

USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: STH 21, USH 45	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR SOUTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR								AVERAGE SPEEDS IN MPH						
	MAIN ROUTE		ALTERNATE ROUTE		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		ALTERNATE ROUTE		
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN	SITE	WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	212	0.0	54	0.0	1500	212	0	54	0.44	0	66.0	52.5	44.6	22.9	22.9
1-2 AM	182	0.0	46	0.0	1500	182	0	46	0.44	0	66.1	52.6	44.8	23.0	23.0
2-3 AM	178	0.0	45	0.0	1500	178	0	45	0.44	0	66.1	52.7	44.8	23.0	23.0
3-4 AM	227	0.0	58	0.0	1500	227	0	58	0.44	0	66.0	52.5	44.6	22.9	22.9
4-5 AM	456	0.0	117	0.0	1500	456	0	117	0.47	0	65.5	51.7	43.7	22.0	22.0
5-6 AM	1079	0.0	276	0.0	1499	1079	0	276	0.61	0	64.4	47.8	39.2	20.0	20.0
6-7 AM	2011	0.0	512	0.0	1499	1922	90	601	6.24	182	62.7	15.5	30.8	17.0	16.5
7-8 AM	2842	0.0	724	0.0	1499	1882	961	1684+	25.08	664	57.4	7.3	30.8	14.2	10.2
8-9 AM	2263	0.0	576	0.0	1500	1215	1048	1624+	24.85	648	62.2	7.4	30.8	16.1	10.2
9-10 AM	1975	0.0	503	0.0	1500	1352	624	1127	16.71	425	62.7	8.6	30.8	17.0	12.7
10-11 AM	1961	0.0	499	0.0	1500	1500	461	960	14.62	367	62.7	9.1	30.8	17.1	13.7
11A-NOON	2033	0.0	518	0.0	1500	1531	502	1020	15.29	385	62.6	8.9	30.8	16.8	13.3
NOON-1PM	2128	0.0	541	0.0	1500	1543	585	1127	16.63	422	62.4	8.6	30.8	16.5	12.7
1-2 PM	2239	0.0	570	0.0	1500	1562	677	1247	18.42	471	62.2	8.3	30.8	16.1	11.9
2-3 PM	2480	0.0	632	0.0	1500	1646	834	1466+	22.20	575	61.1	7.7	30.8	15.3	10.7
3-4 PM	2938	0.0	749	0.0	1500	1683	1255	2005+	28.86	764	56.4	7.0	30.8	13.8	9.4
4-5 PM	3196	0.0	815	0.0	1499	1500	1696	2512+	30.97	826	53.8	6.8	30.8	13.0	9.0
5-6 PM	2832	0.0	722	0.0	1499	1430	1402	2123+	30.34	801	57.5	6.9	30.8	14.2	9.1
6-7 PM	1863	0.0	476	0.0	1499	1039	824	1300	19.27	507	62.9	8.2	30.8	17.4	12.0
7-8 PM	1371	0.0	349	0.0	1500	1291	80	429	7.88	193	63.8	12.7	31.2	19.1	18.6
8-9 PM	1204	0.0	308	0.0	1500	1204	0	308	1.10	18	64.1	39.6	37.5	19.6	19.6
9-10 PM	891	0.0	228	0.0	1500	891	0	228	0.51	0	64.7	50.2	42.0	20.6	20.6
10-11 PM	690	0.0	176	0.0	1500	690	0	176	0.49	0	65.1	50.9	42.8	21.3	21.3
11PM-MID	400	0.0	102	0.0	1500	400	0	102	0.46	0	65.6	51.9	43.9	22.3	22.3

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0114
MAIN ROUTE WITH WORKS	0.0063
DIVERSION	0.0769

PIA: Personal Injury Accidents

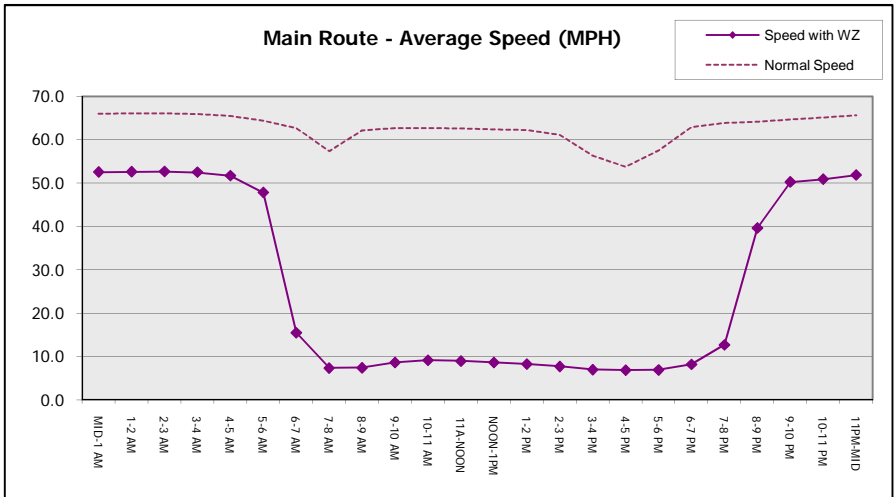
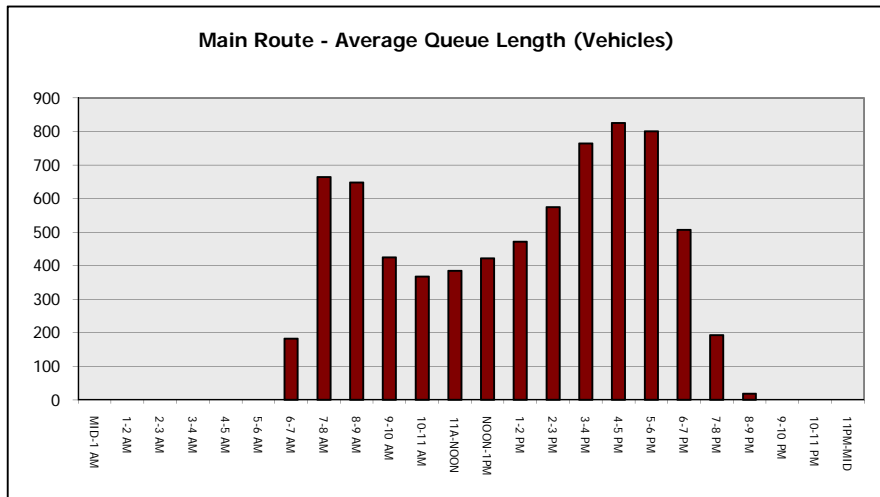
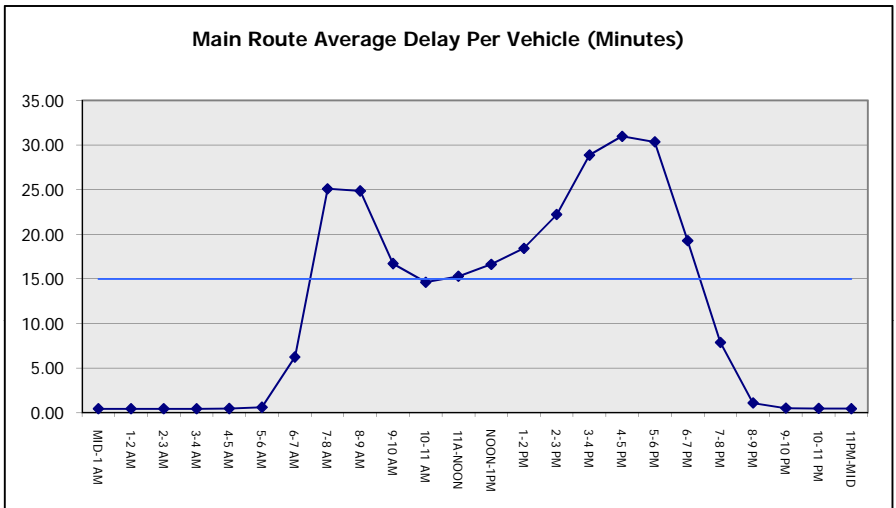
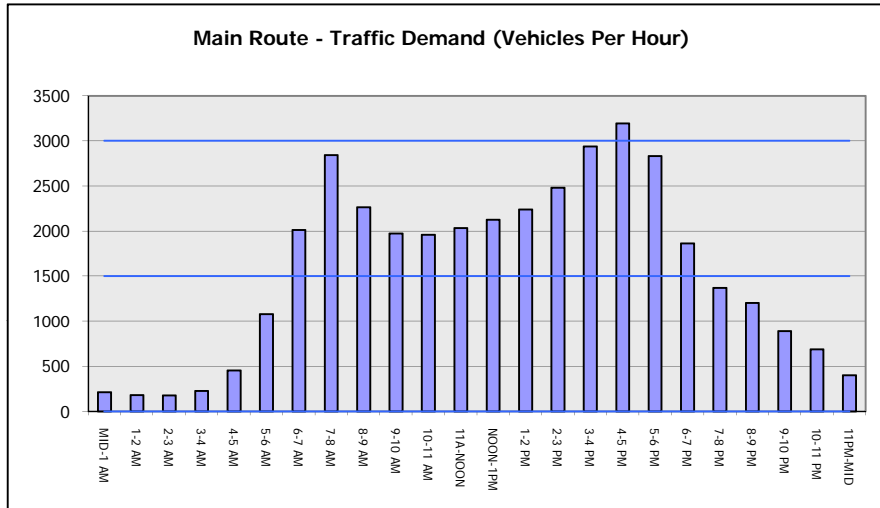
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$169,132
CONGESTED HOURS PER DAY*	11

*Delays Exceeding 15 Minutes

**USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY)
 CONTINUOUS (24 HOUR) CLOSURE
 DIVERSION ROUTE: STH 21, USH 45**

MAY
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR SOUTHBOUND DIRECTION



USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: STH 21, USH 45	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR NORTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR								AVERAGE SPEEDS IN MPH						
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	ALTERNATE ROUTE	
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN		WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	213	0.0	55	0.0	1500	213	0	55	0.44	0	66.0	52.5	44.6	22.2	22.2
1-2 AM	151	0.0	38	0.0	1500	151	0	38	0.44	0	66.1	52.7	44.9	22.6	22.6
2-3 AM	142	0.0	36	0.0	1500	142	0	36	0.44	0	66.1	52.8	44.9	22.7	22.7
3-4 AM	194	0.0	49	0.0	1500	194	0	49	0.44	0	66.0	52.6	44.7	22.3	22.3
4-5 AM	325	0.0	82	0.0	1500	325	0	82	0.45	0	65.8	52.1	44.2	21.4	21.4
5-6 AM	924	0.0	235	0.0	1499	924	0	235	0.51	0	64.6	50.1	42.0	17.4	17.4
6-7 AM	1729	0.0	440	0.0	1499	1729	0	440	2.61	66	63.2	25.8	30.8	12.4	12.5
7-8 AM	2461	0.0	626	0.0	1500	2083	378	1004+	23.07	623	61.3	7.7	31.2	9.6	10.3
8-9 AM	1808	0.0	460	0.0	1499	1323	484	944+	28.28	736	63.0	7.1	30.8	12.1	9.5
9-10 AM	1658	0.0	422	0.0	1500	1368	290	712	21.89	563	63.3	7.8	30.8	12.7	10.9
10-11 AM	1704	0.0	434	0.0	1500	1494	210	644	19.39	495	63.2	8.1	30.8	12.5	11.6
11A-NOON	1772	0.0	451	0.0	1500	1552	219	670	20.36	522	63.1	7.9	30.8	12.2	11.3
NOON-1PM	1832	0.0	467	0.0	1500	1567	265	732+	22.69	585	63.0	7.6	30.8	12.0	10.6
1-2 PM	1877	0.0	479	0.0	1499	1553	323	802+	24.62	637	62.9	7.4	30.8	11.8	10.2
2-3 PM	2118	0.0	539	0.0	1500	1636	483	1022+	28.67	748	62.4	7.0	30.8	10.9	9.4
3-4 PM	2457	0.0	625	0.0	1499	1500	957	1582+	29.95	783	61.4	7.0	30.8	9.6	9.3
4-5 PM	2752	0.0	700	0.0	1499	1495	1256	1956+	30.17	795	58.3	6.9	30.8	8.4	9.2
5-6 PM	2606	0.0	663	0.0	1499	1479	1128	1791+	30.06	789	59.8	6.9	30.8	8.9	9.2
6-7 PM	1814	0.0	462	0.0	1499	1342	471	934+	28.41	740	63.0	7.1	30.8	12.0	9.5
7-8 PM	1264	0.0	321	0.0	1499	1079	185	507	15.18	399	64.0	9.1	31.4	15.1	13.7
8-9 PM	1064	0.0	271	0.0	1499	1064	0	271	1.57	52	64.4	34.3	38.9	16.5	16.5
9-10 PM	857	0.0	218	0.0	1500	857	0	218	0.51	0	64.8	50.4	42.2	17.8	17.8
10-11 PM	592	0.0	151	0.0	1500	592	0	151	0.48	0	65.3	51.2	43.2	19.6	19.6
11PM-MID	415	0.0	106	0.0	1500	415	0	106	0.46	0	65.6	51.8	43.8	20.8	20.8

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0099
MAIN ROUTE WITH WORKS	0.0062
DIVERSION	0.0558

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$166,929
CONGESTED HOURS PER DAY*	13

*Delays Exceeding 15 Minutes

**USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY)
CONTINUOUS (24 HOUR) CLOSURE
DIVERSION ROUTE: STH 21, USH 45**

MAY
Analyzed for 2009
Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR NORTHBOUND DIRECTION

