



MnDOT Traffic Signal Warrant Analysis

Location: TH-5 at Minnewashta Pkwy / Co.Rd.15

County: Carver

Ref. Point: 41.045

Date: 1/5/2016

Operator: MC

Population < 10,000

Existing Signal?

Approach	Description	Speed	# Thru	# LT Lanes	# RT Lanes
Major 1	TH-5 EB, west of Minn	55	1	1	
Major 3	TH-5 WB, east of Minn	55	1		1
Minor 2	Minnewashta Pkwy SB	30	0	1	1
Minor 4	n/a	0	0		

Factor Used : 70%

Hour	Major App. 1	Major App. 3	Total App. 1+3	Min Volume		% Right Turns		Highest Minor App	Min Volume	
				420/630	105/52	50	30		Minor Met 1A/1B	Met Same 1A/1B
0:00 - 1:00	0	0	0	- / -	0	0	0	0	- / -	- / -
1:00 - 2:00	0	0	0	- / -	0	0	0	0	- / -	- / -
2:00 - 3:00	0	0	0	- / -	0	0	0	0	- / -	- / -
3:00 - 4:00	0	0	0	- / -	0	0	0	0	- / -	- / -
4:00 - 5:00	0	0	0	- / -	0	0	0	0	- / -	- / -
5:00 - 6:00	0	0	0	- / -	0	0	0	0	- / -	- / -
6:00 - 7:00	938	193	1131	Y / Y	35	0	17	- / -	- / -	- / -
7:00 - 8:00	1572	413	1985	Y / Y	82	0	41	- / -	- / -	- / -
8:00 - 9:00	1331	360	1691	Y / Y	71	0	35	- / -	- / -	- / -
9:00 - 10:00	788	360	1148	Y / Y	69	0	34	- / -	- / -	- / -
10:00 - 11:00	599	393	992	Y / Y	41	0	20	- / -	- / -	- / -
11:00 - 12:00	564	467	1031	Y / Y	64	0	32	- / -	- / -	- / -
12:00 - 13:00	573	521	1094	Y / Y	50	0	25	- / -	- / -	- / -
13:00 - 14:00	513	595	1108	Y / Y	54	0	27	- / -	- / -	- / -
14:00 - 15:00	573	786	1359	Y / Y	47	0	23	- / -	- / -	- / -
15:00 - 16:00	641	1160	1801	Y / Y	71	0	35	- / -	- / -	- / -
16:00 - 17:00	644	1442	2086	Y / Y	52	0	26	- / -	- / -	- / -
17:00 - 18:00	618	1588	2206	Y / Y	42	0	21	- / -	- / -	- / -
18:00 - 19:00	0	0	0	- / -	0	0	0	- / -	- / -	- / -
19:00 - 20:00	0	0	0	- / -	0	0	0	- / -	- / -	- / -
20:00 - 21:00	0	0	0	- / -	0	0	0	- / -	- / -	- / -
21:00 - 22:00	0	0	0	- / -	0	0	0	- / -	- / -	- / -
22:00 - 23:00	0	0	0	- / -	0	0	0	- / -	- / -	- / -
23:00 - 24:00	0	0	0	- / -	0	0	0	- / -	- / -	- / -

Warrant	Hours Met	Warrant Satisfied	Notes: v1.0.1.3
1A	0 of 8 Req.	No	
1B	0 of 8 Req.	No	
2	5 of 4 Req.	Yes	
3	1 of 1 Req.	Yes	
7	0 of 8 Req.	No	
1A Combined	0 of 8 Req.	No	
1B Combined	0 of 8 Req.		



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Approach	Description	Speed
<i>Major 1</i>	TH-5 EB, west of Minnewashta	55
<i>Major 3</i>	TH-5 WB, east of Minnewashta	55
<i>Minor 2</i>	Minnewashta Pkwy SB, N of	30
<i>Minor 4</i>	n/a	0

Factor Used:
70% 80%
210/140 240/160

Hour	Major App. 1	Major App 3	MINOR APP. 2	MINOR APP. 4	Major Total (App.1 + App. 3)	Minor App. Total (App.2 + App. 4)	Warrant Met	Warrant Met
0:00 - 1:00	0	0	0	0	0	0	/	/
1:00 - 2:00	0	0	0	0	0	0	/	/
2:00 - 3:00	0	0	0	0	0	0	/	/
3:00 - 4:00	0	0	0	0	0	0	/	/
4:00 - 5:00	0	0	0	0	0	0	/	/
5:00 - 6:00	0	0	0	0	0	0	/	/
6:00 - 7:00	938	193	35	0	1131	35	X/	X/
7:00 - 8:00	1572	413	82	0	1985	82	X/	X/
8:00 - 9:00	1331	360	71	0	1691	71	X/	X/
9:00 - 10:00	788	360	69	0	1148	69	X/	X/
10:00 - 11:00	599	393	41	0	992	41	X/	X/
11:00 - 12:00	564	467	64	0	1031	64	X/	X/
12:00 - 13:00	573	521	50	0	1094	50	X/	X/
13:00 - 14:00	513	595	54	0	1108	54	X/	X/
14:00 - 15:00	573	786	47	0	1359	47	X/	X/
15:00 - 16:00	641	1160	71	0	1801	71	X/	X/
16:00 - 17:00	644	1442	52	0	2086	52	X/	X/
17:00 - 18:00	618	1588	42	0	2206	42	X/	X/
18:00 - 19:00	0	0	0	0	0	0	/	/
19:00 - 20:00	0	0	0	0	0	0	/	/
20:00 - 21:00	0	0	0	0	0	0	/	/
21:00 - 22:00	0	0	0	0	0	0	/	/
22:00 - 23:00	0	0	0	0	0	0	/	/
23:00 - 24:00	0	0	0	0	0	0	/	/

Hours Conditions were met:

Warrant Condition	Same Hours Met	Warrant Satisfied?
AWS@ 70%	0	No
AWS@ 80%	0	No