

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

OCTOBER

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	243	0.0	102	0.0	1500	243	0	102	0.50	0	70.2	62.3	44.5	30.8	30.8
1-2 AM	151	0.0	64	0.0	1500	151	0	64	0.49	0	70.2	62.5	44.9	31.9	31.9
2-3 AM	130	0.0	57	0.0	1500	130	0	57	0.49	0	70.2	62.5	45.0	32.0	32.0
3-4 AM	89	0.0	32	0.0	1500	89	0	32	0.48	0	70.2	62.7	45.1	32.7	32.7
4-5 AM	95	0.0	37	0.0	1500	95	0	37	0.48	0	70.2	62.6	45.1	32.5	32.5
5-6 AM	221	0.0	46	0.0	1500	221	0	46	0.50	0	70.2	62.4	44.6	32.3	32.3
6-7 AM	290	0.0	94	0.0	1500	290	0	94	0.51	0	70.2	62.3	44.3	31.1	31.1
7-8 AM	486	0.0	190	0.0	1500	486	0	190	0.53	0	70.1	61.9	43.5	28.5	28.5
8-9 AM	845	0.0	341	0.0	1500	845	0	341	0.57	0	69.7	61.0	42.2	24.5	24.5
9-10 AM	1523	0.0	464	0.0	1499	1523	0	464	1.75	24	68.9	48.2	32.5	21.4	21.4
10-11 AM	2233	0.0	587	0.0	1500	2155	78	665	14.28	409	67.9	15.3	30.8	19.0	17.5
11A-NOON	2863	0.0	789	0.0	1500	1500	1363	2151+	32.27	818	67.2	7.7	30.8	15.2	11.2
NOON-1PM	3327	0.0	860	0.0	1500	1500	1827	2687+	32.24	818	66.6	7.7	30.8	13.7	11.2
1-2 PM	3465	0.0	792	0.0	1500	1500	1965	2757+	32.23	818	66.4	7.7	30.8	15.1	11.2
2-3 PM	3521	0.0	826	0.0	1500	1500	2020	2846+	32.22	818	66.4	7.7	30.8	14.4	11.2
3-4 PM	3334	0.0	801	0.0	1500	1500	1834	2635+	32.24	818	66.6	7.7	30.8	14.9	11.2
4-5 PM	2809	0.0	728	0.0	1500	1500	1309	2037+	32.28	818	67.3	7.7	30.8	16.3	11.2
5-6 PM	2263	0.0	664	0.0	1500	1500	763	1427+	32.32	818	67.9	7.7	30.8	17.5	11.2
6-7 PM	1789	0.0	573	0.0	1500	1392	398	971+	28.85	728	68.5	8.6	30.8	19.3	12.4
7-8 PM	1209	0.0	475	0.0	1499	1076	132	607	16.63	432	69.2	13.6	31.4	21.2	18.6
8-9 PM	830	0.0	303	0.0	1500	830	0	303	1.52	41	69.7	50.7	42.0	25.5	25.5
9-10 PM	518	0.0	208	0.0	1500	518	0	208	0.53	0	70.1	61.9	43.4	28.0	28.0
10-11 PM	334	0.0	163	0.0	1500	334	0	163	0.51	0	70.2	62.2	44.2	29.2	29.2
11PM-MID	198	0.0	75	0.0	1500	198	0	75	0.50	0	70.2	62.5	44.7	31.5	31.5

+ 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	0.0245
MAIN ROUTE WITH WORKS	0.0144
DIVERSION	0.1991

PIA: Personal Injury Accidents

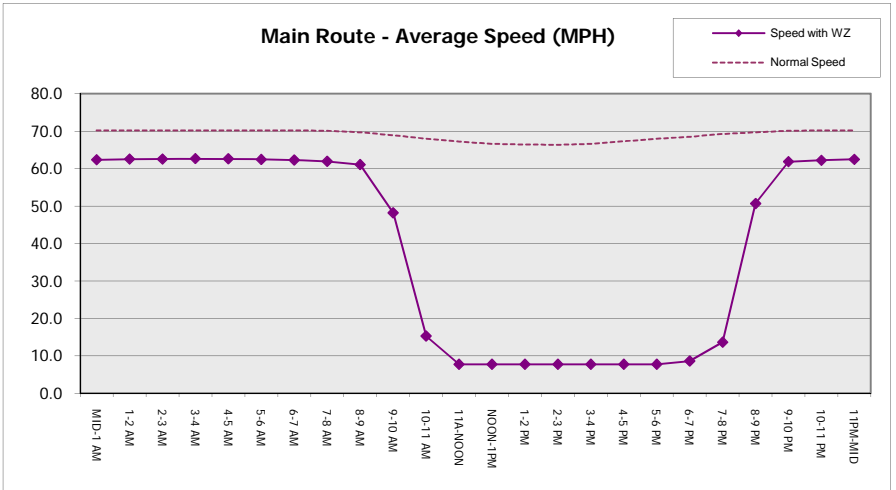
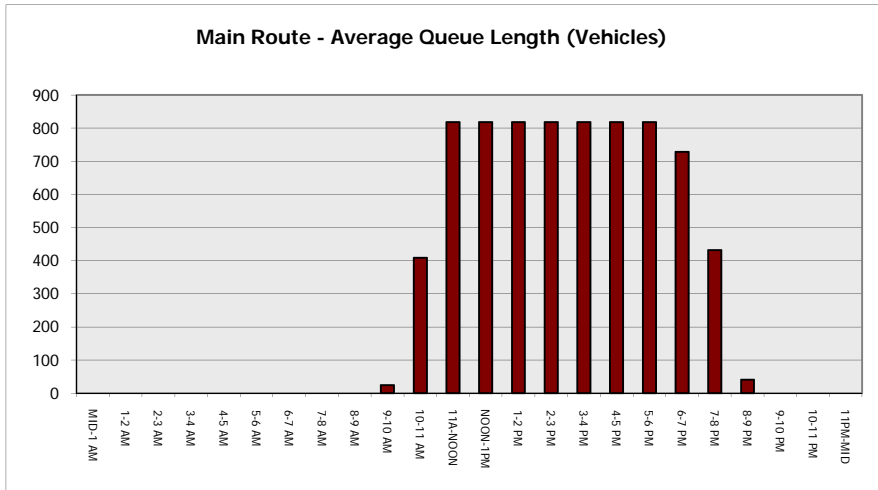
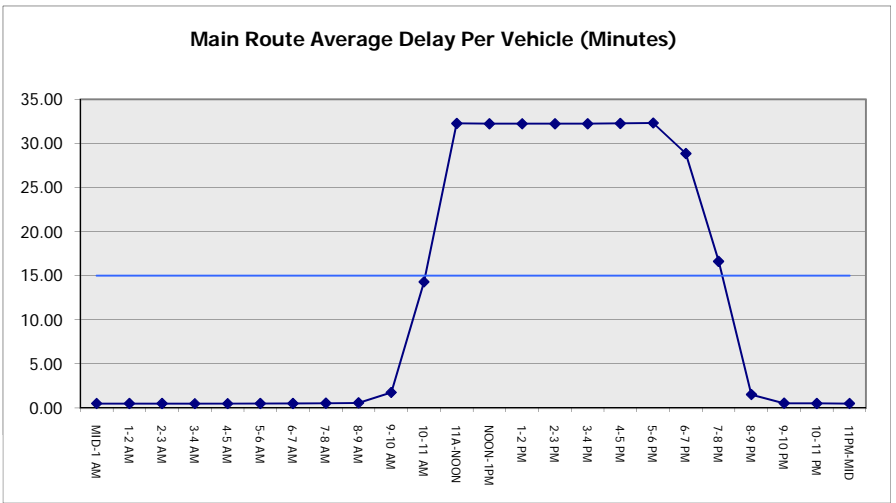
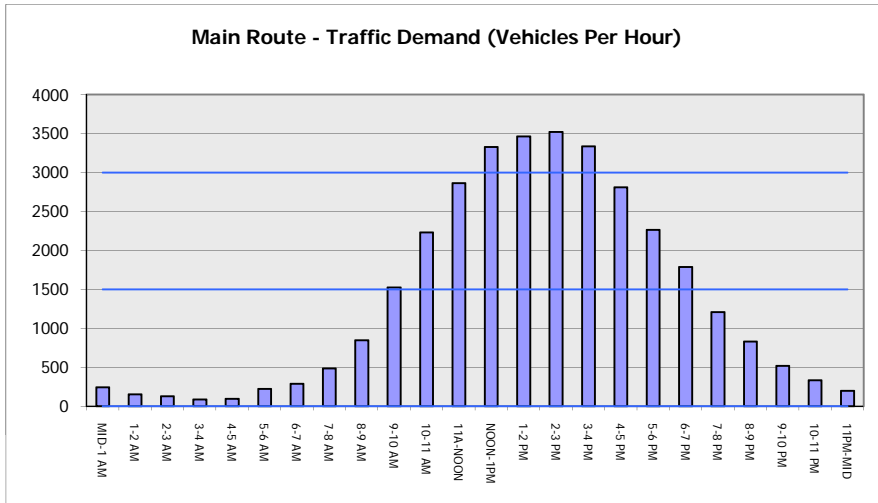
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$252,001
CONGESTED HOURS PER DAY*	9

*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**

OCTOBER
 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	OCTOBER 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	258	0.0	118	0.0	1500	258	0	118	0.50	0	70.2	62.3	44.5	30.4	30.4
1-2 AM	182	0.0	73	0.0	1500	182	0	73	0.49	0	70.2	62.5	44.8	31.6	31.6
2-3 AM	140	0.0	64	0.0	1500	140	0	64	0.49	0	70.2	62.5	44.9	31.9	31.9
3-4 AM	102	0.0	38	0.0	1500	102	0	38	0.48	0	70.2	62.6	45.1	32.5	32.5
4-5 AM	84	0.0	38	0.0	1500	84	0	38	0.48	0	70.2	62.7	45.1	32.5	32.5
5-6 AM	175	0.0	85	0.0	1500	175	0	85	0.49	0	70.2	62.5	44.8	31.3	31.3
6-7 AM	299	0.0	119	0.0	1500	299	0	119	0.51	0	70.2	62.3	44.3	30.4	30.4
7-8 AM	424	0.0	194	0.0	1500	424	0	194	0.52	0	70.2	62.0	43.8	28.4	28.4
8-9 AM	679	0.0	286	0.0	1500	679	0	286	0.55	0	69.9	61.5	42.8	26.0	26.0
9-10 AM	1012	0.0	463	0.0	1500	1012	0	463	0.59	0	69.5	60.7	41.6	21.4	21.4
10-11 AM	1335	0.0	601	0.0	1499	1335	0	601	0.88	0	69.1	56.8	34.7	18.8	18.8
11A-NOON	1606	0.0	701	0.0	1499	1606	0	701	2.37	37	68.7	43.5	30.8	16.8	16.8
NOON-1PM	1824	0.0	728	0.0	1500	1824	0	728	10.26	259	68.5	19.6	30.8	16.3	16.3
1-2 PM	1868	0.0	674	0.0	1499	1754	114	789	22.89	577	68.4	10.4	30.8	17.3	15.1
2-3 PM	1840	0.0	703	0.0	1499	1569	270	973+	28.79	725	68.4	8.6	30.8	16.8	12.4
3-4 PM	1829	0.0	705	0.0	1500	1513	316	1021+	30.35	766	68.4	8.2	30.8	16.8	11.8
4-5 PM	1656	0.0	703	0.0	1500	1405	252	955+	28.42	716	68.7	8.6	30.8	16.8	12.5
5-6 PM	1587	0.0	686	0.0	1500	1416	171	857+	25.57	641	68.7	9.5	30.8	17.1	13.7
6-7 PM	1294	0.0	503	0.0	1499	1194	100	604	17.09	431	69.1	13.3	30.8	20.6	18.7
7-8 PM	957	0.0	448	0.0	1499	957	0	448	2.51	83	69.6	42.9	39.4	21.7	21.7
8-9 PM	696	0.0	391	0.0	1500	696	0	391	0.55	0	69.9	61.4	42.8	23.2	23.2
9-10 PM	527	0.0	238	0.0	1500	527	0	238	0.54	0	70.0	61.9	43.4	27.2	27.2
10-11 PM	368	0.0	133	0.0	1500	368	0	133	0.52	0	70.2	62.2	44.0	30.0	30.0
11PM-MID	212	0.0	67	0.0	1500	212	0	67	0.50	0	70.2	62.4	44.6	31.7	31.7

+ 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	0.0157
MAIN ROUTE WITH WORKS	0.0134
DIVERSION	0.0948

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$90,685
CONGESTED HOURS PER DAY*	6

*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) 2 LANE CLOSURE
 DIVERSION ROUTE: BUS 51 - STH 52**

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY NORTHBOUND DIRECTION

