

USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY) OFF-PEAK DAY 2 LANE 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	415	0.0	OFF	415	0	0.00	0	70.2	70.2	70.2
1-2 AM	272	0.0	OFF	272	0	0.00	0	70.2	70.2	70.2
2-3 AM	258	0.0	OFF	258	0	0.00	0	70.2	70.2	70.2
3-4 AM	361	0.0	OFF	361	0	0.00	0	70.2	70.2	70.2
4-5 AM	723	0.0	OFF	723	0	0.00	0	69.9	69.9	69.9
5-6 AM	2116	0.0	OFF	2116	0	0.00	0	68.1	68.1	68.1
6-7 AM	4338	0.0	OFF	4338	0	0.00	0	61.2	61.2	61.2
7-8 AM	5600	0.0	OFF	5600	0	0.00	0	52.6	52.6	52.6
8-9 AM	4333	0.0	OFF	4333	0	0.00	0	61.2	61.2	61.2
9-10 AM	3498	0.0	OFF	3498	0	0.00	0	66.4	66.4	66.4
10-11 AM	3392	0.0	1499	1563	1828	16.88+	422	66.5	7.9	36.6
11AM-NOON	3633	0.0	1499	1723	1910	14.78+	385	66.0	8.8	35.6
NOON-1PM	3725	0.0	1499	1516	2210	16.46+	409	65.4	8.0	33.8
1-2 PM	3633	0.0	1500	1514	2119	16.54+	409	66.0	8.0	32.9
2-3 PM	4322	0.0	1499	1500	2822	16.42+	411	61.4	7.9	32.8
3-4 PM	4753	0.0	OFF	4753	0	0.49	40	58.4	48.3	48.3
4-5 PM	4691	0.0	OFF	4691	0	0.00	0	58.8	58.8	58.8
5-6 PM	4437	0.0	OFF	4437	0	0.00	0	60.5	60.5	60.5
6-7 PM	3422	0.0	OFF	3422	0	0.00	0	66.5	66.5	66.5
7-8 PM	2386	0.0	OFF	2386	0	0.00	0	67.8	67.8	67.8
8-9 PM	1764	0.0	OFF	1764	0	0.00	0	68.6	68.6	68.6
9-10 PM	1649	0.0	OFF	1649	0	0.00	0	68.7	68.7	68.7
10-11 PM	1326	0.0	OFF	1326	0	0.00	0	69.1	69.1	69.1
11PM-MID	1118	0.0	OFF	1118	0	0.00	0	69.4	69.4	69.4

"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	0.0242
MAIN ROUTE WITH WORKS	0.0197
'DIVERSION'	0.0092
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$67,457
CONGESTED HOURS PER DAY*	5

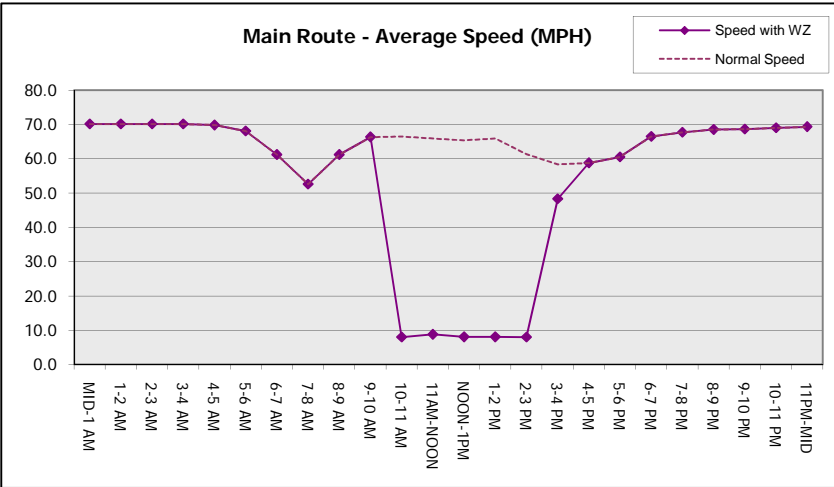
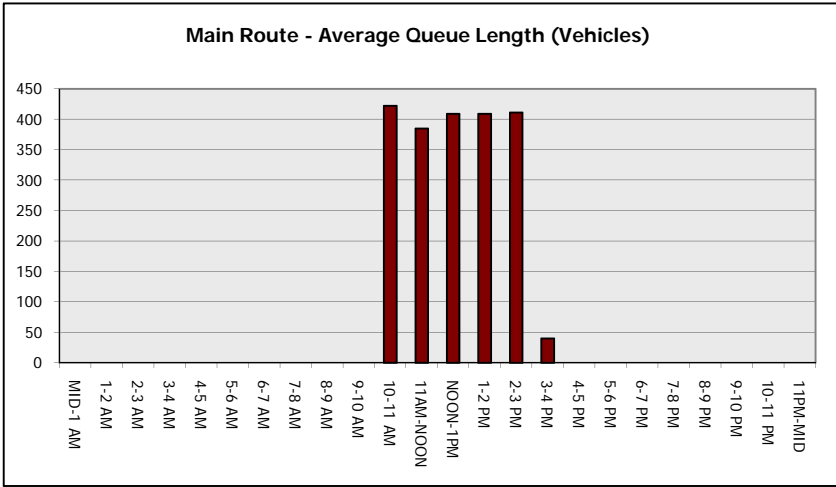
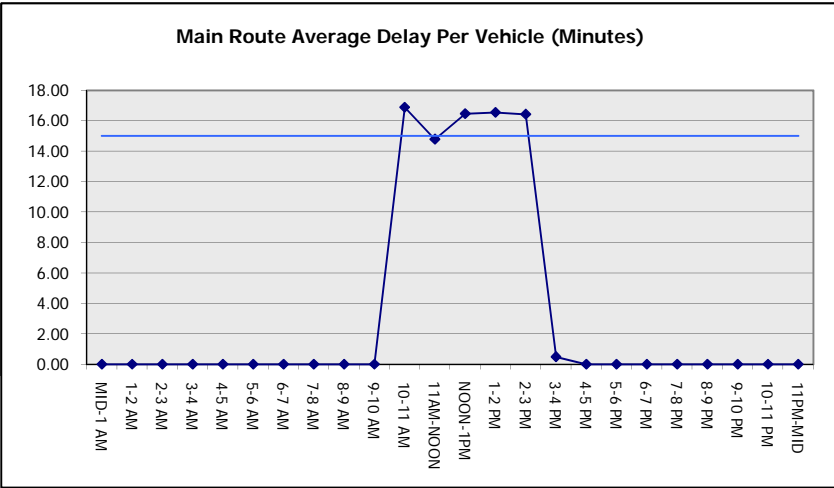
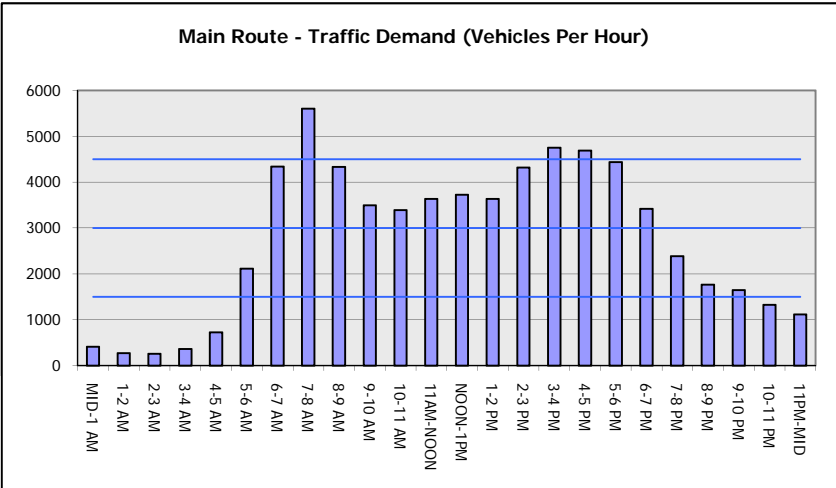
*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY SOUTHBOUND DIRECTION



USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY) OFF-PEAK DAY 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
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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	585	0.0	OFF	585	0	0.00	0	70.0	70.0	70.0
1-2 AM	374	0.0	OFF	374	0	0.00	0	70.2	70.2	70.2
2-3 AM	323	0.0	OFF	323	0	0.00	0	70.2	70.2	70.2
3-4 AM	373	0.0	OFF	373	0	0.00	0	70.2	70.2	70.2
4-5 AM	667	0.0	OFF	667	0	0.00	0	69.9	69.9	69.9
5-6 AM	1955	0.0	OFF	1955	0	0.00	0	68.3	68.3	68.3
6-7 AM	3849	0.0	OFF	3849	0	0.00	0	64.6	64.6	64.6
7-8 AM	4705	0.0	OFF	4705	0	0.00	0	58.7	58.7	58.7
8-9 AM	3889	0.0	OFF	3889	0	0.00	0	64.3	64.3	64.3
9-10 AM	3394	0.0	OFF	3394	0	0.00	0	66.5	66.5	66.5
10-11 AM	3309	0.0	1499	1563	1746	16.88+	422	66.6	7.9	36.6
11AM-NOON	3618	0.0	1499	1719	1899	14.78+	385	66.1	8.8	35.6
NOON-1PM	3893	0.0	1499	1514	2379	16.40+	409	64.3	8.0	34.3
1-2 PM	4211	0.0	1500	1503	2708	16.38+	410	62.1	8.0	33.9
2-3 PM	4913	0.0	1500	1500	3413	16.19+	411	57.3	8.0	34.0
3-4 PM	5606	0.0	OFF	5606	0	1.24	113	52.5	35.6	35.6
4-5 PM	6129	0.0	OFF	6129	0	0.00	0	49.0	49.0	49.0
5-6 PM	5744	0.0	OFF	5744	0	0.00	0	51.6	51.6	51.6
6-7 PM	4024	0.0	OFF	4024	0	0.00	0	63.3	63.3	63.3
7-8 PM	2784	0.0	OFF	2784	0	0.00	0	67.3	67.3	67.3
8-9 PM	2273	0.0	OFF	2273	0	0.00	0	67.9	67.9	67.9
9-10 PM	2252	0.0	OFF	2252	0	0.00	0	67.9	67.9	67.9
10-11 PM	2031	0.0	OFF	2031	0	0.00	0	68.2	68.2	68.2
11PM-MID	1350	0.0	OFF	1350	0	0.00	0	69.1	69.1	69.1

"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	0.0264
MAIN ROUTE WITH WORKS	0.0215
'DIVERSION'	0.0103

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$72,531
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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