

USH 41: STH 15 TO STH 441 (OUTAGAMIE COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	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		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	314	0.0	1500	314	0	0.45	0	65.8	60.7	44.2
1-2 AM	191	0.0	1500	191	0	0.44	0	66.0	61.0	44.7
2-3 AM	148	0.0	1500	148	0	0.44	0	66.1	61.1	44.9
3-4 AM	139	0.0	1500	139	0	0.44	0	66.1	61.2	45.0
4-5 AM	211	0.0	1500	211	0	0.44	0	66.0	61.0	44.6
5-6 AM	338	0.0	1500	338	0	0.46	0	65.8	60.6	44.2
6-7 AM	542	0.0	1500	542	0	0.48	0	65.4	60.1	43.3
7-8 AM	1138	0.0	1499	1138	0	0.62	0	64.3	57.7	38.9
8-9 AM	1648	0.0	OFF	1648	0	0.00	0	63.3	63.3	63.3
9-10 AM	1704	0.0	OFF	1704	0	0.00	0	63.2	63.2	63.2
10-11 AM	1968	0.0	OFF	1968	0	0.00	0	62.7	62.7	62.7
11AM-NOON	1935	0.0	OFF	1935	0	0.00	0	62.8	62.8	62.8
NOON-1PM	1986	0.0	OFF	1986	0	0.00	0	62.7	62.7	62.7
1-2 PM	1829	0.0	OFF	1829	0	0.00	0	63.0	63.0	63.0
2-3 PM	1757	0.0	OFF	1757	0	0.00	0	63.1	63.1	63.1
3-4 PM	1729	0.0	OFF	1729	0	0.00	0	63.2	63.2	63.2
4-5 PM	1644	0.0	OFF	1644	0	0.00	0	63.3	63.3	63.3
5-6 PM	1558	0.0	OFF	1558	0	0.00	0	63.5	63.5	63.5
6-7 PM	1314	0.0	1500	1314	0	0.78	0	64.0	56.0	35.1
7-8 PM	1003	0.0	1500	1003	0	0.52	0	64.5	58.9	41.7
8-9 PM	852	0.0	1500	852	0	0.50	0	64.8	59.3	42.2
9-10 PM	761	0.0	1500	761	0	0.50	0	65.0	59.6	42.5
10-11 PM	576	0.0	1500	576	0	0.48	0	65.3	60.0	43.2
11PM-MID	428	0.0	1500	428	0	0.46	0	65.6	60.4	43.8

"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

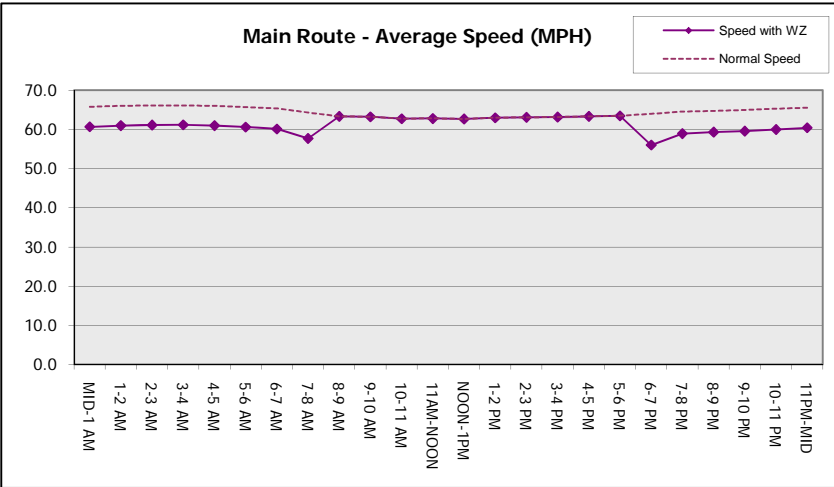
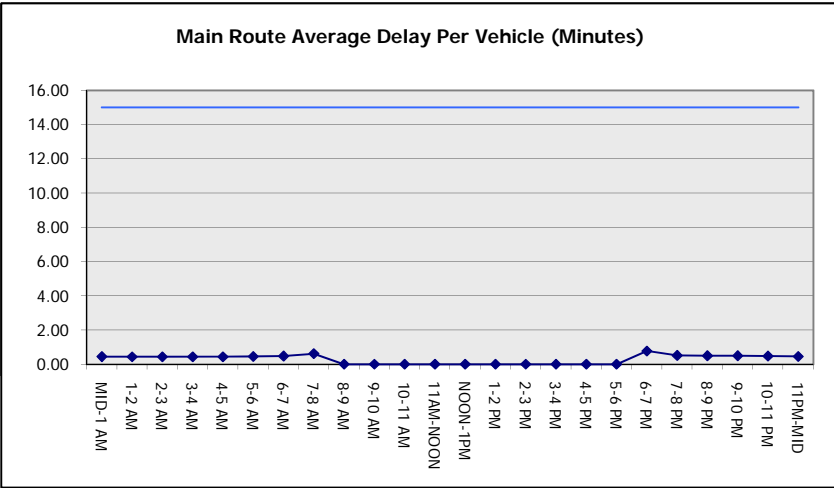
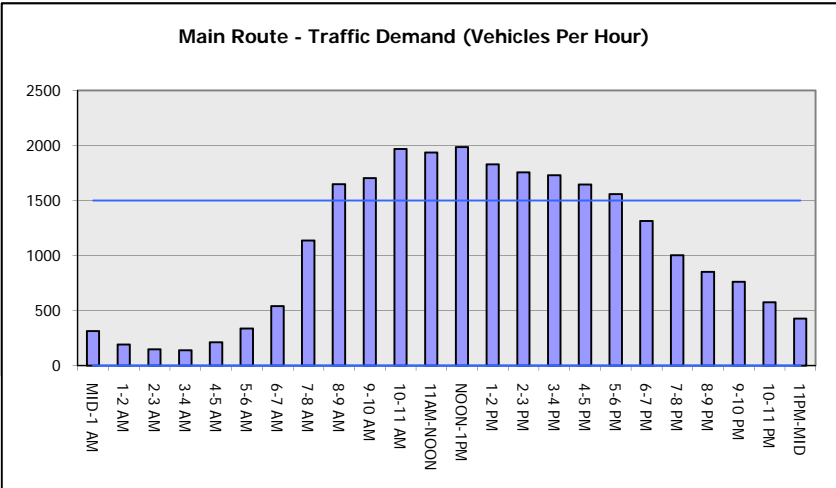
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0242
MAIN ROUTE WITH WORKS	0.0236
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,048
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	346	0.0	1500	346	0	0.46	0	65.8	60.6	44.1
1-2 AM	203	0.0	1500	203	0	0.44	0	66.0	61.0	44.6
2-3 AM	194	0.0	1500	194	0	0.44	0	66.0	61.0	44.7
3-4 AM	103	0.0	1500	103	0	0.43	0	66.2	61.2	45.1
4-5 AM	132	0.0	1500	132	0	0.44	0	66.1	61.2	45.0
5-6 AM	275	0.0	1500	275	0	0.45	0	65.9	60.8	44.4
6-7 AM	468	0.0	1500	468	0	0.47	0	65.5	60.3	43.7
7-8 AM	833	0.0	1500	833	0	0.50	0	64.8	59.4	42.3
8-9 AM	1118	0.0	OFF	1118	0	0.00	0	64.3	64.3	64.3
9-10 AM	1308	0.0	OFF	1308	0	0.00	0	64.0	64.0	64.0
10-11 AM	1735	0.0	OFF	1735	0	0.00	0	63.2	63.2	63.2
11AM-NOON	1908	0.0	OFF	1908	0	0.00	0	62.8	62.8	62.8
NOON-1PM	2072	0.0	OFF	2072	0	0.00	0	62.5	62.5	62.5
1-2 PM	1974	0.0	OFF	1974	0	0.00	0	62.7	62.7	62.7
2-3 PM	1905	0.0	OFF	1905	0	0.00	0	62.8	62.8	62.8
3-4 PM	1952	0.0	OFF	1952	0	0.00	0	62.7	62.7	62.7
4-5 PM	1937	0.0	OFF	1937	0	0.00	0	62.8	62.8	62.8
5-6 PM	1762	0.0	OFF	1762	0	0.00	0	63.1	63.1	63.1
6-7 PM	1485	0.0	1499	1485	0	1.43	12	63.6	50.6	31.5
7-8 PM	1165	0.0	1500	1165	0	0.59	0	64.2	58.0	39.6
8-9 PM	1071	0.0	1500	1071	0	0.53	0	64.4	58.7	41.4
9-10 PM	970	0.0	1500	970	0	0.52	0	64.6	59.0	41.8
10-11 PM	658	0.0	1500	658	0	0.49	0	65.1	59.8	42.9
11PM-MID	510	0.0	1500	510	0	0.47	0	65.5	60.2	43.5

"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	0.0245
MAIN ROUTE WITH WORKS	0.0239
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,346
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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