

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

SATURDAY 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	338	0.0	86	0.0	1500	338	0	86	0.46	0	65.8	52.1	44.2	22.5	22.5
1-2 AM	213	0.0	55	0.0	1500	213	0	55	0.44	0	66.0	52.5	44.6	22.9	22.9
2-3 AM	172	0.0	43	0.0	1500	172	0	43	0.44	0	66.1	52.7	44.8	23.0	23.0
3-4 AM	149	0.0	38	0.0	1500	149	0	38	0.44	0	66.1	52.7	44.9	23.1	23.1
4-5 AM	272	0.0	69	0.0	1500	272	0	69	0.45	0	65.9	52.3	44.4	22.7	22.7
5-6 AM	419	0.0	107	0.0	1500	419	0	107	0.46	0	65.6	51.8	43.8	22.2	22.2
6-7 AM	752	0.0	191	0.0	1500	752	0	191	0.50	0	65.0	50.7	42.5	21.1	21.1
7-8 AM	1254	0.0	320	0.0	1499	1254	0	320	0.69	0	64.0	46.1	37.3	19.4	19.4
8-9 AM	1829	0.0	466	0.0	1499	1821	8	474	4.99	136	63.0	17.5	30.8	17.5	17.8
9-10 AM	2098	0.0	535	0.0	1499	1617	481	1016	15.27	386	62.5	8.9	30.8	16.6	13.4
10-11 AM	2374	0.0	605	0.0	1500	1639	735	1340	20.09	517	62.0	8.0	30.8	15.7	11.4
11A-NOON	2369	0.0	604	0.0	1499	1508	860	1465+	22.62	584	62.0	7.6	30.8	15.7	10.6
NOON-1PM	2327	0.0	593	0.0	1499	1475	852	1445	22.26	574	62.0	7.7	30.8	15.9	10.7
1-2 PM	2249	0.0	573	0.0	1499	1453	796	1369	20.64	530	62.2	7.9	30.8	16.1	11.2
2-3 PM	2338	0.0	596	0.0	1500	1547	791	1387	20.98	540	62.0	7.8	30.8	15.8	11.1
3-4 PM	2343	0.0	597	0.0	1499	1502	841	1438	22.10	570	62.0	7.7	30.8	15.8	10.8
4-5 PM	2123	0.0	541	0.0	1499	1370	752	1294	19.27	494	62.4	8.1	30.8	16.5	11.7
5-6 PM	1903	0.0	485	0.0	1500	1398	505	990	14.98	378	62.8	9.1	30.8	17.3	13.5
6-7 PM	1555	0.0	396	0.0	1499	1369	186	583	10.38	254	63.5	10.8	30.8	18.4	17.1
7-8 PM	1272	0.0	324	0.0	1499	1272	0	324	3.59	100	64.0	21.4	33.2	19.4	19.4
8-9 PM	1159	0.0	295	0.0	1500	1159	0	295	0.58	0	64.2	48.3	39.8	19.7	19.7
9-10 PM	987	0.0	251	0.0	1500	987	0	251	0.52	0	64.5	49.9	41.7	20.3	20.3
10-11 PM	787	0.0	201	0.0	1500	787	0	201	0.50	0	64.9	50.5	42.4	21.0	21.0
11PM-MID	466	0.0	119	0.0	1500	466	0	119	0.47	0	65.5	51.7	43.7	22.0	22.0

+ 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	0.0096
MAIN ROUTE WITH WORKS	0.0059
DIVERSION	0.0555

PIA: Personal Injury Accidents

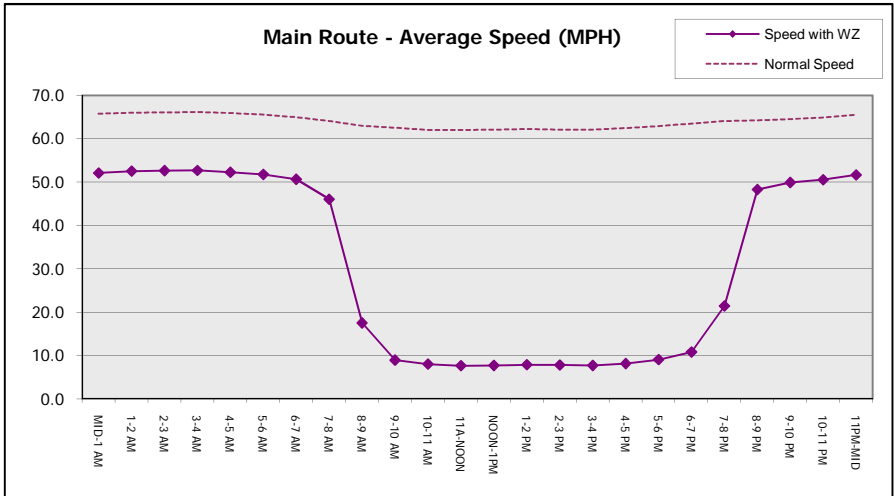
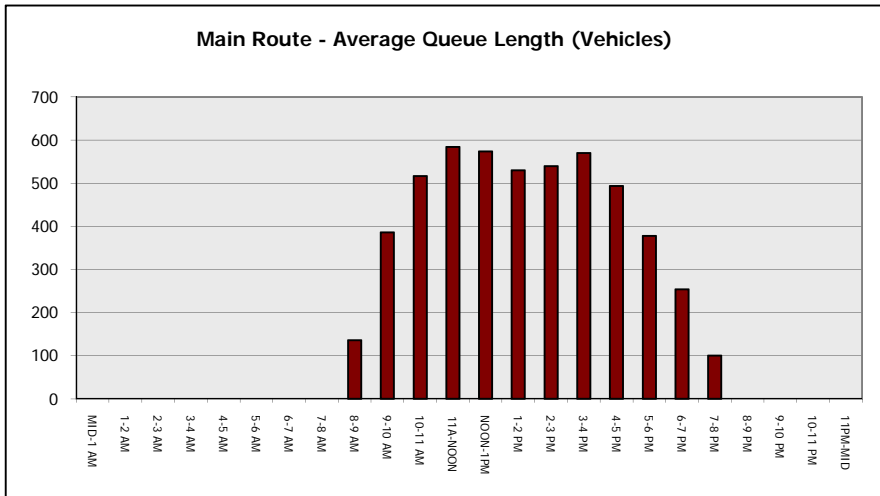
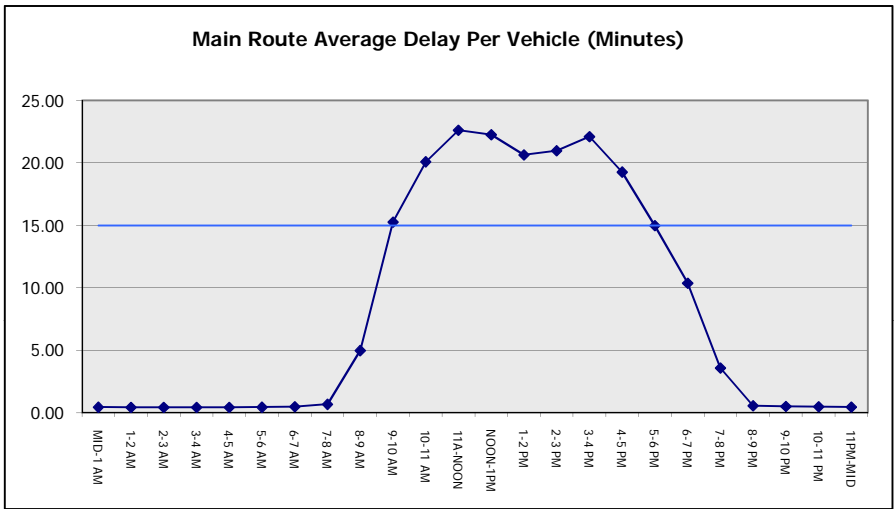
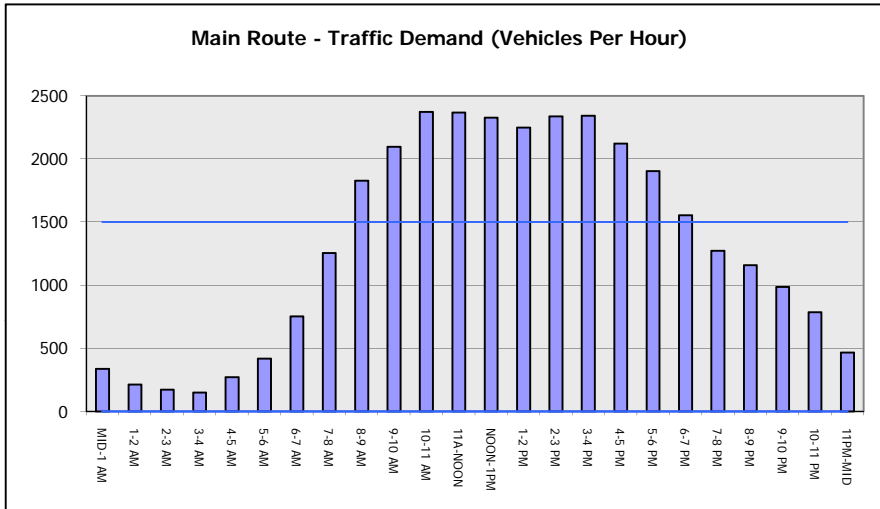
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$136,795
CONGESTED HOURS PER DAY*	8

*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
SATURDAY 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

SATURDAY 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	384	0.0	98	0.0	1500	384	0	98	0.46	0	65.6	51.9	44.0	21.0	21.0
1-2 AM	242	0.0	62	0.0	1500	242	0	62	0.45	0	66.0	52.4	44.5	22.0	22.0
2-3 AM	198	0.0	50	0.0	1500	198	0	50	0.44	0	66.0	52.6	44.7	22.3	22.3
3-4 AM	160	0.0	40	0.0	1500	160	0	40	0.44	0	66.1	52.7	44.8	22.5	22.5
4-5 AM	216	0.0	56	0.0	1500	216	0	56	0.44	0	66.0	52.5	44.6	22.1	22.1
5-6 AM	476	0.0	121	0.0	1500	476	0	121	0.47	0	65.5	51.6	43.6	20.4	20.4
6-7 AM	768	0.0	196	0.0	1500	768	0	196	0.50	0	65.0	50.6	42.5	18.4	18.4
7-8 AM	1264	0.0	322	0.0	1499	1264	0	322	0.71	0	64.0	45.8	36.8	15.1	15.1
8-9 AM	1672	0.0	426	0.0	1499	1672	0	426	2.77	61	63.3	25.0	30.8	12.6	12.6
9-10 AM	2057	0.0	524	0.0	1500	1985	72	596	15.52	413	62.5	9.1	30.8	11.1	12.0
10-11 AM	2384	0.0	607	0.0	1499	1610	774	1381+	29.75	777	61.9	7.0	31.1	9.8	9.3
11A-NOON	2461	0.0	627	0.0	1499	1502	960	1587+	29.95	783	61.3	6.9	30.8	9.5	9.3
NOON-1PM	2428	0.0	619	0.0	1499	1501	927	1546+	29.96	783	61.6	7.0	30.8	9.6	9.3
1-2 PM	2381	0.0	607	0.0	1499	1500	880	1488+	29.97	783	62.0	7.0	30.8	9.8	9.3
2-3 PM	2253	0.0	574	0.0	1499	1500	753	1328+	29.95	782	62.2	7.0	30.8	10.3	9.3
3-4 PM	2121	0.0	540	0.0	1499	1500	620	1161+	29.93	781	62.4	7.0	30.8	10.9	9.3
4-5 PM	2118	0.0	540	0.0	1499	1500	618	1159+	29.93	781	62.4	7.0	30.8	10.9	9.3
5-6 PM	1912	0.0	487	0.0	1499	1451	461	948+	29.41	766	62.8	7.0	30.8	11.7	9.3
6-7 PM	1555	0.0	396	0.0	1499	1213	343	739+	22.41	581	63.5	7.7	30.8	13.2	10.8
7-8 PM	1292	0.0	329	0.0	1500	1230	62	392	11.75	298	64.0	10.2	30.9	14.9	15.0
8-9 PM	1074	0.0	274	0.0	1500	1074	0	274	1.26	35	64.4	37.7	39.6	16.4	16.4
9-10 PM	981	0.0	250	0.0	1500	981	0	250	0.52	0	64.6	49.9	41.7	17.0	17.0
10-11 PM	784	0.0	200	0.0	1500	784	0	200	0.50	0	64.9	50.5	42.5	18.3	18.3
11PM-MID	509	0.0	130	0.0	1500	509	0	130	0.47	0	65.5	51.5	43.5	20.2	20.2

+ 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	0.0096
MAIN ROUTE WITH WORKS	0.0060
DIVERSION	0.0542

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$198,088
CONGESTED HOURS PER DAY*	10

*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
SATURDAY NORTHBOUND DIRECTION

