

USH 41: STH 76 TO USH 45 (WINNEBAGO COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	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		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE		
MID-1 AM	172	0.0	OFF	172	0	0.00	0	66.1	66.1	66.1	
1-2 AM	129	0.0	OFF	129	0	0.00	0	66.1	66.1	66.1	
2-3 AM	132	0.0	OFF	132	0	0.00	0	66.1	66.1	66.1	
3-4 AM	161	0.0	OFF	161	0	0.00	0	66.1	66.1	66.1	
4-5 AM	311	0.0	OFF	311	0	0.00	0	65.8	65.8	65.8	
5-6 AM	773	0.0	OFF	773	0	0.00	0	65.0	65.0	65.0	
6-7 AM	1584	0.0	OFF	1584	0	0.00	0	63.4	63.4	63.4	
7-8 AM	2195	0.0	OFF	2195	0	0.00	0	62.3	62.3	62.3	
8-9 AM	1786	0.0	OFF	1786	0	0.00	0	63.0	63.0	63.0	
9-10 AM	1466	0.0	OFF	1466	0	0.00	0	63.7	63.7	63.7	
10-11 AM	1437	0.0	1500	1437	0	0.94	0	63.7	48.1	32.1	
11AM-NOON	1469	0.0	1499	1469	0	0.98	0	63.7	47.6	31.4	
NOON-1PM	1518	0.0	1499	1518	0	1.20	5	63.5	45.1	30.8	
1-2 PM	1643	0.0	1500	1643	0	3.79	82	63.3	27.6	30.8	
2-3 PM	1820	0.0	1500	1782	38	11.72+	304	63.0	12.9	30.8	
3-4 PM	2063	0.0	OFF	2063	0	0.85	51	62.5	48.6	48.6	
4-5 PM	2330	0.0	OFF	2330	0	0.00	0	62.0	62.0	62.0	
5-6 PM	2076	0.0	OFF	2076	0	0.00	0	62.5	62.5	62.5	
6-7 PM	1282	0.0	OFF	1282	0	0.00	0	64.0	64.0	64.0	
7-8 PM	935	0.0	OFF	935	0	0.00	0	64.6	64.6	64.6	
8-9 PM	844	0.0	OFF	844	0	0.00	0	64.8	64.8	64.8	
9-10 PM	666	0.0	OFF	666	0	0.00	0	65.1	65.1	65.1	
10-11 PM	508	0.0	OFF	508	0	0.00	0	65.5	65.5	65.5	
11PM-MID	291	0.0	OFF	291	0	0.00	0	65.8	65.8	65.8	

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

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

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

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

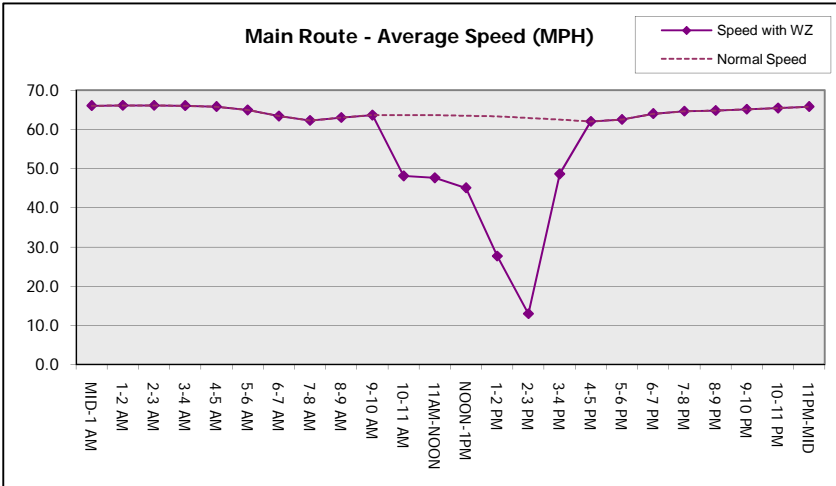
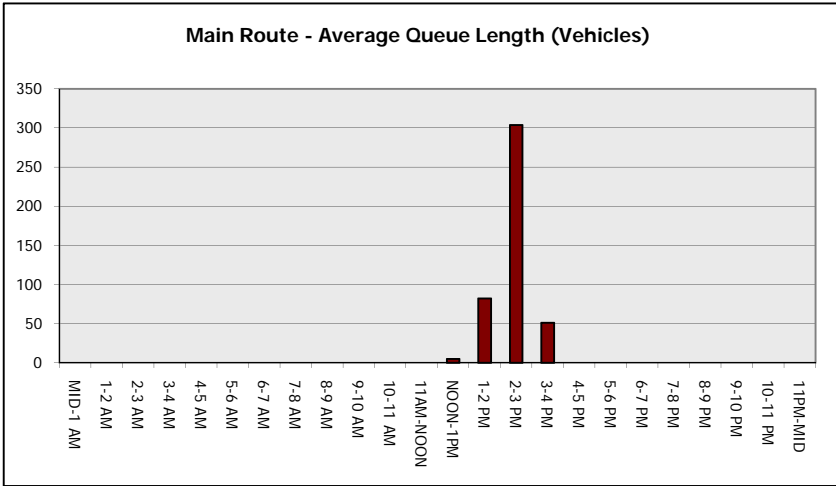
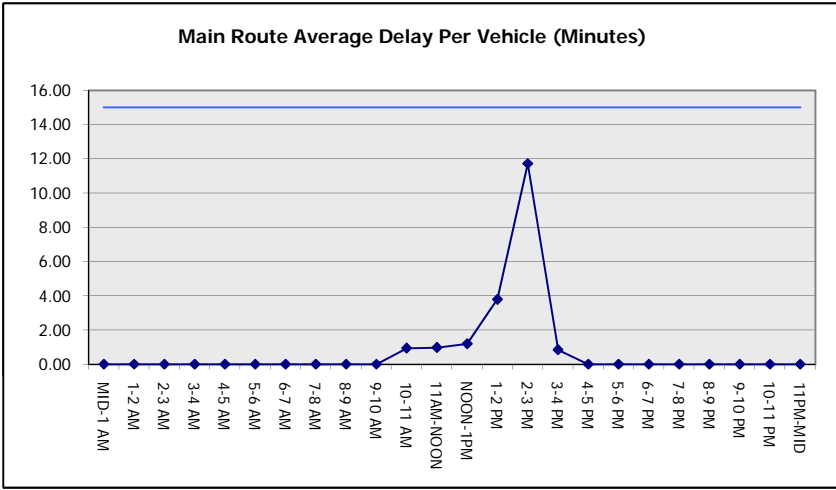
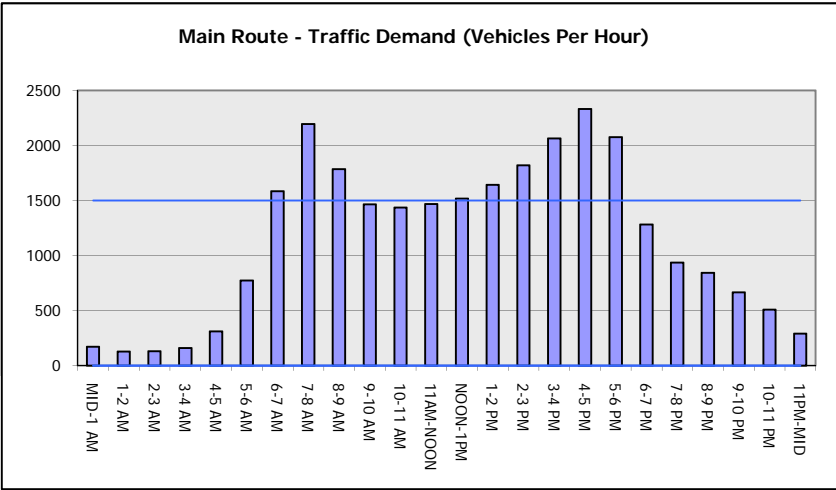
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0136
MAIN ROUTE WITH WORKS	0.0131
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$6,797
CONGESTED HOURS PER DAY*	1

*Delays Exceeding User-Specified Maximum

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



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SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR NORTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							AVERAGE SPEEDS IN MPH		
	MAIN ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE	
MID-1 AM	188	0.0	OFF	188	0	0.00	0	66.0	66.0	66.0
1-2 AM	132	0.0	OFF	132	0	0.00	0	66.1	66.1	66.1
2-3 AM	112	0.0	OFF	112	0	0.00	0	66.2	66.2	66.2
3-4 AM	153	0.0	OFF	153	0	0.00	0	66.1	66.1	66.1
4-5 AM	261	0.0	OFF	261	0	0.00	0	65.9	65.9	65.9
5-6 AM	790	0.0	OFF	790	0	0.00	0	64.9	64.9	64.9
6-7 AM	1569	0.0	OFF	1569	0	0.00	0	63.5	63.5	63.5
7-8 AM	2413	0.0	OFF	2413	0	0.00	0	61.8	61.8	61.8
8-9 AM	1686	0.0	OFF	1686	0	0.00	0	63.2	63.2	63.2
9-10 AM	1542	0.0	OFF	1542	0	0.00	0	63.5	63.5	63.5
10-11 AM	1577	0.0	1499	1577	0	2.22	35	63.5	36.1	30.8
11AM-NOON	1654	0.0	1500	1654	0	6.34	150	63.3	20.1	30.8
NOON-1PM	1705	0.0	1500	1705	0	13.05+	331	63.2	11.9	30.8
1-2 PM	1734	0.0	1499	1485	248	16.06+	406	63.2	10.4	30.8
2-3 PM	1952	0.0	1499	1499	452	16.10+	407	62.7	10.4	30.8
3-4 PM	2336	0.0	OFF	2336	0	0.99	53	62.0	46.6	46.6
4-5 PM	2600	0.0	OFF	2600	0	0.00	0	59.9	59.9	59.9
5-6 PM	2433	0.0	OFF	2433	0	0.00	0	61.6	61.6	61.6
6-7 PM	1603	0.0	OFF	1603	0	0.00	0	63.4	63.4	63.4
7-8 PM	1091	0.0	OFF	1091	0	0.00	0	64.3	64.3	64.3
8-9 PM	938	0.0	OFF	938	0	0.00	0	64.6	64.6	64.6
9-10 PM	756	0.0	OFF	756	0	0.00	0	65.0	65.0	65.0
10-11 PM	489	0.0	OFF	489	0	0.00	0	65.5	65.5	65.5
11PM-MID	357	0.0	OFF	357	0	0.00	0	65.7	65.7	65.7

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

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

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

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

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0148
MAIN ROUTE WITH WORKS	0.0140
'DIVERSION'	0.0008

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$19,602
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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