

USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY) CONTINUOUS (24 HOUR) 2 LANE CLOSURE DIVERSION ROUTE: BUS 51 - STH 52	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR SOUTHBOUND 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	150	0.0	72	0.0	1500	150	0	72	0.49	0	70.2	62.5	44.9	31.6	31.6
1-2 AM	112	0.0	47	0.0	1500	112	0	47	0.49	0	70.2	62.6	45.0	32.3	32.3
2-3 AM	119	0.0	42	0.0	1500	119	0	42	0.49	0	70.2	62.6	45.0	32.4	32.4
3-4 AM	207	0.0	56	0.0	1500	207	0	56	0.50	0	70.2	62.4	44.6	32.0	32.0
4-5 AM	490	0.0	129	0.0	1500	490	0	129	0.53	0	70.1	61.9	43.5	30.1	30.1
5-6 AM	1232	0.0	274	0.0	1499	1232	0	274	0.77	0	69.2	58.2	37.3	26.3	26.3
6-7 AM	1721	0.0	627	0.0	1499	1721	0	627	4.15	94	68.6	34.1	30.8	18.3	18.3
7-8 AM	1761	0.0	719	0.0	1499	1761	0	719	14.28	356	68.6	15.3	30.8	16.5	16.5
8-9 AM	1583	0.0	574	0.0	1499	1484	100	674	19.42	479	68.7	12.0	30.8	19.3	17.3
9-10 AM	1669	0.0	573	0.0	1500	1555	113	687	19.74	488	68.7	11.8	30.8	19.3	17.1
10-11 AM	1877	0.0	638	0.0	1500	1684	193	831+	24.37	613	68.4	9.9	30.8	18.0	14.3
11A-NOON	1999	0.0	693	0.0	1499	1651	349	1041+	30.85	781	68.2	8.1	30.8	17.0	11.7
NOON-1PM	2077	0.0	760	0.0	1499	1500	578	1337+	32.33	818	68.1	7.7	30.8	15.7	11.2
1-2 PM	2204	0.0	829	0.0	1499	1500	704	1533+	32.32	818	68.0	7.7	30.8	14.3	11.2
2-3 PM	2410	0.0	990	0.0	1499	1500	910	1900+	32.31	818	67.8	7.7	30.8	12.2	11.2
3-4 PM	2644	0.0	1137	0.0	1499	1500	1144	2281+	32.29	818	67.4	7.7	30.8	11.2	11.2
4-5 PM	2840	0.0	1228	0.0	1499	1500	1340	2568+	32.28	818	67.2	7.7	30.8	11.2	11.2
5-6 PM	2236	0.0	1112	0.0	1499	1500	736	1848+	32.32	818	67.9	7.7	30.8	11.2	11.2
6-7 PM	1504	0.0	684	0.0	1499	1215	289	972+	29.21	741	68.9	8.4	30.8	17.1	12.2
7-8 PM	1161	0.0	556	0.0	1499	1117	44	600	14.81	382	69.3	14.9	31.5	19.6	18.8
8-9 PM	1004	0.0	464	0.0	1500	1004	0	464	1.60	39	69.5	49.8	40.4	21.4	21.4
9-10 PM	774	0.0	347	0.0	1500	774	0	347	0.56	0	69.8	61.2	42.5	24.3	24.3
10-11 PM	554	0.0	238	0.0	1500	554	0	238	0.54	0	70.0	61.8	43.3	27.2	27.2
11PM-MID	287	0.0	169	0.0	1500	287	0	169	0.51	0	70.2	62.3	44.3	29.1	29.1

+ 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	0.0244
MAIN ROUTE WITH WORKS	0.0178
DIVERSION	0.1848

PIA: Personal Injury Accidents

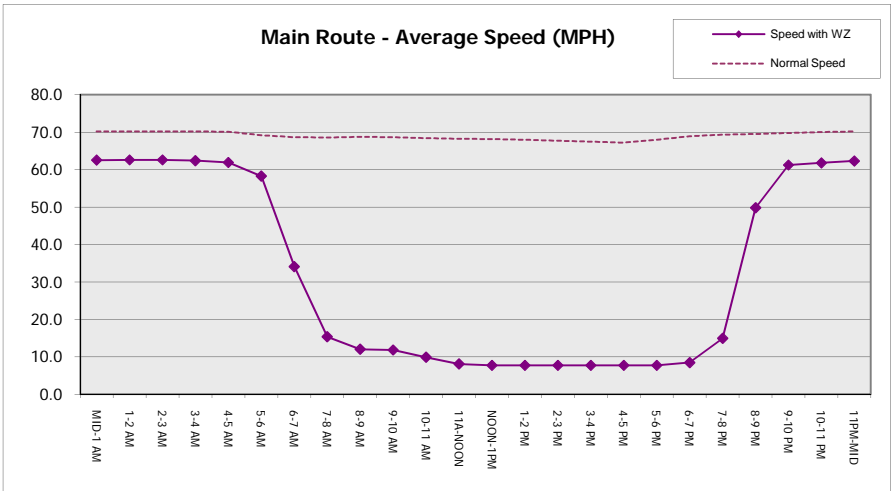
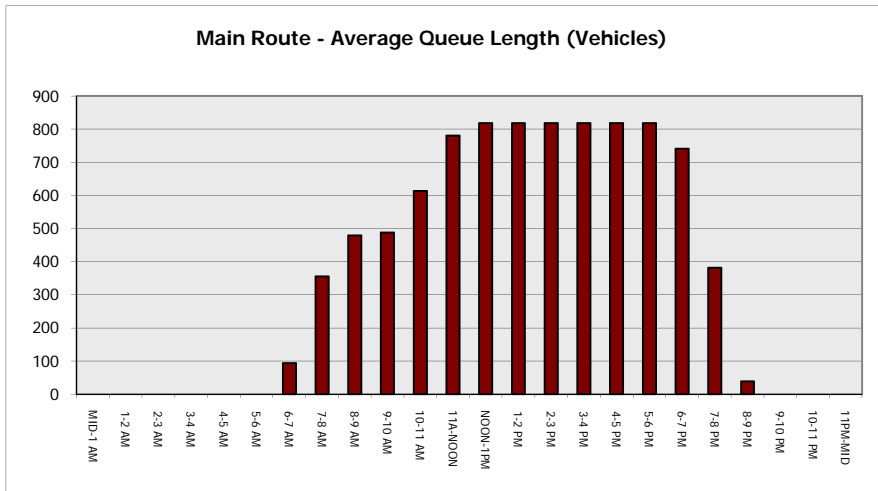
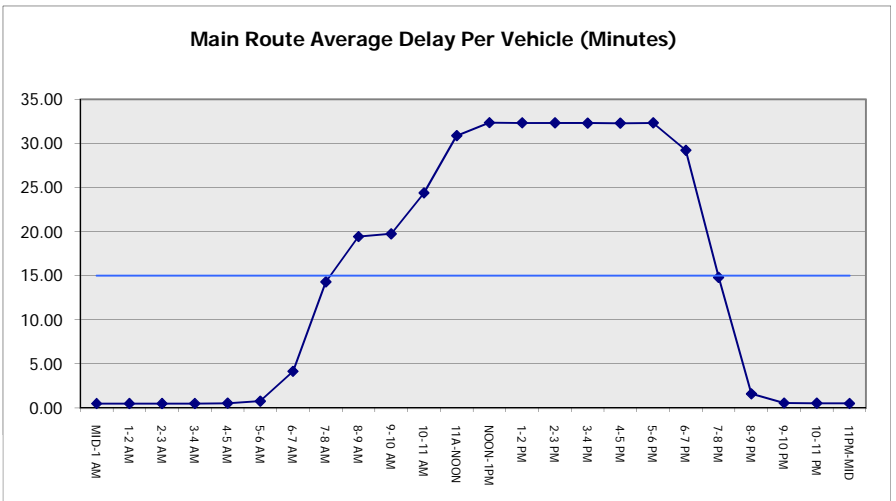
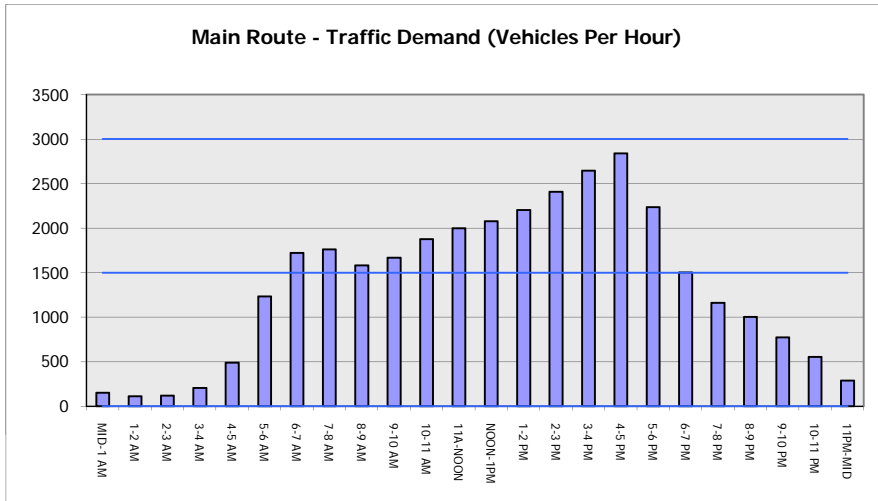
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$178,115
CONGESTED HOURS PER DAY*	11

*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)
 CONTINUOUS (24 HOUR) 2 LANE CLOSURE
 DIVERSION ROUTE: BUS 51 - STH 52**

AUGUST
 Analyzed for 2009
 Construction Season

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



USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY) CONTINUOUS (24 HOUR) 2 LANE CLOSURE DIVERSION ROUTE: BUS 51 - STH 52	AUGUST Analyzed for 2009 Construction Season
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SUMMARY OF TRAFFIC MODEL OUTPUT	
MON-THUR	NORTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							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	202	0.0	95	0.0	1500	202	0	95	0.50	0	70.2	62.5	44.6	31.1	31.1
1-2 AM	141	0.0	49	0.0	1500	141	0	49	0.49	0	70.2	62.5	44.9	32.2	32.2
2-3 AM	127	0.0	48	0.0	1500	127	0	48	0.49	0	70.2	62.6	45.0	32.2	32.2
3-4 AM	188	0.0	65	0.0	1500	188	0	65	0.50	0	70.2	62.5	44.7	31.8	31.8
4-5 AM	379	0.0	138	0.0	1500	379	0	138	0.52	0	70.2	62.2	44.0	29.9	29.9
5-6 AM	1037	0.0	397	0.0	1499	1037	0	397	0.66	0	69.4	59.7	39.9	23.0	23.2
6-7 AM	1939	0.0	849	0.0	1499	1939	0	849+	6.53	182	68.3	26.5	30.8	13.9	14.2
7-8 AM	2218	0.0	1082	0.0	1500	1881	337	1419+	28.03	723	68.0	8.8	30.8	11.2	11.2
8-9 AM	1645	0.0	756	0.0	1499	1369	276	1031+	30.77	778	68.7	8.1	30.8	15.8	11.7
9-10 AM	1675	0.0	646	0.0	1499	1449	226	872+	26.30	660	68.7	9.3	30.8	17.9	13.4
10-11 AM	1792	0.0	653	0.0	1500	1563	229	881+	26.60	668	68.5	9.2	30.8	17.8	13.3
11A-NOON	1845	0.0	692	0.0	1499	1555	290	982+	28.94	729	68.4	8.5	30.8	17.0	12.4
NOON-1PM	1895	0.0	698	0.0	1500	1557	338	1036+	30.96	782	68.4	8.0	30.8	16.9	11.6
1-2 PM	2001	0.0	723	0.0	1500	1501	500	1223+	32.33	818	68.2	7.7	30.8	16.4	11.2
2-3 PM	2342	0.0	804	0.0	1500	1500	842	1646+	32.31	818	67.8	7.7	30.8	14.8	11.2
3-4 PM	2390	0.0	930	0.0	1500	1500	890	1820+	32.31	818	67.8	7.7	30.8	12.8	11.2
4-5 PM	2603	0.0	938	0.0	1500	1500	1103	2041+	32.29	818	67.5	7.7	30.8	12.7	11.2
5-6 PM	2250	0.0	847	0.0	1500	1500	750	1597+	32.32	818	67.9	7.7	30.8	13.9	11.2
6-7 PM	1555	0.0	585	0.0	1500	1210	345	930+	27.33	693	68.8	8.9	30.8	19.1	13.0
7-8 PM	1176	0.0	408	0.0	1500	1110	65	473	12.56	327	69.2	17.0	32.0	22.7	21.5
8-9 PM	972	0.0	329	0.0	1500	972	0	329	1.08	19	69.6	54.8	41.5	24.8	24.8
9-10 PM	770	0.0	248	0.0	1500	770	0	248	0.56	0	69.8	61.2	42.5	27.0	27.0
10-11 PM	585	0.0	211	0.0	1500	585	0	211	0.54	0	70.0	61.7	43.2	27.9	27.9
11PM-MID	363	0.0	151	0.0	1500	363	0	151	0.52	0	70.2	62.2	44.0	29.5	29.5

+ 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	0.0240
MAIN ROUTE WITH WORKS	0.0177
DIVERSION	0.1761

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$185,390
CONGESTED HOURS PER DAY*	12

*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)
 CONTINUOUS (24 HOUR) 2 LANE CLOSURE
 DIVERSION ROUTE: BUS 51 - STH 52**

AUGUST
 Analyzed for 2009
 Construction Season

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

