



DMS Usage Report – May 2014

Summary of Monthly Operations

In the month of May, there were 24,030 messages posted with 7,454 DMS activations for 1,072 events. The DMS efficiency was 99.81% (1,070 of the 1,072 signable events had DMS messages posted). There was an average of 6.95 DMSs activated per each signable event and an average of 3.22 DMS messages were posted per each DMS activation. This resulted in an average of 22.42 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

- $$\frac{7454 \text{ DMS Activations}}{1072 \text{ Events}} = \mathbf{6.95} \text{ Average DMS Activations per Event}$$

An average of 6.95 DMSs were activated per each signable event

- $$\frac{24030 \text{ DMS Messages}}{7454 \text{ DMS Activations}} = \mathbf{3.22} \text{ Average DMS Messages per Activation}$$

An average of 3.22 DMS messages were posted per each DMS activation

- $$6.95 \frac{\text{DMS Activations}}{\text{Events}} \times 3.22 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \mathbf{22.42^*} \text{ DMS Messages per Event}$$

An average of 22.42 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	1012
Florida's Turnpike Enterprise	13
Miami-Dade Expressway Authority	1155
Total	2180

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	10633
Other Districts' Incidents	1324
Construction	10844
Safety	0
Vehicle Alert	1189
Total	24030



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	116	336	174:31:26	100.00%
	22	I-95 NB south of NW 62 St	85	253	131:17:44	91.74%
	75***	I-95 NB before SR 112	215	471	313:44:40	N/A***
	77*	I-95 NB beyond SW 8 St	0	0	0:00:00	N/A*
	2****	I-95 SB north of Ives Dairy Rd	231	766	558:08:08	N/A****
	3****	I-95 SB north of Miami Gardens Dr	235	760	574:55:51	N/A****
	20	I-95 SB south of NW 119 St	124	465	422:49:02	100.00%
	21	I-95 SB south of NW 62 St	180	758	622:45:36	99.98%
	74*	I-95 SB beyond of SR 112	0	0	0:00:00	N/A*
76*	I-95 SB before Rickenbacker Cswy	0	0	0:00:00	N/A*	
I-95 Mainline Subtotal			1186	3809	2798:12:27	97.93%
I-95 Express	95X40	95X NB at NW 62nd St	111	283	165:05:38	99.94%
	95X45	95X NB at NW 125th St	114	316	200:50:53	99.76%
	95XSB45	95X SB at NW 62nd St	168	656	552:43:58	99.54%
	95XSB50	95X SB at NW 125th St	120	327	293:52:47	99.43%
I-95 Express Subtotal			513	1582	1212:33:16	99.67%
SR 826	14	SR 826 NB beyond NW 122 St	50	145	103:49:17	100.00%
	4	SR 826 EB east of NW 67 Ave	126	630	629:17:42	100.00%
	5	SR 826 EB east of NW 37 Ave	297	1029	795:58:47	100.00%
	15*	SR 826 WB beyond NW 17 Ave	0	0	0:00:00	N/A*
	17	SR 826 WB beyond NW 47 Ave	69	183	130:24:45	100.00%
	19	SR 826 WB beyond NW 67 Ave	84	244	144:50:23	97.19%
	826NB58	SR 826 NB before NW 58 St	55	170	124:44:05	98.78%
	826SB58	SR 826 SB before NW 58 St	111	295	232:58:12	98.91%
	826SB103	SR 826 SB before NW 103 St	100	290	168:01:29	100.00%
	826NB1.3-LL	SR 826 NB before SW 72 St	75	179	103:15:48	100.00%
	826NB4.8-LL**	SR 826 NB at SW 24 St	104	217	130:30:44	N/A**
826SB8.8-LL**	SR 826 SB at NW 36 St	112	274	247:00:40	N/A**	
SR 826 Subtotal			1183	3656	2810:51:52	99.43%
I-75	43	I-75 NB before Miami Gardens Dr	23	43	66:46:56	100.00%
	44	I-75 SB before Miami Gardens Dr	97	295	182:34:15	100.00%
	42	I-75 SB ramp from NW 138 St	104	345	220:50:32	100.00%
I-75 Subtotal			224	683	470:11:43	100.00%
I-195 Mainline	57	I-195 EB before North Miami Ave	32	82	93:08:35	100.00%
	105*	I-195 WB before Alton Rd	0	0	0:00:00	N/A*
I-195 Mainline Subtotal			32	82	93:08:35	100.00%
I-395	886WB	Port Blvd WB before US-1	166	656	483:38:38	100.00%
	104	I-395 WB at Watson Island	213	447	326:11:05	97.91%
I-395 Subtotal			379	1103	809:49:43	98.96%
Limited Access Facilities Subtotal			3517	10915	8194:47:36	99.27%



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	146	611	280:14:16	97.90%
	113	Ives Dairy Rd WB before I-95	144	607	276:46:02	97.91%
	110****	Miami Gardens Dr EB before I-95	160	670	336:18:07	N/A****
	111	Miami Gardens Dr WB before I-95	161	636	306:06:32	99.61%
	112	NW 103 St EB before I-95	188	660	402:50:45	99.96%
	106	NW 79 St EB before I-95	211	787	512:43:20	100.00%
	107	NW 54 St EB before I-95	223	848	551:53:21	99.32%
	108	SW 8 St EB before I-95	102	370	257:26:31	65.02%
I-95 Arterial Subtotal			1335	5189	2924:18:54	94.25%
Golden Glades Interchange	6	SR 826 WB west of NE 2nd Ave	289	956	711:57:29	99.93%
	7	Turnpike SB to Golden Glades	294	1082	818:40:54	99.93%
	9	US-441 NB at TRI-Rail	94	283	181:54:13	99.59%
	10	SR 9 NB before Park & Ride	182	702	437:49:27	97.13%
	8	US-441 SB at NW 179 St	281	931	698:22:29	99.96%
Golden Glades Interchange Subtotal			1140	3954	2848:44:32	99.31%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	115	246	206:12:28	99.86%
	SW24WB	SW 24 St WB before SR 826	115	246	206:12:29	100.00%
	SW40EB	SW 40 St EB before SR 826	104	246	190:42:48	100.00%
	SW40WB	SW 40 St WB before SR 826	104	241	190:11:04	100.00%
	SW56EB	SW 56 St EB before SR 826	78	193	97:06:21	100.00%
	SW56WB	SW 56 St WB before SR 826	78	193	97:06:19	100.00%
	SW72EB	SW 72 St EB before SR 826	72	187	95:36:49	100.00%
	SW72WB	SW 72 St WB before SR 826	73	188	95:40:16	100.00%
SR 826 Arterial Subtotal			739	1740	1178:48:34	99.98%
I-195 Arterial	38	Alton Rd SB before I-195	112	407	315:37:07	100.00%
	39	Arthur Godfrey WB before I-195	106	389	307:50:44	99.43%
	40	Alton Rd NB before I-195	110	393	309:28:36	100.00%
I-195 Arterial Subtotal			328	1189	932:56:27	99.81%
US-1 in Miami-Dade County	23*	US-1 NB beyond SW 17 Ave	0	0	0:00:00	N/A*
	45	US-1 SB before SW 80 St	34	82	81:55:31	100.00%
	47	US-1 SB at Florida's Turnpike	19	39	52:08:26	100.00%
	46	US-1 NB before Killian Dr	46	126	103:10:06	100.00%
	48	US-1 NB at Florida's Turnpike	15	23	42:48:23	100.00%
US-1 in Miami-Dade County Subtotal			114	270	280:02:26	100.00%



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	18	36	44:54:54	99.96%
	64	US-1 NB at Mile Marker 106	26	74	78:45:34	99.89%
	66	US-1 NB at Mile Marker 91.5	25	69	59:22:00	99.96%
	68	US-1 NB at Mile Marker 39.5	31	96	85:01:37	99.55%
	71	US-1 NB at Mile Marker 7.5	24	92	58:02:41	100.00%
	61	US-1 SB at Mile Marker 126	36	110	93:41:05	100.00%
	63	US-1 SB at Mile Marker 113	32	96	87:48:20	100.00%
	65	US-1 SB at Mile Marker 106	35	105	109:01:01	100.00%
	67	US-1 SB at Mile Marker 91.5	25	46	49:45:21	99.26%
	69	US-1 SB at Mile Marker 39.5	20	32	59:52:27	99.44%
70	US-1 SB at Mile Marker 7.5	9	17	34:07:30	99.83%	
US-1 South of Florida City Subtotal			281	773	760:22:30	99.81%
Arterials Subtotal			3937	13115	8925:13:23	98.77%
Limited Access Facilities Subtotal			3517	10915	8194:47:36	99.27%
Grand Total			7454	24030	17120:00:59	98.96%

*DMS 15, 23, 74, 76, 77 and 105 were undergoing testing for Capital Improvement and were used periodically. Messages posted on these devices are not computed and 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.

*** DMS 75 under the DMS replacement project is operational and is under warranty; thus, system availability is not measured for this device.

****DMS 2, 3, and 110 are operational and are under the Express Lanes Phase 2 Contractor; thus, system availability is not measured for these devices.



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		153	68	254	79	28	27	0	85	128	36	102	229
Safety Messaging		0	0	0	0	0	0	0	0	0	0	0	0
District 6	Miami-Dade I-95	2187	416	1191	7	0	271	3363	2729	0	502	0	0
	Miami-Dade Express Lanes	414	364	120	0	0	177	0	358	0	0	0	0
	Miami-Dade I-195	125	0	0	0	47	68	186	111	0	184	0	0
	Miami-Dade I-395	485	425	12	0	0	335	987	77	13	322	0	0
	Miami-Dade MacArthur Causeway	152	149	0	0	0	108	0	0	0	3	0	0
	Miami-Dade SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade SR-826	54	12	1754	564	0	0	82	142	1281	0	84	0
	Miami-Dade I-75	0	0	6	5	0	0	0	0	0	0	0	0
	Miami-Dade US-1	2	1	0	0	0	4	16	0	46	0	37	10
	Monroe US-1	0	0	0	0	0	0	0	0	0	0	12	500
	Monroe Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade SR-9	0	0	0	0	0	0	0	0	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	21	27	42	7	7	7	0	7	0	0	12	31
	Monroe OTHER	0	0	0	0	0	0	0	0	0	0	0	0
	MDX	Miami-Dade SR-836	15	7	109	4	0	29	32	0	158	12	9
Miami-Dade SR-836 Extension to 137th Ave		0	0	0	0	0	0	0	0	0	0	0	0
Miami-Dade SR-112		118	55	0	0	0	77	152	61	0	121	0	0
Miami-Dade SR-874		0	0	42	0	0	0	0	0	114	0	10	0
Miami-Dade SR-878		0	0	0	0	0	0	0	0	0	0	4	0
Miami-Dade SR-924		0	0	16	10	0	0	0	0	0	0	0	0
District 4	Broward I-95	81	57	83	0	0	0	369	380	0	9	0	0
	Broward I-75	0	0	26	7	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	3
	Miami-Dade Floridas Turnpike Spur	0	0	0	0	0	0	0	0	0	0	0	0
	Broward Floridas Turnpike	2	1	1	0	0	0	2	4	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		2187	364	1754	5	47	335	3363	2729	1281	184	49	510
Subtotal of Off Route		1622	1218	1902	678	35	768	1826	1225	459	1005	221	263
Total District 6		3593	1462	3379	662	82	997	4634	3509	1468	1047	247	770
Other Agencies		216	120	277	21	0	106	555	445	272	142	23	3
Total		3809	1582	3656	683	82	1103	5189	3954	1740	1189	270	773

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

