

IH 43: STH 57/167 TO STH 100 (MILWAUKEE AND OZAUKEE COUNTIES) OFF-PEAK DAY 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	748	0.0	OFF	748	0	0.00	0	65.0	65.0	65.0
1-2 AM	379	0.0	OFF	379	0	0.00	0	65.7	65.7	65.7
2-3 AM	137	0.0	OFF	137	0	0.00	0	66.1	66.1	66.1
3-4 AM	111	0.0	OFF	111	0	0.00	0	66.2	66.2	66.2
4-5 AM	139	0.0	OFF	139	0	0.00	0	66.1	66.1	66.1
5-6 AM	239	0.0	OFF	239	0	0.00	0	66.0	66.0	66.0
6-7 AM	427	0.0	OFF	427	0	0.00	0	65.6	65.6	65.6
7-8 AM	634	0.0	OFF	634	0	0.00	0	65.2	65.2	65.2
8-9 AM	956	0.0	OFF	956	0	0.00	0	64.6	64.6	64.6
9-10 AM	1543	0.0	1499	1543	0	1.62	22	63.5	40.9	31.9
10-11 AM	2070	0.0	1500	1760	310	11.26+	303	62.5	13.4	30.8
11AM-NOON	2441	0.0	1499	1510	931	16.08+	409	61.5	10.3	30.8
NOON-1PM	2718	0.0	1500	1515	1202	15.96+	410	58.7	10.3	30.8
1-2 PM	2689	0.0	1500	1510	1178	15.96+	409	58.9	10.3	30.8
2-3 PM	2743	0.0	1500	1509	1234	15.92+	409	58.4	10.3	30.8
3-4 PM	2762	0.0	1500	1506	1256	15.91+	409	58.2	10.3	30.8
4-5 PM	2771	0.0	1500	1503	1268	15.91+	409	58.1	10.3	30.8
5-6 PM	2484	0.0	1500	1500	984	16.02+	408	61.0	10.4	30.8
6-7 PM	2324	0.0	1500	1500	824	16.07+	408	62.0	10.4	30.8
7-8 PM	1834	0.0	OFF	1834	0	0.60	37	63.0	52.3	52.3
8-9 PM	1551	0.0	OFF	1551	0	0.00	0	63.5	63.5	63.5
9-10 PM	1159	0.0	OFF	1159	0	0.00	0	64.2	64.2	64.2
10-11 PM	685	0.0	OFF	685	0	0.00	0	65.1	65.1	65.1
11PM-MID	420	0.0	OFF	420	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

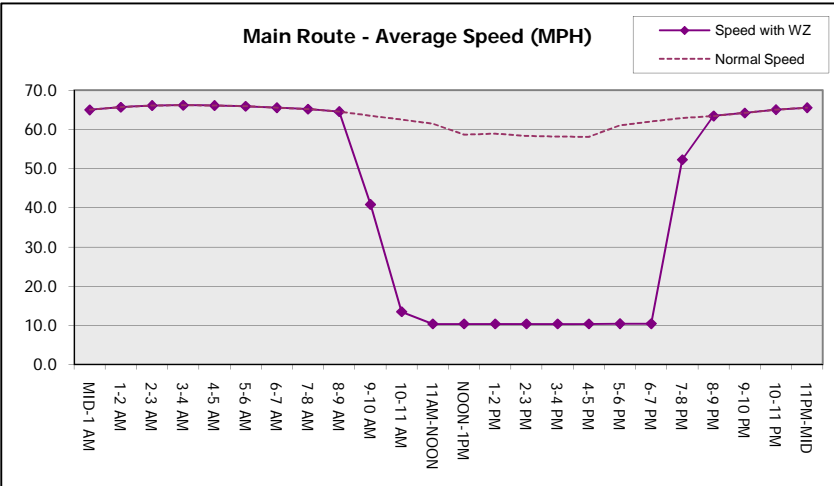
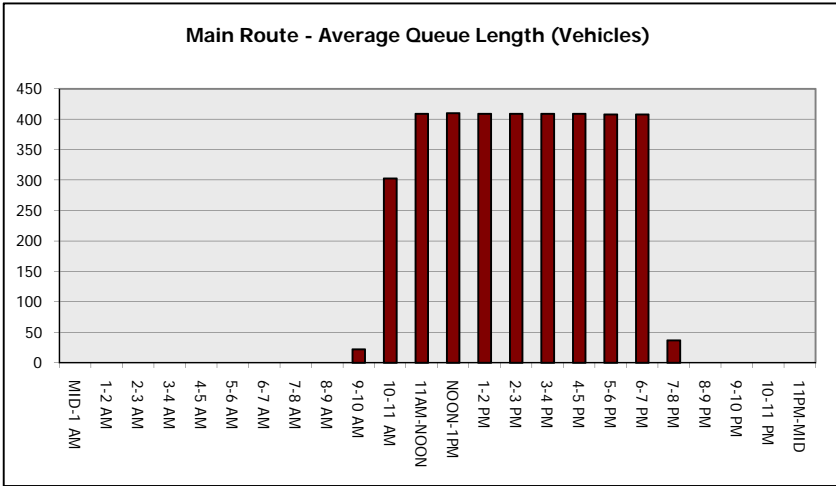
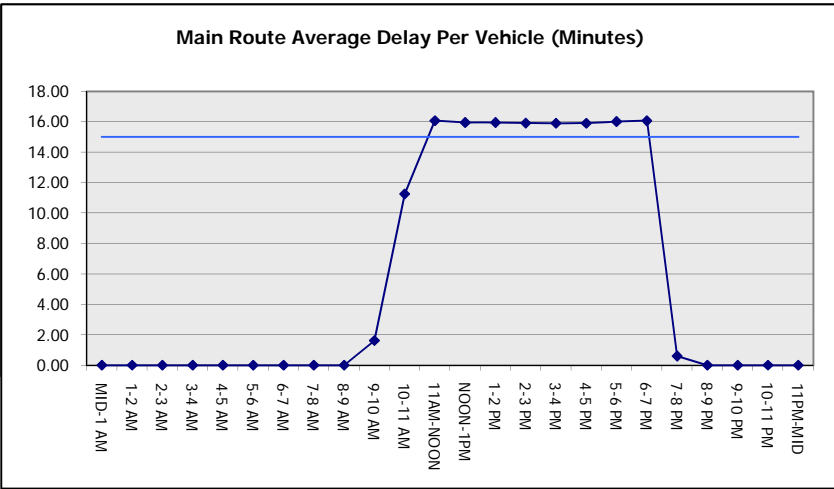
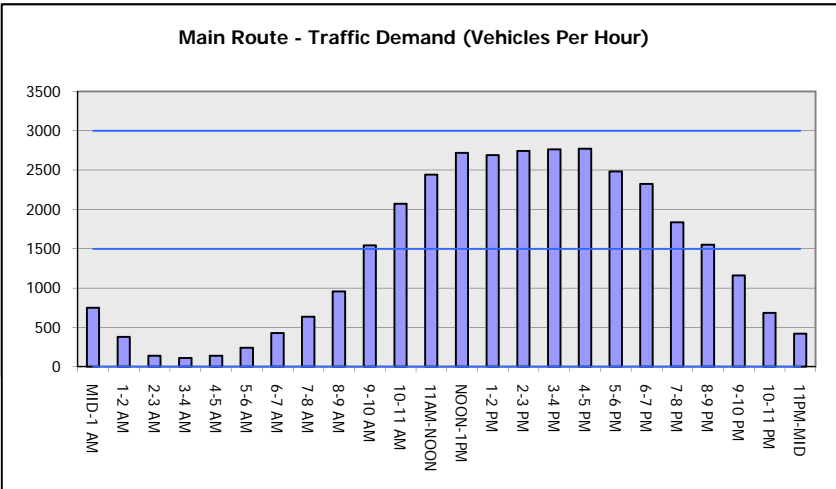
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0168
MAIN ROUTE WITH WORKS	0.0112
'DIVERSION'	0.0105
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$99,893
CONGESTED HOURS PER DAY*	9

*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	570	0.0	OFF	570	0	0.00	0	65.3	65.3	65.3
1-2 AM	348	0.0	OFF	348	0	0.00	0	65.8	65.8	65.8
2-3 AM	260	0.0	OFF	260	0	0.00	0	65.9	65.9	65.9
3-4 AM	166	0.0	OFF	166	0	0.00	0	66.1	66.1	66.1
4-5 AM	132	0.0	OFF	132	0	0.00	0	66.1	66.1	66.1
5-6 AM	199	0.0	OFF	199	0	0.00	0	66.0	66.0	66.0
6-7 AM	374	0.0	OFF	374	0	0.00	0	65.7	65.7	65.7
7-8 AM	539	0.0	OFF	539	0	0.00	0	65.4	65.4	65.4
8-9 AM	794	0.0	OFF	794	0	0.00	0	64.9	64.9	64.9
9-10 AM	1195	0.0	1499	1195	0	0.64	0	64.1	52.5	38.5
10-11 AM	1601	0.0	1499	1601	0	1.90	28	63.4	38.4	30.8
11AM-NOON	1892	0.0	1500	1872	20	10.26+	275	62.8	14.3	30.8
NOON-1PM	2161	0.0	1500	1484	677	16.04+	406	62.3	10.4	30.8
1-2 PM	2253	0.0	1499	1498	756	16.08+	407	62.2	10.4	30.8
2-3 PM	2138	0.0	1499	1498	640	16.09+	407	62.4	10.4	30.8
3-4 PM	2216	0.0	1499	1498	718	16.08+	407	62.3	10.4	30.8
4-5 PM	2239	0.0	1499	1498	741	16.08+	407	62.2	10.4	30.8
5-6 PM	1996	0.0	1499	1498	498	16.10+	407	62.7	10.4	30.8
6-7 PM	1743	0.0	1499	1473	270	16.01+	404	63.2	10.4	30.8
7-8 PM	1445	0.0	OFF	1445	0	0.55	34	63.7	53.6	53.6
8-9 PM	1084	0.0	OFF	1084	0	0.00	0	64.3	64.3	64.3
9-10 PM	1025	0.0	OFF	1025	0	0.00	0	64.5	64.5	64.5
10-11 PM	779	0.0	OFF	779	0	0.00	0	65.0	65.0	65.0
11PM-MID	507	0.0	OFF	507	0	0.00	0	65.5	65.5	65.5

"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	0.0136
MAIN ROUTE WITH WORKS	0.0105
'DIVERSION'	0.0049

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$72,158
CONGESTED HOURS PER DAY*	8

*Delays Exceeding User-Specified Maximum

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