

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

SATURDAY 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	263	0.0	122	0.0	1500	263	0	122	0.50	0	70.2	62.3	44.4	30.3	30.3
1-2 AM	143	0.0	65	0.0	1500	143	0	65	0.49	0	70.2	62.5	44.9	31.8	31.8
2-3 AM	111	0.0	56	0.0	1500	111	0	56	0.49	0	70.2	62.6	45.0	32.0	32.0
3-4 AM	126	0.0	44	0.0	1500	126	0	44	0.49	0	70.2	62.6	45.0	32.4	32.4
4-5 AM	184	0.0	63	0.0	1500	184	0	63	0.49	0	70.2	62.5	44.8	31.9	31.9
5-6 AM	365	0.0	80	0.0	1500	365	0	80	0.52	0	70.2	62.2	44.0	31.4	31.4
6-7 AM	567	0.0	148	0.0	1500	567	0	148	0.54	0	70.0	61.7	43.2	29.6	29.6
7-8 AM	922	0.0	236	0.0	1499	922	0	236	0.58	0	69.6	60.9	42.0	27.3	27.3
8-9 AM	1398	0.0	340	0.0	1499	1398	0	340	1.07	3	69.0	54.7	33.6	24.5	24.5
9-10 AM	1975	0.0	468	0.0	1500	1975	0	468	7.52	212	68.2	24.2	30.8	21.3	21.3
10-11 AM	2674	0.0	623	0.0	1499	1789	886	1509+	29.39	752	67.4	8.4	30.8	18.3	12.2
11A-NOON	2882	0.0	709	0.0	1499	1500	1382	2092+	32.27	818	67.1	7.7	30.8	16.6	11.2
NOON-1PM	2668	0.0	745	0.0	1499	1500	1168	1914+	32.29	818	67.4	7.7	30.8	16.0	11.2
1-2 PM	2311	0.0	709	0.0	1499	1500	811	1520+	32.32	818	67.9	7.7	30.8	16.6	11.2
2-3 PM	2136	0.0	672	0.0	1499	1500	636	1308+	32.33	818	68.1	7.7	30.8	17.4	11.2
3-4 PM	2106	0.0	661	0.0	1499	1500	606	1267+	32.33	818	68.1	7.7	30.8	17.6	11.2
4-5 PM	1745	0.0	596	0.0	1499	1376	369	965+	28.73	725	68.6	8.6	30.8	18.8	12.4
5-6 PM	1582	0.0	562	0.0	1500	1345	237	799	23.26	582	68.7	10.3	30.8	19.5	14.9
6-7 PM	1319	0.0	490	0.0	1499	1268	51	541	15.48	383	69.1	14.4	30.8	20.9	19.9
7-8 PM	1109	0.0	430	0.0	1499	1109	0	430	3.22	100	69.4	38.7	37.3	22.1	22.1
8-9 PM	975	0.0	404	0.0	1500	975	0	404	0.58	0	69.6	60.7	41.8	22.9	22.9
9-10 PM	960	0.0	345	0.0	1500	960	0	345	0.58	0	69.6	60.8	41.8	24.4	24.4
10-11 PM	599	0.0	248	0.0	1500	599	0	248	0.54	0	70.0	61.7	43.2	27.0	27.0
11PM-MID	464	0.0	172	0.0	1500	464	0	172	0.53	0	70.2	62.0	43.7	29.0	29.0

+ 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	0.0221
MAIN ROUTE WITH WORKS	0.0160
DIVERSION	0.1438

PIA: Personal Injury Accidents

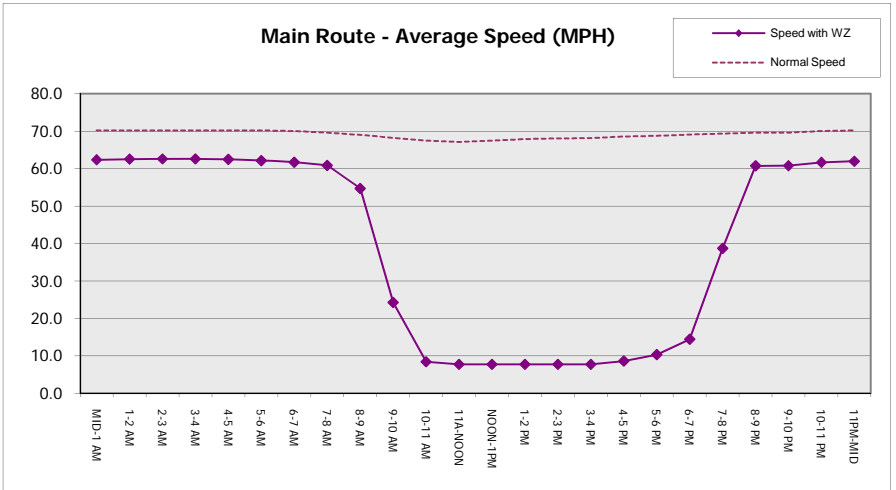
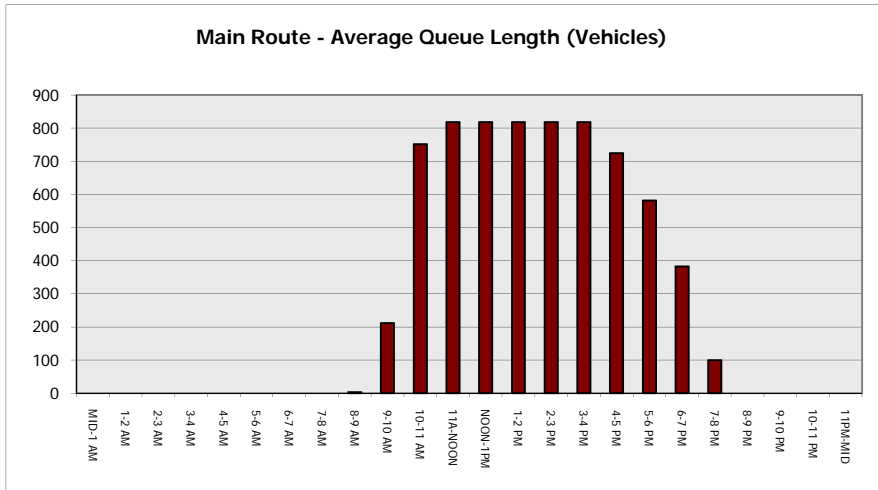
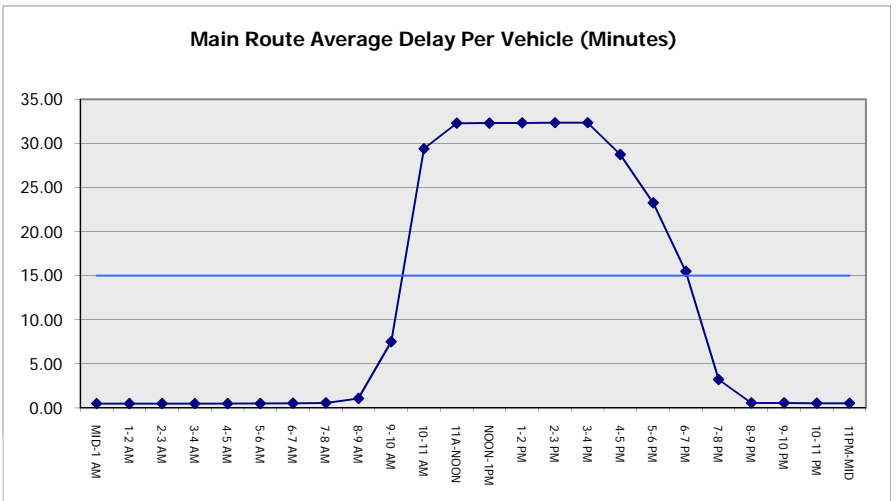
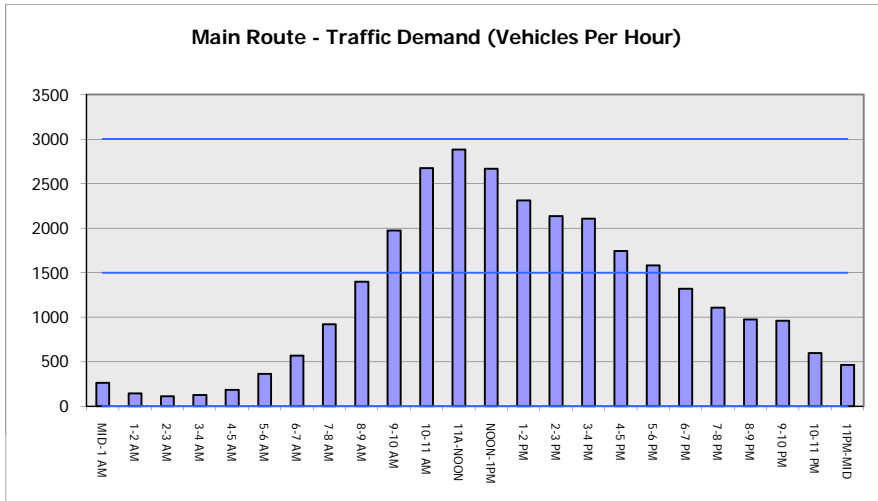
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$189,587
CONGESTED HOURS PER DAY*	9

*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
SATURDAY 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	
SATURDAY	NORTHBOUND 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	392	0.0	90	0.0	1500	392	0	90	0.52	0	70.2	62.1	43.9	31.2	31.2
1-2 AM	223	0.0	68	0.0	1500	223	0	68	0.50	0	70.2	62.4	44.6	31.7	31.7
2-3 AM	194	0.0	54	0.0	1500	194	0	54	0.50	0	70.2	62.5	44.7	32.1	32.1
3-4 AM	155	0.0	48	0.0	1500	155	0	48	0.49	0	70.2	62.5	44.8	32.2	32.2
4-5 AM	181	0.0	63	0.0	1500	181	0	63	0.49	0	70.2	62.5	44.8	31.9	31.9
5-6 AM	334	0.0	143	0.0	1500	334	0	143	0.51	0	70.2	62.2	44.2	29.7	29.7
6-7 AM	573	0.0	248	0.0	1500	573	0	248	0.54	0	70.0	61.7	43.2	27.0	27.0
7-8 AM	848	0.0	341	0.0	1500	848	0	341	0.57	0	69.7	61.0	42.2	24.5	24.5
8-9 AM	1294	0.0	498	0.0	1499	1294	0	498	0.82	0	69.1	57.5	36.0	20.7	20.7
9-10 AM	1790	0.0	616	0.0	1499	1790	0	616	4.57	113	68.5	32.5	30.8	18.4	18.4
10-11 AM	2308	0.0	726	0.0	1500	1993	315	1040+	23.15	621	67.9	10.3	31.7	16.3	14.0
11A-NOON	2586	0.0	734	0.0	1500	1500	1086	1820+	32.29	818	67.5	7.7	30.8	16.2	11.2
NOON-1PM	2714	0.0	705	0.0	1500	1500	1214	1919+	32.28	818	67.4	7.7	30.8	16.8	11.2
1-2 PM	2573	0.0	655	0.0	1500	1500	1072	1727+	32.30	818	67.6	7.7	30.8	17.7	11.2
2-3 PM	2331	0.0	604	0.0	1500	1500	831	1435+	32.31	818	67.8	7.7	30.8	18.7	11.2
3-4 PM	2079	0.0	559	0.0	1500	1502	577	1136+	32.31	818	68.1	7.7	30.8	19.6	11.2
4-5 PM	1760	0.0	536	0.0	1500	1350	410	946+	28.30	714	68.6	8.7	30.8	20.0	12.6
5-6 PM	1567	0.0	470	0.0	1499	1298	269	739	21.25	532	68.8	11.1	30.8	21.2	16.1
6-7 PM	1360	0.0	407	0.0	1500	1313	47	453	14.02	343	69.1	15.6	30.8	22.7	21.7
7-8 PM	1025	0.0	357	0.0	1499	1025	0	357	2.37	72	69.4	43.8	38.9	24.0	24.0
8-9 PM	897	0.0	288	0.0	1500	897	0	288	0.58	0	69.6	60.9	42.0	25.9	25.9
9-10 PM	839	0.0	249	0.0	1500	839	0	249	0.57	0	69.7	61.1	42.2	27.0	27.0
10-11 PM	594	0.0	178	0.0	1500	594	0	178	0.54	0	70.0	61.7	43.2	28.8	28.8
11PM-MID	441	0.0	125	0.0	1500	441	0	125	0.53	0	70.2	62.0	43.7	30.2	30.2

+ 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	0.0217
MAIN ROUTE WITH WORKS	0.0158
DIVERSION	0.1385

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$179,190
CONGESTED HOURS PER DAY*	8

*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
SATURDAY NORTHBOUND DIRECTION

