



# FDOT DISTRICT SIX INTELLIGENT TRANSPORTATION SYSTEM DMS Usage Report – June 2013



## Summary of Monthly Operations

In the month of June, there were 17,500 messages posted with 5,674 DMS activations for 865 events. The DMS efficiency was 99.77% (863 of the 865 signable events had DMS messages posted). There was an average of 6.56 DMSs activated per each signable event and an average of 3.08 DMS messages were posted per each DMS activation. This resulted in an average of 20.23 DMS messages being posted per each signable event.

*Notes: DMS messages not associated with an event are not included because the SunGuide Software requirement to associate a message does not function properly at this time.*

## Summary of Average Monthly Operations

- $$\frac{5674 \text{ DMS Activations}}{865 \text{ Events}} = \mathbf{6.56} \text{ Average DMS Activations per Event}$$

*An average of 6.56 DMSs were activated per each signable event*

- $$\frac{17500 \text{ DMS Messages}}{5674 \text{ DMS Activations}} = \mathbf{3.08} \text{ Average DMS Messages per Activation}$$

*An average of 3.08 DMS messages were posted per each DMS activation*

- $$6.56 \frac{\text{DMS Activations}}{\text{Events}} \times 3.08 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \mathbf{20.23^*} \text{ DMS Messages per Event}$$

*An average of 20.23\* DMS messages were posted per each signable event*

*\*Based on actual numbers of average DMS activation/event and average DMS messages/activation. Not based on rounded numbers shown in this report.*

**Table 1 DMS Usage for Other Agencies**

Agency	Number of Messages
FDOT District 4	593
Florida's Turnpike Enterprise	124
Miami-Dade Expressway Authority	838
<b>Total</b>	<b>1555</b>

**Table 2 DMS Usage by Event Type**

Event Type Message	Number of Messages
FDOT District 6 Incidents	8886
Other Districts' Incidents	1222
Construction	6574
Safety	0
Vehicle Alert	818
<b>Total</b>	<b>17500</b>



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**Table 3a DMS Usage by Roadway (Limited Access Facilities)**

Roadway	ID	Location	# of Activations	# of Messages	Duration (Hr:Min:SS)	Availability
I-95 Mainline	1	I-95 NB beyond NW 103 St	115	405	413:00:01	100.00%
	22	I-95 NB south of NW 62 St	88	238	165:38:42	100.00%
	75	I-95 NB before SR 112	155	322	154:47:16	100.00%
	77*	I-95 NB beyond SW 8 St	0	0	0:00:00	N/A*
	2	I-95 SB north of Ives Dairy Rd	163	437	178:35:53	100.00%
	3	I-95 SB north of Miami Gardens Dr	159	409	137:28:08	100.00%
	20	I-95 SB south of NW 119 St	57	150	112:06:54	100.00%
	21	I-95 SB south of NW 62 St	107	431	210:17:15	100.00%
	74*	I-95 SB beyond of SR 112	0	0	0:00:00	N/A*
76*	I-95 SB before Rickenbacker Cswy	13	60	37:34:53	N/A*	
<b>I-95 Mainline Subtotal</b>			<b>857</b>	<b>2452</b>	<b>1409:29:02</b>	<b>100.00%</b>
I-95 Express	95X40	95X NB at NW 62nd St	89	237	143:49:33	99.35%
	95X45	95X NB at NW 125th St	93	370	402:18:14	99.26%
	95XSB45	95X SB at NW 62nd St	101	400	201:07:27	99.91%
	95XSB50	95X SB at NW 125th St	66	117	71:10:17	99.79%
<b>I-95 Express Subtotal</b>			<b>349</b>	<b>1124</b>	<b>818:25:31</b>	<b>99.58%</b>
SR 826	14	SR 826 NB beyond NW 122 St	51	229	141:16:54	100.00%
	4	SR 826 EB east of NW 67 Ave	52	301	179:55:05	100.00%
	5	SR 826 EB east of NW 37 Ave	188	683	538:24:35	100.00%
	15	SR 826 WB beyond NW 17 Ave	31	78	90:20:27	99.85%
	17	SR 826 WB beyond NW 47 Ave	48	113	137:14:00	100.00%
	19	SR 826 WB beyond NW 67 Ave	64	159	127:54:06	100.00%
	826NB58	SR 826 NB before NW 58 St	57	238	146:06:31	99.81%
	826SB58	SR 826 SB before NW 58 St	99	206	214:06:17	99.79%
	826SB103	SR 826 SB before NW 103 St	77	183	174:26:17	100.00%
	826NB1.3-LL	SR 826 NB before SW 72 St	63	137	103:14:17	100.00%
	826NB4.8-LL**	SR 826 NB at SW 24 St	82	188	114:21:03	N/A**
	826SB8.8-LL**	SR 826 SB at NW 36 St	93	200	192:45:17	N/A**
<b>SR 826 Subtotal</b>			<b>905</b>	<b>2715</b>	<b>2160:04:49</b>	<b>99.94%</b>
I-75	43	I-75 NB before Miami Gardens Dr	18	30	74:40:39	100.00%
	44	I-75 SB before Miami Gardens Dr	84	322	188:36:38	100.00%
	42	I-75 SB ramp from NW 138 St	99	349	239:25:46	100.00%
<b>I-75 Subtotal</b>			<b>201</b>	<b>701</b>	<b>502:43:03</b>	<b>100.00%</b>
I-195 Mainline	57*	I-195 EB before North Miami Ave	22	33	74:23:56	100.00%
	103*	SR 112 EB before NW 39 St	156	447	200:39:54	N/A*
	105*	I-195 WB before Alton Rd	56	144	101:38:45	N/A*
<b>I-195 Mainline Subtotal</b>			<b>234</b>	<b>624</b>	<b>376:42:35</b>	<b>100.00%</b>
I-395	886WB	Port Blvd WB before US-1	138	541	285:11:43	100.00%
	104	I-395 WB at Watson Island	169	387	221:03:43	98.93%
<b>I-395 Subtotal</b>			<b>307</b>	<b>928</b>	<b>506:15:26</b>	<b>99.47%</b>
<b>Limited Access Facilities Subtotal</b>			<b>2853</b>	<b>8544</b>	<b>5773:40:26</b>	<b>99.88%</b>



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**Table 3b DMS Usage by Roadway (Arterials)**

Roadway	ID	Location	# of Activations	# of Messages	Duration (Hr:min:ss)	Availability
I-95 Arterial	109	Ives Dairy EB Rd before I-95	97	313	87:00:50	99.83%
	113	Ives Dairy Rd WB before I-95	98	301	79:30:31	98.66%
	110	Miami Gardens Dr EB before I-95	107	383	132:58:50	100.00%
	111	Miami Gardens Dr WB before I-95	115	400	138:00:30	98.13%
	112	NW 103 St EB before I-95	138	472	208:11:57	99.56%
	106	NW 79 St EB before I-95	132	550	258:09:55	98.10%
	107	NW 54 St EB before I-95	152	580	237:59:00	100.00%
	108	SW 8 St EB before I-95	94	380	170:49:25	89.04%
<b><i>I-95 Arterial Subtotal</i></b>			<b>933</b>	<b>3379</b>	<b>1312:40:58</b>	<b>97.91%</b>
Golden Glades Interchange	6	SR 826 WB west of NE 2nd Ave	181	592	454:55:55	99.96%
	7	Turnpike SB to Golden Glades	178	567	234:24:19	99.98%
	9	US-441 NB at TRI-Rail	85	372	399:47:25	100.00%
	10	SR 9 NB before Park & Ride	121	523	424:08:15	100.00%
	8	US-441 SB at NW 179 St	178	578	428:31:48	100.00%
<b><i>Golden Glades Interchange Subtotal</i></b>			<b>743</b>	<b>2632</b>	<b>1941:47:42</b>	<b>99.99%</b>
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	96	228	145:08:37	100.00%
	SW24WB	SW 24 St WB before SR 826	96	228	145:08:37	100.00%
	SW40EB	SW 40 St EB before SR 826	91	217	139:53:14	100.00%
	SW40WB	SW 40 St WB before SR 826	92	218	140:06:57	100.00%
	SW56EB	SW 56 St EB before SR 826	76	170	99:18:55	100.00%
	SW56WB	SW 56 St WB before SR 826	76	170	99:18:52	100.00%
	SW72EB	SW 72 St EB before SR 826	68	152	97:40:38	100.00%
	SW72WB	SW 72 St WB before SR 826	69	157	98:30:06	100.00%
<b><i>SR 826 Arterial Subtotal</i></b>			<b>664</b>	<b>1540</b>	<b>965:05:56</b>	<b>100.00%</b>
I-195 Arterial	38*	Alton Rd SB before I-195	49	129	55:09:16	100.00%
	39*	Arthur Godfrey WB before I-195	55	145	59:09:03	100.00%
	40*	Alton Rd NB before I-195	46	116	49:25:51	100.00%
<b><i>I-195 Arterial Subtotal</i></b>			<b>150</b>	<b>390</b>	<b>163:44:10</b>	<b>100.00%</b>
US-1 in Miami-Dade County	23	US-1 NB beyond SW 17 Ave	90	405	212:50:41	N/A*
	45	US-1 SB before SW 80 St	34	66	110:35:04	99.77%
	47	US-1 SB at Florida's Turnpike	9	17	36:40:28	99.66%
	46	US-1 NB before Killian Dr	36	107	125:47:05	100.00%
	48	US-1 NB at Florida's Turnpike	14	45	62:32:03	99.65%
<b><i>US-1 in Miami-Dade County Subtotal</i></b>			<b>183</b>	<b>640</b>	<b>548:25:21</b>	<b>99.77%</b>



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Table 3b – continued DMS Usage by Roadway (Arterials)

Roadway	ID	Location	# of Activations	# of Messages	Duration (Hr:Min)	Availability
US-1 South of Florida City	62	US-1 NB at Mile Marker 126	4	6	15:37:11	69.35%
	64	US-1 NB at Mile Marker 106	16	42	71:18:49	98.20%
	66	US-1 NB at Mile Marker 91.5	13	41	46:35:58	96.99%
	68	US-1 NB at Mile Marker 39.5	24	67	85:22:34	99.09%
	71	US-1 NB at Mile Marker 7.5	18	59	51:50:01	98.77%
	61	US-1 SB at Mile Marker 126	13	49	50:25:10	99.79%
	63	US-1 SB at Mile Marker 113	11	31	43:19:15	98.91%
	65	US-1 SB at Mile Marker 106	19	35	85:05:50	98.10%
	67	US-1 SB at Mile Marker 91.5	9	14	30:18:46	99.71%
	69	US-1 SB at Mile Marker 39.5	15	23	63:25:33	99.09%
	70	US-1 SB at Mile Marker 7.5	6	8	28:48:36	99.93%
<b>US-1 South of Florida City Subtotal</b>			<b>148</b>	<b>375</b>	<b>572:07:43</b>	<b>96.18%</b>
<b>Arterials Subtotal</b>			<b>2821</b>	<b>8956</b>	<b>5503:51:50</b>	<b>98.47%</b>
<b>Limited Access Facilities Subtotal</b>			<b>2853</b>	<b>8544</b>	<b>5773:40:26</b>	<b>99.88%</b>
<b>Grand Total</b>			<b>5674</b>	<b>17500</b>	<b>11277:32:16</b>	<b>99.04%</b>

\*DMS 23, 74, 76, 77, 103, and 105 were undergoing testing for Capital Improvement and were used periodically; system availability is not measured for these devices.

\*\*Two additional DMS along the SR 826 Section 5 project are operational and are still under warranty; system availability is not measured for these devices.



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**Table 4 Number of Messages by Roadway**

Sign For Events On		DMS Located Along											
		I-95 Mainline	95 Express	SR 826	I-75	I-195 Mainline	I-395	I-95 Arterial	GGI	SR 826 Arterial	I-195 Arterial	US-1 in Miami-Dade County	US-1 South of Florida City
Vehicle Alert		112	44	178	57	50	21	0	55	80	12	79	130
Safety Messaging		0	0	0	0	0	0	0	0	0	0	0	0
District 6	Miami-Dade I-95	1485	499	479	10	242	274	2283	1823	0	231	120	0
	Miami-Dade Express Lanes	286	192	78	0	79	118	0	234	0	0	0	0
	Miami-Dade I-195	23	0	0	0	40	16	30	0	0	69	1	0
	Miami-Dade I-395	241	233	0	0	148	262	601	0	0	27	231	0
	Miami-Dade MacArthur Causeway	38	33	0	0	19	51	4	0	0	6	25	0
	Miami-Dade SR-886/Port Boulevard	0	0	0	0	0	14	0	0	0	0	0	0
	Miami-Dade SR-826	75	28	1751	610	0	4	105	204	1194	0	55	0
	Miami-Dade I-75	0	0	9	14	0	0	0	0	0	0	0	0
	Miami-Dade US-1	45	0	0	0	1	66	40	0	22	0	94	0
	Monroe US-1	0	0	0	0	0	0	0	0	0	0	1	140
	Monroe Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	105
	Miami-Dade SR-9	0	0	0	0	0	0	0	19	0	0	0	0
	Miami-Dade US-27	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade US-441	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade OTHER	0	0	0	0	0	0	0	0	0	0	0	0
	Monroe OTHER	0	0	0	0	0	0	0	0	0	0	0	0
MDX	Miami-Dade SR-836	33	16	106	0	32	85	76	0	178	21	19	0
	Miami-Dade SR-836 Extension to 137th Ave	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade SR-112	39	20	0	0	11	15	37	0	0	24	1	0
	Miami-Dade SR-874	0	0	31	0	0	0	0	66	0	12	0	0
	Miami-Dade SR-878	0	0	0	0	0	0	0	0	0	0	1	0
	Miami-Dade SR-924	0	0	9	6	0	0	0	0	0	0	0	0
District 4	Broward I-95	50	42	47	0	1	2	203	230	0	0	1	0
	Broward I-75	0	0	13	4	0	0	0	0	0	0	0	0
	Broward I-595	0	0	0	0	0	0	0	0	0	0	0	0
	Palm Beach I-95	0	0	0	0	0	0	0	0	0	0	0	0
	Indian River I-95	0	0	0	0	0	0	0	0	0	0	0	0
	Broward OTHER	0	0	0	0	0	0	0	0	0	0	0	0
Turnpike	Miami-Dade Floridas Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade Floridas Turnpike Spur	25	17	14	0	1	0	0	67	0	0	0	0
	Broward Floridas Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
	Palm Beach Floridas Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
	Martin Floridas Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
	St. Lucie Floridas Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal of On Route		1485	192	1751	14	40	262	2283	1823	1194	69	95	140
Subtotal of Off Route		967	932	964	687	584	666	1096	809	346	321	545	235
Total District 6		2305	1029	2495	691	579	826	3063	2335	1296	345	606	375
Other Agencies		147	95	220	10	45	102	316	297	244	45	34	0
Total		2452	1124	2715	701	624	928	3379	2632	1540	390	640	375

**Notes:**

- Vehicle Alert messages are signed for entire Miami-Dade and Monroe Counties; thus, is not location-specific event.
- Safety messages are signed for entire Miami-Dade and Monroe Counties; thus, is not location-specific event.
- On Route – When a DMS signs for an incident on the same route as where the DMS is located.
- Off Route – When a DMS signs for an incident on different routes from where the DMS is located.

# FDOT DISTRICT SIX INTELLIGENT TRANSPORTATION SYSTEM DMS Usage Report – June 2013



## DMS Messages by Time of Day

