

USH 41: STH 15 TO STH 441 (OUTAGAMIE COUNTY) CONTINUOUS (24 HOUR) 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	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	1499	1314	0	12.72+	320	64.0	19.4	30.8
7-8 PM	1003	0.0	1500	1003	0	1.88	50	64.5	48.1	39.8
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

+ 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

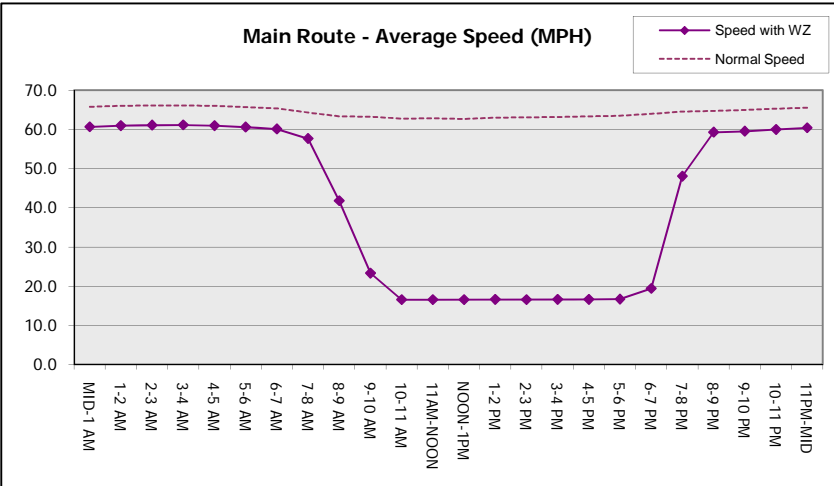
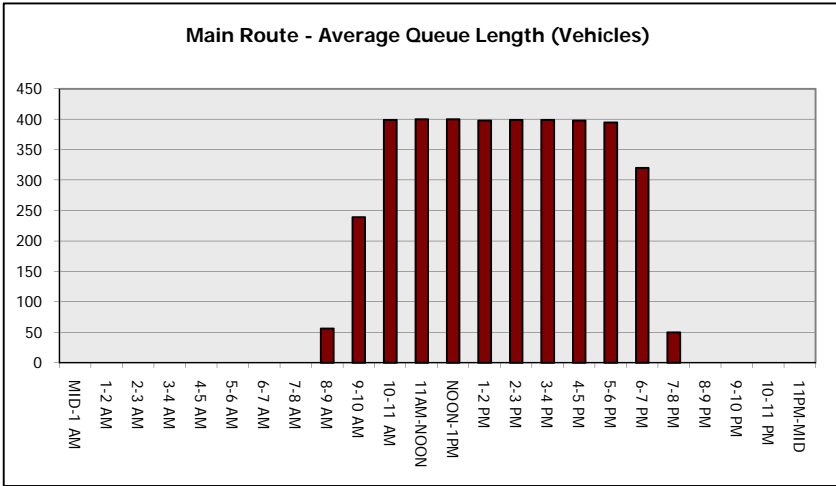
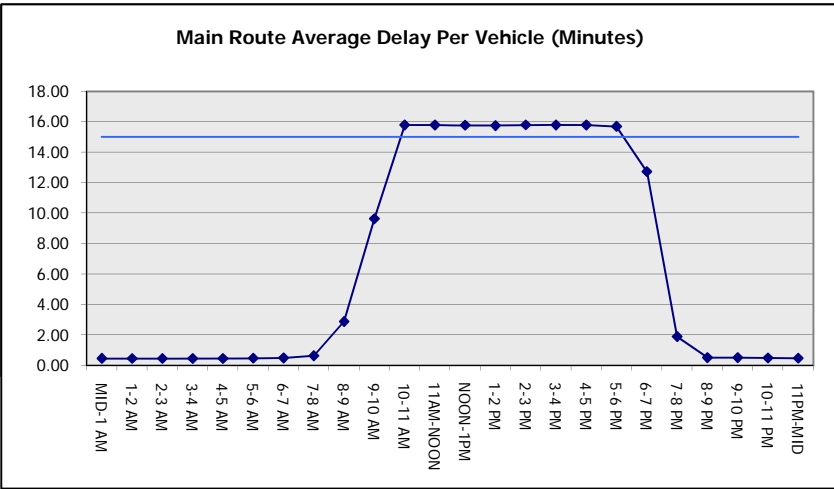
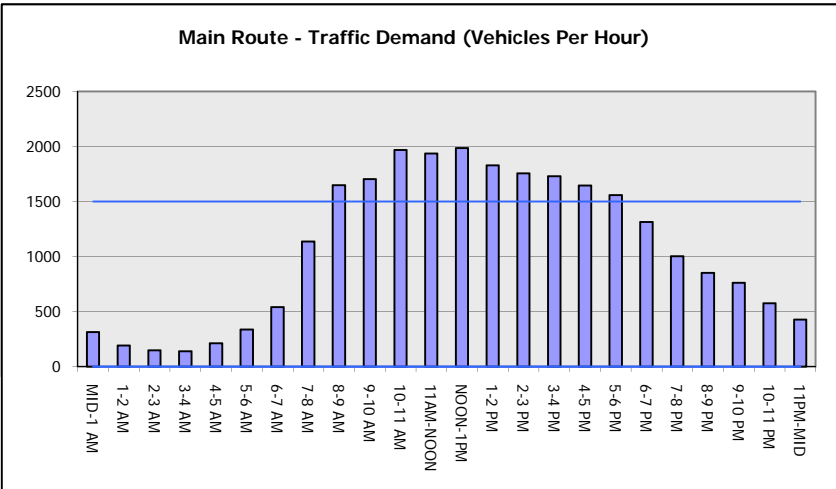
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0242
MAIN ROUTE WITH WORKS	0.0204
'DIVERSION'	0.0051
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$75,336
CONGESTED HOURS PER DAY*	9

*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	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	1499	1431	54	15.23+	383	63.6	17.0	30.8
7-8 PM	1165	0.0	1499	1165	0	7.18	195	64.2	27.9	33.4
8-9 PM	1071	0.0	1500	1071	0	0.54	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

+ 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	0.0203
'DIVERSION'	0.0063

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$70,674
CONGESTED HOURS PER DAY*	8

*Delays Exceeding User-Specified Maximum

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