

USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY) OFF-PEAK DAY 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	OFF	261	0	100	0.00	0	70.2	70.2	70.2	30.9	30.9
1-2 AM	145	0.0	60	0.0	OFF	145	0	60	0.00	0	70.2	70.2	70.2	32.0	32.0
2-3 AM	123	0.0	54	0.0	OFF	123	0	54	0.00	0	70.2	70.2	70.2	32.1	32.1
3-4 AM	108	0.0	33	0.0	OFF	108	0	33	0.00	0	70.2	70.2	70.2	32.7	32.7
4-5 AM	124	0.0	32	0.0	OFF	124	0	32	0.00	0	70.2	70.2	70.2	32.7	32.7
5-6 AM	201	0.0	42	0.0	OFF	201	0	42	0.00	0	70.2	70.2	70.2	32.4	32.4
6-7 AM	352	0.0	79	0.0	OFF	352	0	79	0.00	0	70.2	70.2	70.2	31.4	31.4
7-8 AM	640	0.0	142	0.0	OFF	640	0	142	0.00	0	69.9	69.9	69.9	29.7	29.7
8-9 AM	1117	0.0	227	0.0	OFF	1117	0	227	0.00	0	69.4	69.4	69.4	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	OFF	1614	0	532	0.15	12	68.7	66.4	66.4	20.1	20.1
8-9 PM	1119	0.0	420	0.0	OFF	1119	0	420	0.00	0	69.4	69.4	69.4	22.4	22.4
9-10 PM	790	0.0	302	0.0	OFF	790	0	302	0.00	0	69.7	69.7	69.7	25.5	25.5
10-11 PM	498	0.0	206	0.0	OFF	498	0	206	0.00	0	70.1	70.1	70.1	28.1	28.1
11PM-MID	259	0.0	108	0.0	OFF	259	0	108	0.00	0	70.2	70.2	70.2	30.7	30.7

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ 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	0.0280
MAIN ROUTE WITH WORKS	0.0249
DIVERSION	0.1034

PIA: Personal Injury Accidents

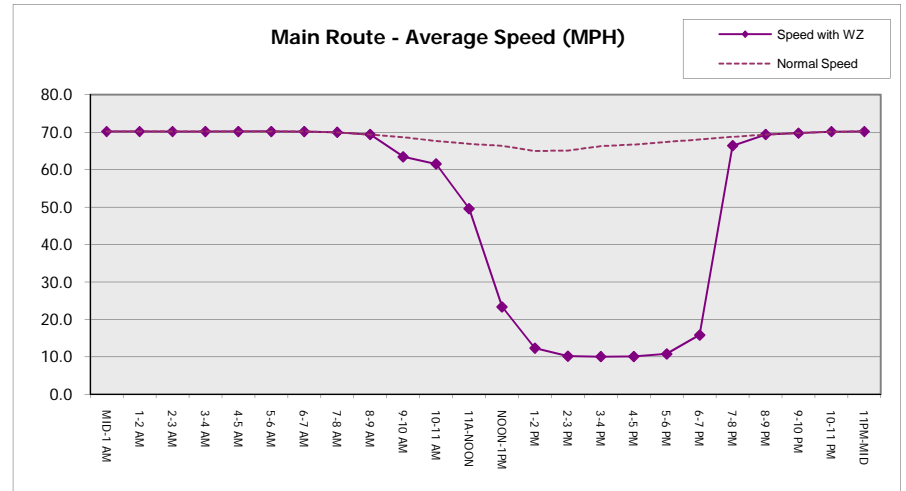
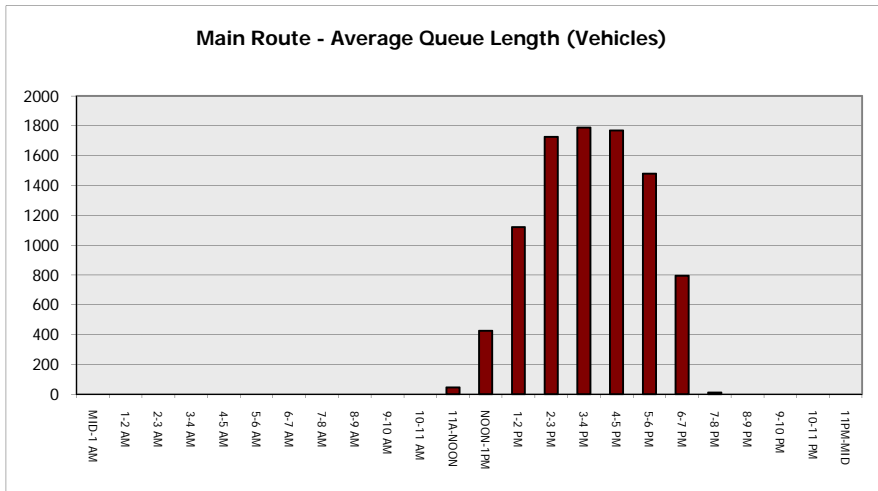
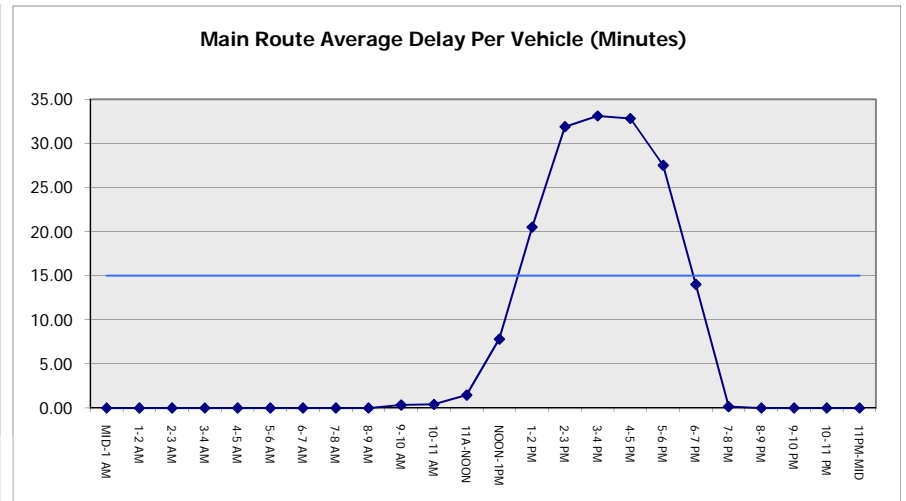
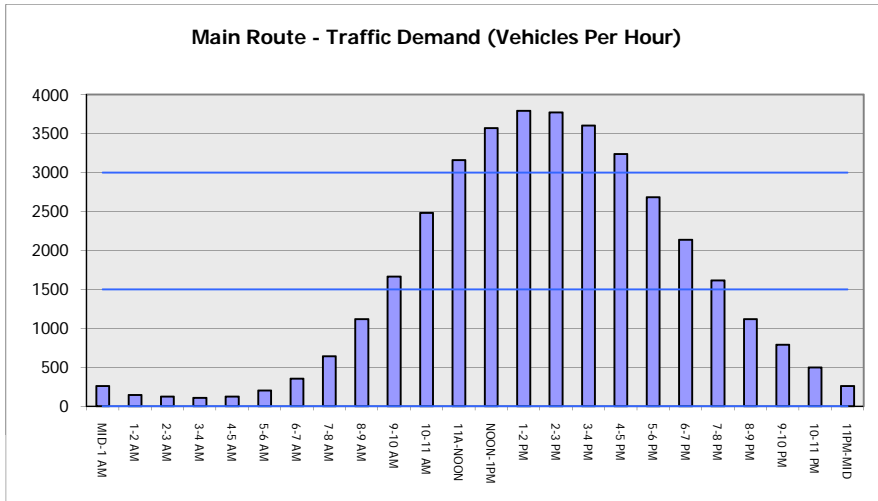
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$166,535
CONGESTED HOURS PER DAY*	5

*Delays Exceeding 15 Minutes

USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)
OFF-PEAK DAY 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) OFF-PEAK DAY 1 LANE CLOSURE DIVERSION ROUTE: BUS 51 - STH 52	AUGUST Analyzed for 2009 Construction Season
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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	OFF	252	0	90	0.00	0	70.2	70.2	70.2	31.2	31.2
1-2 AM	150	0.0	62	0.0	OFF	150	0	62	0.00	0	70.2	70.2	70.2	31.9	31.9
2-3 AM	132	0.0	50	0.0	OFF	132	0	50	0.00	0	70.2	70.2	70.2	32.2	32.2
3-4 AM	96	0.0	39	0.0	OFF	96	0	39	0.00	0	70.2	70.2	70.2	32.5	32.5
4-5 AM	94	0.0	33	0.0	OFF	94	0	33	0.00	0	70.2	70.2	70.2	32.7	32.7
5-6 AM	154	0.0	73	0.0	OFF	154	0	73	0.00	0	70.2	70.2	70.2	31.6	31.6
6-7 AM	305	0.0	122	0.0	OFF	305	0	122	0.00	0	70.2	70.2	70.2	30.3	30.3
7-8 AM	418	0.0	182	0.0	OFF	418	0	182	0.00	0	70.2	70.2	70.2	28.7	28.7
8-9 AM	687	0.0	301	0.0	OFF	687	0	301	0.00	0	69.9	69.9	69.9	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	OFF	1207	0	377	0.00	0	69.2	69.2	69.2	23.5	23.5
8-9 PM	971	0.0	306	0.0	OFF	971	0	306	0.00	0	69.6	69.6	69.6	25.4	25.4
9-10 PM	730	0.0	234	0.0	OFF	730	0	234	0.00	0	69.8	69.8	69.8	27.3	27.3
10-11 PM	516	0.0	170	0.0	OFF	516	0	170	0.00	0	70.1	70.1	70.1	29.0	29.0
11PM-MID	312	0.0	132	0.0	OFF	312	0	132	0.00	0	70.2	70.2	70.2	30.1	30.1

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

----- 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	0.0169
DIVERSION	0.0787

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$1,807
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)
OFF-PEAK DAY 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

