

STH 441: USH 10 TO CTH CE (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	93	0.0	1500	93	0	0.43	0	66.2	58.7	45.1	
1-2 AM	59	0.0	1500	59	0	0.43	0	66.3	58.7	45.3	
2-3 AM	60	0.0	1500	60	0	0.43	0	66.3	58.7	45.3	
3-4 AM	99	0.0	1500	99	0	0.43	0	66.2	58.6	45.1	
4-5 AM	269	0.0	1500	269	0	0.45	0	65.9	58.1	44.4	
5-6 AM	833	0.0	1500	833	0	0.50	0	64.8	56.5	42.3	
6-7 AM	1626	0.0	1499	1626	0	2.04	38	63.3	40.1	31.4	
7-8 AM	2278	0.0	1500	1685	594	13.85+	363	62.2	12.7	33.5	
8-9 AM	1384	0.0	1499	1384	0	12.72	318	63.8	13.7	30.8	
9-10 AM	1029	0.0	1499	1029	0	1.88	57	64.5	41.7	39.3	
10-11 AM	1024	0.0	1500	1024	0	0.52	0	64.5	56.0	41.6	
11AM-NOON	1079	0.0	1500	1079	0	0.53	0	64.4	55.8	41.4	
NOON-1PM	1175	0.0	1500	1175	0	0.60	0	64.2	54.6	39.3	
1-2 PM	1235	0.0	1500	1235	0	0.68	0	64.1	53.5	37.4	
2-3 PM	1326	0.0	1499	1326	0	0.80	0	63.9	52.0	34.8	
3-4 PM	1497	0.0	1499	1497	0	1.18	5	63.6	47.5	31.3	
4-5 PM	1699	0.0	1500	1699	0	4.98	118	63.2	26.1	30.8	
5-6 PM	1586	0.0	1499	1586	0	11.42	282	63.4	14.8	30.8	
6-7 PM	1091	0.0	1499	1091	0	3.98	138	64.3	29.9	36.4	
7-8 PM	740	0.0	1500	740	0	0.49	0	65.0	56.8	42.6	
8-9 PM	611	0.0	1500	611	0	0.48	0	65.3	57.1	43.1	
9-10 PM	518	0.0	1500	518	0	0.47	0	65.4	57.4	43.4	
10-11 PM	342	0.0	1500	342	0	0.46	0	65.8	57.9	44.1	
11PM-MID	200	0.0	1500	200	0	0.44	0	66.0	58.3	44.7	

+ 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

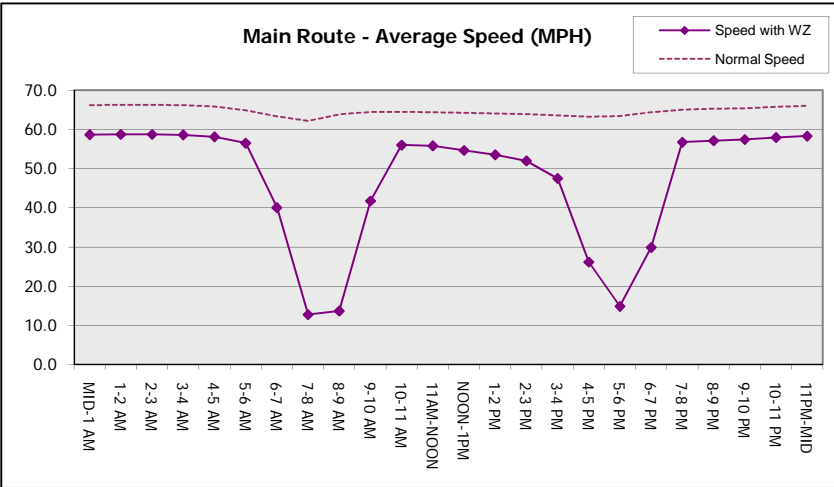
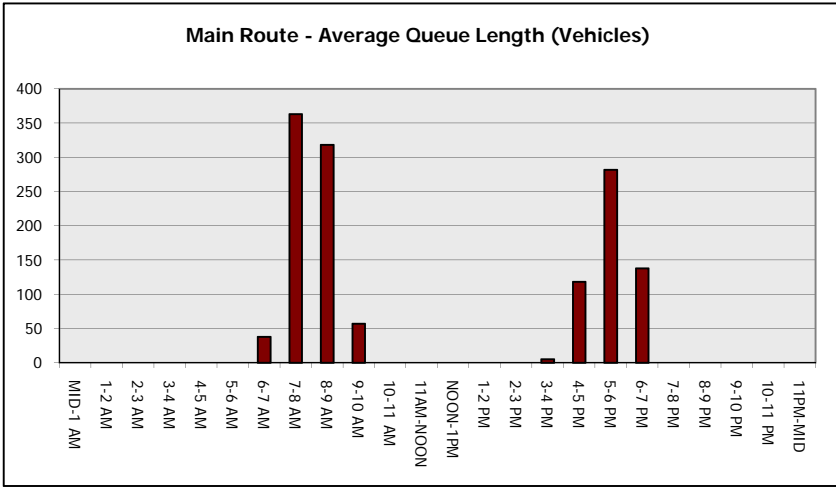
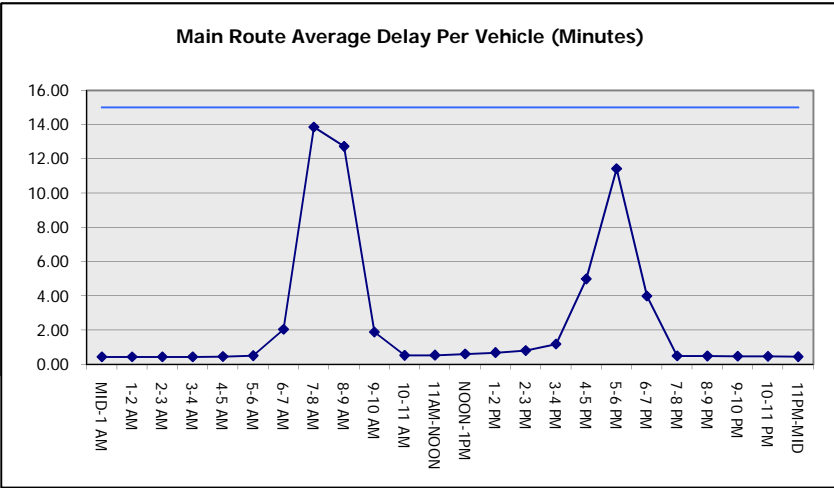
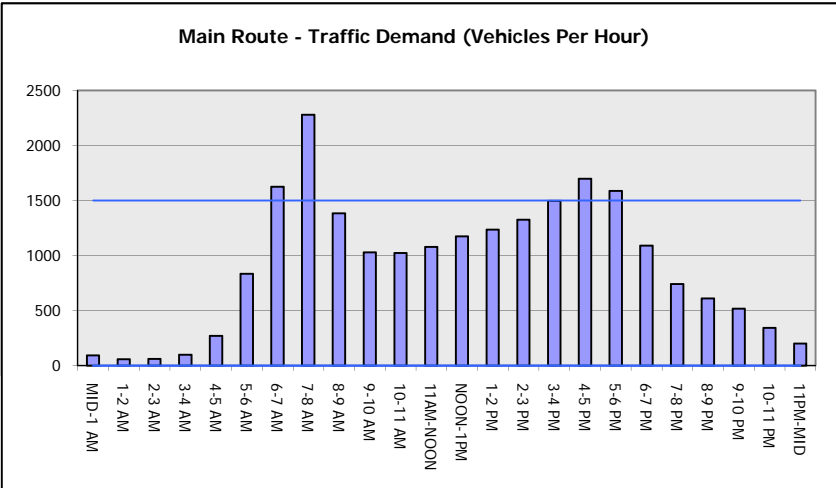
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0129
MAIN ROUTE WITH WORKS	0.0111
'DIVERSION'	0.0008
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$20,419
CONGESTED HOURS PER DAY*	1

*Delays Exceeding User-Specified Maximum

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



STH 441: USH 10 TO CTH CE (OUTAGAMIE COUNTY) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
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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	173	0.0	1500	173	0	0.44	0	66.1	58.4	44.8
1-2 AM	108	0.0	1500	108	0	0.43	0	66.2	58.6	45.1
2-3 AM	86	0.0	1500	86	0	0.43	0	66.2	58.7	45.1
3-4 AM	63	0.0	1500	63	0	0.43	0	66.3	58.7	45.3
4-5 AM	127	0.0	1500	127	0	0.43	0	66.1	58.6	45.0
5-6 AM	462	0.0	1500	462	0	0.47	0	65.5	57.6	43.7
6-7 AM	1288	0.0	1499	1288	0	0.75	0	64.0	52.7	36.3
7-8 AM	1969	0.0	1499	1969	0	8.04+	230	62.7	19.2	30.8
8-9 AM	1410	0.0	1499	1267	144	13.02+	329	63.8	13.4	30.8
9-10 AM	1125	0.0	1499	1125	0	2.50	80	64.3	37.3	37.5
10-11 AM	1147	0.0	1500	1147	0	0.57	0	64.3	55.1	40.2
11AM-NOON	1283	0.0	1500	1283	0	0.74	0	64.0	52.7	36.0
NOON-1PM	1357	0.0	1500	1357	0	0.84	0	63.8	51.4	34.0
1-2 PM	1408	0.0	1499	1408	0	0.90	0	63.8	50.6	32.9
2-3 PM	1926	0.0	1499	1926	0	6.39	184	62.8	22.4	30.8
3-4 PM	2321	0.0	1499	1500	821	15.77+	399	62.0	11.5	30.8
4-5 PM	2789	0.0	1500	1500	1289	15.51+	400	57.9	11.5	30.8
5-6 PM	2446	0.0	1500	1500	946	15.73+	400	61.4	11.5	30.8
6-7 PM	1559	0.0	1499	1425	133	15.53+	391	63.5	11.7	30.8
7-8 PM	1068	0.0	1499	1068	0	4.57	161	64.4	27.6	36.4
8-9 PM	908	0.0	1500	908	0	0.51	0	64.7	56.3	42.0
9-10 PM	733	0.0	1500	733	0	0.49	0	65.0	56.8	42.7
10-11 PM	596	0.0	1500	596	0	0.48	0	65.3	57.2	43.2
11PM-MID	350	0.0	1500	350	0	0.46	0	65.7	57.9	44.1

+ 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	0.0157
MAIN ROUTE WITH WORKS	0.0122
'DIVERSION'	0.0045

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$44,853
CONGESTED HOURS PER DAY*	6

*Delays Exceeding User-Specified Maximum

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