

USH 41: STH 441 TO STH 55 (OUTAGAMIE AND BROWN COUNTIES) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	171	0.0	OFF	171	0	0.00	0	66.1	66.1	66.1	
1-2 AM	143	0.0	OFF	143	0	0.00	0	66.1	66.1	66.1	
2-3 AM	152	0.0	OFF	152	0	0.00	0	66.1	66.1	66.1	
3-4 AM	130	0.0	OFF	130	0	0.00	0	66.1	66.1	66.1	
4-5 AM	352	0.0	OFF	352	0	0.00	0	65.7	65.7	65.7	
5-6 AM	796	0.0	OFF	796	0	0.00	0	64.9	64.9	64.9	
6-7 AM	1869	0.0	OFF	1869	0	0.00	0	62.9	62.9	62.9	
7-8 AM	2623	0.0	OFF	2623	0	0.00	0	59.6	59.6	59.6	
8-9 AM	1823	0.0	OFF	1823	0	0.00	0	63.0	63.0	63.0	
9-10 AM	1552	0.0	OFF	1552	0	0.00	0	63.5	63.5	63.5	
10-11 AM	1636	0.0	1499	1636	0	3.16	63	63.3	35.3	30.8	
11AM-NOON	1682	0.0	1500	1682	0	8.96	221	63.3	19.4	30.8	
NOON-1PM	1798	0.0	1499	1607	192	15.36+	388	63.0	13.0	30.8	
1-2 PM	1862	0.0	1500	1500	362	15.81+	400	62.9	12.7	30.8	
2-3 PM	1954	0.0	1500	1500	454	15.80+	400	62.7	12.7	30.8	
3-4 PM	2363	0.0	OFF	2363	0	1.11	54	62.0	48.7	48.7	
4-5 PM	2703	0.0	OFF	2703	0	0.00	0	58.8	58.8	58.8	
5-6 PM	2323	0.0	OFF	2323	0	0.00	0	62.0	62.0	62.0	
6-7 PM	1573	0.0	OFF	1573	0	0.00	0	63.5	63.5	63.5	
7-8 PM	1033	0.0	OFF	1033	0	0.00	0	64.5	64.5	64.5	
8-9 PM	758	0.0	OFF	758	0	0.00	0	65.0	65.0	65.0	
9-10 PM	819	0.0	OFF	819	0	0.00	0	64.8	64.8	64.8	
10-11 PM	657	0.0	OFF	657	0	0.00	0	65.1	65.1	65.1	
11PM-MID	422	0.0	OFF	422	0	0.00	0	65.6	65.6	65.6	

"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	0.0
(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	0
(VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

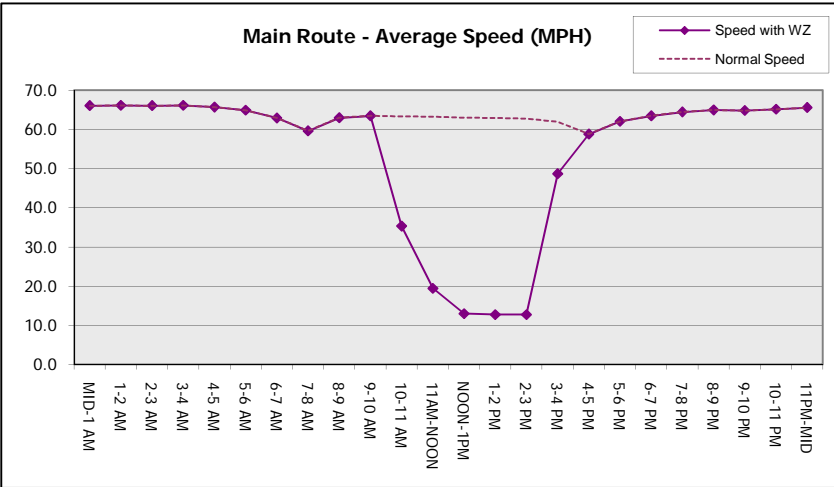
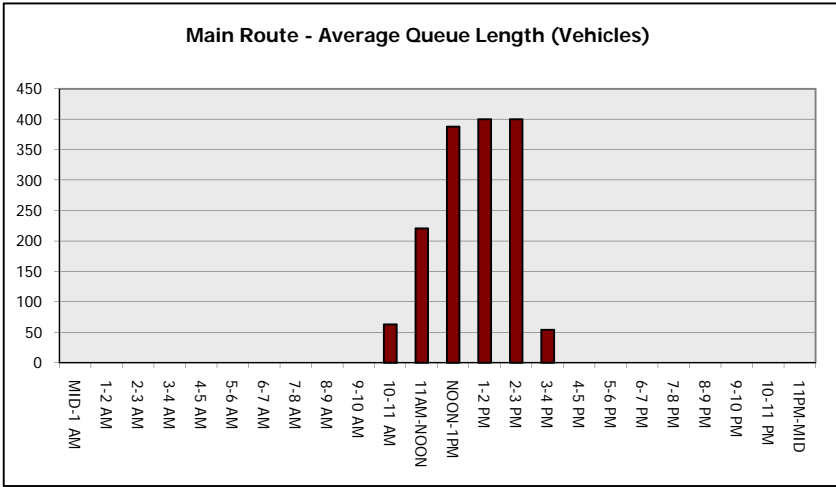
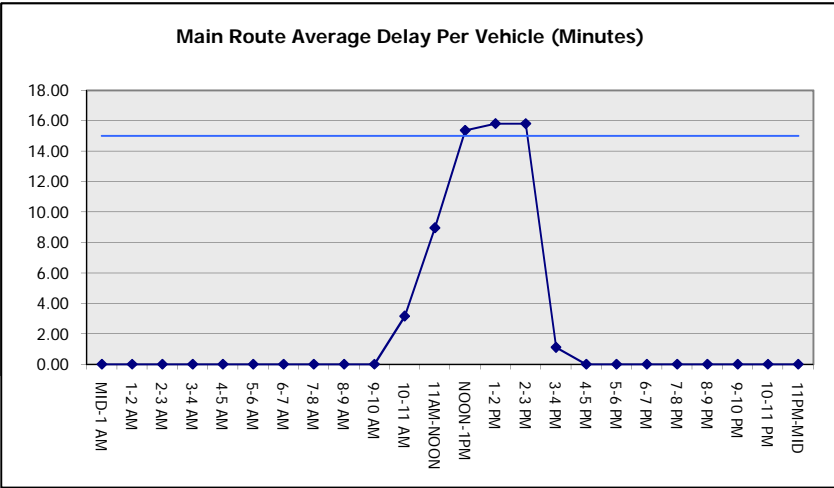
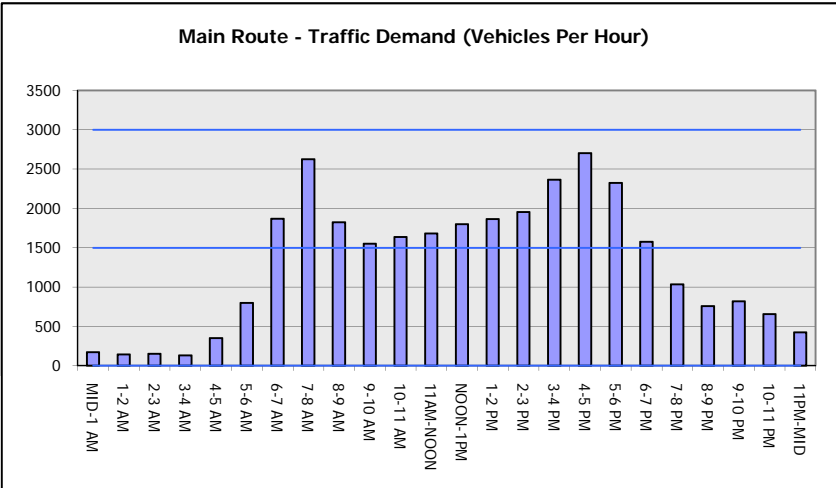
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0209
MAIN ROUTE WITH WORKS	0.0197
'DIVERSION'	0.0016
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$23,731
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	207	0.0	OFF	207	0	0.00	0	66.0	66.0	66.0
1-2 AM	122	0.0	OFF	122	0	0.00	0	66.1	66.1	66.1
2-3 AM	181	0.0	OFF	181	0	0.00	0	66.1	66.1	66.1
3-4 AM	125	0.0	OFF	125	0	0.00	0	66.1	66.1	66.1
4-5 AM	251	0.0	OFF	251	0	0.00	0	65.9	65.9	65.9
5-6 AM	740	0.0	OFF	740	0	0.00	0	65.0	65.0	65.0
6-7 AM	1588	0.0	OFF	1588	0	0.00	0	63.4	63.4	63.4
7-8 AM	2318	0.0	OFF	2318	0	0.00	0	62.0	62.0	62.0
8-9 AM	1635	0.0	OFF	1635	0	0.00	0	63.3	63.3	63.3
9-10 AM	1471	0.0	OFF	1471	0	0.00	0	63.7	63.7	63.7
10-11 AM	1706	0.0	1499	1706	0	4.02	93	63.2	31.5	30.8
11AM-NOON	1772	0.0	1500	1699	73	12.74+	325	63.1	15.0	30.8
NOON-1PM	1898	0.0	1500	1500	398	15.81+	400	62.8	12.7	30.8
1-2 PM	2084	0.0	1500	1500	584	15.78+	400	62.5	12.7	30.8
2-3 PM	2320	0.0	1500	1500	820	15.76+	400	62.0	12.7	30.8
3-4 PM	2719	0.0	OFF	2719	0	1.29	64	58.6	45.1	45.1
4-5 PM	2897	0.0	OFF	2897	0	0.00	0	56.8	56.8	56.8
5-6 PM	2571	0.0	OFF	2571	0	0.00	0	60.2	60.2	60.2
6-7 PM	1810	0.0	OFF	1810	0	0.00	0	63.0	63.0	63.0
7-8 PM	1441	0.0	OFF	1441	0	0.00	0	63.7	63.7	63.7
8-9 PM	1186	0.0	OFF	1186	0	0.00	0	64.1	64.1	64.1
9-10 PM	1024	0.0	OFF	1024	0	0.00	0	64.5	64.5	64.5
10-11 PM	700	0.0	OFF	700	0	0.00	0	65.1	65.1	65.1
11PM-MID	438	0.0	OFF	438	0	0.00	0	65.6	65.6	65.6

"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	0.0222
MAIN ROUTE WITH WORKS	0.0204
'DIVERSION'	0.0029

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$28,359
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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