

USH 41: STH 441 TO STH 55 (OUTAGMIE AND BROWN COUNTIES) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	214	0.0	1500	214	0	0.44	0	66.0	59.1	44.6	
1-2 AM	136	0.0	1500	136	0	0.44	0	66.1	59.4	45.0	
2-3 AM	115	0.0	1500	115	0	0.43	0	66.2	59.4	45.0	
3-4 AM	175	0.0	1500	175	0	0.44	0	66.1	59.2	44.8	
4-5 AM	366	0.0	1500	366	0	0.46	0	65.7	58.7	44.0	
5-6 AM	1016	0.0	1499	1016	0	0.58	0	64.5	56.2	40.2	
6-7 AM	1941	0.0	1499	1941	0	5.61	167	62.8	26.1	30.8	
7-8 AM	2719	0.0	1499	1500	1219	15.52+	399	58.6	12.7	30.8	
8-9 AM	1853	0.0	1500	1460	393	15.65+	395	62.9	12.8	30.8	
9-10 AM	1557	0.0	1499	1500	57	15.85+	399	63.5	12.7	30.8	
10-11 AM	1606	0.0	1500	1500	106	15.84+	400	63.4	12.7	30.8	
11AM-NOON	1655	0.0	1500	1500	155	15.83+	400	63.3	12.7	30.8	
NOON-1PM	1786	0.0	1500	1500	286	15.82+	400	63.0	12.7	30.8	
1-2 PM	1860	0.0	1500	1500	360	15.81+	400	62.9	12.7	30.8	
2-3 PM	1928	0.0	1500	1500	428	15.80+	400	62.8	12.7	30.8	
3-4 PM	2149	0.0	1500	1500	649	15.78+	400	62.4	12.7	30.8	
4-5 PM	2580	0.0	1500	1500	1080	15.62+	400	60.1	12.7	30.8	
5-6 PM	2573	0.0	1500	1500	1073	15.63+	400	60.1	12.7	30.8	
6-7 PM	1566	0.0	1500	1432	134	15.20+	383	63.5	13.2	30.8	
7-8 PM	955	0.0	1499	955	0	3.11	118	64.6	36.0	38.5	
8-9 PM	847	0.0	1500	847	0	0.50	0	64.8	57.4	42.2	
9-10 PM	718	0.0	1500	718	0	0.49	0	65.0	57.7	42.7	
10-11 PM	573	0.0	1500	573	0	0.48	0	65.3	58.1	43.2	
11PM-MID	428	0.0	1500	428	0	0.46	0	65.6	58.5	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	0.0209
MAIN ROUTE WITH WORKS	0.0153
'DIVERSION'	0.0092
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$85,827
CONGESTED HOURS PER DAY*	12

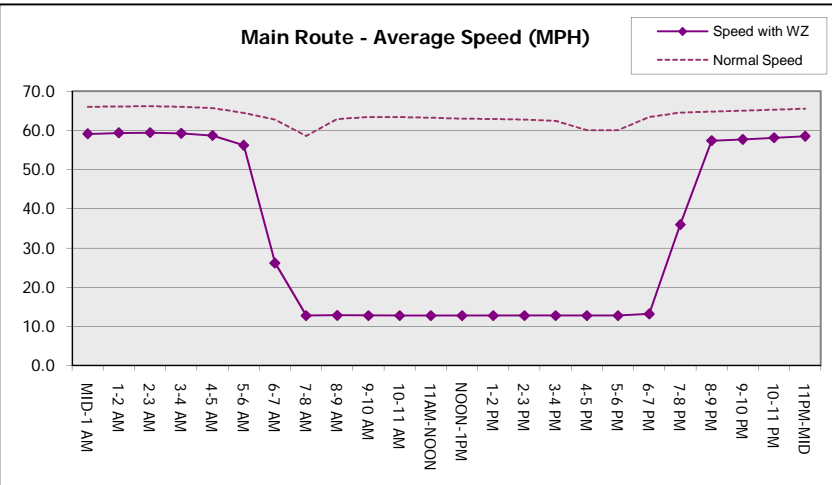
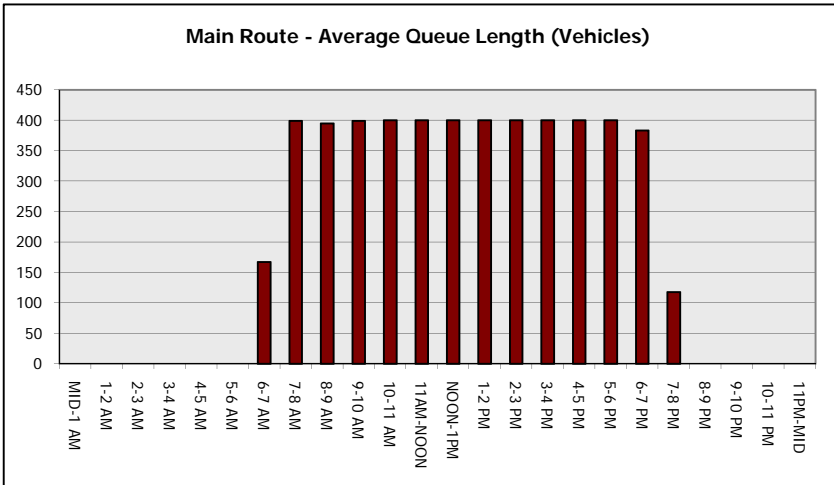
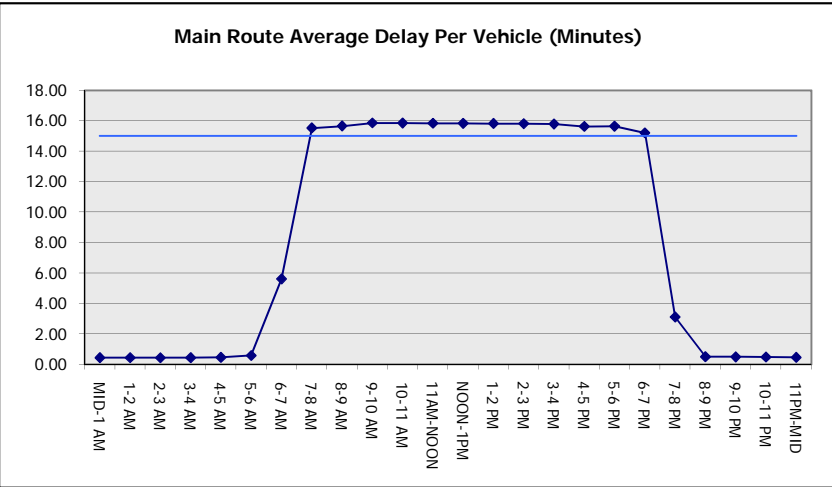
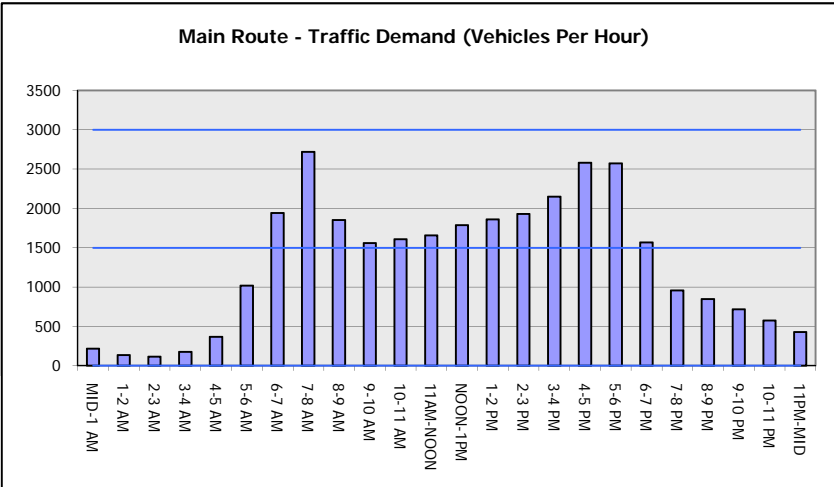
*Delays Exceeding User-Specified Maximum

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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	242	0.0	1500	242	0	0.45	0	66.0	59.1	44.5
1-2 AM	208	0.0	1500	208	0	0.44	0	66.0	59.1	44.6
2-3 AM	183	0.0	1500	183	0	0.44	0	66.1	59.2	44.8
3-4 AM	147	0.0	1500	147	0	0.44	0	66.1	59.3	44.9
4-5 AM	303	0.0	1500	303	0	0.45	0	65.8	58.9	44.3
5-6 AM	828	0.0	1500	828	0	0.50	0	64.8	57.4	42.3
6-7 AM	1643	0.0	1499	1643	0	2.12	40	63.3	41.3	31.2
7-8 AM	2272	0.0	1500	1696	576	13.94+	364	62.2	14.0	33.1
8-9 AM	1652	0.0	1499	1547	105	15.62+	394	63.3	12.9	30.8
9-10 AM	1472	0.0	1499	1466	6	15.47+	389	63.7	13.0	30.8
10-11 AM	1507	0.0	1500	1507	0	14.72+	369	63.6	13.5	30.8
11AM-NOON	1613	0.0	1499	1523	90	15.73+	397	63.4	12.8	30.8
NOON-1PM	1698	0.0	1500	1500	198	15.83+	400	63.2	12.7	30.8
1-2 PM	1791	0.0	1500	1500	291	15.82+	400	63.0	12.7	30.8
2-3 PM	2091	0.0	1500	1500	591	15.78+	400	62.5	12.7	30.8
3-4 PM	2361	0.0	1500	1500	861	15.75+	400	62.0	12.7	30.8
4-5 PM	2798	0.0	1500	1500	1298	15.46+	400	57.8	12.7	30.8
5-6 PM	2492	0.0	1500	1500	992	15.68+	400	61.0	12.7	30.8
6-7 PM	1549	0.0	1500	1437	112	15.24+	384	63.5	13.1	30.8
7-8 PM	1090	0.0	1499	1090	0	4.60	154	64.3	29.6	36.1
8-9 PM	1019	0.0	1500	1019	0	0.52	0	64.5	56.9	41.6
9-10 PM	849	0.0	1500	849	0	0.50	0	64.8	57.4	42.2
10-11 PM	613	0.0	1500	613	0	0.48	0	65.3	58.0	43.1
11PM-MID	390	0.0	1500	390	0	0.46	0	65.6	58.6	43.9

+ 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	0.0206
MAIN ROUTE WITH WORKS	0.0155
'DIVERSION'	0.0079

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$81,414
CONGESTED HOURS PER DAY*	12

*Delays Exceeding User-Specified Maximum

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