

USH 41: STH 15 TO STH 441 (OUTAGAMIE COUNTY) OFF-PEAK DAY 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	OFF	314	0	0.00	0	65.8	65.8	65.8
1-2 AM	191	0.0	OFF	191	0	0.00	0	66.0	66.0	66.0
2-3 AM	148	0.0	OFF	148	0	0.00	0	66.1	66.1	66.1
3-4 AM	139	0.0	OFF	139	0	0.00	0	66.1	66.1	66.1
4-5 AM	211	0.0	OFF	211	0	0.00	0	66.0	66.0	66.0
5-6 AM	338	0.0	OFF	338	0	0.00	0	65.8	65.8	65.8
6-7 AM	542	0.0	OFF	542	0	0.00	0	65.4	65.4	65.4
7-8 AM	1138	0.0	OFF	1138	0	0.00	0	64.3	64.3	64.3
8-9 AM	1648	0.0	1499	1648	0	2.87	56	63.3	41.8	30.8
9-10 AM	1704	0.0	1499	1704	0	9.62	239	63.2	23.3	30.8
10-11 AM	1968	0.0	1499	1500	468	15.78+	399	62.7	16.5	30.8
11AM-NOON	1935	0.0	1500	1500	435	15.78+	400	62.8	16.5	30.8
NOON-1PM	1986	0.0	1500	1500	486	15.77+	400	62.7	16.5	30.8
1-2 PM	1829	0.0	1500	1513	316	15.74+	398	63.0	16.6	30.8
2-3 PM	1757	0.0	1500	1505	252	15.79+	399	63.1	16.5	30.8
3-4 PM	1729	0.0	1500	1507	223	15.78+	399	63.2	16.6	30.8
4-5 PM	1644	0.0	1500	1510	134	15.78+	398	63.3	16.6	30.8
5-6 PM	1558	0.0	1500	1509	49	15.69+	395	63.5	16.6	30.8
6-7 PM	1314	0.0	OFF	1314	0	0.50	29	64.0	58.6	58.6
7-8 PM	1003	0.0	OFF	1003	0	0.00	0	64.5	64.5	64.5
8-9 PM	852	0.0	OFF	852	0	0.00	0	64.8	64.8	64.8
9-10 PM	761	0.0	OFF	761	0	0.00	0	65.0	65.0	65.0
10-11 PM	576	0.0	OFF	576	0	0.00	0	65.3	65.3	65.3
11PM-MID	428	0.0	OFF	428	0	0.00	0	65.6	65.6	65.6

"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

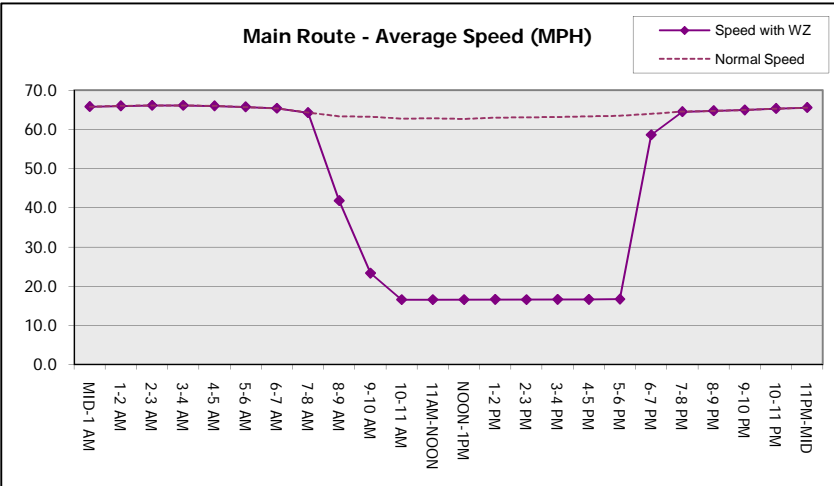
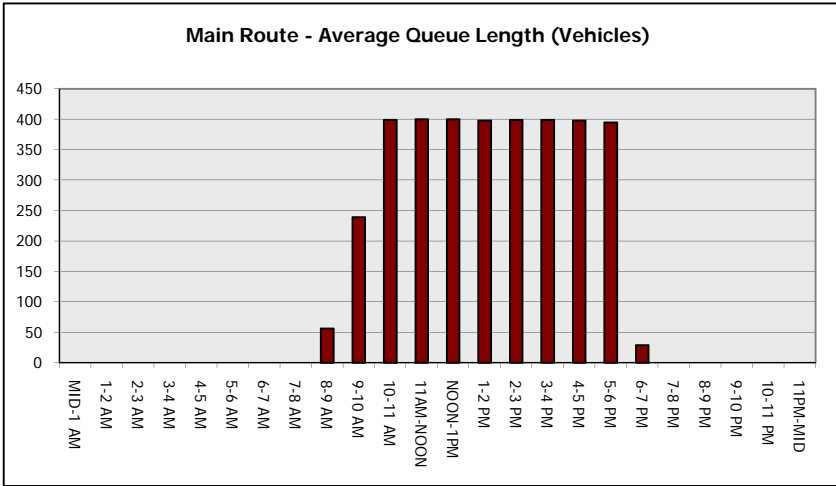
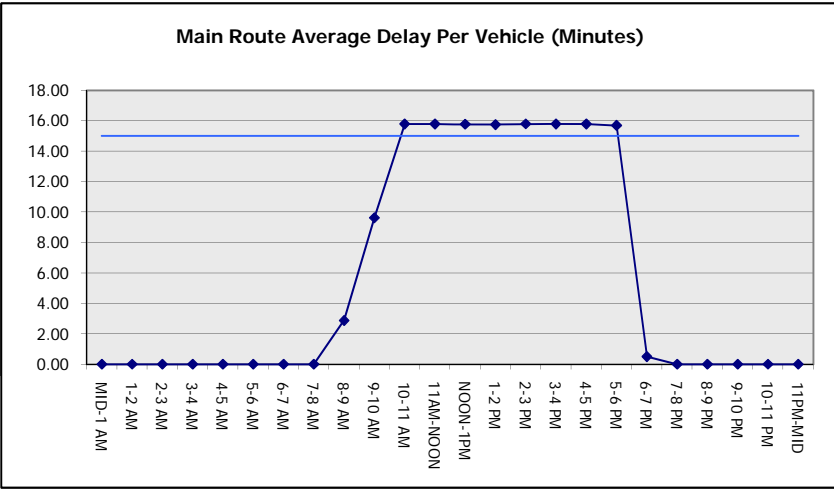
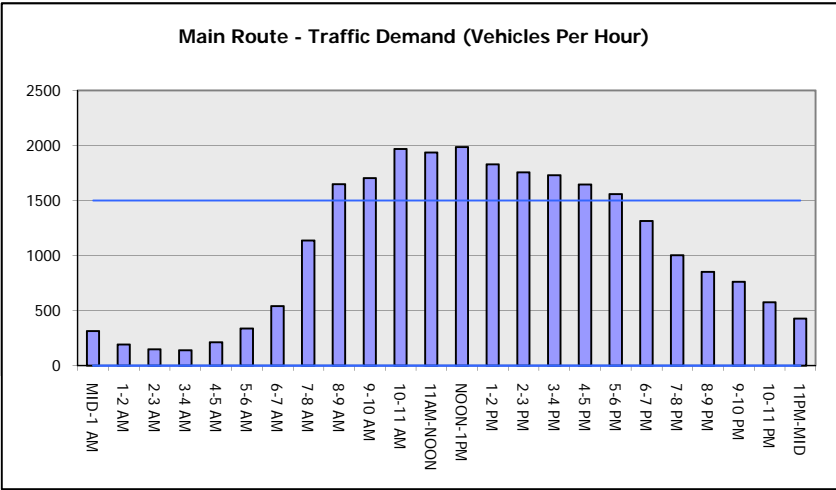
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0242
MAIN ROUTE WITH WORKS	0.0209
'DIVERSION'	0.0051
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$67,552
CONGESTED HOURS PER DAY*	8

*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	OFF	346	0	0.00	0	65.8	65.8	65.8
1-2 AM	203	0.0	OFF	203	0	0.00	0	66.0	66.0	66.0
2-3 AM	194	0.0	OFF	194	0	0.00	0	66.0	66.0	66.0
3-4 AM	103	0.0	OFF	103	0	0.00	0	66.2	66.2	66.2
4-5 AM	132	0.0	OFF	132	0	0.00	0	66.1	66.1	66.1
5-6 AM	275	0.0	OFF	275	0	0.00	0	65.9	65.9	65.9
6-7 AM	468	0.0	OFF	468	0	0.00	0	65.5	65.5	65.5
7-8 AM	833	0.0	OFF	833	0	0.00	0	64.8	64.8	64.8
8-9 AM	1118	0.0	1500	1118	0	0.53	0	64.3	58.6	41.3
9-10 AM	1308	0.0	1499	1308	0	0.77	0	64.0	56.1	35.4
10-11 AM	1735	0.0	1499	1735	0	4.18	99	63.2	36.1	30.8
11AM-NOON	1908	0.0	1500	1683	225	14.27+	363	62.8	17.8	30.8
NOON-1PM	2072	0.0	1500	1500	572	15.76+	400	62.5	16.5	30.8
1-2 PM	1974	0.0	1500	1500	474	15.77+	400	62.7	16.5	30.8
2-3 PM	1905	0.0	1500	1500	405	15.79+	400	62.8	16.5	30.8
3-4 PM	1952	0.0	1500	1500	452	15.78+	400	62.7	16.5	30.8
4-5 PM	1937	0.0	1500	1500	437	15.78+	400	62.8	16.5	30.8
5-6 PM	1762	0.0	1500	1500	262	15.81+	400	63.1	16.5	30.8
6-7 PM	1485	0.0	OFF	1485	0	0.59	34	63.6	57.5	57.5
7-8 PM	1165	0.0	OFF	1165	0	0.00	0	64.2	64.2	64.2
8-9 PM	1071	0.0	OFF	1071	0	0.00	0	64.4	64.4	64.4
9-10 PM	970	0.0	OFF	970	0	0.00	0	64.6	64.6	64.6
10-11 PM	658	0.0	OFF	658	0	0.00	0	65.1	65.1	65.1
11PM-MID	510	0.0	OFF	510	0	0.00	0	65.5	65.5	65.5

"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	0.0245
MAIN ROUTE WITH WORKS	0.0209
'DIVERSION'	0.0062

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$59,723
CONGESTED HOURS PER DAY*	7

*Delays Exceeding User-Specified Maximum

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