.1%	0.4%	0.6%

Average
 Minimum
 Maximum

16.6 - 26.6
 505 (75.0 %)

22.6 mph
 8.4 mph
 82.7 mph

Study Grand Totals

