

USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY) CONTINUOUS (24 HOUR) 2 LANE CLOSURE DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY WESTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR								AVERAGE SPEEDS IN MPH						
	MAIN ROUTE		ALTERNATE ROUTE		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		ALTERNATE ROUTE		
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN	SITE	WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	467	0.0	277	0.0	1500	467	0	277	0.53	0	70.2	48.6	43.7	38.3	38.3
1-2 AM	289	0.0	172	0.0	1500	289	0	172	0.51	0	70.2	49.2	44.3	38.9	38.9
2-3 AM	273	0.0	162	0.0	1500	273	0	162	0.51	0	70.2	49.3	44.4	38.9	38.9
3-4 AM	211	0.0	126	0.0	1500	211	0	126	0.50	0	70.2	49.5	44.6	39.1	39.1
4-5 AM	291	0.0	173	0.0	1500	291	0	173	0.51	0	70.2	49.2	44.3	38.9	38.9
5-6 AM	414	0.0	246	0.0	1500	414	0	246	0.52	0	70.2	48.8	43.8	38.5	38.5
6-7 AM	742	0.0	441	0.0	1500	742	0	441	0.56	0	69.8	47.6	42.6	37.5	37.5
7-8 AM	1079	0.0	640	0.0	1499	1079	0	640	0.63	0	69.4	45.5	40.4	36.5	36.5
8-9 AM	1574	0.0	934	0.0	1499	1574	0	934	1.69	22	68.8	28.8	31.1	35.0	35.0
9-10 AM	1932	0.0	1147	0.0	1500	1879	52	1199	10.75	276	68.3	8.7	30.8	33.8	33.9
10-11 AM	2235	0.0	1327	0.0	1499	1513	722	2049+	19.09	471	67.9	6.2	30.8	32.9	29.9
11A-NOON	2383	0.0	1415	0.0	1500	1520	862	2277+	19.96	494	67.8	6.1	30.8	32.5	28.8
NOON-1PM	2479	0.0	1472	0.0	1499	1511	968	2440+	20.63	512	67.6	6.0	30.8	32.2	28.0
1-2 PM	2369	0.0	1406	0.0	1500	1478	891	2298+	20.04	496	67.8	6.1	30.8	32.5	28.7
2-3 PM	2306	0.0	1370	0.0	1500	1491	815	2185+	19.60	485	67.9	6.1	30.8	32.7	29.2
3-4 PM	2265	0.0	1346	0.0	1500	1494	771	2117+	19.34	478	67.9	6.2	30.8	32.9	29.6
4-5 PM	2239	0.0	1330	0.0	1499	1492	747	2077+	19.20	474	67.9	6.2	30.8	32.9	29.8
5-6 PM	2015	0.0	1197	0.0	1500	1465	551	1748+	18.05	444	68.2	6.4	30.8	33.6	31.4
6-7 PM	1762	0.0	1046	0.0	1500	1468	294	1340+	16.80	411	68.6	6.6	30.8	34.3	33.4
7-8 PM	1458	0.0	865	0.0	1499	1426	32	897	15.13	367	68.9	7.0	30.8	35.3	35.6
8-9 PM	1296	0.0	770	0.0	1499	1296	0	770	9.81	236	69.1	9.0	31.1	35.8	36.0
9-10 PM	1119	0.0	664	0.0	1500	1119	0	664	1.07	22	69.4	36.8	39.6	36.3	36.3
10-11 PM	1019	0.0	606	0.0	1500	1019	0	606	0.59	0	69.5	46.7	41.6	36.6	36.6
11PM-MID	691	0.0	410	0.0	1500	691	0	410	0.55	0	69.9	47.8	42.8	37.6	37.6

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0073
MAIN ROUTE WITH WORKS	0.0041
DIVERSION	0.0405

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$150,195
CONGESTED HOURS PER DAY*	10

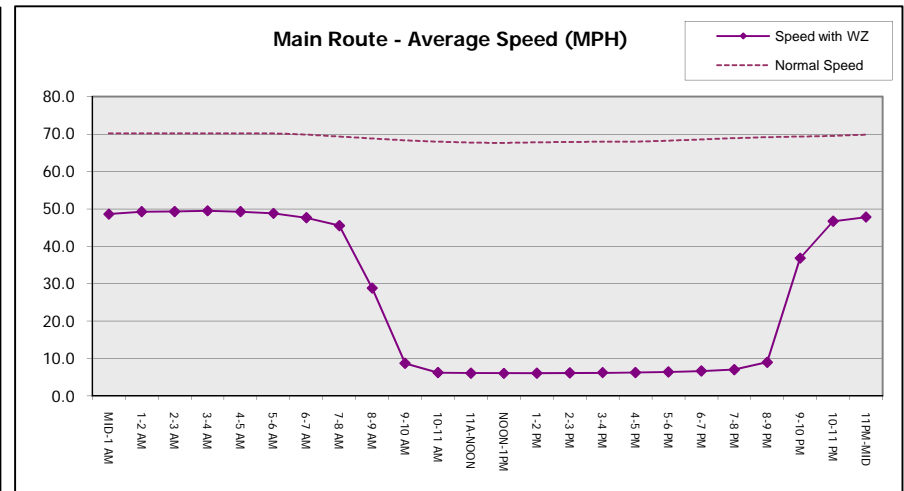
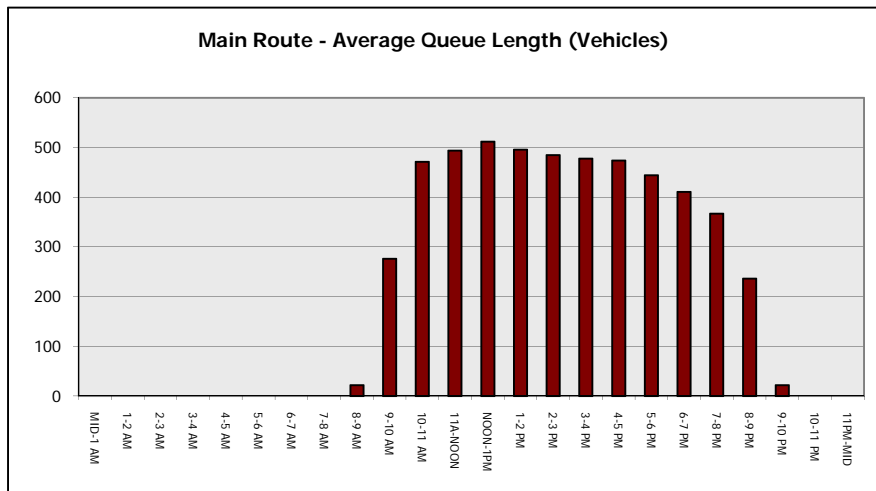
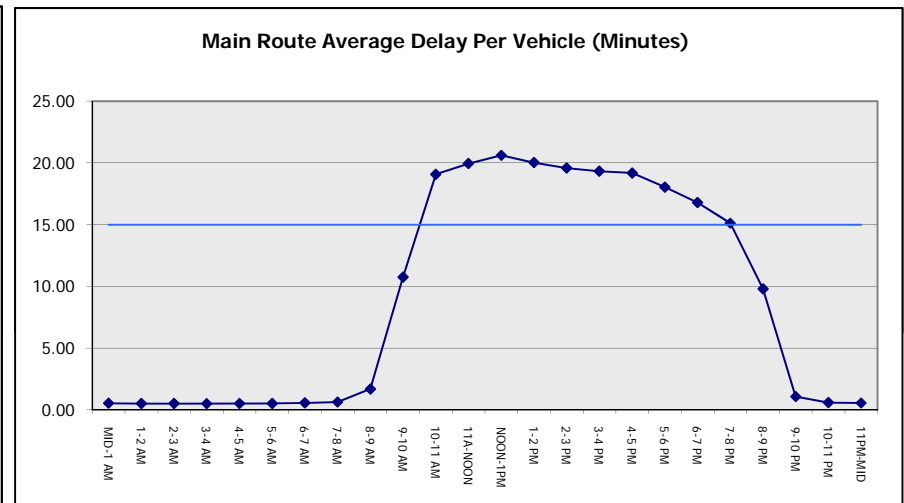
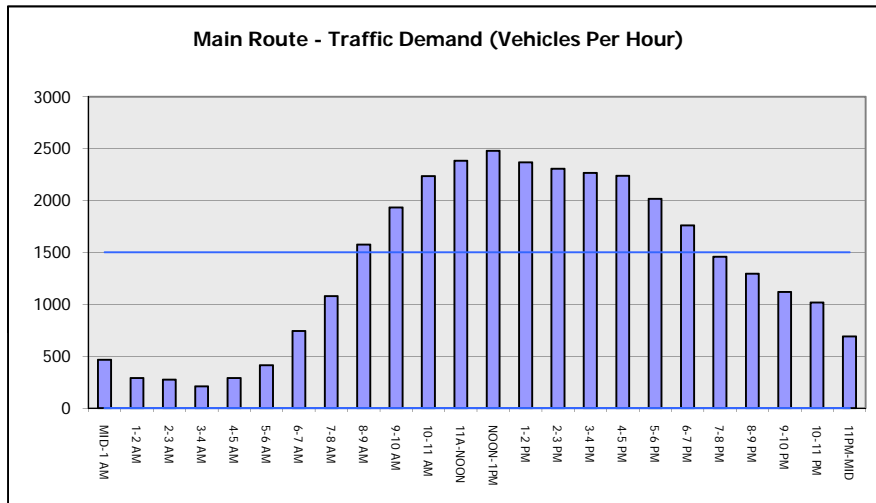
*Delays Exceeding 15 Minutes

USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)
CONTINUOUS (24 HOUR) 2 LANE CLOSURE
DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51

MAY
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY WESTBOUND DIRECTION



USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY) CONTINUOUS (24 HOUR) 2 LANE CLOSURE DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY EASTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							AVERAGE SPEEDS IN MPH			AVERAGE SPEEDS IN MPH				
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		ALTERNATE ROUTE		
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN	SITE	WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	458	0.0	272	0.0	1500	458	0	272	0.53	0	70.2	48.6	43.7	38.3	38.3
1-2 AM	281	0.0	166	0.0	1500	281	0	166	0.51	0	70.2	49.2	44.3	38.9	38.9
2-3 AM	266	0.0	158	0.0	1500	266	0	158	0.50	0	70.2	49.3	44.4	38.9	38.9
3-4 AM	167	0.0	99	0.0	1500	167	0	99	0.49	0	70.2	49.7	44.8	39.2	39.2
4-5 AM	179	0.0	106	0.0	1500	179	0	106	0.49	0	70.2	49.6	44.8	39.2	39.2
5-6 AM	361	0.0	215	0.0	1500	361	0	215	0.52	0	70.2	49.0	44.0	38.6	38.6
6-7 AM	684	0.0	406	0.0	1500	684	0	406	0.55	0	69.9	47.8	42.8	37.6	37.6
7-8 AM	1221	0.0	725	0.0	1499	1221	0	725	0.73	0	69.2	43.2	37.9	36.0	36.0
8-9 AM	1635	0.0	971	0.0	1499	1635	0	971	2.40	45	68.7	23.2	30.8	34.8	34.8
9-10 AM	1945	0.0	1155	0.0	1500	1809	137	1292+	12.64	320	68.3	7.8	30.8	33.8	33.5
10-11 AM	2229	0.0	1324	0.0	1499	1536	692	2016+	18.97	468	67.9	6.3	30.8	32.9	30.1
11A-NOON	2375	0.0	1411	0.0	1500	1520	855	2265+	19.91	493	67.8	6.1	30.8	32.5	28.9
NOON-1PM	2479	0.0	1472	0.0	1500	1514	965	2437+	20.61	511	67.6	6.0	30.8	32.2	28.0
1-2 PM	2450	0.0	1454	0.0	1500	1491	958	2413+	20.51	509	67.7	6.0	30.8	32.3	28.1
2-3 PM	2407	0.0	1429	0.0	1500	1495	912	2341+	20.22	501	67.8	6.1	30.8	32.4	28.5
3-4 PM	2466	0.0	1465	0.0	1499	1508	959	2423+	20.56	510	67.7	6.0	30.8	32.2	28.1
4-5 PM	2316	0.0	1375	0.0	1500	1468	848	2223+	19.75	489	67.9	6.1	30.8	32.7	29.1
5-6 PM	2035	0.0	1209	0.0	1500	1458	577	1786+	18.18	447	68.2	6.4	30.8	33.5	31.2
6-7 PM	1753	0.0	1041	0.0	1500	1466	286	1328+	16.76	410	68.6	6.6	30.8	34.4	33.5
7-8 PM	1511	0.0	897	0.0	1500	1459	52	949	15.62	380	68.9	6.9	30.8	35.1	35.3
8-9 PM	1312	0.0	780	0.0	1499	1312	0	780	11.35	274	69.1	8.3	30.8	35.7	36.0
9-10 PM	1256	0.0	746	0.0	1500	1256	0	746	2.40	69	69.2	23.6	34.5	35.9	36.0
10-11 PM	974	0.0	579	0.0	1500	974	0	579	0.58	0	69.6	46.8	41.8	36.8	36.8
11PM-MID	795	0.0	472	0.0	1500	795	0	472	0.56	0	69.7	47.4	42.4	37.3	37.3

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0075
MAIN ROUTE WITH WORKS	0.0041
DIVERSION	0.0419

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$158,980
CONGESTED HOURS PER DAY*	10

*Delays Exceeding 15 Minutes

**USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)
 CONTINUOUS (24 HOUR) 2 LANE CLOSURE
 DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51**

MAY
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY EASTBOUND DIRECTION

