

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

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	654	0.0	OFF	654	0	0.00	0	69.9	69.9	69.9	
1-2 AM	261	0.0	OFF	261	0	0.00	0	70.2	70.2	70.2	
2-3 AM	226	0.0	OFF	226	0	0.00	0	70.2	70.2	70.2	
3-4 AM	133	0.0	OFF	133	0	0.00	0	70.2	70.2	70.2	
4-5 AM	132	0.0	OFF	132	0	0.00	0	70.2	70.2	70.2	
5-6 AM	195	0.0	OFF	195	0	0.00	0	70.2	70.2	70.2	
6-7 AM	314	0.0	OFF	314	0	0.00	0	70.2	70.2	70.2	
7-8 AM	444	0.0	OFF	444	0	0.00	0	70.2	70.2	70.2	
8-9 AM	792	0.0	OFF	792	0	0.00	0	69.7	69.7	69.7	
9-10 AM	1175	0.0	1499	1175	0	0.70	0	69.3	47.8	38.7	
10-11 AM	1657	0.0	1499	1657	0	2.57	51	68.7	26.1	30.8	
11AM-NOON	2037	0.0	1500	1732	305	13.78+	344	68.2	8.1	30.8	
NOON-1PM	2260	0.0	1500	1503	758	16.99+	416	67.9	7.2	30.8	
1-2 PM	2310	0.0	1500	1502	808	16.99+	416	67.9	7.2	30.8	
2-3 PM	2389	0.0	1500	1502	887	16.99+	416	67.8	7.2	30.8	
3-4 PM	2500	0.0	1500	1504	996	17.00+	417	67.6	7.2	30.8	
4-5 PM	2332	0.0	1500	1502	830	16.99+	416	67.8	7.2	30.8	
5-6 PM	2124	0.0	1500	1501	622	16.99+	416	68.1	7.2	30.8	
6-7 PM	1733	0.0	1500	1501	232	16.98+	415	68.6	7.2	30.8	
7-8 PM	1389	0.0	OFF	1389	0	0.19	17	69.0	61.6	61.6	
8-9 PM	998	0.0	OFF	998	0	0.00	0	69.5	69.5	69.5	
9-10 PM	746	0.0	OFF	746	0	0.00	0	69.8	69.8	69.8	
10-11 PM	486	0.0	OFF	486	0	0.00	0	70.1	70.1	70.1	
11PM-MID	303	0.0	OFF	303	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

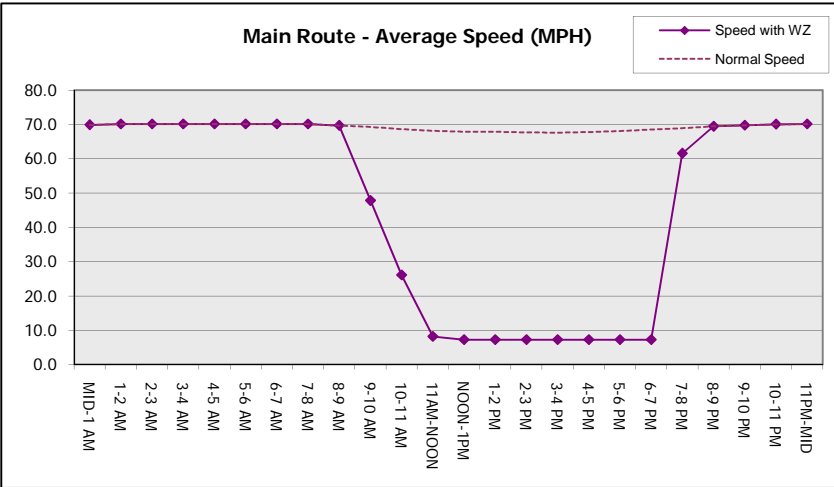
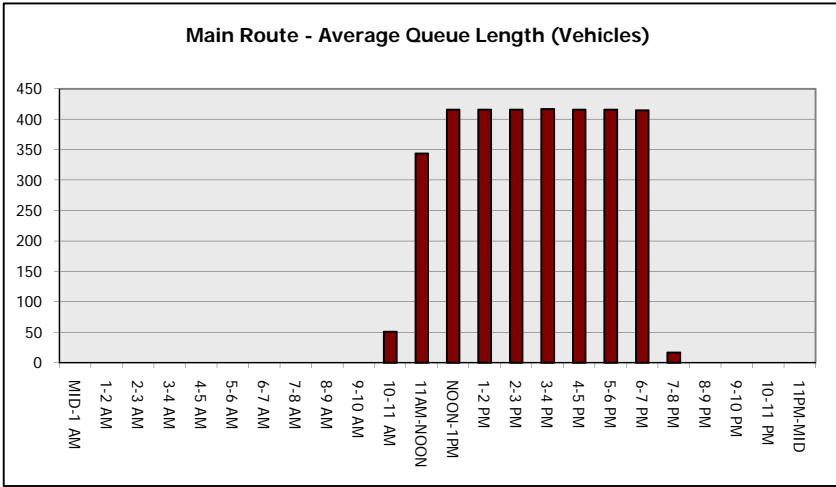
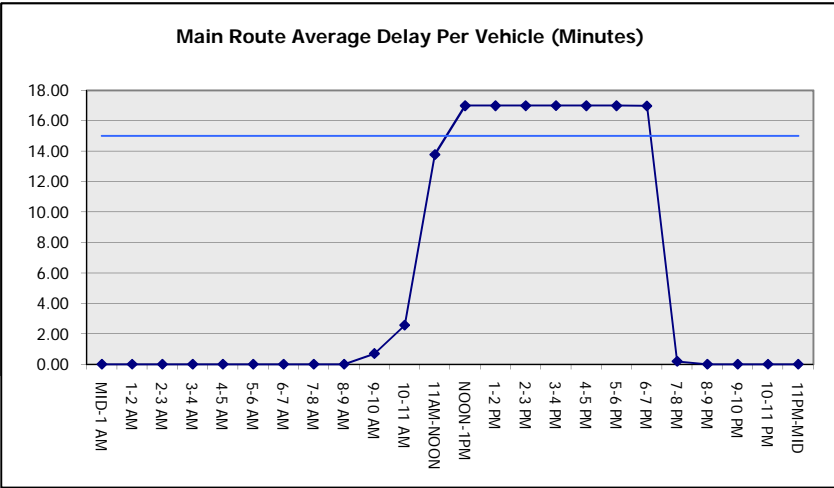
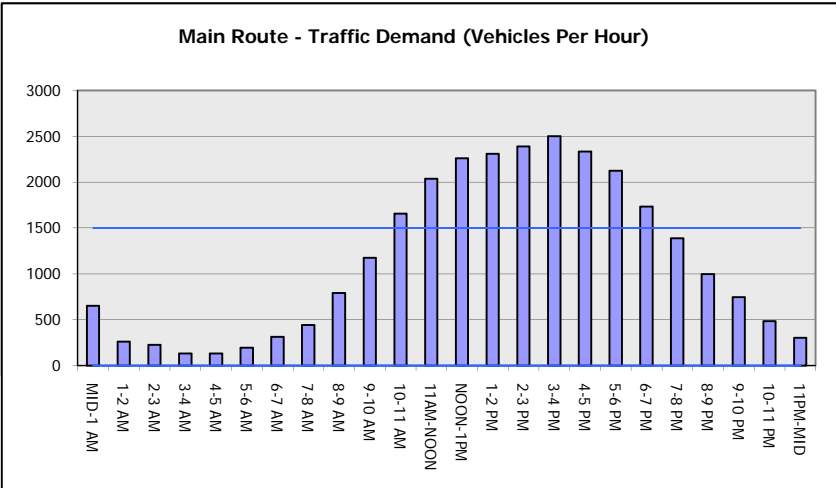
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0079
MAIN ROUTE WITH WORKS	0.0054
'DIVERSION'	0.0036
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$83,298
CONGESTED HOURS PER DAY*	8

*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	270	0.0	OFF	270	0	0.00	0	70.2	70.2	70.2	
1-2 AM	171	0.0	OFF	171	0	0.00	0	70.2	70.2	70.2	
2-3 AM	146	0.0	OFF	146	0	0.00	0	70.2	70.2	70.2	
3-4 AM	89	0.0	OFF	89	0	0.00	0	70.2	70.2	70.2	
4-5 AM	89	0.0	OFF	89	0	0.00	0	70.2	70.2	70.2	
5-6 AM	174	0.0	OFF	174	0	0.00	0	70.2	70.2	70.2	
6-7 AM	248	0.0	OFF	248	0	0.00	0	70.2	70.2	70.2	
7-8 AM	363	0.0	OFF	363	0	0.00	0	70.2	70.2	70.2	
8-9 AM	545	0.0	OFF	545	0	0.00	0	70.0	70.0	70.0	
9-10 AM	987	0.0	1499	987	0	0.59	0	69.5	50.5	41.7	
10-11 AM	1520	0.0	1499	1520	0	1.51	16	68.9	35.1	31.7	
11AM-NOON	1854	0.0	1500	1854	0	8.74	226	68.4	11.1	30.8	
NOON-1PM	2003	0.0	1499	1500	503	16.98+	416	68.2	7.2	30.8	
1-2 PM	1918	0.0	1500	1500	418	16.98+	416	68.4	7.2	30.8	
2-3 PM	1859	0.0	1500	1500	359	16.98+	416	68.4	7.2	30.8	
3-4 PM	1752	0.0	1500	1500	252	16.98+	415	68.6	7.2	30.8	
4-5 PM	1682	0.0	1499	1500	182	16.98+	415	68.6	7.2	30.8	
5-6 PM	1496	0.0	1500	1474	22	16.75+	409	68.9	7.3	30.8	
6-7 PM	1296	0.0	1499	1296	0	12.49	304	69.1	8.6	30.8	
7-8 PM	995	0.0	OFF	995	0	0.04	3	69.5	67.8	67.8	
8-9 PM	879	0.0	OFF	879	0	0.00	0	69.6	69.6	69.6	
9-10 PM	673	0.0	OFF	673	0	0.00	0	69.9	69.9	69.9	
10-11 PM	457	0.0	OFF	457	0	0.00	0	70.2	70.2	70.2	
11PM-MID	270	0.0	OFF	270	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	0.0062
MAIN ROUTE WITH WORKS	0.0048
'DIVERSION'	0.0012

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$60,347
CONGESTED HOURS PER DAY*	6

*Delays Exceeding User-Specified Maximum

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