

2023 TRAFFIC SIGNAL PRIORITY LIST (WORKING)

In accordance with criteria adopted by the transportation commission and common council

	Location	Overall % Above Warrant	WARRANT 1-A				WARRANT 1-B				2021 CRASHES					Comments	SHARED JURISDICTION		
			Major Street		Minor Street		Major Street		Minor Street		# With Property Damage Only	# With Personal Injuries	Crash Rate (MEV)	Pedestrian Warrant 4	Peak Hour Warrant 3			Peak Hour Warrant 3	4 Hour Warrant 2
			# Hrs.	% Met	# Hrs.	% Met	# Hrs.	% Met	# Hrs.	% Met									
Side Street Stop Controlled Intersections Studied Which Meet the Minimum Numerical Requirements of either Warrant 1-A or Warrant 1-B.																			
1	Cottage Grove Road & Meadowlark Dr (D-3,16)	21	14	225	0	61	13	150	11	121	0	0	0	-	-	N	N-1 HRS	D	COUNTY
2	Milwaukee-Sprecher (D-3, 16)	17	14	175	14+	114	10	117	8+	227	0	1	0.15	-	-	Y	Y-2 HRS	D	-

All Way Stop Controlled Intersections Studied but DO NOT MEET the Minimum Numerical Requirements of either Warrant 1-A or Warrant 1-B.																			
1	Swanton & Thompson (D-3)	-22	2	78	8	153	0	52	8	307	0	0	0	-	-	Y	Y-4 HRS	C	-
2	Agriculture & Femrite (D-16)	-27	7	106	2	73	0	64	8	162	0	0	0	-	31%	N	N-0 HRS	-	-
3	High Point & Midtown (D-1, 20)	-30	3	70	8	111	0	47	8	223	0	0	0	-	-	Y	Y-6 HRS	B, C, D	-
4	American Pkwy, Hoepker & Rattman (D-17)	-34	2	66	8	100	0	44	8	200	0	2	0.35	-	-	N	N-1 HRS	F	SUN PRAIRIE
5	Old Middleton & Old Sauk (D-19)	-36	12	115	0	44	3	77	4	87	0	0	0	-	-	N	N-0 HRS	B, C, F	-
6	Commercial & North (D-12)	-41	0	59	5	113	0	33	8	239	1	0	0.35	-	-	N	N-0 HRS	D	-
7	Buckeye (AB) & Vondron (D-16)	-50	5	70	3	70	0	50	7	124	0	0	0	-	-	N	N-0 HRS	-	COUNTY
8	Struck St. & Watts Rd. (D-19)	-54	1	56	4	90	0	35	8	217	0	0	0	-	-	N	N-0 HRS	D	-
9	Cross Country Rd - Maple Grove Dr - Nesbitt Rd (D-7)	-55	4	66	7	79	0	44	8	157	0	0	0	-	-	N	N-3 HRS	-	-
10	Bedford & Main (D-4)	-69	0	57	0	55	0	31	5	127	0	0	0	-	-	N	N-0 HRS	-	-
11	MLK Jr. & Wilson (D-4)	-76	4	69	0	39	0	46	4	78	0	0	0	-	-	N	N-0 HRS	-	-
12	Commercial & Nakoosa (D-3)	-78	0	33	0	55	0	22	7	110	0	0	0	-	-	N	N-0 HRS	-	-

Side Street Stop Controlled Intersections Studied but Do Not Meet the Minimum Numerical Requirements of either Warrant 1-A or Warrant 1-B.																			
1	Junction & Driveway at Target (D-9)	-1	13	209	0	50	12	139	7	99	0	0	0	-	16%	N	N-3 HRS	D E	-
2	Packers & Sixth (D-12)	-2	19	353	0	50	17	235	7	98	0	0	0	1%	12%	N	Y-6 HRS	B, C, D	WISDOT
3	Carroll & Gorham (D-2)	-3	16	178	0	51	11	162	8	97	0	0	0	-	-	N	N-0 HRS	E F	-
4	Schroeder & Struck (D-19, 20)	-8	11	123	6	83	3	92	7	197	1	1	0.52	-	-	N	N-0 HRS	D	-
5	Cottage Grove (CTH BB) & Thompson (D-3, 16)	-16	13	154	0	44	6	92	3	92	1	0	0.16	-	-	N	N-3 HRS	F	COUNTY
6	Fordem & Sherman (D-12)	-18	10	135	4	82	1	73	8	194	0	0	0	-	-	Y	Y-5 HRS	A C E	-
7	Broadway & Collins & Dutch Mill (D-16)	-21	13	191	0	40	11	127	1	79	0	0	0	-	39%	N	N-0 HRS	A, C, D, F	-
8	Old Middleton & Rosa (D-11, 19)	-21	11	101	0	44	4	117	3	79	0	0	0	-	-	N	N-2 HRS	C, F	-
9	Dickinson & Williamson (D-6)	-25	13	123	0	40	9	94	0	81	0	0	0	-	-	N	N-0 HRS	A, D, E	-
10	Butler & Gorham (D-2)	-25	14	106	0	48	11	112	1	95	0	0	0	-	-	N	N-1 HRS	B	-
11	Franklin & Johnson (D-2)	-25	15	321	0	29	12	214	0	75	0	0	0	-	-	N	N-0 HRS	E	-
12	Gammon & McKenna & New Washburn (D-20)	-26	17	260	0	34	16	173	3	74	0	0	0	-	18%	N	N-0 HRS	C, D, E, F	-
13	Edgewood & Monroe (D-13)	-36	13	169	0	35	7	91	6	73	0	0	0	43%	26%	N	N-0 HRS	B, C, E, F	-
14	Cottage Grove & Ellen (D-3, 16)	-38	14	164	0	31	10	109	1	62	1	0	0.17	-	-	N	Y-4 HRS	D E	COUNTY
15	Bedford & North Shore (D-4)	-38	15	173	0	31	12	115	1	62	0	0	0	-	-	N	N-0 HRS	D E	WISDOT
16	Gammon Road & Temvo Lane & Vel Phillips HS (D-9,19)	-39	14	166	0	33	10	69	2	92	0	0	0	-	-	N	N-0 HRS	C, D	-
17	Mesta & Thompson (D-17)	-40	10	105	0	33	5	84	0	76	0	0	0	-	-	N	N-0 HRS	F	-
18	Doty & Pickney (D-4)	-43	12	142	0	32	6	80	1	77	0	0	0	-	-	N	N-0 HRS	-	-
19	High Crossing Blvd & Cross Hill (D-17)	-43	13	163	0	29	9	116	1	57	0	1	0.17	-	16%	N	N-0 HRS	A, B, C, D, E	-
20	Atwood, Miller & Waubesa (D-15)	-44	16	241	0	28	12	161	0	56	0	0	0	-	-	N	N-0 HRS	A E	-
21	Elderberry & Junction (D-9)	-45	13	228	0	31	12	81	3	74	0	0	0	-	-	N	N-0 HRS	D	-
22	Appleton & Fish Hatchery (D-13)	-47	15	186	0	27	13	127	0	53	0	0	0	-	-	N	N-0 HRS	A E F	COUNTY
23	Blackhawk, Erdman & University (CTH MS) (D-5)	-47	18	710	0	26	17	473	0	53	0	0	0	11%	-	N	N-0 HRS	C, D, E, F	COUNTY, SHOREWOOD HILLS
24	East Washington Ave & Lexington Ave (D-12,15)	-47	18	417	0	27	17	278	0	53	1	0	0.09	0%	-	N	N-0 HRS	D, E	WISDOT
25	Odana & Medical Circle (D-19)	-48	14	220	0	26	11	147	0	52	0	0	0	-	-	N	N-0 HRS	D	-
26	McKenna & Morraie View (D-20)	-48	15	186	0	26	12	124	0	52	0	0	0	-	-	N	N-0 HRS	-	-
27	Lien & Thierer (D-17)	-49	2	82	2	69	0	49	8	162	0	0	0	-	-	N	N-0 HRS	-	-
28	Milwaukee & Thompson (D-3)	-50	9	90	5	59	3	50	8	143	0	0	0	2%	18%	N	N-0 HRS	C, D	-
29	Dickinson & East Washington (D-6)	-50	19	601	0	25	17	400	0	50	0	0	0	-	-	Y	N-2 HRS	A E	WISDOT
30	South High Point - Stratton Way (D-7)	-50	7	84	3	55	5	50	8	130	0	0	0	-	-	N	N-0 HRS	D, E	-
31	Gammon, Longmeadow & Stonefield (D-19)	-51	12	165	0	29	2	115	0	49	0	0	0	-	-	N	N-0 HRS	D E	-
32	Milwaukee & Waubesa (D-15)	-52	6	91	0	41	0	54	5	94	0	0	0	-	-	N	N-0 HRS	-	-
33	Packers & Schlingen (D-12)	-53	20	409	0	24	19	273	1	47	0	0	0	-	10%	N	N-0 HRS	D, E, F	WISDOT
34	Broom & Dayton (D-4)	-53	7	92	0	41	0	59	2	88	2	1	0.76	-	-	N	N-0 HRS	D, E, F	-
35	Milwaukee & Schenck (D-15)	-53	14	170	0	24	11	113	4	47	0	0	0	-	-	N	N-1 HRS	E	-
36	Carroll & Doty (D-4)	-53	12	135	0	25	5	102	3	47	0	0	0	-	-	Y	N-3 HRS	E	-
37	Sherman & Trailsway (D-12)	-53	11	151	0	31	3	82	0	65	0	0	0	-	-	N	N-0 HRS	-	-
38	Milwaukee - Walbridge (D-3)	-56	13	139	0	23	7	139	0	44	0	0	0	-	31%	N	N-3 HRS	A, B, C, D, E	-
39	Carroll & Dayton (D-4)	-56	5	95	0	39	0	90	4	54	0	0	0	-	-	N	N-0 HRS	E F	-
40	Milwaukee-Wittwer (D-3)	-57	14	183	0	22	9	122	2	43	0	0	0	-	5%	N	N-0 HRS	D	-
41	Marquette & Milwaukee (D-6)	-57	13	162	0	23	7	123	0	41	0	0	0	-	-	N	N-0 HRS	F	-
42	Milwaukee & Oak (D-15)	-59	6	91	0	41	0	60	0	81	0	0	0	-	24%	N	N-0 HRS	F	-
43	East Washington Ave & Second Street (D-6,12)	-60	19	278	0	20	17	185	0	40	1	1	0.15	-	-	N	N-0 HRS	D, E	WISDOT
44	Hill Drive & Whitney Way (D-11)	-60	13	231	0	20	12	154	0	40	0	0	0	-	-	N	N-0 HRS	C, D, E	-
45	Main & Proudft (D-4, 13)	-61	15	174	0	19	12	116	0	39	0	0	0	10%	-	N	N-0 HRS	A, D, E, F	WISDOT
46	Knickerbocker & Monroe (D-13)	-61	14	289	0	19	12	192	0	39	0	0	0	-	-	N	N-0 HRS	A D E	-
47	Odana Lane & Odana Rd (D-11)	-61	14	149	0	20	11	99	0	40	0	0	0	-	-	N	N-0 HRS	A, C, D, E	-
48	Packers Ave. & Tennyson Ln. (D-18)	-61	14	162	0	19	11	108	0	39	0	0	0	-	-	N	N-0 HRS	D, E, F	COUNTY
49	Monona (CTH BB), Panther & Tompkins (D-15)	-62	15	294	0	21	14	175	0	38	1	0	0.09	-	-	N	N-0 HRS	A B E F	COUNTY, MONONA
50	Atwood - Sugar - Oakridge (D-15)	-63	14	151	0	19	12	101	0	37	0	0	0	-	5%	N	N-0 HRS	-	-

	Location	Overall % Above Warrant	WARRANT 1-A		WARRANT 1-B		2021 CRASHES								Comments	SHARED JURISDICTION			
			Major Street		Minor Street		Major Street		Minor Street		# With Property Damage Only	# With Personal Injuries	Crash Rate (MEV)	Pedestrian Warrant 4			Peak Hour Warrant 3	Peak Hour Warrant 3	4 Hour Warrant 2
			# Hrs.	% Met	# Hrs.	% Met	# Hrs.	% Met	# Hrs.	% Met									
51	Knutson-Northport (D-18)	-64	13	197	0	18	13	131	0	36	0	0	0	0	N	N-0 HRS	E F	WISDOT	
52	Few & Williamson (D-6)	-64	15	181	0	20	10	89	0	47	1	0	0.18	-	-	N	N-0 HRS	A E	-
53	East Park Blvd & East Terrace Dr (D-17)	-64	4	54	3	69	0	36	6	137	0	0	0	-	-	N	N-0 HRS	D F	-
54	Marsh & Siggelkow (D-16)	-64	3	67	2	43	0	40	6	96	0	0	0	-	-	N	N-1 HRS	D	McFARLAND
55	Gorham & Livingston (D-6)	-64	14	158	0	18	12	93	0	43	0	0	0	-	-	N	N-0 HRS	D, E	-
56	Carver & Fish Hatchery (CTH D) (D-13, 14)	-65	17	270	0	18	14	180	0	35	1	0	0.08	-	12%	N	N-0 HRS	D	COUNTY
57	Raymond Rd & S. Gammon Rd (D-7, 20)	-65	2	55	2	74	0	35	8	167	1	0	0.28	-	-	N	N-1 HRS	A, B, C, D, E	-
58	Odana & West Platte (D-19)	-68	14	214	0	16	11	142	0	32	0	1	0.16	-	-	N	N-0 HRS	A B D E F	-
59	Fairchild & Mifflin (D-4)	-68	7	98	0	34	0	65	3	67	0	0	0	-	-	N	N-0 HRS	-	-
60	Big Sky, Mineral Point & Tree (D-9)	-68	16	400	0	16	16	267	0	32	0	0	0	-	-	N	N-0 HRS	A C E F	COUNTY
61	Vel Phillips Memorial HS Driveway & Mineral Point Road (D-19)	-69	16	224	0	16	15	149	1	31	0	0	0	-	5%	N	N-4HRS	C, D, E, F	COUNTY
62	Gorham & Henry (D-2, 4)	-69	16	229	0	16	15	153	0	31	0	0	0.13	-	-	N	N-0 HRS	E	-
63	Cottage Grove (CTH BB) & Mc Lean (D-3, 16)	-69	11	109	0	29	5	73	0	58	2	0	0.38	-	-	N	N-0 HRS	D, E, H	COUNTY
64	Raymond Rd & Muir Field (D-7, D-20)	-71	2	55	2	59	0	29	6	144	0	0	0	-	-	N	N-1 HRS	A, B, C, D, E	-
65	Raymond - South High Point (D-7)	-71	0	43	3	68	0	29	7	136	0	0	0	-	-	N	N-2 HRS	C, D, F	-
66	Badger & Cypress (D-14)	-72	1	90	0	33	0	49	3	79	0	0	0	-	-	N	N-0 HRS	-	-
67	Mandrake & Northport (D-18)	-73	16	204	0	14	15	136	0	27	0	0	0	-	-	N	N-0 HRS	-	WISDOT
68	Gilbert & Whitney (D-10, 20)	-73	16	192	0	13	12	128	0	27	0	0	0	-	-	N	N-0 HRS	A D E F	-
69	American Parkway & Tancho (D-17)	-76	6	96	0	28	1	55	1	69	0	0	0	-	-	N	N-0 HRS	D E F	-
70	Gammon, Ponwood & Sawmill (D-19)	-77	13	137	0	16	7	91	0	32	0	0	0	-	-	N	N-0 HRS	-	-
71	Aberg & Huxley (D-12)	-78	9	107	0	22	1	79	2	40	0	0	0.26	-	-	N	N-0 HRS	F	-
72	Cottage Grove (CTH BB) & Maher (D-15)	-78	14	110	0	13	7	126	0	22	1	0	0.16	-	-	N	N-0 HRS	D, E	COUNTY
73	Packers & Scott (D-18)	-79	9	116	0	21	2	77	0	43	0	0	0	-	-	N	N-0 HRS	B, C, D, E	COUNTY
74	Kelab & Segoe (D-11)	-79	8	99	0	22	0	66	0	44	0	0	0	-	-	N	N-0 HRS	E F	-
75	Eau Claire & Old Middleton (D-11, 19)	-79	13	122	0	16	6	80	0	41	0	0	0	-	-	N	N-0 HRS	-	-
76	Blue Ridge & Old Sauk (D-19)	-80	9	161	0	20	2	70	0	42	0	0	0	-	-	N	N-0 HRS	-	-
77	East Pass, Maple Grove & Westin (D-7)	-82	4	80	0	33	2	53	2	65	0	0	0	-	-	N	N-0 HRS	-	-
78	McKenna & Pilgrim (D-20)	-82	6	82	0	36	2	64	1	49	0	0	0	-	-	N	N-0 HRS	-	-
79	Gammon & Farmington Way (D-9, 19)	-82	14	220	0	11	10	122	0	18	0	0	0	-	-	N	N-0 HRS	-	-
80	Forward & Schroeder (D-19, 20)	-83	3	105	0	17	0	53	1	64	0	0	0	-	-	N	N-0 HRS	B, C, D	-
81	Mineral Point Road (CTH S) & Owens (D-5, 11)	-83	13	168	0	15	5	87	0	30	0	0	0	-	-	N	N-0 HRS	A, B, E	COUNTY
82	Johnson & Sixth (D-12)	-83	0	75	0	34	0	51	0	66	1	0	0.40	-	-	N	N-0 HRS	-	-
83	Commercial (CTH T) & Mesta (D-3, 17)	-83	5	88	0	29	0	59	0	57	0	0	0	-	-	N	N-0 HRS	-	COUNTY
84	Hancock St & Johnson St (D-2)	-84	15	0	0	13	97	0	13	0	0	0	0	-	-	N	N-0 HRS	-	-
85	Milwaukee & Swanton (D-3)	-85	10	108	0	15	2	72	0	31	0	0	0	-	-	N	N-0 HRS	A E F	-
86	Hammersley & McKenna (D-20)	-85	11	153	0	7	8	102	0	15	0	0	0	-	20%	N	N-0 HRS	F	-
87	New Washburn & South High Point (D-1, 20)	-86	12	117	0	14	6	90	0	20	0	0	0	-	-	N	N-0 HRS	D, E	-
88	Roth & Sherman (D-12)	-86	14	121	0	7	11	107	0	14	0	0	0	-	-	N	N-0 HRS	F	-
89	Cottage Grove (CTH BB) & McClellan (D-3, 16)	-88	6	94	0	18	2	65	0	29	0	0	0	-	-	N	N-0 HRS	-	COUNTY
90	Regent (CTH S) & Roby (D-5)	-88	13	190	0	7	8	106	0	12	0	0	0	-	-	N	N-0 HRS	-	COUNTY
91	Darwin Rd. & International Ln (D-12, d18)	-92	0	43	0	38	0	19	1	89	1	0	0.23	-	-	N	N-0 HRS	C, D	-
92	Marcy Road & Troy Drive (D-18)	-92	4	93	0	15	0	62	0	29	0	0	0	-	-	N	N-0 HRS	B, C, D	-
93	Mineral Point (CTH S) - Westmoreland (D-5, 11)	-93	12	125	0	7	5	83	0	14	0	0	0	-	-	N	N-0 HRS	C, D, E	COUNTY
94	Bear Claw & Old Sauk Rd (D-9)	-95	0	71	0	29	0	57	0	48	1	0	0.36	-	-	N	N-0 HRS	C, D	-
95	Corporate Dr & Blettner (D-15)	-95	3	68	0	30	0	45	3	60	0	0	0	-	-	N	N-0 HRS	-	-
96	Odana & Segoe (D-11)	-95	12	103	0	5	5	83	0	16	0	0	0	-	-	N	N-0 HRS	-	-
97	Buckeye (CTH AB) & Thompson (D-16)	-104	3	72	0	24	0	48	2	47	0	1	0.31	-	-	N	N-0 HRS	-	COUNTY
98	Midtown Rd. & Red Tail Dr. & Woods Rd. (D-1)	-105	0	35	1	31	0	24	2	71	0	0	0	-	-	N	N-0 HRS	D	-
99	Gilman & Wisconsin (D-2)	-110	0	44	0	31	0	29	2	61	0	0	0	-	-	N	N-0 HRS	C, D, E	-
100	Hoepker Rd & Manufacturers (D-17)	-116	3	61	0	21	0	41	1	43	0	0	0	-	-	N	N-0 HRS	D	-
101	Hickory & Olin (D-13)	-121	0	70	0	9	0	47	0	17	0	0	0	-	-	N	N-0 HRS	C, D	-
102	Marston & Sherman (D-6)	-122	3	67	0	11	0	41	0	25	0	0	0	-	-	N	N-0 HRS	-	-
103	Jeffy & Midtown (D-1)	-127	1	59	0	15	0	49	0	29	1	0	0.34	-	-	N	N-0 HRS	-	-
104	Midtown, Hawks Landing & Hawks Ridge (D-1)	-129	0	47	0	20	0	29	0	42	0	0	0	-	-	N	N-0 HRS	-	-
105	Mayfield & Sherman (D-18)	-132	1	64	0	4	0	40	0	13	0	0	0	-	-	N	N-0 HRS	-	-
106	Henry Mall & University Avenue & Campus Drive (D-5, 8)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	36%	N/A	N/A	N/A	D, E	COUNTY
107	Sharpsburg & Sprecher & Wyalusing (D-3, 16)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	2	0.74	-	-	N/A	N/A	D	-
108	Packers Avenue & Wheeler (CV) (D-18)	-	-	-	-	-	-	-	-	-	0	0	0	-	-	-	-	C, D	COUNTY

Warrant 1-A: Eight-Hour Vehicular Volume: Condition A-Minimum Vehicular Volume

Warrant 1-B: EightHour Vehicular Volume: Condition B-Interruption of Continuous Traffic

Y=Yes N=No

Crash Rate: Number of accidents "preventable" with traffic signals per million entering vehicles.

Peak Hour Warrant A: Total vehicle hours of delay is listed for intersections where delay data was collected.

4-Hour Warrant: Number of hours shown are those that exceed the volume thresholds.

The intersections that do not meet the minimum numerical Warrant are listed in order of "closeness" to meeting either Warrant 1-A or Warrant 1-B.

Both the Major and Minor street volumes must meet 100% of the minimum Warrant in order to be classified as "meeting the minimum numerical Warrant."

Highlighted rows indicate locations requested during the year of the report title.

Key to Comments:

A = Signal coordination problems

B = Geometric problems

C = Intersection reconstruction needs to be considered.

D = Part of cost could be assessed to benefiting property owners.

E = Coordination with adjacent signals is necessary.

F = "Side Street" volumes adjusted for high right-turn percentage.