

USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY) OFF-PEAK DAY CLOSURE DIVERSION ROUTE: STH 21 - USH 45	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	281	0.0	72	0.0	OFF	281	0	72	0.00	0	65.9	65.9	65.9	22.7	22.7
1-2 AM	200	0.0	50	0.0	OFF	200	0	50	0.00	0	66.0	66.0	66.0	22.9	22.9
2-3 AM	179	0.0	45	0.0	OFF	179	0	45	0.00	0	66.1	66.1	66.1	23.0	23.0
3-4 AM	136	0.0	35	0.0	OFF	136	0	35	0.00	0	66.1	66.1	66.1	23.2	23.2
4-5 AM	143	0.0	36	0.0	OFF	143	0	36	0.00	0	66.1	66.1	66.1	23.1	23.1
5-6 AM	264	0.0	67	0.0	OFF	264	0	67	0.00	0	65.9	65.9	65.9	22.7	22.7
6-7 AM	465	0.0	118	0.0	OFF	465	0	118	0.00	0	65.5	65.5	65.5	22.0	22.0
7-8 AM	659	0.0	168	0.0	OFF	659	0	168	0.00	0	65.1	65.1	65.1	21.4	21.4
8-9 AM	1173	0.0	300	0.0	OFF	1173	0	300	0.00	0	64.2	64.2	64.2	19.7	19.7
9-10 AM	1800	0.0	459	0.0	1499	1800	0	459	4.13	113	63.0	19.8	30.8	17.6	17.9
10-11 AM	2347	0.0	598	0.0	1499	1764	583	1181	17.55	452	62.0	8.4	30.8	15.8	12.4
11A-NOON	2542	0.0	648	0.0	1499	1611	931	1578+	24.01	624	60.5	7.5	30.8	15.2	10.3
NOON-1PM	2761	0.0	704	0.0	1500	1617	1144	1848+	28.11	739	58.2	7.1	30.8	14.4	9.5
1-2 PM	2736	0.0	698	0.0	1500	1502	1234	1932+	29.89	787	58.5	6.9	30.8	14.5	9.2
2-3 PM	2903	0.0	740	0.0	1500	1513	1389	2130+	30.43	805	56.8	6.9	30.8	14.0	9.1
3-4 PM	2921	0.0	745	0.0	1500	1500	1421	2167+	30.51	808	56.6	6.9	30.8	13.9	9.1
4-5 PM	2862	0.0	730	0.0	1500	1492	1370	2100+	30.41	804	57.2	6.9	30.8	14.1	9.1
5-6 PM	2658	0.0	677	0.0	1500	1416	1242	1919+	29.47	774	59.2	7.0	30.8	14.8	9.3
6-7 PM	2074	0.0	529	0.0	1499	1192	883	1412	21.07	547	62.5	7.9	30.8	16.7	11.2
7-8 PM	1708	0.0	435	0.0	OFF	1708	0	435	0.56	35	63.2	48.2	48.2	17.9	17.9
8-9 PM	1229	0.0	313	0.0	OFF	1229	0	313	0.00	0	64.1	64.1	64.1	19.5	19.5
9-10 PM	845	0.0	215	0.0	OFF	845	0	215	0.00	0	64.8	64.8	64.8	20.8	20.8
10-11 PM	638	0.0	163	0.0	OFF	638	0	163	0.00	0	65.2	65.2	65.2	21.5	21.5
11PM-MID	334	0.0	85	0.0	OFF	334	0	85	0.00	0	65.8	65.8	65.8	22.5	22.5

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ 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	0.0102
MAIN ROUTE WITH WORKS	0.0061
DIVERSION	0.0701

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$208,670
CONGESTED HOURS PER DAY*	9

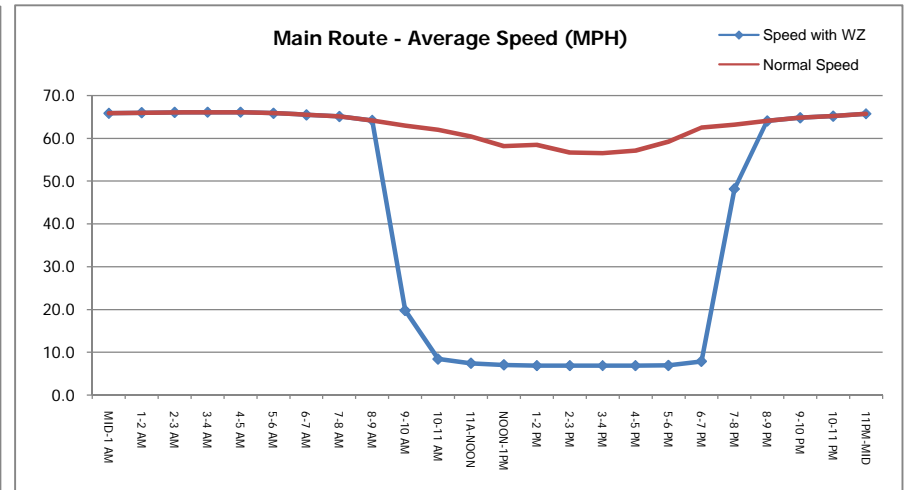
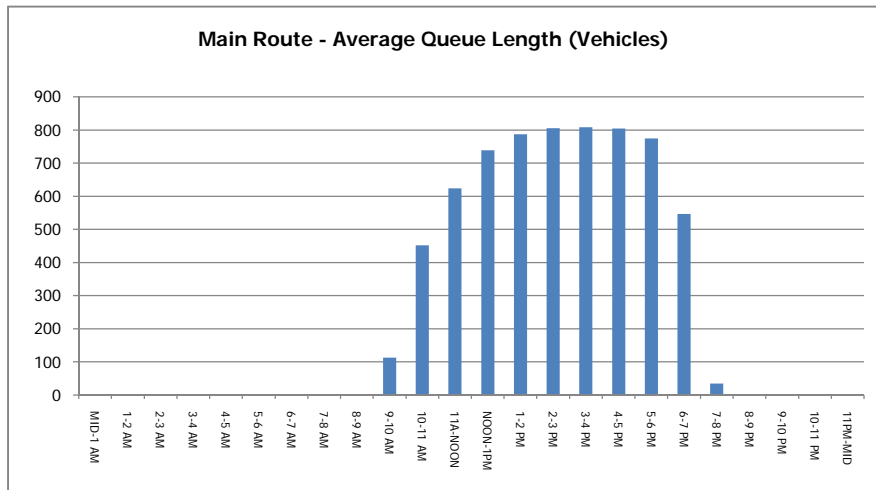
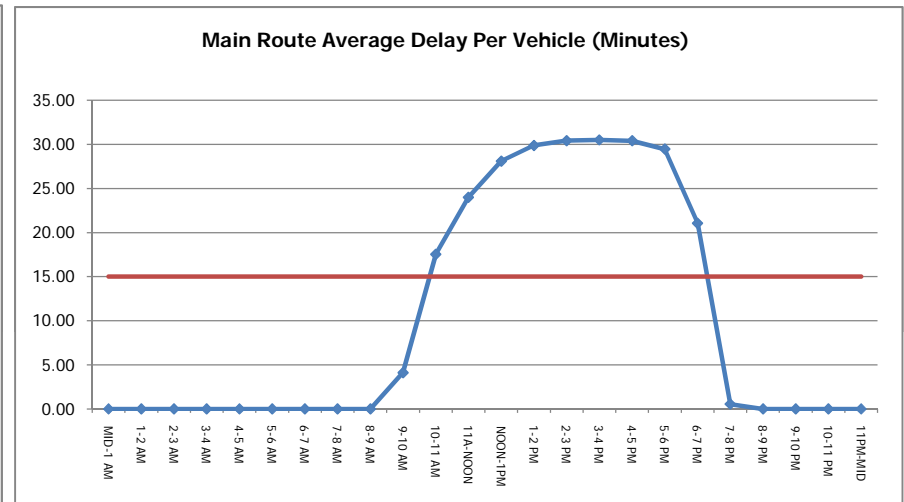
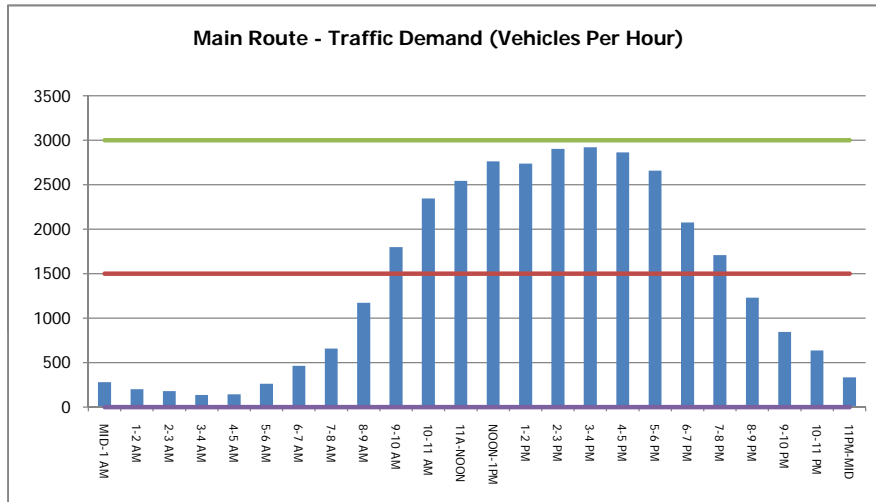
*Delays Exceeding 15 Minutes

**USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY)
OFF-PEAK DAY CLOSURE
DIVERSION ROUTE: STH 21 - USH 45**

MAY
Analyzed for 2009
Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SUNDAY SOUTHBOUND DIRECTION



USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY) OFF-PEAK DAY CLOSURE DIVERSION ROUTE: STH 21 - USH 45	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT	
SUNDAY	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		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	271	0.0	69	0.0	OFF	271	0	69	0.00	0	65.9	65.9	65.9	21.8	21.8
1-2 AM	167	0.0	42	0.0	OFF	167	0	42	0.00	0	66.1	66.1	66.1	22.5	22.5
2-3 AM	143	0.0	36	0.0	OFF	143	0	36	0.00	0	66.1	66.1	66.1	22.7	22.7
3-4 AM	87	0.0	23	0.0	OFF	87	0	23	0.00	0	66.2	66.2	66.2	23.0	23.0
4-5 AM	113	0.0	29	0.0	OFF	113	0	29	0.00	0	66.2	66.2	66.2	22.9	22.9
5-6 AM	299	0.0	76	0.0	OFF	299	0	76	0.00	0	65.8	65.8	65.8	21.6	21.6
6-7 AM	371	0.0	95	0.0	OFF	371	0	95	0.00	0	65.7	65.7	65.7	21.1	21.1
7-8 AM	602	0.0	153	0.0	OFF	602	0	153	0.00	0	65.3	65.3	65.3	19.6	19.6
8-9 AM	870	0.0	221	0.0	OFF	870	0	221	0.00	0	64.8	64.8	64.8	17.8	17.8
9-10 AM	1297	0.0	330	0.0	1499	1297	0	330	0.75	0	64.0	45.0	35.8	14.9	14.9
10-11 AM	1674	0.0	426	0.0	1499	1674	0	426	2.97	66	63.3	23.9	30.8	12.6	12.6
11A-NOON	1957	0.0	499	0.0	1500	1901	56	555	14.38	377	62.7	9.4	30.8	11.5	12.4
NOON-1PM	2119	0.0	540	0.0	1499	1742	378	918+	27.58	720	62.4	7.1	30.8	10.9	9.7
1-2 PM	2026	0.0	517	0.0	1500	1465	561	1078+	29.64	773	62.6	7.0	30.8	11.2	9.3
2-3 PM	1931	0.0	492	0.0	1500	1473	458	950+	29.54	770	62.8	7.0	30.8	11.6	9.3
3-4 PM	1913	0.0	488	0.0	1500	1478	435	922+	28.48	741	62.8	7.0	30.8	11.7	9.5
4-5 PM	1927	0.0	491	0.0	1500	1504	423	914+	28.15	732	62.8	7.1	30.8	11.6	9.5
5-6 PM	1953	0.0	498	0.0	1500	1517	435	934+	28.89	752	62.7	7.0	30.8	11.5	9.4
6-7 PM	1756	0.0	448	0.0	1499	1345	411	859+	26.38	685	63.1	7.2	30.8	12.3	9.9
7-8 PM	1408	0.0	359	0.0	OFF	1408	0	359	1.07	69	63.8	39.9	39.9	14.1	14.1
8-9 PM	1129	0.0	288	0.0	OFF	1129	0	288	0.00	0	64.3	64.3	64.3	16.0	16.0
9-10 PM	856	0.0	218	0.0	OFF	856	0	218	0.00	0	64.8	64.8	64.8	17.8	17.8
10-11 PM	592	0.0	151	0.0	OFF	592	0	151	0.00	0	65.3	65.3	65.3	19.6	19.6
11PM-MID	348	0.0	89	0.0	OFF	348	0	89	0.00	0	65.8	65.8	65.8	21.2	21.2

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ 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	0.0078
MAIN ROUTE WITH WORKS	0.0058
DIVERSION	0.0363

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$134,319
CONGESTED HOURS PER DAY*	7

*Delays Exceeding 15 Minutes

USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY)
OFF-PEAK DAY CLOSURE
DIVERSION ROUTE: STH 21 - USH 45

MAY
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SUNDAY NORTHBOUND DIRECTION

