

USH 41: STH 15 TO STH 441 (OUTAGAMIE COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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		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	354	0.0	1500	354	0	0.46	0	65.7	60.6	44.1
1-2 AM	182	0.0	1500	182	0	0.44	0	66.1	61.0	44.8
2-3 AM	157	0.0	1500	157	0	0.44	0	66.1	61.1	44.8
3-4 AM	101	0.0	1500	101	0	0.43	0	66.2	61.2	45.1
4-5 AM	120	0.0	1500	120	0	0.43	0	66.1	61.2	45.0
5-6 AM	222	0.0	1500	222	0	0.44	0	66.0	60.9	44.6
6-7 AM	262	0.0	1500	262	0	0.45	0	65.9	60.8	44.5
7-8 AM	457	0.0	1500	457	0	0.47	0	65.5	60.3	43.7
8-9 AM	741	0.0	1500	741	0	0.49	0	65.0	59.6	42.6
9-10 AM	1096	0.0	OFF	1096	0	0.00	0	64.3	64.3	64.3
10-11 AM	1596	0.0	OFF	1596	0	0.00	0	63.4	63.4	63.4
11AM-NOON	1831	0.0	OFF	1831	0	0.00	0	63.0	63.0	63.0
NOON-1PM	2163	0.0	OFF	2163	0	0.00	0	62.3	62.3	62.3
1-2 PM	1989	0.0	OFF	1989	0	0.00	0	62.7	62.7	62.7
2-3 PM	1944	0.0	OFF	1944	0	0.00	0	62.8	62.8	62.8
3-4 PM	1862	0.0	OFF	1862	0	0.00	0	62.9	62.9	62.9
4-5 PM	1768	0.0	OFF	1768	0	0.00	0	63.1	63.1	63.1
5-6 PM	1553	0.0	OFF	1553	0	0.00	0	63.5	63.5	63.5
6-7 PM	1398	0.0	OFF	1398	0	0.00	0	63.8	63.8	63.8
7-8 PM	1157	0.0	1500	1157	0	0.58	0	64.2	58.1	39.9
8-9 PM	917	0.0	1500	917	0	0.51	0	64.6	59.2	42.0
9-10 PM	727	0.0	1500	727	0	0.49	0	65.0	59.6	42.7
10-11 PM	452	0.0	1500	452	0	0.47	0	65.5	60.4	43.7
11PM-MID	286	0.0	1500	286	0	0.45	0	65.8	60.7	44.3

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

----- 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

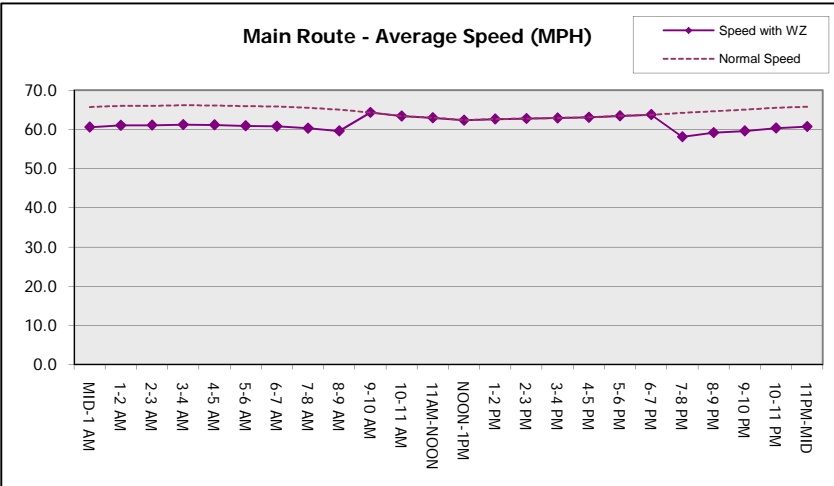
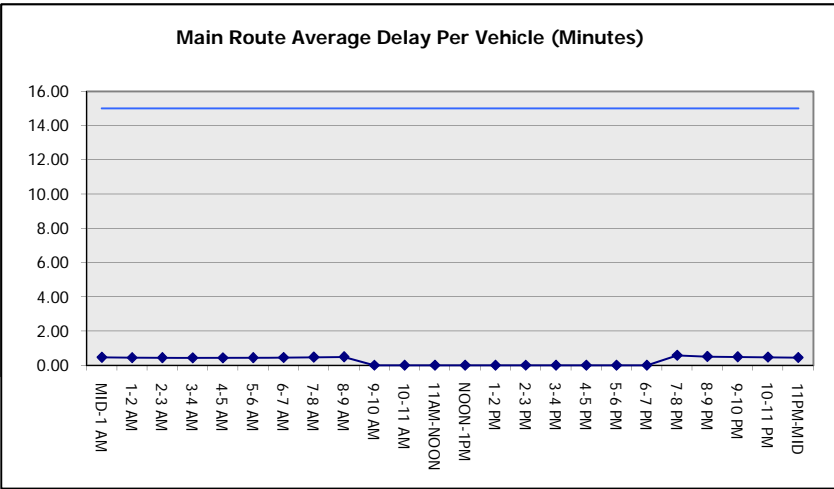
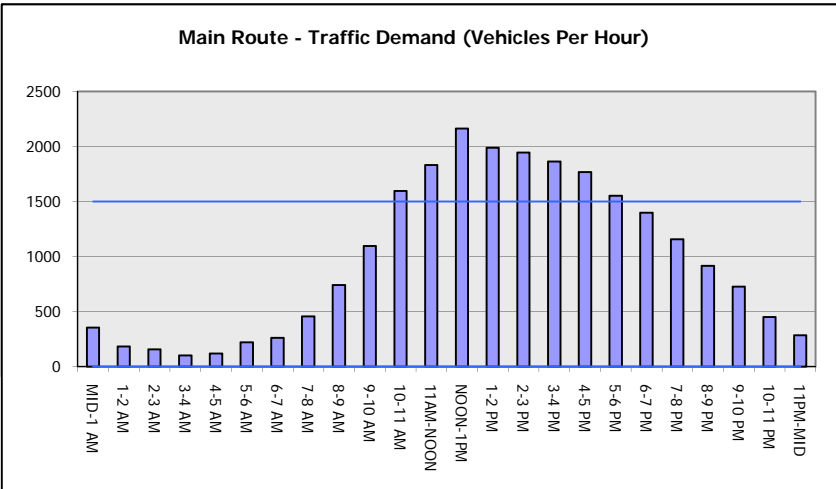
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0219
MAIN ROUTE WITH WORKS	0.0215
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$726
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	276	0.0	1500	276	0	0.45	0	65.9	60.8	44.4
1-2 AM	203	0.0	1500	203	0	0.44	0	66.0	61.0	44.6
2-3 AM	209	0.0	1500	209	0	0.44	0	66.0	61.0	44.6
3-4 AM	94	0.0	1500	94	0	0.43	0	66.2	61.3	45.1
4-5 AM	101	0.0	1500	101	0	0.43	0	66.2	61.2	45.1
5-6 AM	159	0.0	1500	159	0	0.44	0	66.1	61.1	44.8
6-7 AM	226	0.0	1500	226	0	0.44	0	66.0	60.9	44.6
7-8 AM	332	0.0	1500	332	0	0.45	0	65.8	60.7	44.2
8-9 AM	532	0.0	1500	532	0	0.47	0	65.4	60.1	43.4
9-10 AM	828	0.0	OFF	828	0	0.00	0	64.8	64.8	64.8
10-11 AM	1128	0.0	OFF	1128	0	0.00	0	64.3	64.3	64.3
11AM-NOON	1439	0.0	OFF	1439	0	0.00	0	63.7	63.7	63.7
NOON-1PM	1645	0.0	OFF	1645	0	0.00	0	63.3	63.3	63.3
1-2 PM	1604	0.0	OFF	1604	0	0.00	0	63.4	63.4	63.4
2-3 PM	1718	0.0	OFF	1718	0	0.00	0	63.2	63.2	63.2
3-4 PM	1852	0.0	OFF	1852	0	0.00	0	62.9	62.9	62.9
4-5 PM	1808	0.0	OFF	1808	0	0.00	0	63.0	63.0	63.0
5-6 PM	1613	0.0	OFF	1613	0	0.00	0	63.4	63.4	63.4
6-7 PM	1345	0.0	OFF	1345	0	0.00	0	63.9	63.9	63.9
7-8 PM	1191	0.0	1500	1191	0	0.62	0	64.1	57.6	38.8
8-9 PM	986	0.0	1500	986	0	0.52	0	64.5	59.0	41.7
9-10 PM	689	0.0	1500	689	0	0.49	0	65.1	59.7	42.8
10-11 PM	488	0.0	1500	488	0	0.47	0	65.5	60.2	43.5
11PM-MID	260	0.0	1500	260	0	0.45	0	65.9	60.9	44.5

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

----- 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	0.0195
MAIN ROUTE WITH WORKS	0.0191
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$691
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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