

USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	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	432	0.0	OFF	432	0	0.00	0	70.2	70.2	70.2	
1-2 AM	369	0.0	OFF	369	0	0.00	0	70.2	70.2	70.2	
2-3 AM	570	0.0	OFF	570	0	0.00	0	70.0	70.0	70.0	
3-4 AM	800	0.0	OFF	800	0	0.00	0	69.7	69.7	69.7	
4-5 AM	1123	0.0	OFF	1123	0	0.00	0	69.4	69.4	69.4	
5-6 AM	1600	0.0	OFF	1600	0	0.00	0	68.7	68.7	68.7	
6-7 AM	2432	0.0	OFF	2432	0	0.00	0	67.7	67.7	67.7	
7-8 AM	3162	0.0	OFF	3162	0	0.00	0	66.8	66.8	66.8	
8-9 AM	3893	0.0	OFF	3893	0	0.00	0	64.3	64.3	64.3	
9-10 AM	4124	0.0	2999	4020	104	9.09+	537	62.7	13.7	37.3	
10-11 AM	4152	0.0	2999	2883	1270	17.14+	916	62.5	10.1	37.3	
11AM-NOON	4281	0.0	2999	3015	1266	17.01+	912	61.6	10.1	37.3	
NOON-1PM	4413	0.0	2999	3009	1403	17.24+	927	60.7	10.1	37.3	
1-2 PM	4158	0.0	3000	2971	1188	16.92+	904	62.5	10.2	37.3	
2-3 PM	3931	0.0	3000	2998	933	16.80+	893	64.0	10.2	37.3	
3-4 PM	3643	0.0	3000	2998	645	16.85+	890	66.0	10.2	37.3	
4-5 PM	3315	0.0	3000	2997	318	16.82+	887	66.6	10.2	37.3	
5-6 PM	2708	0.0	2999	2708	0	14.83+	780	67.4	10.8	37.3	
6-7 PM	2185	0.0	2999	2185	0	2.85	250	68.0	28.1	44.8	
7-8 PM	1604	0.0	OFF	1604	0	0.00	0	68.7	68.7	68.7	
8-9 PM	1079	0.0	OFF	1079	0	0.00	0	69.4	69.4	69.4	
9-10 PM	712	0.0	OFF	712	0	0.00	0	69.9	69.9	69.9	
10-11 PM	516	0.0	OFF	516	0	0.00	0	70.1	70.1	70.1	
11PM-MID	381	0.0	OFF	381	0	0.00	0	70.2	70.2	70.2	

"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

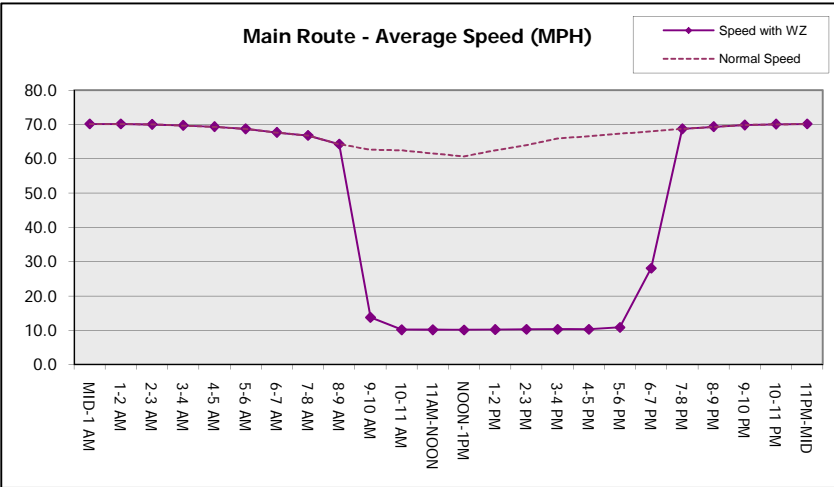
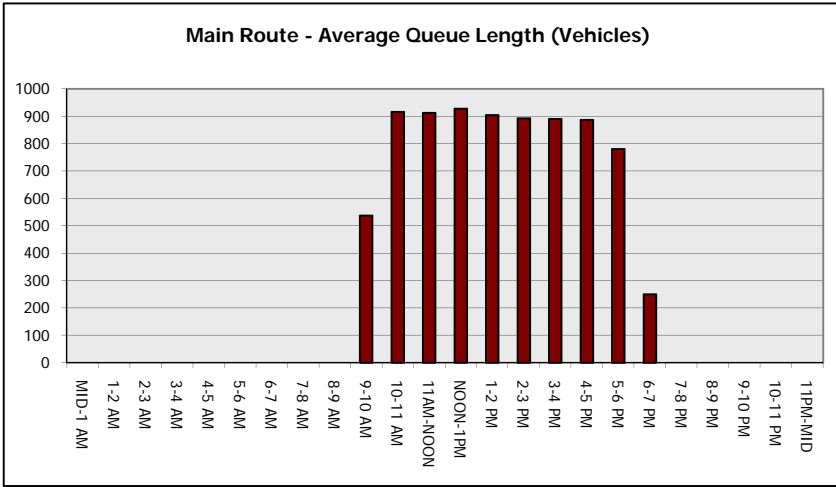
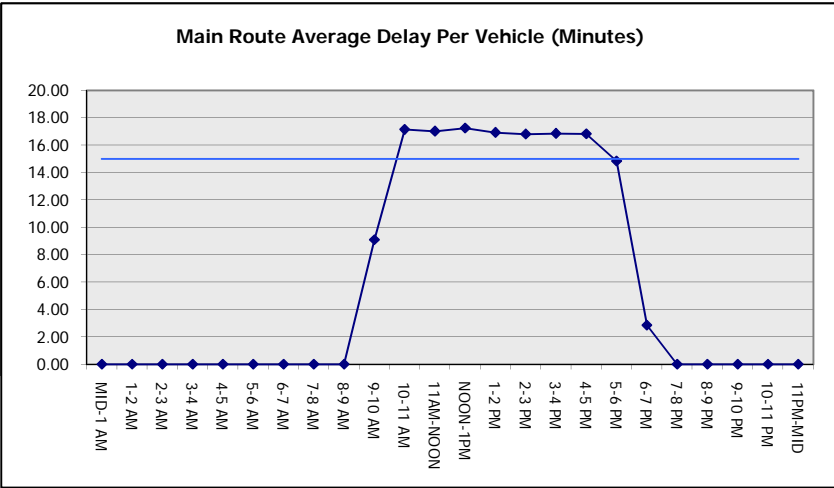
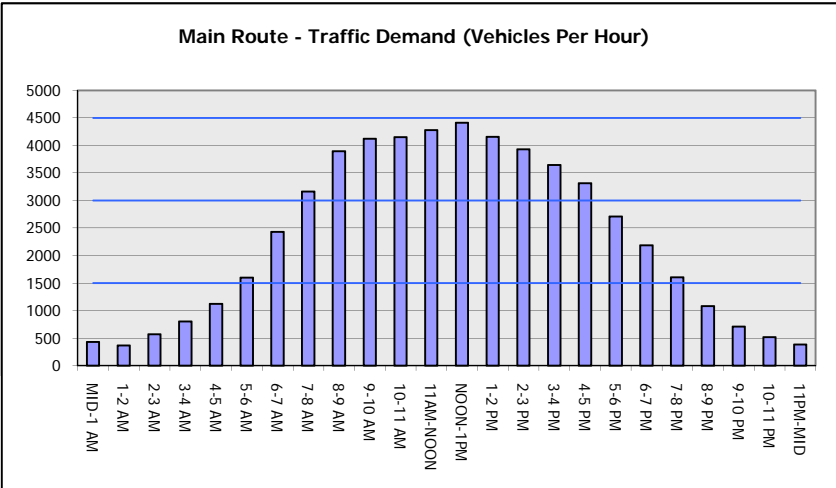
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0186
MAIN ROUTE WITH WORKS	0.0142
'DIVERSION'	0.0055
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$157,606
CONGESTED HOURS PER DAY*	9

*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	1411	0.0	OFF	1411	0	0.00	0	69.0	69.0	69.0
1-2 AM	1280	0.0	OFF	1280	0	0.00	0	69.1	69.1	69.1
2-3 AM	1384	0.0	OFF	1384	0	0.00	0	69.0	69.0	69.0
3-4 AM	1478	0.0	OFF	1478	0	0.00	0	68.9	68.9	68.9
4-5 AM	1718	0.0	OFF	1718	0	0.00	0	68.6	68.6	68.6
5-6 AM	2078	0.0	OFF	2078	0	0.00	0	68.1	68.1	68.1
6-7 AM	2677	0.0	OFF	2677	0	0.00	0	67.4	67.4	67.4
7-8 AM	3196	0.0	OFF	3196	0	0.00	0	66.8	66.8	66.8
8-9 AM	3707	0.0	OFF	3707	0	0.00	0	65.5	65.5	65.5
9-10 AM	4072	0.0	2999	4072	0	8.67+	519	63.0	14.2	37.3
10-11 AM	4219	0.0	2999	2840	1379	17.30+	926	62.0	10.1	37.3
11AM-NOON	4439	0.0	2999	3027	1411	17.24+	928	60.5	10.1	37.3
NOON-1PM	4755	0.0	2999	3001	1754	17.56+	953	58.4	10.0	37.3
1-2 PM	4773	0.0	3000	3000	1772	17.56+	953	58.2	10.0	37.3
2-3 PM	4440	0.0	3000	2980	1460	17.34+	933	60.5	10.1	37.3
3-4 PM	3997	0.0	3000	2978	1020	16.84+	897	63.5	10.2	37.3
4-5 PM	3658	0.0	3000	2997	662	16.85+	891	65.9	10.2	37.3
5-6 PM	3171	0.0	3000	2995	176	16.80+	886	66.8	10.2	37.3
6-7 PM	2721	0.0	2999	2721	0	14.77+	776	67.4	10.8	37.3
7-8 PM	2320	0.0	OFF	2320	0	0.53	50	67.9	52.8	52.8
8-9 PM	1904	0.0	OFF	1904	0	0.00	0	68.4	68.4	68.4
9-10 PM	1605	0.0	OFF	1605	0	0.00	0	68.7	68.7	68.7
10-11 PM	1371	0.0	OFF	1371	0	0.00	0	69.1	69.1	69.1
11PM-MID	1153	0.0	OFF	1153	0	0.00	0	69.3	69.3	69.3

"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	0.0226
MAIN ROUTE WITH WORKS	0.0173
'DIVERSION'	0.0075

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$184,544
CONGESTED HOURS PER DAY*	10

*Delays Exceeding User-Specified Maximum

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