

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

MAY
 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	207	0.0	97	0.0	1500	207	0	97	0.50	0	70.2	62.4	44.6	30.9	30.9
1-2 AM	120	0.0	67	0.0	1500	120	0	67	0.49	0	70.2	62.6	45.0	31.7	31.7
2-3 AM	90	0.0	48	0.0	1500	90	0	48	0.48	0	70.2	62.7	45.1	32.3	32.3
3-4 AM	90	0.0	37	0.0	1500	90	0	37	0.48	0	70.2	62.7	45.1	32.5	32.5
4-5 AM	104	0.0	53	0.0	1500	104	0	53	0.48	0	70.2	62.6	45.1	32.1	32.1
5-6 AM	188	0.0	61	0.0	1500	188	0	61	0.50	0	70.2	62.5	44.7	31.9	31.9
6-7 AM	341	0.0	119	0.0	1500	341	0	119	0.51	0	70.2	62.2	44.2	30.4	30.4
7-8 AM	530	0.0	203	0.0	1500	530	0	203	0.54	0	70.0	61.9	43.4	28.1	28.1
8-9 AM	888	0.0	278	0.0	1500	888	0	278	0.57	0	69.6	61.0	42.0	26.1	26.1
9-10 AM	1301	0.0	493	0.0	OFF	1301	0	493	0.00	0	69.1	69.1	69.1	20.8	20.8
10-11 AM	1796	0.0	656	0.0	OFF	1796	0	656	0.00	0	68.5	68.5	68.5	17.7	17.7
11A-NOON	2204	0.0	827	0.0	OFF	2204	0	827+	0.00	0	68.0	68.0	68.0	14.3	14.3
NOON-1PM	2488	0.0	958	0.0	OFF	2488	0	958+	0.00	0	67.6	67.6	67.6	12.5	12.5
1-2 PM	2533	0.0	930	0.0	OFF	2533	0	930+	0.00	0	67.6	67.6	67.6	12.8	12.8
2-3 PM	2317	0.0	987	0.0	OFF	2317	0	987+	0.00	0	67.9	67.9	67.9	12.3	12.3
3-4 PM	2315	0.0	985	0.0	OFF	2315	0	985+	0.00	0	67.9	67.9	67.9	12.4	12.4
4-5 PM	2128	0.0	892	0.0	OFF	2128	0	892+	0.00	0	68.1	68.1	68.1	13.0	13.0
5-6 PM	1784	0.0	786	0.0	OFF	1784	0	786	0.00	0	68.5	68.5	68.5	15.2	15.2
6-7 PM	1481	0.0	702	0.0	OFF	1481	0	702	0.00	0	68.9	68.9	68.9	16.8	16.8
7-8 PM	1246	0.0	558	0.0	1500	1246	0	558	0.77	0	69.2	58.2	37.1	19.6	19.6
8-9 PM	876	0.0	389	0.0	1500	876	0	389	0.57	0	69.6	61.0	42.1	23.2	23.2
9-10 PM	701	0.0	263	0.0	1500	701	0	263	0.55	0	69.9	61.4	42.7	26.6	26.6
10-11 PM	408	0.0	197	0.0	1500	408	0	197	0.52	0	70.2	62.1	43.8	28.3	28.3
11PM-MID	244	0.0	96	0.0	1500	244	0	96	0.50	0	70.2	62.3	44.5	31.0	31.0

"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	0.0197
MAIN ROUTE WITH WORKS	0.0193
DIVERSION	0.1015

PIA: Personal Injury Accidents

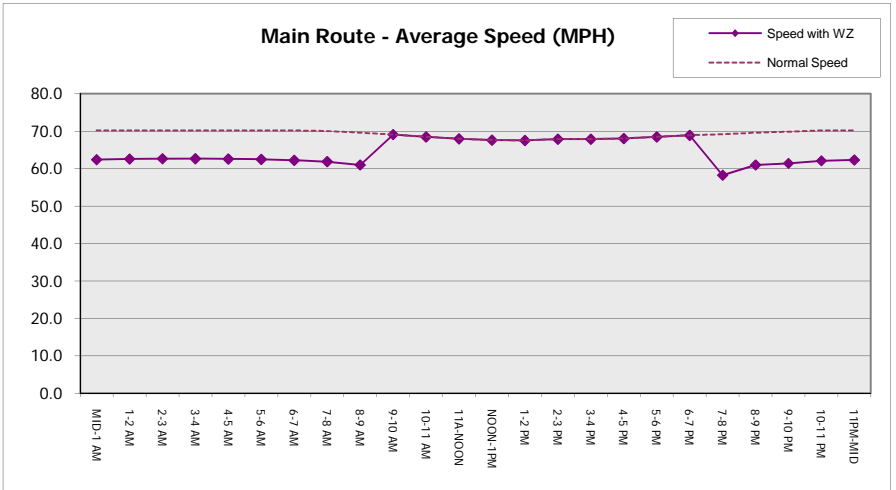
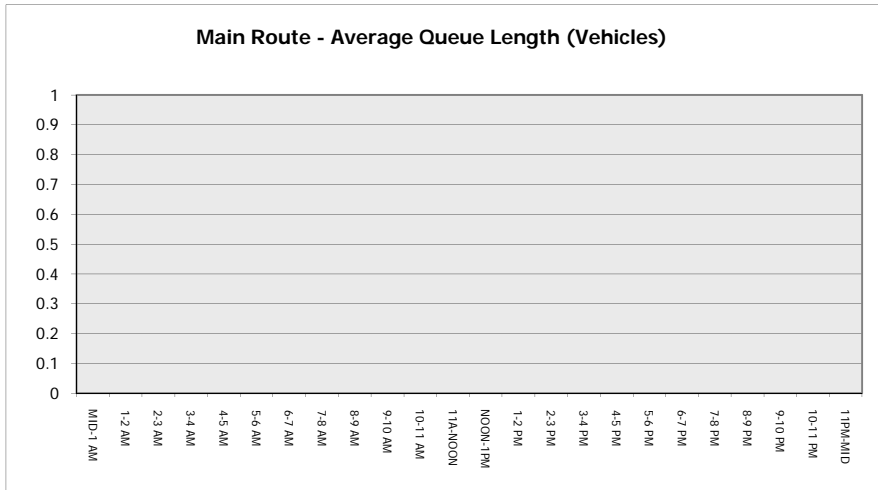
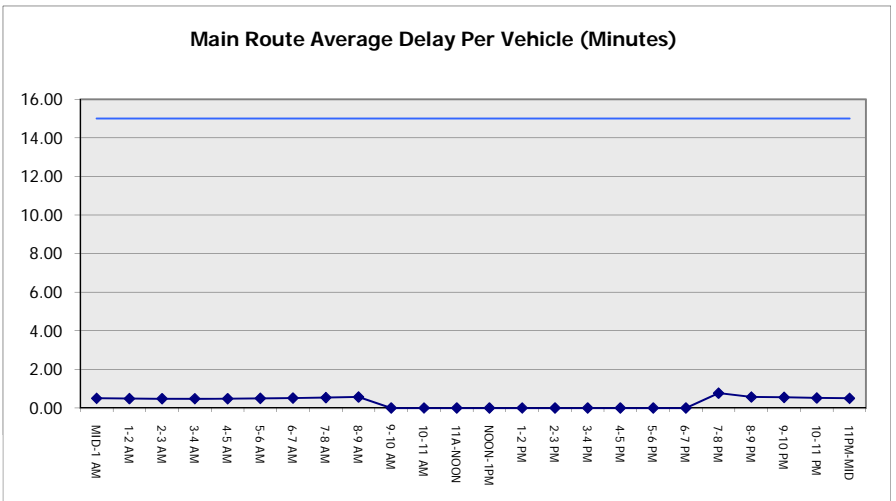
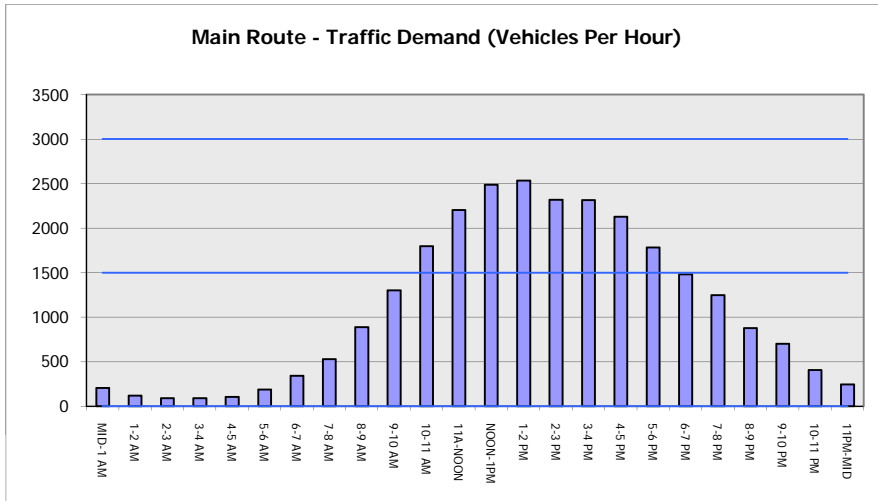
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$835
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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

MAY
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY SOUTHBOUND DIRECTION



USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY) NIGHTTIME 2 LANE CLOSURE DIVERSION ROUTE: BUS 51 - STH 52	MAY
	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	260	0.0	107	0.0	1500	260	0	107	0.50	0	70.2	62.3	44.5	30.7	30.7
1-2 AM	137	0.0	91	0.0	1500	137	0	91	0.49	0	70.2	62.5	45.0	31.1	31.1
2-3 AM	108	0.0	83	0.0	1500	108	0	83	0.49	0	70.2	62.6	45.1	31.3	31.3
3-4 AM	77	0.0	48	0.0	1500	77	0	48	0.48	0	70.2	62.7	45.2	32.3	32.3
4-5 AM	74	0.0	53	0.0	1500	74	0	53	0.48	0	70.2	62.7	45.2	32.1	32.1
5-6 AM	146	0.0	97	0.0	1500	146	0	97	0.49	0	70.2	62.5	44.9	30.9	30.9
6-7 AM	299	0.0	159	0.0	1500	299	0	159	0.51	0	70.2	62.3	44.3	29.3	29.3
7-8 AM	421	0.0	263	0.0	1500	421	0	263	0.52	0	70.2	62.1	43.8	26.6	26.6
8-9 AM	638	0.0	463	0.0	1500	638	0	463	0.55	0	69.9	61.5	43.0	21.4	21.4
9-10 AM	1032	0.0	656	0.0	OFF	1032	0	656	0.00	0	69.4	69.4	69.4	17.7	17.7
10-11 AM	1249	0.0	794	0.0	OFF	1249	0	794	0.00	0	69.2	69.2	69.2	15.0	15.0
11A-NOON	1500	0.0	926	0.0	OFF	1500	0	926+	0.00	0	68.9	68.9	68.9	12.8	12.8
NOON-1PM	1628	0.0	899	0.0	OFF	1628	0	899+	0.00	0	68.7	68.7	68.7	13.0	13.0
1-2 PM	1714	0.0	922	0.0	OFF	1714	0	922+	0.00	0	68.6	68.6	68.6	12.8	12.8
2-3 PM	1685	0.0	923	0.0	OFF	1685	0	923+	0.00	0	68.6	68.6	68.6	12.8	12.8
3-4 PM	1596	0.0	888	0.0	OFF	1596	0	888+	0.00	0	68.7	68.7	68.7	13.1	13.1
4-5 PM	1566	0.0	825	0.0	OFF	1566	0	825+	0.00	0	68.8	68.8	68.8	14.4	14.4
5-6 PM	1385	0.0	730	0.0	OFF	1385	0	730	0.00	0	69.0	69.0	69.0	16.3	16.3
6-7 PM	1181	0.0	591	0.0	OFF	1181	0	591	0.00	0	69.2	69.2	69.2	18.9	18.9
7-8 PM	1092	0.0	454	0.0	1500	1092	0	454	0.60	0	69.4	60.5	41.4	21.5	21.5
8-9 PM	904	0.0	352	0.0	1500	904	0	352	0.58	0	69.6	60.9	42.0	24.2	24.2
9-10 PM	648	0.0	249	0.0	1500	648	0	249	0.55	0	69.9	61.5	43.0	27.0	27.0
10-11 PM	512	0.0	174	0.0	1500	512	0	174	0.53	0	70.1	61.9	43.5	28.9	28.9
11PM-MID	318	0.0	70	0.0	1500	318	0	70	0.51	0	70.2	62.2	44.2	31.7	31.7

"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	0.0151
MAIN ROUTE WITH WORKS	0.0147
DIVERSION	0.1028

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$728
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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

MAY
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY NORTHBOUND DIRECTION

