

**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

SUNDAY 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	261	0.0	100	0.0	1500	261	0	100	0.50	0	70.2	62.3	44.5	30.9	30.9
1-2 AM	145	0.0	60	0.0	1500	145	0	60	0.49	0	70.2	62.5	44.9	32.0	32.0
2-3 AM	123	0.0	54	0.0	1500	123	0	54	0.49	0	70.2	62.6	45.0	32.1	32.1
3-4 AM	108	0.0	33	0.0	1500	108	0	33	0.49	0	70.2	62.6	45.1	32.7	32.7
4-5 AM	124	0.0	32	0.0	1500	124	0	32	0.49	0	70.2	62.6	45.0	32.7	32.7
5-6 AM	201	0.0	42	0.0	1500	201	0	42	0.50	0	70.2	62.5	44.6	32.4	32.4
6-7 AM	352	0.0	79	0.0	1500	352	0	79	0.52	0	70.2	62.2	44.1	31.4	31.4
7-8 AM	640	0.0	142	0.0	1500	640	0	142	0.55	0	69.9	61.5	43.0	29.7	29.7
8-9 AM	1117	0.0	227	0.0	1499	1117	0	227	0.67	0	69.4	59.5	39.4	27.5	27.5
9-10 AM	1666	0.0	366	0.0	1499	1666	0	366	2.31	42	68.7	43.9	30.8	23.8	23.8
10-11 AM	2482	0.0	509	0.0	1500	2137	345	854+	19.25	540	67.6	12.0	30.8	20.5	16.4
11A-NOON	3160	0.0	677	0.0	1500	1500	1660	2338+	32.25	818	66.8	7.7	30.8	17.3	11.2
NOON-1PM	3571	0.0	762	0.0	1500	1500	2071	2833+	32.22	818	66.3	7.7	30.8	15.6	11.2
1-2 PM	3792	0.0	810	0.0	1500	1500	2292	3102+	32.13	818	65.0	7.7	30.8	14.7	11.2
2-3 PM	3772	0.0	817	0.0	1500	1500	2272	3089+	32.14	818	65.1	7.7	30.8	14.5	11.2
3-4 PM	3601	0.0	832	0.0	1500	1500	2101	2933+	32.22	818	66.3	7.7	30.8	14.3	11.2
4-5 PM	3237	0.0	791	0.0	1500	1500	1736	2527+	32.24	818	66.7	7.7	30.8	15.1	11.2
5-6 PM	2682	0.0	724	0.0	1500	1500	1182	1905+	32.29	818	67.4	7.7	30.8	16.4	11.2
6-7 PM	2135	0.0	634	0.0	1500	1500	635	1269+	32.33	818	68.1	7.7	30.8	18.1	11.2
7-8 PM	1614	0.0	532	0.0	1500	1226	388	920+	26.95	683	68.7	9.1	30.8	20.1	13.1
8-9 PM	1119	0.0	420	0.0	1499	1056	63	483	11.55	313	69.4	18.1	33.3	22.4	21.2
9-10 PM	790	0.0	302	0.0	1500	790	0	302	0.73	5	69.7	59.1	42.4	25.5	25.5
10-11 PM	498	0.0	206	0.0	1500	498	0	206	0.53	0	70.1	61.9	43.5	28.1	28.1
11PM-MID	259	0.0	108	0.0	1500	259	0	108	0.50	0	70.2	62.3	44.5	30.7	30.7

+ 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	0.0280
MAIN ROUTE WITH WORKS	0.0155
DIVERSION	0.2280

PIA: Personal Injury Accidents

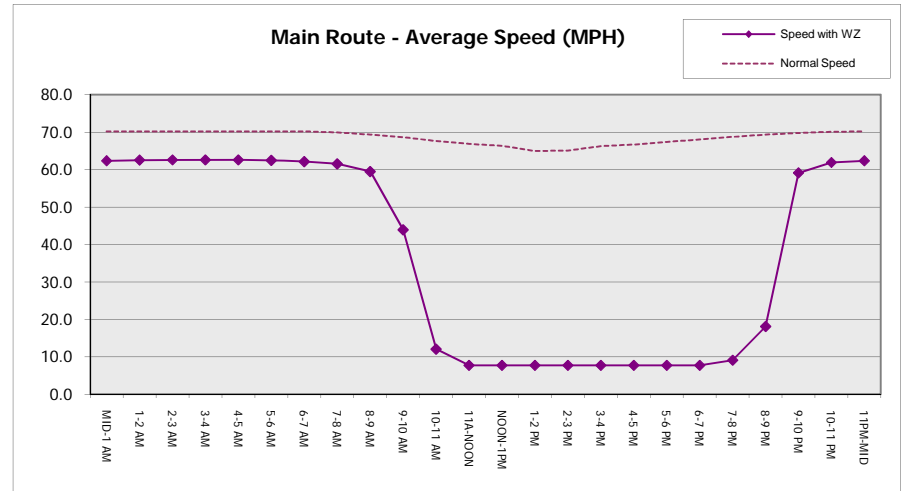
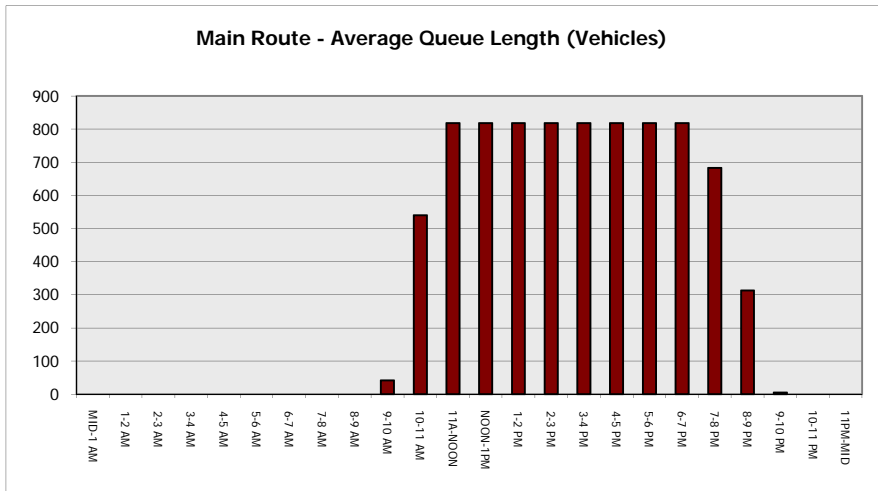
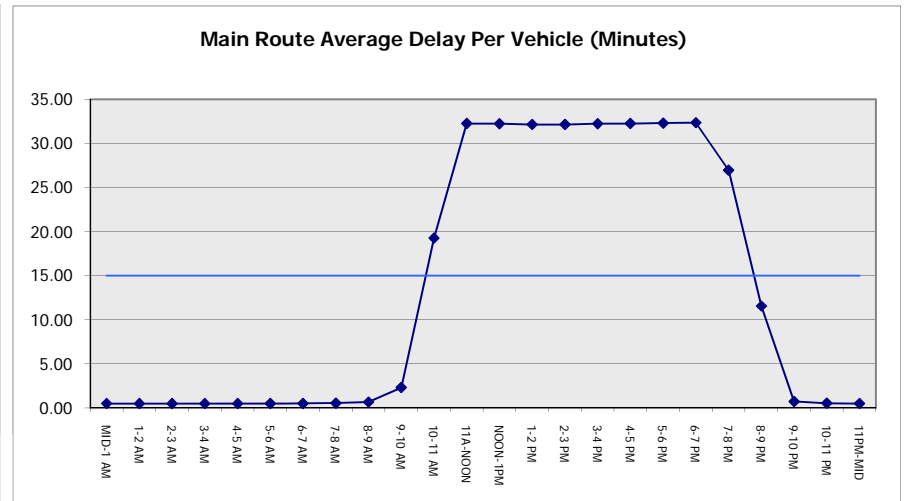
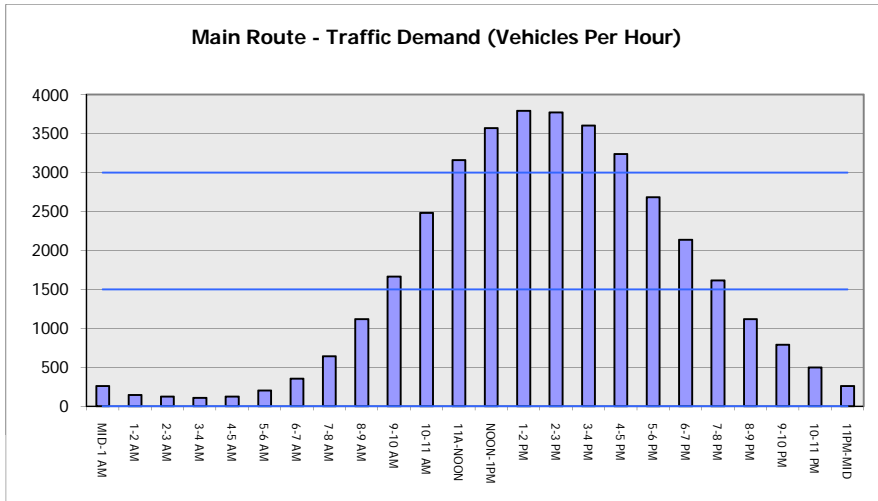
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$297,685
CONGESTED HOURS PER DAY*	10

*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
SUNDAY 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

SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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		SITE	ALTERNATE ROUTE	
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN		WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	252	0.0	90	0.0	1500	252	0	90	0.50	0	70.2	62.3	44.5	31.2	31.2
1-2 AM	150	0.0	62	0.0	1500	150	0	62	0.49	0	70.2	62.5	44.9	31.9	31.9
2-3 AM	132	0.0	50	0.0	1500	132	0	50	0.49	0	70.2	62.5	45.0	32.2	32.2
3-4 AM	96	0.0	39	0.0	1500	96	0	39	0.48	0	70.2	62.6	45.1	32.5	32.5
4-5 AM	94	0.0	33	0.0	1500	94	0	33	0.48	0	70.2	62.6	45.1	32.7	32.7
5-6 AM	154	0.0	73	0.0	1500	154	0	73	0.49	0	70.2	62.5	44.8	31.6	31.6
6-7 AM	305	0.0	122	0.0	1500	305	0	122	0.51	0	70.2	62.3	44.3	30.3	30.3
7-8 AM	418	0.0	182	0.0	1500	418	0	182	0.52	0	70.2	62.1	43.8	28.7	28.7
8-9 AM	687	0.0	301	0.0	1500	687	0	301	0.55	0	69.9	61.5	42.8	25.6	25.6
9-10 AM	1057	0.0	462	0.0	1499	1057	0	462	0.61	0	69.4	60.3	40.9	21.4	21.5
10-11 AM	1465	0.0	558	0.0	1499	1465	0	558	1.30	8	68.9	52.3	32.4	19.6	19.6
11A-NOON	1884	0.0	687	0.0	1500	1884	0	687	7.78	205	68.4	23.7	30.8	17.1	17.1
NOON-1PM	2129	0.0	726	0.0	1500	1888	241	967+	25.86	668	68.1	9.4	31.1	16.3	13.5
1-2 PM	2141	0.0	708	0.0	1500	1500	641	1349+	32.33	819	68.1	7.7	30.7	16.7	11.2
2-3 PM	2223	0.0	684	0.0	1500	1500	722	1406+	32.32	819	68.0	7.7	30.7	17.1	11.2
3-4 PM	2116	0.0	647	0.0	1500	1500	615	1263+	32.33	819	68.1	7.7	30.7	17.8	11.2
4-5 PM	1911	0.0	624	0.0	1500	1476	435	1058+	31.91	807	68.4	7.8	30.7	18.3	11.3
5-6 PM	1723	0.0	544	0.0	1500	1333	390	933+	27.70	699	68.6	8.9	30.7	19.9	12.8
6-7 PM	1500	0.0	471	0.0	1499	1277	223	694	19.96	500	68.9	11.7	30.8	21.2	17.0
7-8 PM	1207	0.0	377	0.0	1499	1194	12	389	9.79	250	69.2	20.3	32.3	23.5	23.2
8-9 PM	971	0.0	306	0.0	1500	971	0	306	0.80	7	69.6	58.0	41.7	25.4	25.4
9-10 PM	730	0.0	234	0.0	1500	730	0	234	0.56	0	69.8	61.4	42.7	27.3	27.3
10-11 PM	516	0.0	170	0.0	1500	516	0	170	0.53	0	70.1	61.9	43.5	29.0	29.0
11PM-MID	312	0.0	132	0.0	1500	312	0	132	0.51	0	70.2	62.2	44.2	30.1	30.1

+ 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	0.0181
MAIN ROUTE WITH WORKS	0.0142
DIVERSION	0.1098

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$136,766
CONGESTED HOURS PER DAY*	7

*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
SUNDAY NORTHBOUND DIRECTION

