

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

MON-THUR 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	150	0.0	72	0.0	3000	150	0	72	0.36	0	70.2	64.4	49.7	31.6	31.6
1-2 AM	112	0.0	47	0.0	3000	112	0	47	0.36	0	70.2	64.4	49.7	32.3	32.3
2-3 AM	119	0.0	42	0.0	3000	119	0	42	0.36	0	70.2	64.4	49.7	32.4	32.4
3-4 AM	207	0.0	56	0.0	3000	207	0	56	0.36	0	70.2	64.4	49.7	32.0	32.0
4-5 AM	490	0.0	129	0.0	3000	490	0	129	0.36	0	70.1	64.4	49.7	30.1	30.1
5-6 AM	1232	0.0	274	0.0	3000	1232	0	274	0.35	0	69.2	63.8	49.7	26.3	26.3
6-7 AM	1721	0.0	627	0.0	3000	1721	0	627	0.34	0	68.6	63.3	49.7	18.3	18.3
7-8 AM	1761	0.0	719	0.0	3000	1761	0	719	0.34	0	68.6	63.3	49.7	16.5	16.5
8-9 AM	1583	0.0	574	0.0	3000	1583	0	574	0.34	0	68.7	63.5	49.7	19.3	19.3
9-10 AM	1669	0.0	573	0.0	3000	1669	0	573	0.34	0	68.7	63.4	49.7	19.3	19.3
10-11 AM	1877	0.0	638	0.0	3000	1877	0	638	0.34	0	68.4	63.2	49.7	18.0	18.0
11A-NOON	1999	0.0	693	0.0	3000	1999	0	693	0.33	0	68.2	63.2	49.7	17.0	17.0
NOON-1PM	2077	0.0	760	0.0	3000	2077	0	760	0.33	0	68.1	63.1	49.7	15.7	15.7
1-2 PM	2204	0.0	829	0.0	3000	2204	0	829+	0.33	0	68.0	63.0	49.7	14.3	14.3
2-3 PM	2410	0.0	990	0.0	3000	2410	0	990+	0.34	0	67.8	62.6	49.1	12.2	12.2
3-4 PM	2644	0.0	1137	0.0	3000	2644	0	1137+	0.50	0	67.4	60.3	43.6	11.2	11.2
4-5 PM	2840	0.0	1228	0.0	3000	2840	0	1228+	0.62	0	67.2	58.5	39.9	11.2	11.2
5-6 PM	2236	0.0	1112	0.0	3000	2236	0	1112+	0.33	0	67.9	62.9	49.7	11.2	11.2
6-7 PM	1504	0.0	684	0.0	3000	1504	0	684	0.34	0	68.9	63.5	49.7	17.1	17.1
7-8 PM	1161	0.0	556	0.0	3000	1161	0	556	0.35	0	69.3	63.8	49.7	19.6	19.6
8-9 PM	1004	0.0	464	0.0	3000	1004	0	464	0.35	0	69.5	64.0	49.7	21.4	21.4
9-10 PM	774	0.0	347	0.0	3000	774	0	347	0.35	0	69.8	64.1	49.7	24.3	24.3
10-11 PM	554	0.0	238	0.0	3000	554	0	238	0.36	0	70.0	64.3	49.7	27.2	27.2
11PM-MID	287	0.0	169	0.0	3000	287	0	169	0.36	0	70.2	64.4	49.7	29.1	29.1

+ 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	0.0244
MAIN ROUTE WITH WORKS	0.0222
DIVERSION	0.1231

PIA: Personal Injury Accidents

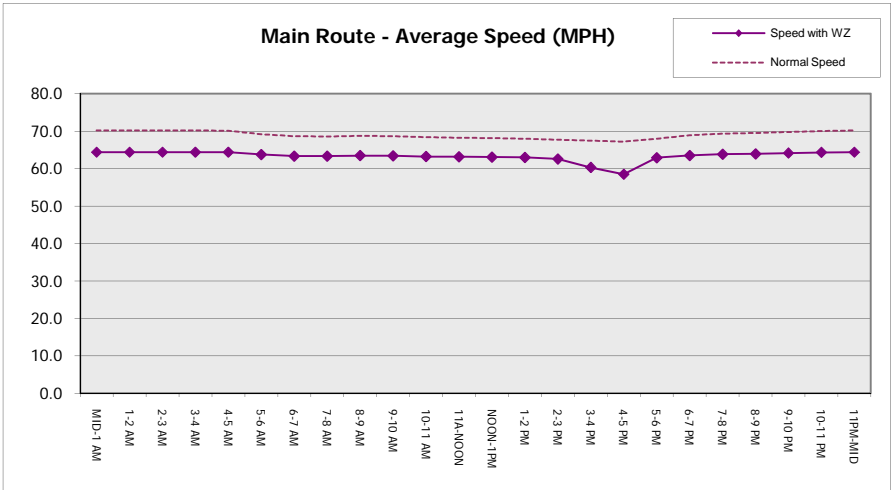
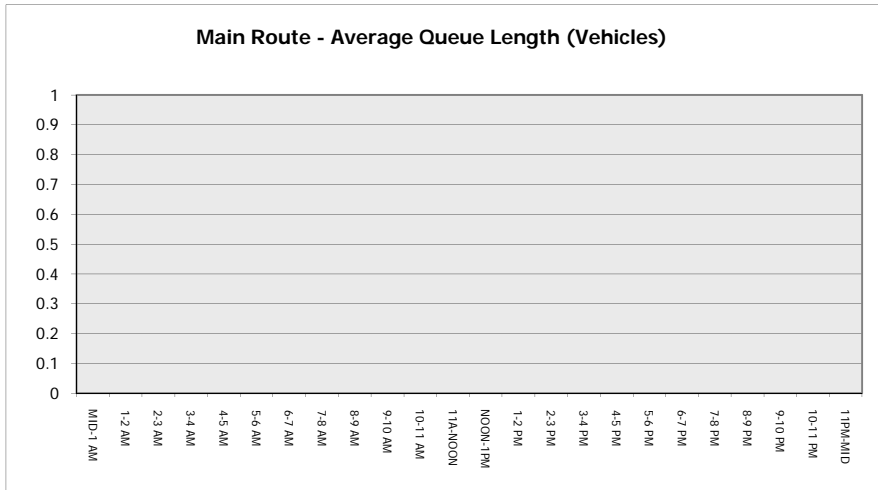
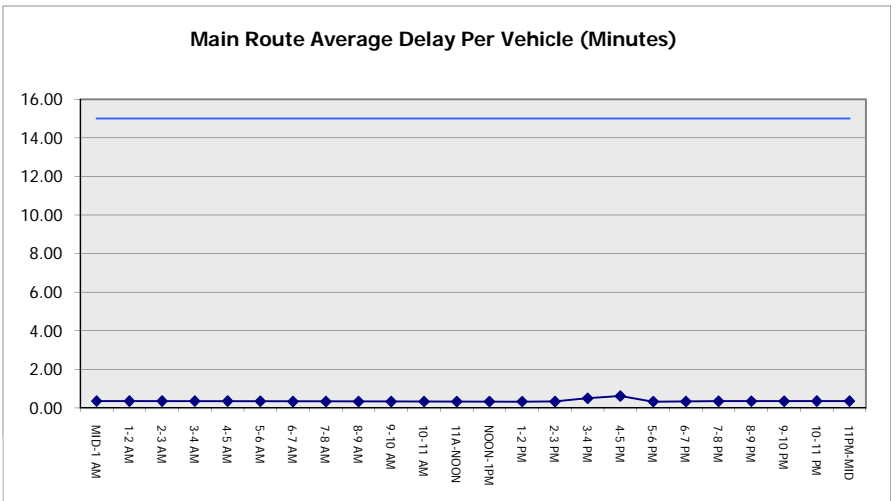
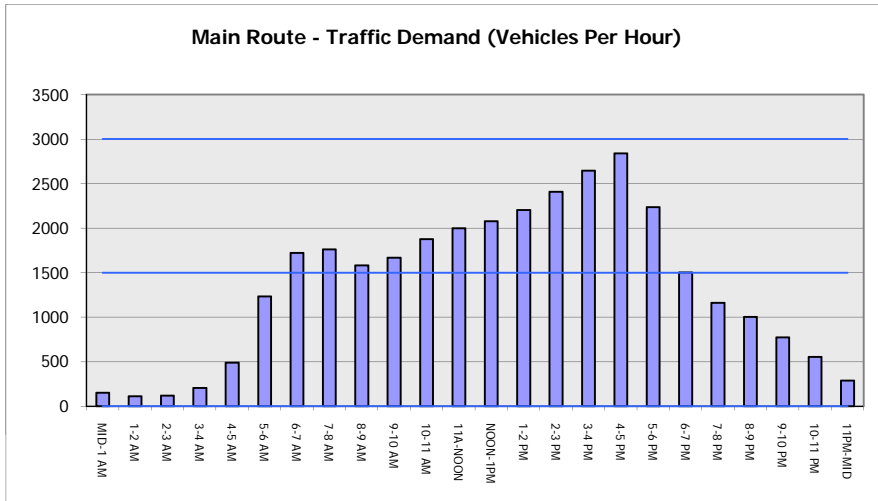
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$2,376
CONGESTED HOURS PER DAY*	0

*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
MON-THUR 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

MON-THUR 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		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	202	0.0	95	0.0	3000	202	0	95	0.36	0	70.2	64.4	49.7	31.1	31.1
1-2 AM	141	0.0	49	0.0	3000	141	0	49	0.36	0	70.2	64.4	49.7	32.2	32.2
2-3 AM	127	0.0	48	0.0	3000	127	0	48	0.36	0	70.2	64.4	49.7	32.2	32.2
3-4 AM	188	0.0	65	0.0	3000	188	0	65	0.36	0	70.2	64.4	49.7	31.8	31.8
4-5 AM	379	0.0	138	0.0	3000	379	0	138	0.36	0	70.2	64.4	49.7	29.9	29.9
5-6 AM	1037	0.0	397	0.0	3000	1037	0	397	0.35	0	69.4	63.9	49.7	23.0	23.0
6-7 AM	1939	0.0	849	0.0	3000	1939	0	849+	0.34	0	68.3	63.2	49.7	13.9	13.9
7-8 AM	2218	0.0	1082	0.0	3000	2218	0	1082+	0.33	0	68.0	63.0	49.7	11.2	11.2
8-9 AM	1645	0.0	756	0.0	3000	1645	0	756	0.34	0	68.7	63.4	49.7	15.8	15.8
9-10 AM	1675	0.0	646	0.0	3000	1675	0	646	0.34	0	68.7	63.4	49.7	17.9	17.9
10-11 AM	1792	0.0	653	0.0	3000	1792	0	653	0.34	0	68.5	63.3	49.7	17.8	17.8
11A-NOON	1845	0.0	692	0.0	3000	1845	0	692	0.34	0	68.4	63.3	49.7	17.0	17.0
NOON-1PM	1895	0.0	698	0.0	3000	1895	0	698	0.34	0	68.4	63.2	49.7	16.9	16.9
1-2 PM	2001	0.0	723	0.0	3000	2001	0	723	0.33	0	68.2	63.2	49.7	16.4	16.4
2-3 PM	2342	0.0	804	0.0	3000	2342	0	804+	0.33	0	67.8	62.8	49.7	14.8	14.8
3-4 PM	2390	0.0	930	0.0	3000	2390	0	930+	0.33	0	67.8	62.8	49.6	12.8	12.8
4-5 PM	2603	0.0	938	0.0	3000	2603	0	938+	0.47	0	67.5	60.7	44.5	12.7	12.7
5-6 PM	2250	0.0	847	0.0	3000	2250	0	847+	0.33	0	67.9	62.9	49.7	13.9	13.9
6-7 PM	1555	0.0	585	0.0	3000	1555	0	585	0.34	0	68.8	63.5	49.7	19.1	19.1
7-8 PM	1176	0.0	408	0.0	3000	1176	0	408	0.35	0	69.2	63.8	49.7	22.7	22.7
8-9 PM	972	0.0	329	0.0	3000	972	0	329	0.35	0	69.6	64.0	49.7	24.8	24.8
9-10 PM	770	0.0	248	0.0	3000	770	0	248	0.35	0	69.8	64.1	49.7	27.0	27.0
10-11 PM	585	0.0	211	0.0	3000	585	0	211	0.36	0	70.0	64.3	49.7	27.9	27.9
11PM-MID	363	0.0	151	0.0	3000	363	0	151	0.36	0	70.2	64.4	49.7	29.5	29.5

+ 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	0.0240
MAIN ROUTE WITH WORKS	0.0219
DIVERSION	0.1172

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$2,166
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
MON-THUR NORTHBOUND DIRECTION

