

IH 94: USH 41 AND IH 43 (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR WESTBOUND 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	694	0.0	1500	694	0	0.55	0	69.9	53.5	42.8	
1-2 AM	524	0.0	1500	524	0	0.54	0	70.1	54.0	43.4	
2-3 AM	457	0.0	1500	457	0	0.53	0	70.2	54.2	43.7	
3-4 AM	820	0.0	1500	820	0	0.57	0	69.7	53.0	42.3	
4-5 AM	2048	0.0	1499	2048	0	4.61	169	68.2	19.9	30.8	
5-6 AM	4158	0.0	OFF	4158	0	0.94	81	62.5	42.5	42.5	
6-7 AM	5559	0.0	OFF	5559	0	0.00	0	52.8	52.8	52.8	
7-8 AM	5043	0.0	OFF	5043	0	0.00	0	56.4	56.4	56.4	
8-9 AM	4206	0.0	OFF	4206	0	0.00	0	62.1	62.1	62.1	
9-10 AM	4145	0.0	OFF	4145	0	0.00	0	62.5	62.5	62.5	
10-11 AM	4501	0.0	OFF	4501	0	0.00	0	60.1	60.1	60.1	
11AM-NOON	4699	0.0	OFF	4699	0	0.00	0	58.7	58.7	58.7	
NOON-1PM	4876	0.0	OFF	4876	0	0.00	0	57.6	57.6	57.6	
1-2 PM	5502	0.0	OFF	5502	0	0.00	0	53.3	53.3	53.3	
2-3 PM	5560	0.0	OFF	5560	0	0.00	0	52.8	52.8	52.8	
3-4 PM	5417	0.0	OFF	5417	0	0.00	0	53.8	53.8	53.8	
4-5 PM	5502	0.0	OFF	5502	0	0.00	0	53.3	53.3	53.3	
5-6 PM	4988	0.0	OFF	4988	0	0.00	0	56.8	56.8	56.8	
6-7 PM	3863	0.0	OFF	3863	0	0.00	0	64.5	64.5	64.5	
7-8 PM	3186	0.0	1499	1570	1616	17.10+	427	66.8	7.6	36.6	
8-9 PM	2896	0.0	1499	1644	1252	14.82+	388	67.1	8.4	35.7	
9-10 PM	2467	0.0	1499	1731	736	16.02+	394	67.7	7.8	30.8	
10-11 PM	1654	0.0	1499	1428	227	16.48+	403	68.7	7.7	30.8	
11PM-MID	1056	0.0	1499	1056	0	4.82	185	69.4	19.2	36.1	

"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

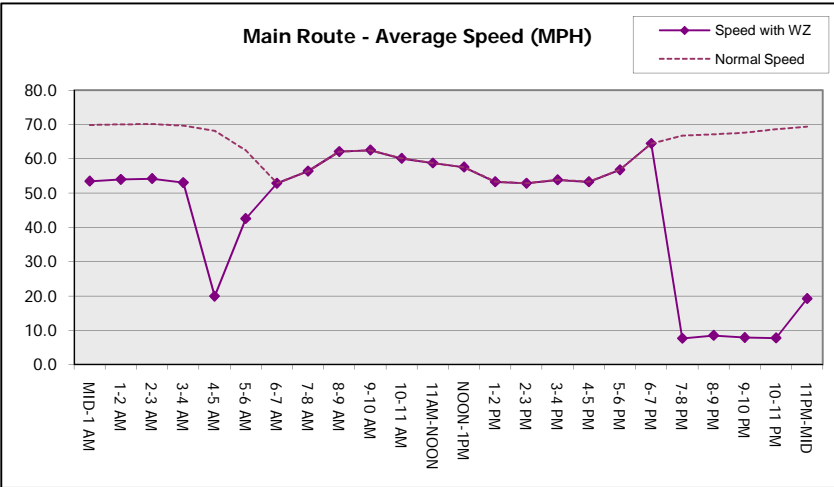
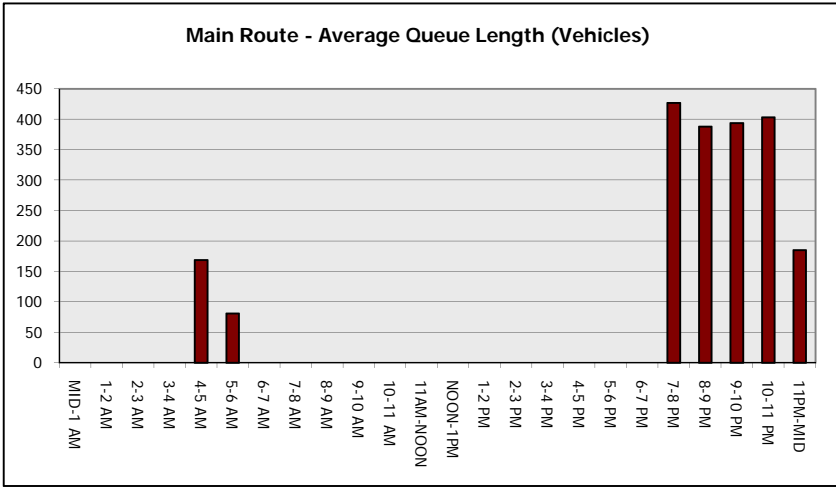
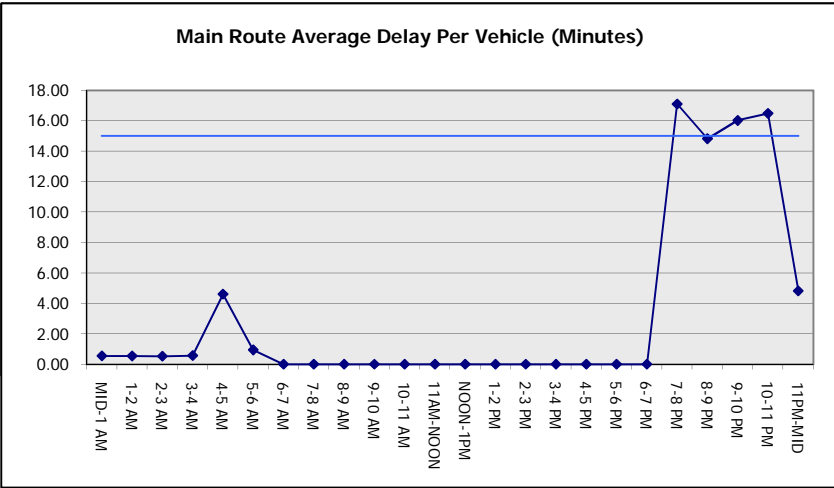
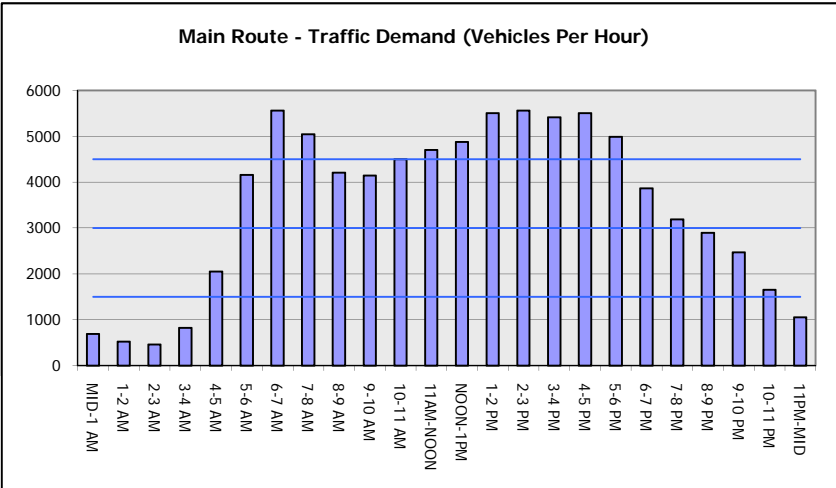
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0280
MAIN ROUTE WITH WORKS	0.0259
'DIVERSION'	0.0030
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$40,772
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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Construction Season

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



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SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR EASTBOUND 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	630	0.0	1500	630	0	0.55	0	69.9	53.7	43.0
1-2 AM	519	0.0	1500	519	0	0.54	0	70.1	54.0	43.4
2-3 AM	546	0.0	1500	546	0	0.54	0	70.0	53.9	43.3
3-4 AM	810	0.0	1500	810	0	0.57	0	69.7	53.1	42.4
4-5 AM	2119	0.0	1499	2119	0	5.58+	202	68.1	17.6	30.8
5-6 AM	4219	0.0	OFF	4219	0	1.22	107	62.0	38.7	38.7
6-7 AM	4887	0.0	OFF	4887	0	0.00	0	57.4	57.4	57.4
7-8 AM	4550	0.0	OFF	4550	0	0.00	0	59.8	59.8	59.8
8-9 AM	4032	0.0	OFF	4032	0	0.00	0	63.3	63.3	63.3
9-10 AM	3706	0.0	OFF	3706	0	0.00	0	65.5	65.5	65.5
10-11 AM	3694	0.0	OFF	3694	0	0.00	0	65.6	65.6	65.6
11AM-NOON	3784	0.0	OFF	3784	0	0.00	0	65.0	65.0	65.0
NOON-1PM	3806	0.0	OFF	3806	0	0.00	0	64.8	64.8	64.8
1-2 PM	3913	0.0	OFF	3913	0	0.00	0	64.1	64.1	64.1
2-3 PM	4132	0.0	OFF	4132	0	0.00	0	62.6	62.6	62.6
3-4 PM	4270	0.0	OFF	4270	0	0.00	0	61.7	61.7	61.7
4-5 PM	4409	0.0	OFF	4409	0	0.00	0	60.7	60.7	60.7
5-6 PM	4019	0.0	OFF	4019	0	0.00	0	63.4	63.4	63.4
6-7 PM	3301	0.0	OFF	3301	0	0.00	0	66.6	66.6	66.6
7-8 PM	2830	0.0	1499	1660	1171	15.01+	378	67.2	8.2	36.0
8-9 PM	2605	0.0	1499	1786	820	15.50+	387	67.5	8.1	31.8
9-10 PM	2270	0.0	1499	1497	772	16.76+	410	67.9	7.6	30.8
10-11 PM	1487	0.0	1499	1376	110	15.73+	383	68.9	7.9	30.8
11PM-MID	939	0.0	1499	939	0	2.42	109	69.6	29.8	38.8

"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	0.0239
MAIN ROUTE WITH WORKS	0.0221
'DIVERSION'	0.0022

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$36,546
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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MON-THUR EASTBOUND DIRECTION

