

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)  
CONTINUOUS (24 HOUR) 1 LANE CLOSURE  
DIVERSION ROUTE: BUS 51 - STH 52**

**MAY**  
Analyzed for 2009  
Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SATURDAY 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	268	0.0	106	0.0	3000	268	0	106	0.36	0	70.2	64.4	49.7	30.7	30.7
1-2 AM	126	0.0	67	0.0	3000	126	0	67	0.36	0	70.2	64.4	49.7	31.7	31.7
2-3 AM	117	0.0	51	0.0	3000	117	0	51	0.36	0	70.2	64.4	49.7	32.2	32.2
3-4 AM	155	0.0	48	0.0	3000	155	0	48	0.36	0	70.2	64.4	49.7	32.2	32.2
4-5 AM	158	0.0	91	0.0	3000	158	0	91	0.36	0	70.2	64.4	49.7	31.1	31.1
5-6 AM	318	0.0	120	0.0	3000	318	0	120	0.36	0	70.2	64.4	49.7	30.4	30.4
6-7 AM	581	0.0	204	0.0	3000	581	0	204	0.36	0	70.0	64.3	49.7	28.1	28.1
7-8 AM	866	0.0	322	0.0	3000	866	0	322	0.35	0	69.7	64.1	49.7	25.0	25.0
8-9 AM	1312	0.0	487	0.0	3000	1312	0	487	0.35	0	69.1	63.7	49.7	20.9	20.9
9-10 AM	1454	0.0	624	0.0	3000	1454	0	624	0.34	0	68.9	63.6	49.7	18.3	18.3
10-11 AM	1755	0.0	805	0.0	3000	1755	0	805+	0.34	0	68.6	63.3	49.7	14.8	14.8
11A-NOON	1732	0.0	868	0.0	3000	1732	0	868+	0.34	0	68.6	63.3	49.7	13.5	13.5
NOON-1PM	1821	0.0	911	0.0	3000	1821	0	911+	0.34	0	68.5	63.3	49.7	12.9	12.9
1-2 PM	1780	0.0	850	0.0	3000	1780	0	850+	0.34	0	68.5	63.3	49.7	13.8	13.8
2-3 PM	1563	0.0	770	0.0	3000	1563	0	770	0.34	0	68.8	63.5	49.7	15.5	15.5
3-4 PM	1725	0.0	830	0.0	3000	1725	0	830+	0.34	0	68.6	63.3	49.7	14.3	14.3
4-5 PM	1510	0.0	780	0.0	3000	1510	0	780	0.34	0	68.9	63.5	49.7	15.3	15.3
5-6 PM	1362	0.0	706	0.0	3000	1362	0	706	0.34	0	69.1	63.7	49.7	16.7	16.7
6-7 PM	1216	0.0	618	0.0	3000	1216	0	618	0.35	0	69.2	63.8	49.7	18.4	18.4
7-8 PM	1056	0.0	525	0.0	3000	1056	0	525	0.35	0	69.4	63.9	49.7	20.2	20.2
8-9 PM	850	0.0	467	0.0	3000	850	0	467	0.35	0	69.7	64.1	49.7	21.3	21.3
9-10 PM	699	0.0	346	0.0	3000	699	0	346	0.36	0	69.9	64.2	49.7	24.3	24.3
10-11 PM	490	0.0	267	0.0	3000	490	0	267	0.36	0	70.1	64.4	49.7	26.5	26.5
11PM-MID	296	0.0	176	0.0	3000	296	0	176	0.36	0	70.2	64.4	49.7	28.9	28.9

+ 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	0.0174
MAIN ROUTE WITH WORKS	0.0158
DIVERSION	0.1049

PIA: Personal Injury Accidents

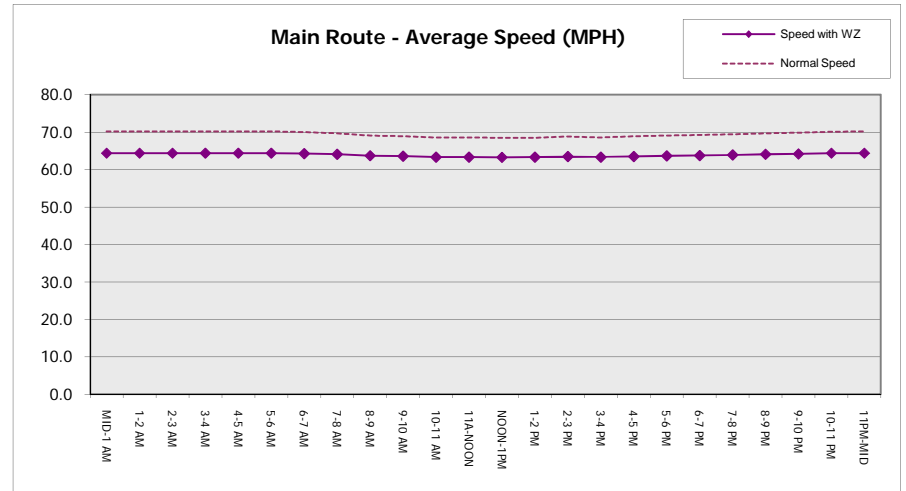
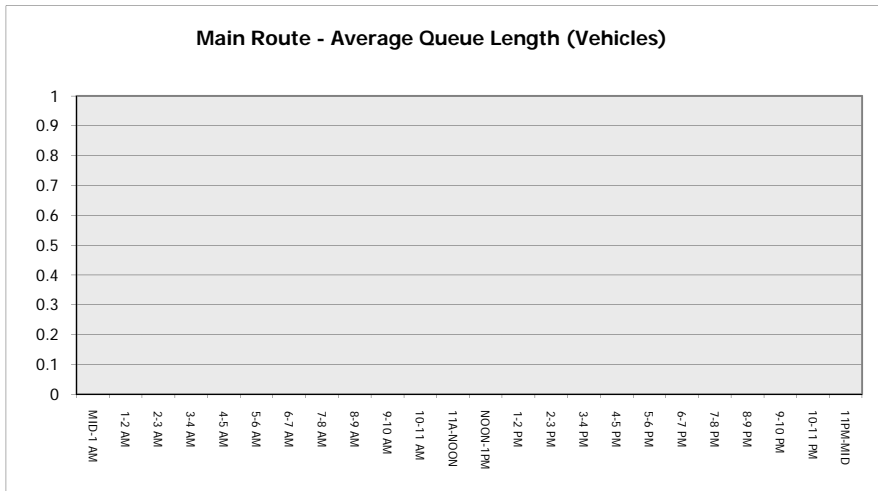
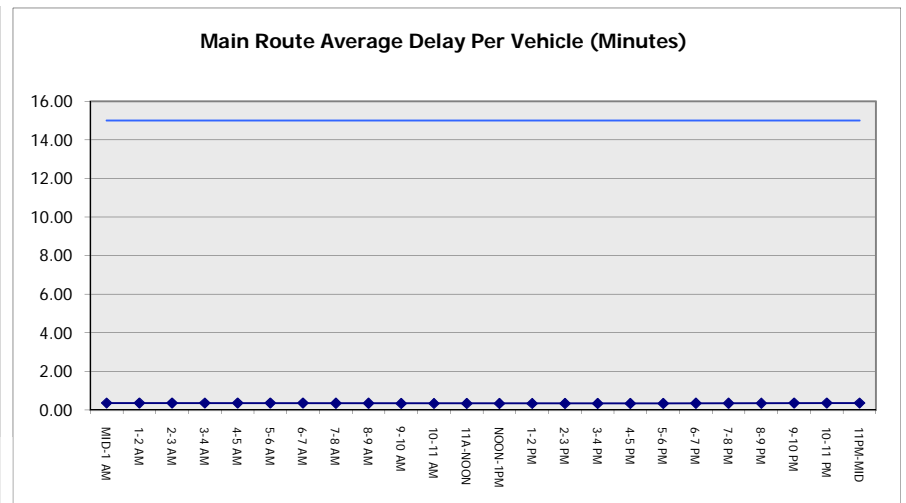
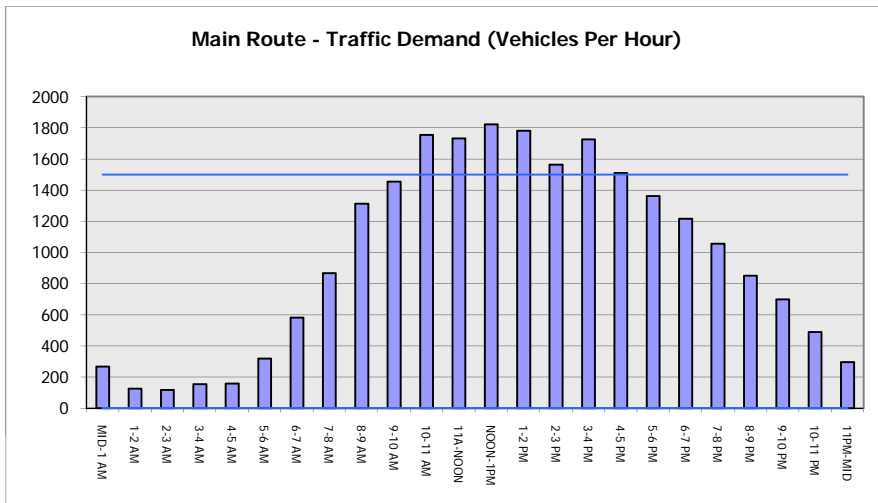
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$1,949
CONGESTED HOURS PER DAY*	0

\*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**

**MAY**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SATURDAY SOUTHBOUND DIRECTION**



<b>USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)</b> <b>CONTINUOUS (24 HOUR) 1 LANE CLOSURE</b> <b>DIVERSION ROUTE: BUS 51 - STH 52</b>	<b>MAY</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SATURDAY 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	470	0.0	105	0.0	3000	470	0	105	0.36	0	70.2	64.4	49.7	30.7	30.7
1-2 AM	254	0.0	77	0.0	3000	254	0	77	0.36	0	70.2	64.4	49.7	31.5	31.5
2-3 AM	207	0.0	72	0.0	3000	207	0	72	0.36	0	70.2	64.4	49.7	31.6	31.6
3-4 AM	184	0.0	62	0.0	3000	184	0	62	0.36	0	70.2	64.4	49.7	31.9	31.9
4-5 AM	164	0.0	89	0.0	3000	164	0	89	0.36	0	70.2	64.4	49.7	31.2	31.2
5-6 AM	344	0.0	178	0.0	3000	344	0	178	0.36	0	70.2	64.4	49.7	28.8	28.8
6-7 AM	635	0.0	309	0.0	3000	635	0	309	0.36	0	69.9	64.3	49.7	25.3	25.3
7-8 AM	1055	0.0	478	0.0	3000	1055	0	478	0.35	0	69.4	63.9	49.7	21.1	21.1
8-9 AM	1480	0.0	666	0.0	3000	1480	0	666	0.34	0	68.9	63.6	49.7	17.5	17.5
9-10 AM	1901	0.0	825	0.0	3000	1901	0	825+	0.34	0	68.4	63.2	49.7	14.4	14.4
10-11 AM	2204	0.0	946	0.0	3000	2204	0	946+	0.33	0	68.0	63.0	49.7	12.7	12.7
11A-NOON	2153	0.0	953	0.0	3000	2153	0	953+	0.33	0	68.1	63.0	49.7	12.6	12.6
NOON-1PM	2006	0.0	909	0.0	3000	2006	0	909+	0.33	0	68.2	63.1	49.7	12.9	12.9
1-2 PM	1863	0.0	870	0.0	3000	1863	0	870+	0.34	0	68.4	63.2	49.7	13.5	13.5
2-3 PM	1798	0.0	854	0.0	3000	1798	0	854+	0.34	0	68.5	63.3	49.7	13.8	13.8
3-4 PM	1789	0.0	780	0.0	3000	1789	0	780	0.34	0	68.5	63.3	49.7	15.3	15.3
4-5 PM	1609	0.0	713	0.0	3000	1609	0	713	0.34	0	68.7	63.5	49.7	16.6	16.6
5-6 PM	1455	0.0	632	0.0	3000	1455	0	632	0.34	0	68.9	63.6	49.7	18.1	18.1
6-7 PM	1304	0.0	562	0.0	3000	1304	0	562	0.35	0	69.1	63.7	49.7	19.5	19.5
7-8 PM	1059	0.0	453	0.0	3000	1059	0	453	0.35	0	69.4	63.9	49.7	21.6	21.6
8-9 PM	864	0.0	368	0.0	3000	864	0	368	0.35	0	69.7	64.1	49.7	23.8	23.8
9-10 PM	798	0.0	290	0.0	3000	798	0	290	0.35	0	69.7	64.1	49.7	25.8	25.8
10-11 PM	561	0.0	230	0.0	3000	561	0	230	0.36	0	70.0	64.3	49.7	27.4	27.4
11PM-MID	436	0.0	163	0.0	3000	436	0	163	0.36	0	70.2	64.4	49.7	29.2	29.2

+ 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	0.0199
MAIN ROUTE WITH WORKS	0.0181
DIVERSION	0.1100

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$2,213
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**

**MAY**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SATURDAY NORTHBOUND DIRECTION**

