

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)
CONTINUOUS (24 HOUR) 1 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	3000	261	0	100	0.36	0	70.2	64.4	49.7	30.9	30.9
1-2 AM	145	0.0	60	0.0	3000	145	0	60	0.36	0	70.2	64.4	49.7	32.0	32.0
2-3 AM	123	0.0	54	0.0	3000	123	0	54	0.36	0	70.2	64.4	49.7	32.1	32.1
3-4 AM	108	0.0	33	0.0	3000	108	0	33	0.36	0	70.2	64.4	49.7	32.7	32.7
4-5 AM	124	0.0	32	0.0	3000	124	0	32	0.36	0	70.2	64.4	49.7	32.7	32.7
5-6 AM	201	0.0	42	0.0	3000	201	0	42	0.36	0	70.2	64.4	49.7	32.4	32.4
6-7 AM	352	0.0	79	0.0	3000	352	0	79	0.36	0	70.2	64.4	49.7	31.4	31.4
7-8 AM	640	0.0	142	0.0	3000	640	0	142	0.36	0	69.9	64.3	49.7	29.7	29.7
8-9 AM	1117	0.0	227	0.0	3000	1117	0	227	0.35	0	69.4	63.8	49.7	27.5	27.5
9-10 AM	1666	0.0	366	0.0	3000	1666	0	366	0.34	0	68.7	63.4	49.7	23.8	23.8
10-11 AM	2482	0.0	509	0.0	2999	2482	0	509	0.42	0	67.6	61.5	46.4	20.5	20.5
11A-NOON	3160	0.0	677	0.0	2999	3160	0	677	1.47	46	66.8	49.6	37.3	17.3	17.3
NOON-1PM	3571	0.0	762	0.0	3000	3571	0	762	7.82	426	66.3	23.3	37.3	15.6	15.6
1-2 PM	3792	0.0	810	0.0	3000	3784	9	819+	20.52	1120	65.0	12.4	37.3	14.7	15.3
2-3 PM	3772	0.0	817	0.0	3000	3258	514	1331+	31.89	1727	65.1	10.2	37.3	14.5	13.5
3-4 PM	3601	0.0	832	0.0	3000	3000	601	1433+	33.12	1788	66.3	10.1	37.3	14.3	13.3
4-5 PM	3237	0.0	791	0.0	3000	2944	293	1083+	32.83	1770	66.7	10.1	37.3	15.1	13.4
5-6 PM	2682	0.0	724	0.0	3000	2487	195	919+	27.53	1480	67.4	10.8	37.3	16.4	14.7
6-7 PM	2135	0.0	634	0.0	2999	2123	12	646	14.02	794	68.1	15.8	39.9	18.1	18.1
7-8 PM	1614	0.0	532	0.0	3000	1614	0	532	0.82	42	68.7	57.3	49.7	20.1	20.1
8-9 PM	1119	0.0	420	0.0	3000	1119	0	420	0.35	0	69.4	63.8	49.7	22.4	22.4
9-10 PM	790	0.0	302	0.0	3000	790	0	302	0.35	0	69.7	64.1	49.7	25.5	25.5
10-11 PM	498	0.0	206	0.0	3000	498	0	206	0.36	0	70.1	64.4	49.7	28.1	28.1
11PM-MID	259	0.0	108	0.0	3000	259	0	108	0.36	0	70.2	64.4	49.7	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	0.0244
DIVERSION	0.1034

PIA: Personal Injury Accidents

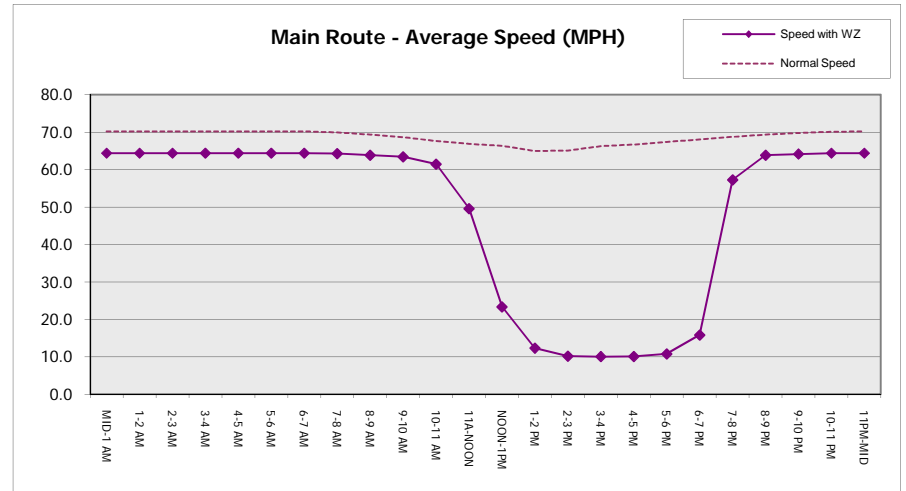
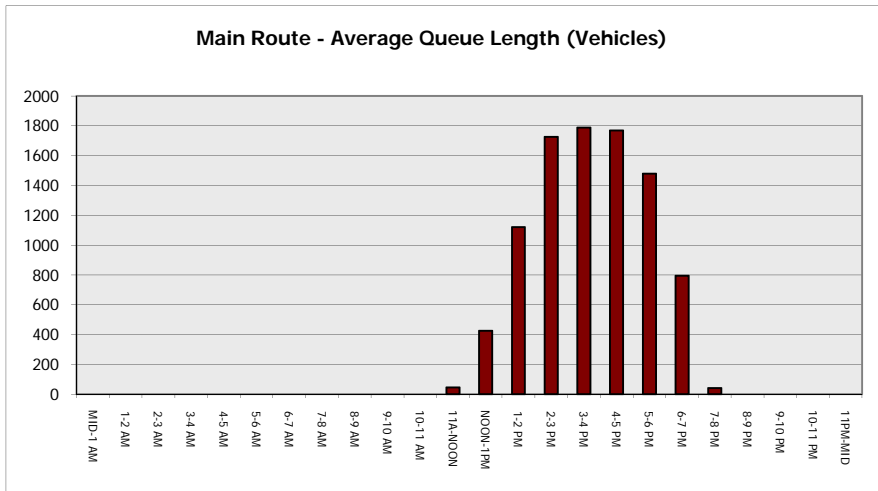
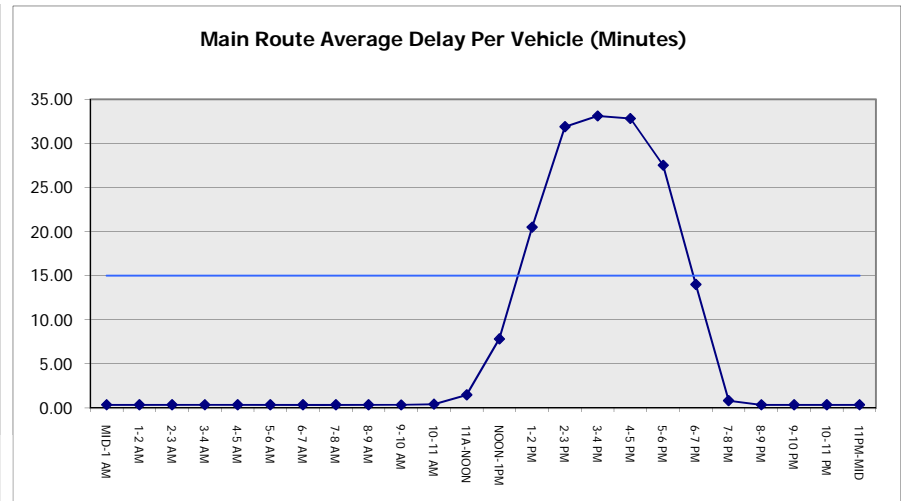
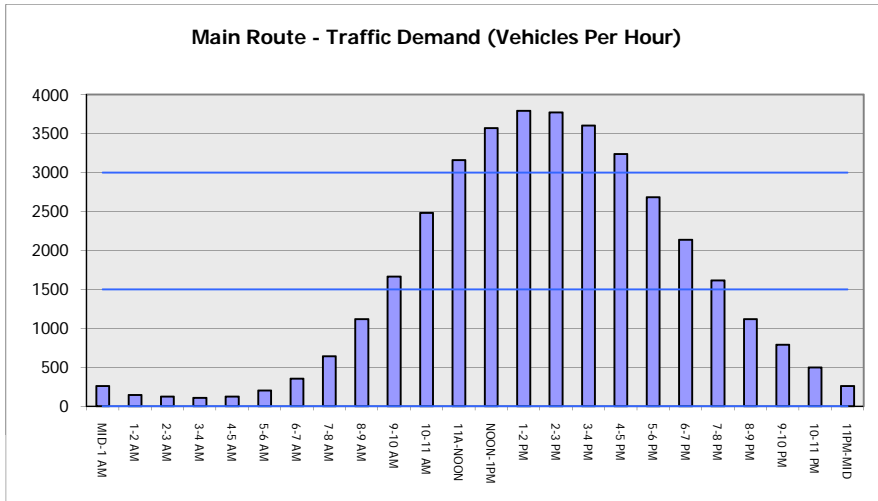
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$167,770
CONGESTED HOURS PER DAY*	5

*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)
 CONTINUOUS (24 HOUR) 1 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) 1 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	3000	252	0	90	0.36	0	70.2	64.4	49.7	31.2	31.2
1-2 AM	150	0.0	62	0.0	3000	150	0	62	0.36	0	70.2	64.4	49.7	31.9	31.9
2-3 AM	132	0.0	50	0.0	3000	132	0	50	0.36	0	70.2	64.4	49.7	32.2	32.2
3-4 AM	96	0.0	39	0.0	3000	96	0	39	0.36	0	70.2	64.4	49.7	32.5	32.5
4-5 AM	94	0.0	33	0.0	3000	94	0	33	0.36	0	70.2	64.4	49.7	32.7	32.7
5-6 AM	154	0.0	73	0.0	3000	154	0	73	0.36	0	70.2	64.4	49.7	31.6	31.6
6-7 AM	305	0.0	122	0.0	3000	305	0	122	0.36	0	70.2	64.4	49.7	30.3	30.3
7-8 AM	418	0.0	182	0.0	3000	418	0	182	0.36	0	70.2	64.4	49.7	28.7	28.7
8-9 AM	687	0.0	301	0.0	3000	687	0	301	0.36	0	69.9	64.2	49.7	25.6	25.6
9-10 AM	1057	0.0	462	0.0	3000	1057	0	462	0.35	0	69.4	63.9	49.7	21.4	21.4
10-11 AM	1465	0.0	558	0.0	3000	1465	0	558	0.34	0	68.9	63.6	49.7	19.6	19.6
11A-NOON	1884	0.0	687	0.0	3000	1884	0	687	0.34	0	68.4	63.2	49.7	17.1	17.1
NOON-1PM	2129	0.0	726	0.0	3000	2129	0	726	0.33	0	68.1	63.0	49.7	16.3	16.3
1-2 PM	2141	0.0	708	0.0	3000	2141	0	708	0.33	0	68.1	63.0	49.7	16.7	16.7
2-3 PM	2223	0.0	684	0.0	3000	2223	0	684	0.33	0	68.0	63.0	49.7	17.1	17.1
3-4 PM	2116	0.0	647	0.0	3000	2116	0	647	0.33	0	68.1	63.0	49.7	17.8	17.8
4-5 PM	1911	0.0	624	0.0	3000	1911	0	624	0.34	0	68.4	63.2	49.7	18.3	18.3
5-6 PM	1723	0.0	544	0.0	3000	1723	0	544	0.34	0	68.6	63.3	49.7	19.9	19.9
6-7 PM	1500	0.0	471	0.0	3000	1500	0	471	0.34	0	68.9	63.5	49.7	21.2	21.2
7-8 PM	1207	0.0	377	0.0	3000	1207	0	377	0.35	0	69.2	63.8	49.7	23.5	23.5
8-9 PM	971	0.0	306	0.0	3000	971	0	306	0.35	0	69.6	64.0	49.7	25.4	25.4
9-10 PM	730	0.0	234	0.0	3000	730	0	234	0.35	0	69.8	64.1	49.7	27.3	27.3
10-11 PM	516	0.0	170	0.0	3000	516	0	170	0.36	0	70.1	64.3	49.7	29.0	29.0
11PM-MID	312	0.0	132	0.0	3000	312	0	132	0.36	0	70.2	64.4	49.7	30.1	30.1

----- 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	0.0165
DIVERSION	0.0787

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$2,445
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)
 CONTINUOUS (24 HOUR) 1 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

