

USH 41: STH 15 TO STH 125 (OUTAGAMIE COUNTY) OFF-PEAK DAY 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	334	0.0	OFF	334	0	0.00	0	70.2	70.2	70.2
1-2 AM	220	0.0	OFF	220	0	0.00	0	70.2	70.2	70.2
2-3 AM	204	0.0	OFF	204	0	0.00	0	70.2	70.2	70.2
3-4 AM	146	0.0	OFF	146	0	0.00	0	70.2	70.2	70.2
4-5 AM	200	0.0	OFF	200	0	0.00	0	70.2	70.2	70.2
5-6 AM	336	0.0	OFF	336	0	0.00	0	70.2	70.2	70.2
6-7 AM	517	0.0	OFF	517	0	0.00	0	70.1	70.1	70.1
7-8 AM	751	0.0	OFF	751	0	0.00	0	69.8	69.8	69.8
8-9 AM	1085	0.0	1500	1085	0	0.60	0	69.4	50.2	41.4
9-10 AM	1399	0.0	1499	1399	0	0.96	0	69.0	42.7	33.1
10-11 AM	1724	0.0	1499	1724	0	4.01	95	68.6	19.4	30.8
11AM-NOON	1917	0.0	1500	1691	226	14.92+	367	68.4	7.8	30.8
NOON-1PM	2007	0.0	1500	1500	507	16.98+	416	68.2	7.2	30.8
1-2 PM	2023	0.0	1500	1500	523	16.98+	416	68.2	7.2	30.8
2-3 PM	2008	0.0	1500	1500	508	16.98+	416	68.2	7.2	30.8
3-4 PM	1988	0.0	1500	1500	488	16.98+	416	68.2	7.2	30.8
4-5 PM	1954	0.0	1500	1500	454	16.98+	416	68.3	7.2	30.8
5-6 PM	1778	0.0	1500	1500	278	16.98+	415	68.5	7.2	30.8
6-7 PM	1452	0.0	OFF	1452	0	0.20	18	68.9	61.0	61.0
7-8 PM	1282	0.0	OFF	1282	0	0.00	0	69.1	69.1	69.1
8-9 PM	1197	0.0	OFF	1197	0	0.00	0	69.2	69.2	69.2
9-10 PM	1175	0.0	OFF	1175	0	0.00	0	69.3	69.3	69.3
10-11 PM	1246	0.0	OFF	1246	0	0.00	0	69.2	69.2	69.2
11PM-MID	1220	0.0	OFF	1220	0	0.00	0	69.2	69.2	69.2

"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

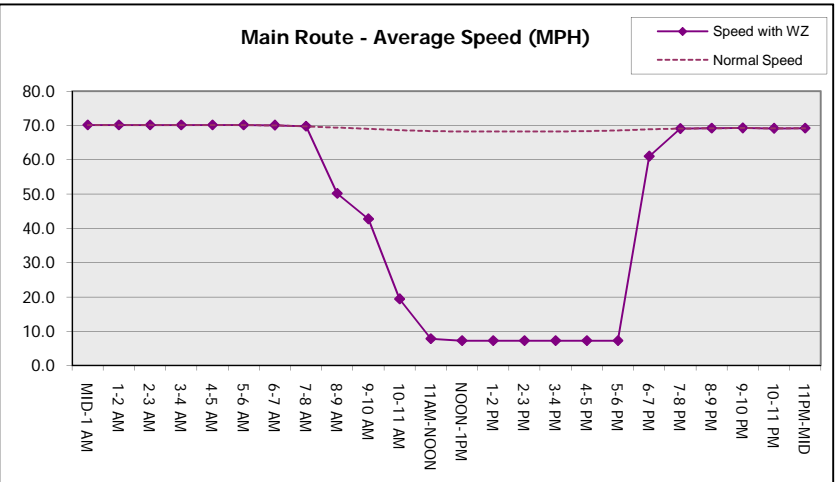
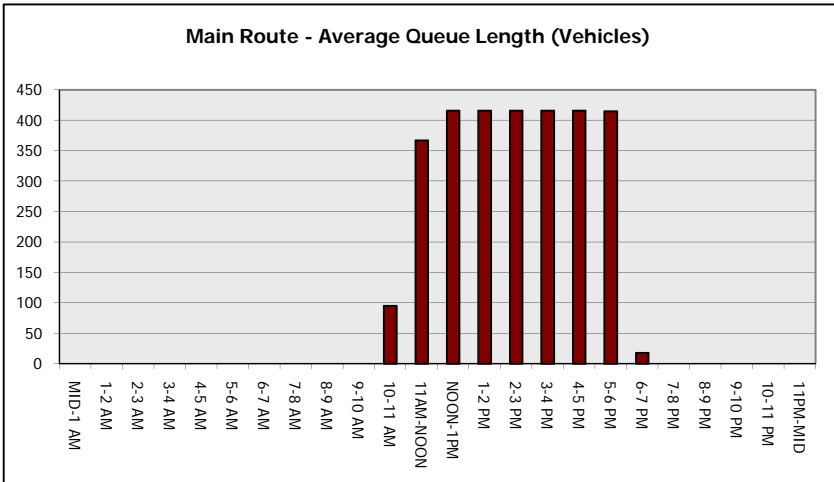
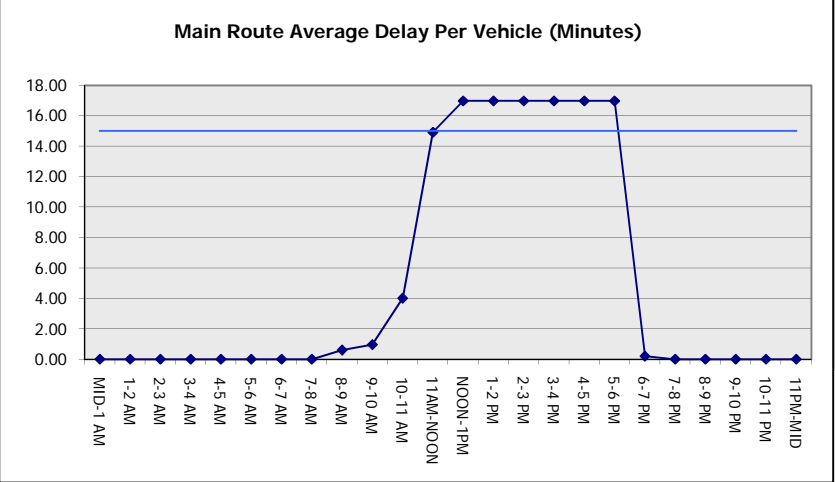
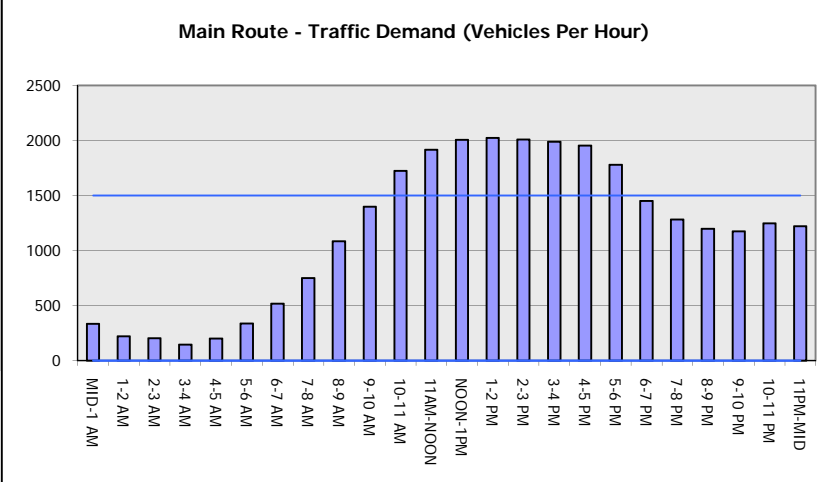
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0081
MAIN ROUTE WITH WORKS	0.0062
'DIVERSION'	0.0020
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$65,100
CONGESTED HOURS PER DAY*	7

*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	328	0.0	OFF	328	0	0.00	0	70.2	70.2	70.2
1-2 AM	201	0.0	OFF	201	0	0.00	0	70.2	70.2	70.2
2-3 AM	179	0.0	OFF	179	0	0.00	0	70.2	70.2	70.2
3-4 AM	138	0.0	OFF	138	0	0.00	0	70.2	70.2	70.2
4-5 AM	198	0.0	OFF	198	0	0.00	0	70.2	70.2	70.2
5-6 AM	276	0.0	OFF	276	0	0.00	0	70.2	70.2	70.2
6-7 AM	472	0.0	OFF	472	0	0.00	0	70.2	70.2	70.2
7-8 AM	783	0.0	OFF	783	0	0.00	0	69.7	69.7	69.7
8-9 AM	1195	0.0	1499	1195	0	0.71	0	69.2	47.6	38.4
9-10 AM	1598	0.0	1499	1598	0	1.80	25	68.7	32.1	30.9
10-11 AM	2034	0.0	1500	1770	264	12.10+	311	68.2	8.9	30.8
11AM-NOON	2238	0.0	1499	1504	734	16.99+	416	67.9	7.2	30.8
NOON-1PM	2317	0.0	1500	1504	813	16.99+	416	67.9	7.2	30.8
1-2 PM	2336	0.0	1500	1504	832	16.99+	416	67.8	7.2	30.8
2-3 PM	2342	0.0	1500	1503	839	16.99+	416	67.8	7.2	30.8
3-4 PM	2268	0.0	1500	1503	765	16.99+	416	67.9	7.2	30.8
4-5 PM	2142	0.0	1500	1503	640	16.99+	416	68.1	7.2	30.8
5-6 PM	1991	0.0	1500	1502	489	16.98+	416	68.2	7.2	30.8
6-7 PM	1460	0.0	OFF	1460	0	0.18	17	68.9	61.7	61.7
7-8 PM	1014	0.0	OFF	1014	0	0.00	0	69.5	69.5	69.5
8-9 PM	845	0.0	OFF	845	0	0.00	0	69.7	69.7	69.7
9-10 PM	702	0.0	OFF	702	0	0.00	0	69.9	69.9	69.9
10-11 PM	600	0.0	OFF	600	0	0.00	0	70.0	70.0	70.0
11PM-MID	437	0.0	OFF	437	0	0.00	0	70.2	70.2	70.2

"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	0.0081
MAIN ROUTE WITH WORKS	0.0055
'DIVERSION'	0.0036

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$80,659
CONGESTED HOURS PER DAY*	8

*Delays Exceeding User-Specified Maximum

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