

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

MON-THUR 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	144	0.0	1500	144	0	0.44	0	66.1	61.1	44.9	
1-2 AM	110	0.0	1500	110	0	0.43	0	66.2	61.2	45.0	
2-3 AM	114	0.0	1500	114	0	0.43	0	66.2	61.2	45.0	
3-4 AM	148	0.0	1500	148	0	0.44	0	66.1	61.1	44.9	
4-5 AM	386	0.0	1500	386	0	0.46	0	65.6	60.5	44.0	
5-6 AM	1196	0.0	1499	1196	0	0.73	0	64.1	56.7	36.8	
6-7 AM	2452	0.0	1499	1813	639	9.93+	278	61.4	22.5	31.5	
7-8 AM	3808	0.0	1500	1500	2308	13.88+	400	47.5	16.6	32.2	
8-9 AM	2120	0.0	1500	1600	521	15.30+	389	62.4	16.9	31.5	
9-10 AM	1702	0.0	1500	1500	202	15.82+	400	63.2	16.5	30.8	
10-11 AM	1673	0.0	1500	1500	173	15.82+	400	63.3	16.5	30.8	
11AM-NOON	1763	0.0	1500	1500	263	15.81+	400	63.1	16.5	30.8	
NOON-1PM	1852	0.0	1500	1500	352	15.79+	400	62.9	16.5	30.8	
1-2 PM	1944	0.0	1500	1500	444	15.78+	400	62.8	16.5	30.8	
2-3 PM	1974	0.0	1500	1500	474	15.77+	400	62.7	16.5	30.8	
3-4 PM	2453	0.0	1500	1500	953	15.65+	400	61.4	16.5	30.8	
4-5 PM	2805	0.0	1500	1500	1305	15.29+	400	57.8	16.5	30.8	
5-6 PM	2708	0.0	1500	1500	1208	15.39+	400	58.7	16.5	30.8	
6-7 PM	1728	0.0	1500	1481	247	15.73+	397	63.2	16.6	30.8	
7-8 PM	1106	0.0	1499	1106	0	7.65	220	64.3	26.9	34.7	
8-9 PM	957	0.0	1500	957	0	0.51	0	64.6	59.1	41.9	
9-10 PM	715	0.0	1500	715	0	0.49	0	65.1	59.7	42.7	
10-11 PM	458	0.0	1500	458	0	0.47	0	65.5	60.3	43.7	
11PM-MID	252	0.0	1500	252	0	0.45	0	65.9	60.9	44.5	

+ 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

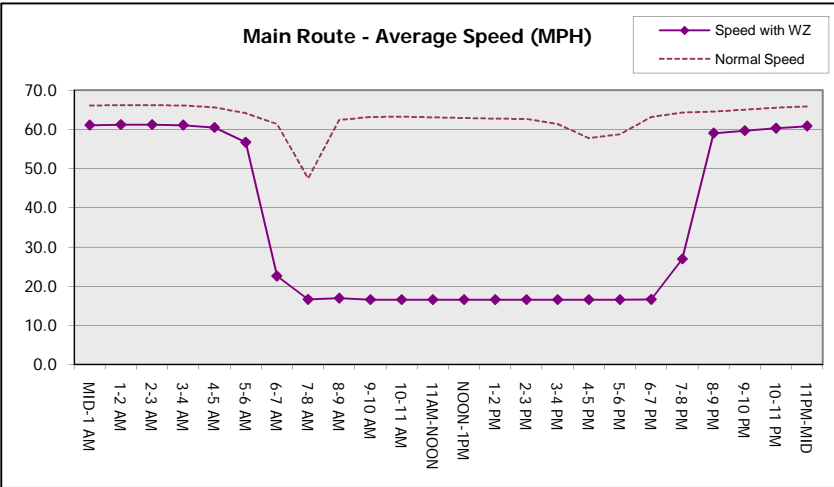
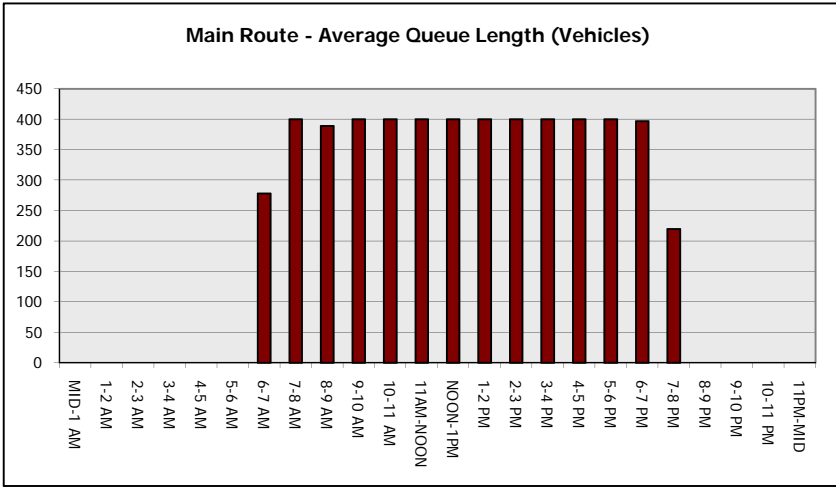
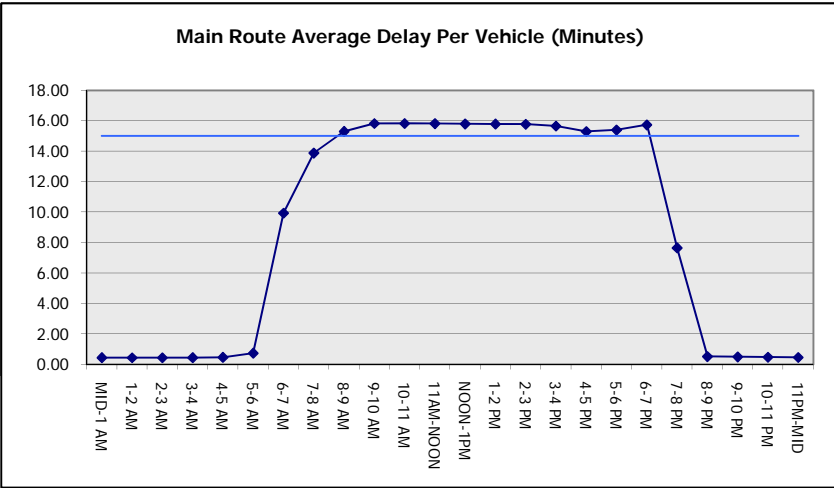
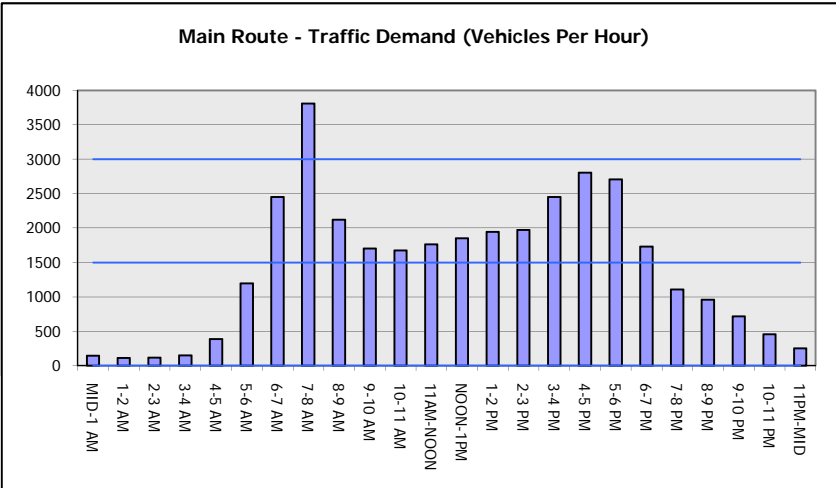
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0325
MAIN ROUTE WITH WORKS	0.0223
'DIVERSION'	0.0198
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$96,795
CONGESTED HOURS PER DAY*	13

*Delays Exceeding User-Specified Maximum

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Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	195	0.0	1500	195	0	0.44	0	66.0	61.0	44.7	
1-2 AM	122	0.0	1500	122	0	0.43	0	66.1	61.2	45.0	
2-3 AM	130	0.0	1500	130	0	0.44	0	66.1	61.2	45.0	
3-4 AM	109	0.0	1500	109	0	0.43	0	66.2	61.2	45.0	
4-5 AM	266	0.0	1500	266	0	0.45	0	65.9	60.8	44.4	
5-6 AM	740	0.0	1500	740	0	0.49	0	65.0	59.6	42.6	
6-7 AM	1605	0.0	1499	1605	0	2.10	39	63.4	46.1	31.9	
7-8 AM	2412	0.0	1500	1717	694	14.04+	367	61.8	17.9	33.2	
8-9 AM	1767	0.0	1499	1513	255	15.75+	398	63.1	16.6	30.8	
9-10 AM	1515	0.0	1500	1508	7	15.73+	396	63.6	16.6	30.8	
10-11 AM	1600	0.0	1499	1500	100	15.84+	399	63.4	16.5	30.8	
11AM-NOON	1744	0.0	1500	1500	244	15.81+	400	63.2	16.5	30.8	
NOON-1PM	1833	0.0	1500	1500	333	15.80+	400	63.0	16.5	30.8	
1-2 PM	1927	0.0	1500	1500	427	15.78+	400	62.8	16.5	30.8	
2-3 PM	2405	0.0	1500	1500	905	15.70+	400	61.9	16.5	30.8	
3-4 PM	3108	0.0	1500	1500	1608	14.94+	400	54.6	16.5	30.8	
4-5 PM	3713	0.0	1500	1500	2213	14.11+	400	48.4	16.5	30.8	
5-6 PM	3195	0.0	1500	1500	1695	14.84+	400	53.8	16.5	30.8	
6-7 PM	1973	0.0	1500	1500	473	15.77+	400	62.7	16.5	30.8	
7-8 PM	1394	0.0	1500	1394	0	14.41+	362	63.8	17.8	30.8	
8-9 PM	1302	0.0	1500	1302	0	8.15	201	64.0	25.9	31.4	
9-10 PM	1026	0.0	1500	1026	0	0.85	10	64.5	55.8	41.0	
10-11 PM	571	0.0	1500	571	0	0.48	0	65.3	60.1	43.2	
11PM-MID	306	0.0	1500	306	0	0.45	0	65.8	60.7	44.3	

+ 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	0.0328
MAIN ROUTE WITH WORKS	0.0227
'DIVERSION'	0.0195

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$98,107
CONGESTED HOURS PER DAY*	13

*Delays Exceeding User-Specified Maximum

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