



FDOT DISTRICT SIX INTELLIGENT TRANSPORTATION SYSTEM DMS Usage Report – May 2013



Summary of Monthly Operations

In the month of May, there were 20,744 messages posted with 6,566 DMS activations for 998 events. The DMS efficiency was 99.80% (996 of the 998 signable events had DMS messages posted). There was an average of 6.58 DMSs activated per each signable event and an average of 3.16 DMS messages were posted per each DMS activation. This resulted in an average of 20.79 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.

From 5/14/13 to 5/21/13 posting of DMS messages was affected by an email server failure.

Summary of Average Monthly Operations

- $$\frac{6566 \text{ DMS Activations}}{998 \text{ Events}} = \underline{6.58} \text{ Average DMS Activations per Event}$$

An average of 6.58 DMSs were activated per each signable event

- $$\frac{20744 \text{ DMS Messages}}{6566 \text{ DMS Activations}} = \underline{3.16} \text{ Average DMS Messages per Activation}$$

An average of 3.16 DMS messages were posted per each DMS activation

- $$6.58 \frac{\text{DMS Activations}}{\text{Events}} \times 3.16 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{20.79^*} \text{ DMS Messages per Event}$$

An average of 20.79 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	708
Florida's Turnpike Enterprise	28
Miami-Dade Expressway Authority	823
Total	1559

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	12473
Other Districts' Incidents	1195
Construction	4112
Safety	1159
Vehicle Alert	1805
Total	20744



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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 north of NW 103 St	111	361	193:02:58	100.00%
	22	I-95 NB south of NW 62 St	81	287	167:35:03	100.00%
	75	I-95 NB before SR 112	186	511	228:36:32	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	209	580	220:29:14	100.00%
	3	I-95 SB north of Miami Gardens Dr	219	561	190:41:19	100.00%
	20	I-95 SB south of NW 119 St	83	402	194:55:39	100.00%
	21	I-95 SB south of NW 62 St	116	634	271:58:30	100.00%
	74*	I-95 SB beyond of SR 112	0	0	0:00:00	N/A*
	76	I-95 SB before Rickenbacker Cswy	17	62	66:07:27	81.49%
<i>I-95 Mainline Subtotal</i>			1022	3398	1533:26:42	97.69%
I-95 Express	95X40	95X NB at NW 62nd St	100	218	110:58:56	98.80%
	95X45	95X NB at NW 125th St	111	306	159:26:53	97.98%
	95XSB45	95X SB at NW 62nd St	106	477	208:38:04	99.88%
	95XSB50	95X SB at NW 125th St	103	227	116:10:20	99.86%
<i>I-95 Express Subtotal</i>			420	1228	595:14:13	99.13%
SR 826	14	SR 826 NB beyond NW 122 St	66	207	138:57:58	100.00%
	4	SR 826 EB east of NW 67 Ave	71	211	140:31:27	99.75%
	5	SR 826 EB east of NW 37 Ave	252	649	279:41:23	100.00%
	15	SR 826 WB beyond NW 17 Ave	47	169	114:55:52	100.00%
	17	SR 826 WB beyond NW 47 Ave	61	182	162:45:42	100.00%
	19	SR 826 WB beyond NW 67 Ave	66	207	159:06:23	100.00%
	826NB58	SR 826 NB before NW 58 St	55	188	125:56:37	100.00%
	826SB58	SR 826 SB before NW 58 St	112	276	300:38:32	100.00%
	826SB103	SR 826 SB before NW 103 St	92	235	253:04:06	100.00%
	826NB1.3-LL	SR 826 NB before SW 72 St	76	248	146:52:04	100.00%
	826NB4.8-LL**	SR 826 NB at SW 24 St	89	237	147:38:56	N/A**
	826SB8.8-LL**	SR 826 SB at NW 36 St	109	265	286:46:06	N/A**
<i>SR 826 Subtotal</i>			1096	3074	2256:55:06	99.98%
I-75	43	I-75 NB before Miami Gardens Dr	22	76	95:39:19	100.00%
	44	I-75 SB before Miami Gardens Dr	93	264	200:58:48	100.00%
	42	I-75 SB ramp from NW 138 St	104	301	236:19:45	99.98%
<i>I-75 Subtotal</i>			219	641	532:57:52	99.99%
I-195 Mainline	57*	I-195 EB before North Miami Ave	2	12	6:01:26	N/A*
	103*	SR 112 EB before NW 39 St	0	0	0:00:00	N/A*
	105*	I-195 WB before Alton Rd	52	97	60:28:19	N/A*
<i>I-195 Mainline Subtotal</i>			54	109	66:29:45	N/A
I-395	886WB	Port Blvd WB before US-1	136	623	267:01:08	99.78%
	104	I-395 WB at Watson Island	187	422	181:06:12	98.93%
<i>I-395 Subtotal</i>			323	1045	448:07:20	99.36%
<i>Limited Access Facilities Subtotal</i>			3134	9495	5433:10:58	99.13%



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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	112	317	82:13:22	92.89%
	113	Ives Dairy Rd WB before I-95	87	281	65:57:49	74.32%
	110	Miami Gardens Dr EB before I-95	141	426	125:55:20	99.47%
	111	Miami Gardens Dr WB before I-95	137	447	122:04:25	96.89%
	112	NW 103 St EB before I-95	131	535	170:53:11	98.76%
	106	NW 79 St EB before I-95	107	424	152:37:34	83.61%
	107	NW 54 St EB before I-95	153	715	236:30:44	97.87%
	108	SW 8 St EB before I-95	89	404	137:48:00	93.40%
<i>I-95 Arterial Subtotal</i>			957	3549	1094:00:25	92.15%
Golden Glades Interchange	6	SR 826 WB west of NE 2nd Ave	253	684	250:29:09	100.00%
	7	Turnpike SB to Golden Glades	250	665	244:16:52	100.00%
	9	US-441 NB at TRI-Rail	91	305	169:04:22	100.00%
	10	SR 9 NB before Park & Ride	158	541	210:35:52	100.00%
	8	US-441 SB at NW 179 St	256	686	253:24:40	99.34%
<i>Golden Glades Interchange Subtotal</i>			1008	2881	1127:50:55	99.87%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	124	330	225:16:33	100.00%
	SW24WB	SW 24 St WB before SR 826	123	329	222:03:13	99.48%
	SW40EB	SW 40 St EB before SR 826	111	310	196:31:00	100.00%
	SW40WB	SW 40 St WB before SR 826	112	311	205:08:10	100.00%
	SW56EB	SW 56 St EB before SR 826	99	275	174:48:08	100.00%
	SW56WB	SW 56 St WB before SR 826	99	275	174:48:07	100.00%
	SW72EB	SW 72 St EB before SR 826	112	331	258:14:09	100.00%
	SW72WB	SW 72 St WB before SR 826	116	343	260:21:54	100.00%
<i>SR 826 Arterial Subtotal</i>			896	2504	1717:11:14	99.94%
I-195 Arterial	38*	Alton Rd SB before I-195	41	113	46:59:41	N/A*
	39*	Arthur Godfrey WB before I-195	6	20	7:39:56	N/A*
	40*	Alton Rd NB before I-195	34	106	44:32:40	N/A*
<i>I-195 Arterial Subtotal</i>			81	239	99:12:17	N/A
US-1 in Miami-Dade County	23	US-1 NB beyond SW 17 Ave	103	550	271:15:11	100.00%
	45	US-1 SB before SW 80 St	68	196	242:19:40	100.00%
	47	US-1 SB at Florida's Turnpike	16	57	77:15:03	100.00%
	46	US-1 NB before Killian Dr	43	185	125:49:30	100.00%
	48	US-1 NB at Florida's Turnpike	32	119	165:05:47	100.00%
<i>US-1 in Miami-Dade County Subtotal</i>			262	1107	881:45:11	100.00%



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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	17	68	96:16:37	99.87%
	64	US-1 NB at Mile Marker 106	21	96	105:53:02	98.59%
	66	US-1 NB at Mile Marker 91.5	15	74	69:51:41	94.38%
	68	US-1 NB at Mile Marker 39.5	32	127	114:42:59	99.16%
	71	US-1 NB at Mile Marker 7.5	27	114	91:14:44	94.07%
	61	US-1 SB at Mile Marker 126	26	128	98:25:10	99.87%
	63	US-1 SB at Mile Marker 113	22	117	94:26:55	99.80%
	65	US-1 SB at Mile Marker 106	23	79	99:40:07	98.74%
	67	US-1 SB at Mile Marker 91.5	17	58	65:13:24	94.24%
	69	US-1 SB at Mile Marker 39.5	18	63	94:25:09	99.15%
	70	US-1 SB at Mile Marker 7.5	10	45	67:07:38	99.20%
US-1 South of Florida City Subtotal			228	969	997:17:26	97.92%
Arterials Subtotal			3432	11249	5917:17:28	97.65%
Limited Access Facilities Subtotal			3134	9495	5433:10:58	99.13%
Grand Total			6566	20744	11350:28:26	98.27%

*DMS 38, 39, 40, 57, 74, 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		236	108	364	103	30	52	53	135	206	43	156	319
Safety Messaging		163	40	247	63	0	42	0	105	168	0	105	226
District 6	Miami-Dade I-95	1573	292	379	13	39	291	2080	1536	0	107	132	0
	Miami-Dade Express Lanes	415	272	142	0	1	121	15	443	0	0	0	0
	Miami-Dade I-195	283	0	0	0	17	85	331	33	0	66	45	0
	Miami-Dade I-395	239	222	0	0	6	290	525	0	0	11	221	0
	Miami-Dade MacArthur Causeway	173	134	0	0	5	99	28	0	0	2	93	0
	Miami-Dade SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade SR-826	179	68	1550	376	0	0	208	340	1510	0	145	0
	Miami-Dade I-75	0	0	75	46	0	0	0	0	0	0	0	0
	Miami-Dade US-1	20	9	3	0	0	18	19	0	294	0	168	19
	Monroe US-1	0	0	0	0	0	0	0	0	0	0	3	355
	Monroe Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	50
	Miami-Dade SR-9	0	0	0	0	0	0	0	7	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	17	12	130	6	2	37	25	0	190	5	8	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	33	18	0	0	9	10	30	0	0	5	2	0
	Miami-Dade SR-874	1	0	42	0	0	0	1	0	136	0	26	0
	Miami-Dade SR-878	0	0	0	0	0	0	0	0	0	0	3	0
Miami-Dade SR-924	0	0	47	28	0	0	0	0	0	0	0	0	
District 4	Broward I-95	59	48	67	0	0	0	230	275	0	0	0	0
	Broward I-75	0	0	23	6	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	4	2	2	0	0	0	4	4	0	0	0	0
	Broward Floridas Turnpike	3	3	3	0	0	0	0	3	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		1573	272	1550	46	17	290	2080	1536	1510	66	171	374
Subtotal of Off Route		1825	956	1524	595	92	755	1469	1345	994	173	936	595
Total District 6		3281	1145	2760	601	98	998	3259	2599	2178	229	1068	969
Other Agencies		117	83	314	40	11	47	290	282	326	10	39	0
Total		3398	1228	3074	641	109	1045	3549	2881	2504	239	1107	969

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.*

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DMS Messages by Time of Day

