

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

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	149	0.0	55	0.0	1500	149	0	55	0.49	0	70.2	62.5	44.9	32.1	32.1
1-2 AM	99	0.0	40	0.0	1500	99	0	40	0.48	0	70.2	62.6	45.1	32.5	32.5
2-3 AM	103	0.0	43	0.0	1500	103	0	43	0.48	0	70.2	62.6	45.1	32.4	32.4
3-4 AM	188	0.0	51	0.0	1500	188	0	51	0.50	0	70.2	62.5	44.7	32.2	32.2
4-5 AM	370	0.0	124	0.0	1500	370	0	124	0.52	0	70.2	62.2	44.0	30.2	30.2
5-6 AM	1003	0.0	276	0.0	1499	1003	0	276	0.63	0	69.5	60.1	40.5	26.2	26.2
6-7 AM	1889	0.0	626	0.0	1499	1889	0	626	6.28	168	68.4	27.1	30.8	18.3	18.3
7-8 AM	1822	0.0	739	0.0	1499	1771	52	791	21.71	549	68.5	10.9	30.8	16.1	15.1
8-9 AM	1529	0.0	577	0.0	1499	1320	209	786	22.80	571	68.8	10.5	30.8	19.2	15.2
9-10 AM	1502	0.0	526	0.0	1500	1430	71	598	17.59	432	68.9	13.0	30.8	20.2	18.8
10-11 AM	1629	0.0	594	0.0	1500	1589	39	633	18.40	454	68.7	12.5	30.8	18.9	18.1
11A-NOON	1733	0.0	665	0.0	1500	1620	112	777	22.45	560	68.6	10.6	30.8	17.5	15.3
NOON-1PM	1800	0.0	698	0.0	1499	1603	198	896+	26.77	673	68.5	9.1	30.8	16.9	13.2
1-2 PM	1861	0.0	744	0.0	1499	1593	268	1012+	29.97	757	68.4	8.3	30.8	16.0	12.0
2-3 PM	2114	0.0	950	0.0	1500	1500	614	1564+	32.33	818	68.1	7.7	30.8	12.6	11.2
3-4 PM	2558	0.0	1125	0.0	1500	1500	1058	2183+	32.30	818	67.6	7.7	30.8	11.2	11.2
4-5 PM	2723	0.0	1249	0.0	1500	1500	1223	2471+	32.28	818	67.4	7.7	30.8	11.2	11.2
5-6 PM	2149	0.0	1130	0.0	1500	1500	649	1780+	32.33	818	68.1	7.7	30.8	11.2	11.2
6-7 PM	1386	0.0	720	0.0	1500	1183	203	923+	26.98	685	69.0	9.1	30.8	16.5	13.1
7-8 PM	1045	0.0	512	0.0	1499	1033	12	524	9.66	277	69.4	20.6	34.7	20.4	20.2
8-9 PM	851	0.0	386	0.0	1500	851	0	386	0.60	0	69.7	60.7	42.2	23.3	23.3
9-10 PM	620	0.0	284	0.0	1500	620	0	284	0.55	0	70.0	61.6	43.0	26.0	26.0
10-11 PM	475	0.0	209	0.0	1500	475	0	209	0.53	0	70.2	62.0	43.6	28.0	28.0
11PM-MID	255	0.0	153	0.0	1500	255	0	153	0.50	0	70.2	62.3	44.5	29.5	29.5

+ 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	0.0223
MAIN ROUTE WITH WORKS	0.0171
DIVERSION	0.1632

PIA: Personal Injury Accidents

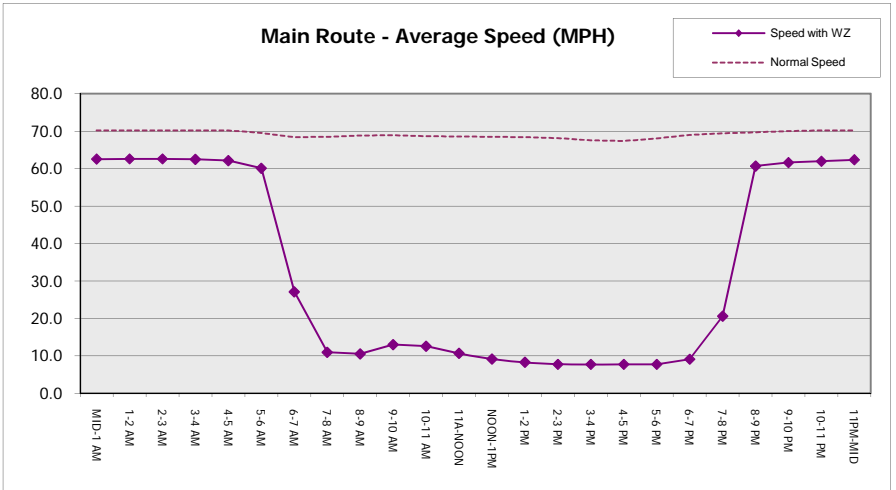
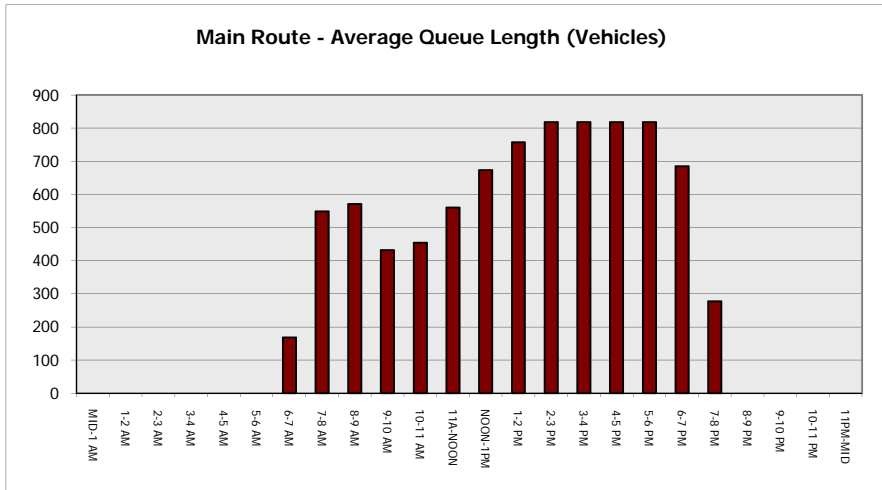
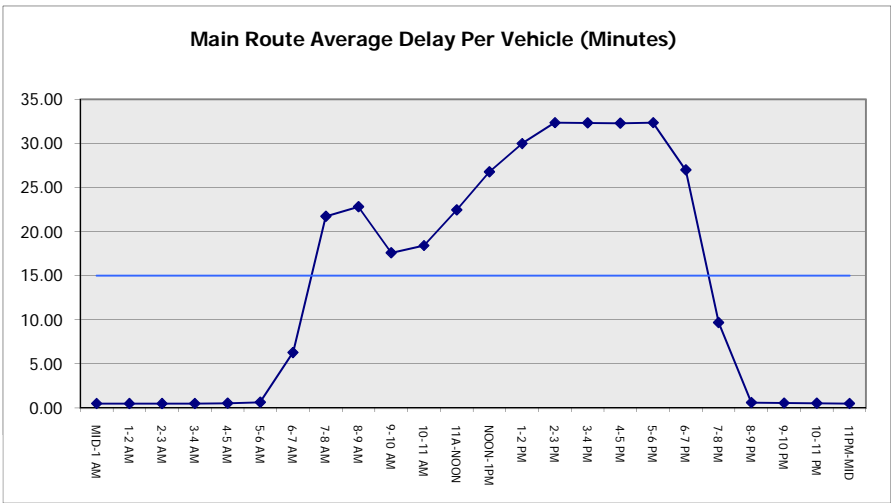
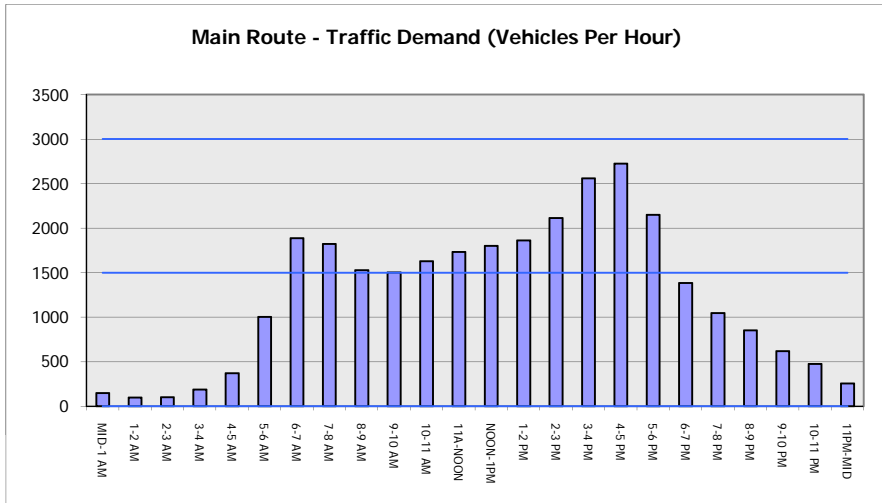
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$152,338
CONGESTED HOURS PER DAY*	12

*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
MON-THUR 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	
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		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	179	0.0	48	0.0	1500	179	0	48	0.49	0	70.2	62.5	44.8	32.2	32.2
1-2 AM	123	0.0	41	0.0	1500	123	0	41	0.49	0	70.2	62.6	45.0	32.4	32.4
2-3 AM	124	0.0	42	0.0	1500	124	0	42	0.49	0	70.2	62.6	45.0	32.4	32.4
3-4 AM	182	0.0	63	0.0	1500	182	0	63	0.49	0	70.2	62.5	44.8	31.9	31.9
4-5 AM	334	0.0	145	0.0	1500	334	0	145	0.51	0	70.2	62.2	44.2	29.7	29.7
5-6 AM	863	0.0	398	0.0	1500	863	0	398	0.57	0	69.7	61.0	42.2	23.0	23.0
6-7 AM	1928	0.0	872	0.0	1499	1928	0	872+	5.81	164	68.3	28.4	30.8	13.4	14.0
7-8 AM	2456	0.0	1200	0.0	1500	1786	671	1871+	28.96	747	67.7	8.5	30.8	11.2	11.2
8-9 AM	1644	0.0	850	0.0	1499	1486	157	1008+	29.82	752	68.7	8.3	30.8	13.8	12.0
9-10 AM	1540	0.0	652	0.0	1499	1350	190	842+	24.92	625	68.8	9.7	30.8	17.8	14.0
10-11 AM	1549	0.0	629	0.0	1500	1451	98	727	20.89	518	68.8	11.3	30.8	18.2	16.3
11A-NOON	1625	0.0	651	0.0	1500	1543	82	733	21.04	522	68.7	11.2	30.8	17.8	16.2
NOON-1PM	1661	0.0	665	0.0	1499	1542	120	785	22.69	565	68.7	10.5	30.8	17.5	15.2
1-2 PM	1694	0.0	678	0.0	1499	1552	143	821+	24.05	601	68.6	10.0	30.8	17.3	14.5
2-3 PM	2008	0.0	768	0.0	1500	1742	267	1035+	29.93	759	68.2	8.3	30.8	15.5	12.0
3-4 PM	2317	0.0	929	0.0	1499	1500	817	1746+	32.32	818	67.9	7.7	30.8	12.8	11.2
4-5 PM	2341	0.0	935	0.0	1499	1499	842	1776+	32.31	818	67.8	7.7	30.8	12.7	11.2
5-6 PM	2108	0.0	852	0.0	1499	1495	613	1466+	32.28	817	68.1	7.8	30.8	13.8	11.2
6-7 PM	1393	0.0	562	0.0	1499	1054	339	901+	25.91	666	69.0	9.4	30.8	19.5	13.6
7-8 PM	954	0.0	366	0.0	1499	944	10	377	4.77	177	69.6	31.9	37.8	23.8	23.5
8-9 PM	799	0.0	257	0.0	1500	799	0	257	0.57	0	69.7	61.2	42.4	26.7	26.7
9-10 PM	619	0.0	218	0.0	1500	619	0	218	0.55	0	70.0	61.6	43.0	27.8	27.8
10-11 PM	420	0.0	185	0.0	1500	420	0	185	0.52	0	70.2	62.1	43.8	28.6	28.6
11PM-MID	283	0.0	111	0.0	1500	283	0	111	0.51	0	70.2	62.3	44.3	30.6	30.6

+ 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	0.0218
MAIN ROUTE WITH WORKS	0.0169
DIVERSION	0.1564

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$150,550
CONGESTED HOURS PER DAY*	12

*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
MON-THUR NORTHBOUND DIRECTION

