



DMS Usage Report – January 2014

Summary of Monthly Operations

In the month of January, there were 19,083 messages posted with 6,430 DMS activations for 1013 events. The DMS efficiency was 99.51% (1008 of the 1013 signable events had DMS messages posted). There was an average of 6.35 DMSs activated per each signable event and an average of 2.97 DMS messages were posted per each DMS activation. This resulted in an average of 18.84 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

- $\frac{6430 \text{ DMS Activations}}{1013 \text{ Events}} = \underline{6.35} \text{ Average DMS Activations per Event}$

An average of 6.35 DMSs were activated per each signable event

- $\frac{19083 \text{ DMS Messages}}{6430 \text{ DMS Activations}} = \underline{2.97} \text{ Average DMS Messages per Activation}$

An average of 2.97 DMS messages were posted per each DMS activation

- $6.35 \frac{\text{DMS Activations}}{\text{Events}} \times 2.97 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{18.84^*} \text{ DMS Messages per Event}$

An average of 18.84 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	1057
Florida's Turnpike Enterprise	99
Miami-Dade Expressway Authority	976
Total	2132

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	8408
Other Districts' Incidents	1442
Construction	8129
Safety	0
Vehicle Alert	1104
Total	19083



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	108	311	190:37:13	100.00%
	22	I-95 NB south of NW 62 St	88	230	121:40:24	100.00%
	75	I-95 NB before SR 112	165	388	147:07:46	99.48%
	77*	I-95 NB beyond SW 8 St	0	0	0:00:00	N/A*
	2	I-95 SB north of Ives Dairy Rd	207	617	678:07:59	99.97%
	3	I-95 SB north of Miami Gardens Dr	203	586	649:36:41	100.00%
	20	I-95 SB south of NW 119 St	71	182	110:42:52	100.00%
	21	I-95 SB south of NW 62 St	127	481	273:01:41	100.00%
	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			969	2795	2170:54:36	99.92%
I-95 Express	95X40	95X NB at NW 62nd St	90	193	109:32:46	99.84%
	95X45	95X NB at NW 125th St	106	259	183:37:01	99.62%
	95XSB45	95X SB at NW 62nd St	108	409	241:44:00	99.92%
	95XSB50	95X SB at NW 125th St	78	162	71:45:53	100.00%
I-95 Express Subtotal			382	1023	606:39:40	99.85%
SR 826	14	SR 826 NB beyond NW 122 St	72	158	82:50:38	100.00%
	4	SR 826 EB east of NW 67 Ave	88	305	481:23:44	100.00%
	5	SR 826 EB east of NW 37 Ave	249	781	779:19:00	100.00%
	15	SR 826 WB beyond NW 17 Ave	43	98	433:07:18	99.98%
	17	SR 826 WB beyond NW 47 Ave	73	202	516:25:10	100.00%
	19	SR 826 WB beyond NW 67 Ave	90	237	547:02:13	100.00%
	826NB58	SR 826 NB before NW 58 St	64	160	78:34:16	100.00%
	826SB58	SR 826 SB before NW 58 St	114	299	657:18:35	100.00%
	826SB103	SR 826 SB before NW 103 St	96	248	588:02:58	100.00%
	826NB1.3-LL	SR 826 NB before SW 72 St	47	128	127:14:39	100.00%
	826NB4.8-LL**	SR 826 NB at SW 24 St	72	153	120:41:45	N/A**
	826SB8.8-LL**	SR 826 SB at NW 36 St	116	305	665:57:42	N/A**
SR 826 Subtotal			1124	3074	5077:57:58	100.00%
I-75	43	I-75 NB before Miami Gardens Dr	22	46	54:06:38	99.83%
	44	I-75 SB before Miami Gardens Dr	101	276	538:47:12	98.58%
	42	I-75 SB ramp from NW 138 St	122	318	621:55:53	100.00%
I-75 Subtotal			245	640	1214:49:43	99.47%
I-195 Mainline	57	I-195 EB before North Miami Ave	17	45	52:41:14	99.18%
	103*	SR 112 EB before NW 39 St	0	0	0:00:00	N/A*
	105*	I-195 WB before Alton Rd	0	0	0:00:00	N/A*
I-195 Mainline Subtotal			17	45	52:41:14	99.18%
I-395	886WB	Port Blvd WB before US-1	141	517	265:00:48	100.00%
	104	I-395 WB at Watson Island	193	422	178:50:59	99.06%
I-395 Subtotal			334	939	443:51:47	99.53%
Limited Access Facilities Subtotal			3071	8516	9566:54:58	99.83%



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	127	472	272:41:55	99.97%
	113	Ives Dairy Rd WB before I-95	128	476	272:58:59	99.97%
	110	Miami Gardens Dr EB before I-95	137	505	318:41:36	96.95%
	111	Miami Gardens Dr WB before I-95	141	512	327:14:54	99.72%
	112	NW 103 St EB before I-95	146	418	209:40:10	99.85%
	106	NW 79 St EB before I-95	161	527	263:17:22	100.00%
	107	NW 54 St EB before I-95	186	642	301:33:00	99.74%
	108	SW 8 St EB before I-95	121	435	218:18:36	91.48%
<i>I-95 Arterial Subtotal</i>			1147	3987	2184:26:32	98.46%
Golden Glades Interchange	6	SR 826 WB west of NE 2nd Ave	244	721	725:46:55	99.70%
	7	Turnpike SB to Golden Glades	243	747	749:37:58	99.96%
	9	US-441 NB at TRI-Rail	84	272	206:13:25	100.00%
	10	SR 9 NB before Park & Ride	153	543	387:08:36	100.00%
	8	US-441 SB at NW 179 St	242	712	709:13:46	99.96%
<i>Golden Glades Interchange Subtotal</i>			966	2995	2778:00:40	99.92%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	96	207	175:39:28	100.00%
	SW24WB	SW 24 St WB before SR 826	96	207	175:39:19	100.00%
	SW40EB	SW 40 St EB before SR 826	92	204	170:51:57	100.00%
	SW40WB	SW 40 St WB before SR 826	93	206	173:06:23	100.00%
	SW56EB	SW 56 St EB before SR 826	63	146	72:12:19	100.00%
	SW56WB	SW 56 St WB before SR 826	63	146	72:12:15	100.00%
	SW72EB	SW 72 St EB before SR 826	53	128	55:18:47	100.00%
	SW72WB	SW 72 St WB before SR 826	57	134	55:59:58	100.00%
<i>SR 826 Arterial Subtotal</i>			613	1378	951:00:26	100.00%
I-195 Arterial	38	Alton Rd SB before I-195	73	204	109:54:04	100.00%
	39	Arthur Godfrey WB before I-195	68	191	104:09:11	100.00%
	40	Alton Rd NB before I-195	69	192	104:50:47	100.00%
<i>I-195 Arterial Subtotal</i>			210	587	318:54:02	100.00%
US-1 in Miami-Dade County	23	US-1 NB beyond SW 17 Ave	98	413	220:44:14	100.00%
	45	US-1 SB before SW 80 St	43	110	115:27:51	100.00%
	47	US-1 SB at Florida's Turnpike	9	27	24:35:22	100.00%
	46	US-1 NB before Killian Dr	43	115	157:05:46	100.00%
	48	US-1 NB at Florida's Turnpike	9	37	28:50:31	100.00%
<i>US-1 in Miami-Dade County Subtotal</i>			202	702	546:43:44	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	13	23	26:20:40	100.00%
	64	US-1 NB at Mile Marker 106	16	54	58:41:38	100.00%
	66	US-1 NB at Mile Marker 91.5	12	46	30:36:24	99.34%
	68	US-1 NB at Mile Marker 39.5	21	73	58:12:27	94.77%
	71	US-1 NB at Mile Marker 7.5	22	124	79:33:13	100.00%
	61	US-1 SB at Mile Marker 126	26	116	67:17:50	99.96%
	63	US-1 SB at Mile Marker 113	25	115	79:44:27	100.00%
	65	US-1 SB at Mile Marker 106	32	130	109:11:12	100.00%
	67	US-1 SB at Mile Marker 91.5	22	103	76:46:56	98.34%
	69	US-1 SB at Mile Marker 39.5	22	108	95:13:30	90.69%
	70	US-1 SB at Mile Marker 7.5	10	26	26:47:11	100.00%
US-1 South of Florida City Subtotal			221	918	708:25:28	98.46%
Arterials Subtotal			3359	10567	7487:30:52	99.26%
Limited Access Facilities Subtotal			3071	8516	9566:54:58	99.83%
Grand Total			6430	19083	17054:25:50	99.49%

*DMS 74, 76, 77, 103, 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.



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		142	60	234	78	31	28	0	72	104	21	104	230
Safety Messaging		0	0	0	0	0	0	0	0	0	0	0	0
District 6	Miami-Dade I-95	1720	312	718	21	0	263	2704	2070	4	407	138	0
	Miami-Dade Express Lanes	373	261	111	0	0	153	5	334	0	0	0	0
	Miami-Dade I-195	41	0	0	0	14	17	50	0	0	48	12	0
	Miami-Dade I-395	234	218	0	0	0	293	571	0	0	58	211	0
	Miami-Dade MacArthur Causeway	23	18	0	0	0	35	16	0	0	0	21	0
	Miami-Dade SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade SR-826	42	14	1644	497	0	0	61	93	955	0	75	0
	Miami-Dade I-75	0	0	27	14	0	0	0	0	0	0	0	0
	Miami-Dade US-1	14	1	0	0	0	75	43	0	22	3	84	6
	Monroe US-1	0	0	0	0	0	0	0	0	0	0	0	569
	Monroe Card Sound Road	0	0	0	0	0	0	0	0	0	0	16	102
	Miami-Dade SR-9	0	0	0	0	0	0	0	6	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	10	
MDX	Miami-Dade SR-836	14	9	104	4	0	32	41	0	105	0	16	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	75	37	0	0	0	43	108	0	0	50	3	0
	Miami-Dade SR-874	0	0	88	0	0	0	0	0	188	0	12	0
	Miami-Dade SR-878	0	0	0	0	0	0	0	0	0	0	10	0
	Miami-Dade SR-924	0	0	23	14	0	0	0	0	0	0	0	0
District 4	Broward I-95	90	83	74	0	0	0	376	383	0	0	0	0
	Broward I-75	0	0	39	12	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	1
	Miami-Dade Floridas Turnpike Spur	21	7	9	0	0	0	6	25	0	0	0	0
	Broward Floridas Turnpike	6	3	3	0	0	0	6	12	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		1720	261	1644	14	14	293	2704	2070	955	48	84	575
Subtotal of Off Route		1075	762	1430	626	31	646	1283	925	423	539	618	343
Total District 6		2589	884	2734	610	45	864	3450	2575	1085	537	661	917
Other Agencies		206	139	340	30	0	75	537	420	293	50	41	1
Total		2795	1023	3074	640	45	939	3987	2995	1378	587	702	918

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

