

DMS Usage Report – March 2015

Summary of Monthly Operations

In the month of March, there were 39,311 messages posted with 10,893 DMS activations for 1,562 events. The DMS efficiency was 99.74% (1,558 of the 1,562 signable events had DMS messages posted). There was an average of 6.97 DMSs activated per each signable event and an average of 3.61 DMS messages were posted per each DMS activation. This resulted in an average of 25.17 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

- $\frac{10893 \text{ DMS Activations}}{1562 \text{ Events}} = \underline{6.97} \text{ Average DMS Activations per Event}$

An average of 6.97 DMSs were activated per each signable event

- $\frac{39311 \text{ DMS Messages}}{10893 \text{ DMS Activations}} = \underline{3.61} \text{ Average DMS Messages per Activation}$

An average of 3.61 DMS messages were posted per each DMS activation

- $6.97 \frac{\text{DMS Activations}}{\text{Events}} \times 3.61 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{25.17^*} \text{ DMS Messages per Event}$

An average of 25.17 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
Port of Miami Tunnel	63
FDOT District 4	2169
Florida's Turnpike Enterprise	34
Miami-Dade Expressway Authority	5023
Total	7289

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	21606
Other Districts' Incidents	2688
Construction	12892
Safety	1652
Vehicle Alert	473
Total	39311

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	213	900	2019:23:10	100.00%
	22	I-95 NB south of NW 62 St	179	730	1369:47:38	100.00%
	75	I-95 NB before SR 112	399	1290	1558:05:57	100.00%
	77	I-95 NB beyond SW 8 St	453	1497	1747:31:57	100.00%
	2****	I-95 SB north of Ives Dairy Rd	301	918	1396:15:00	N/A****
	3****	I-95 SB north of Miami Gardens Dr	306	909	1403:08:25	N/A****
	20	I-95 SB south of NW 119 St	149	608	1366:10:01	100.00%
	21	I-95 SB south of NW 62 St	202	682	1152:04:57	100.00%
	74	I-95 SB beyond of SR 112	153	621	990:20:30	100.00%
	76	I-95 SB before Rickenbacker Cswy	31	245	708:20:36	100.00%
I-95 Mainline Subtotal			2386	8400	13711:08:11	100.00%
I-95 Express	95X40	95X NB at NW 62nd St	151	554	966:37:52	99.61%
	95X45	95X NB at NW 125th St	163	655	1074:39:45	99.09%
	95XSB45	95X SB at NW 62nd St	167	543	1065:29:40	98.94%
	95XSB50	95X SB at NW 125th St	130	470	817:24:12	99.93%
I-95 Express Subtotal			611	2222	3924:11:29	99.39%
SR 826	14	SR 826 NB beyond NW 122 St	82	378	802:57:11	100.00%
	4	SR 826 EB east of NW 67 Ave	104	422	826:05:31	100.00%
	5	SR 826 EB east of NW 37 Ave	319	967	1418:39:04	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	98	395	1013:14:14	100.00%
	19	SR 826 WB beyond NW 67 Ave	109	413	969:39:57	99.93%
	826NB58	SR 826 NB before NW 58 St	88	394	824:06:43	99.98%
	826SB58	SR 826 SB before NW 58 St	152	557	1253:14:51	100.00%
	826SB103	SR 826 SB before NW 103 St	124	514	1145:53:45	100.00%
	826NB1.3-LL	SR 826 NB before SW 72 St	117	457	1033:23:51	100.00%
	826NB4.8-LL**	SR 826 NB at SW 24 St	181	562	1138:33:24	N/A**
826SB8.8-LL**	SR 826 SB at NW 36 St	165	587	1273:31:25	N/A**	
SR 826 Subtotal			1539	5646	11699:19:56	99.99%
I-75	43	I-75 NB before Miami Gardens Dr	0	0	0:00:00	N/A*
	44	I-75 SB before Miami Gardens Dr	0	0	0:00:00	N/A*
	42	I-75 SB ramp from NW 138 St	0	0	0:00:00	N/A*
I-75 Subtotal			0	0	0:00:00	N/A
I-195 Mainline	57	I-195 EB before North Miami Ave	26	221	702:31:14	100.00%
	105	I-195 WB before Alton Rd	188	787	1379:42:41	100.00%
I-195 Mainline Subtotal			214	1008	2082:13:55	100.00%
I-395	886WB	Port Blvd WB before US-1	261	958	1484:43:51	99.48%
	104	I-395 WB at Watson Island	302	965	1163:03:31	81.91%
I-395 Subtotal			563	1923	2647:47:22	90.70%
Limited Access Facilities Subtotal			5313	19199	34064:40:53	99.15%

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	147	427	243:47:22	N/A****
	113****	Ives Dairy Rd WB before I-95	195	572	321:53:36	N/A****
	110****	Miami Gardens Dr EB before I-95	147	384	232:22:22	N/A****
	111****	Miami Gardens Dr WB before I-95	212	578	349:28:23	N/A****
	112	NW 103 St EB before I-95	273	783	617:25:41	99.53%
	106	NW 79 St EB before I-95	266	770	609:26:14	99.51%
	107	NW 54 St EB before I-95	314	868	662:33:23	99.63%
	108	SW 8 St EB before I-95	218	701	567:58:12	99.54%
I-95 Arterial Subtotal			1772	5083	3604:55:13	99.55%
Golden Glades Interchange	6****	SR 826 WB west of NE 2nd Ave	357	1095	1554:47:00	N/A****
	7	Turnpike SB to Golden Glades	348	1062	1512:05:42	100.00%
	9	US-441 NB at TRI-Rail	142	565	952:31:35	99.67%
	10	SR 9 NB before Park & Ride	237	792	1111:14:02	99.66%
	8	US-441 SB at NW 179 St	343	1066	1507:26:39	99.67%
Golden Glades Interchange Subtotal			1427	4580	6638:04:58	99.75%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	187	568	1132:37:49	99.44%
	SW24WB	SW 24 St WB before SR 826	188	569	1132:40:35	99.67%
	SW40EB	SW 40 St EB before SR 826	167	545	1122:53:39	99.54%
	SW40WB	SW 40 St WB before SR 826	166	545	1122:35:31	99.68%
	SW56EB	SW 56 St EB before SR 826	147	506	1078:47:52	99.64%
	SW56WB	SW 56 St WB before SR 826	147	509	1078:48:09	99.68%
	SW72EB	SW 72 St EB before SR 826	118	462	1040:21:53	99.54%
	SW72WB	SW 72 St WB before SR 826	121	465	1041:06:22	99.68%
	WFLAGLEREB**	W Flagler ST EB before SR 826	60	250	725:46:16	N/A**
WFLAGLERWB**	W Flagler ST WB before SR 826	61	244	724:08:34	N/A**	
SR 826 Arterial Subtotal			1362	4663	10199:46:40	99.61%
I-195 Arterial	38	Alton Rd SB before I-195	152	677	1068:43:10	99.70%
	39	Arthur Godfrey WB before I-195	145	665	1062:35:44	98.64%
	40	Alton Rd NB before I-195	147	670	1064:31:20	99.61%
I-195 Arterial Subtotal			444	2012	3195:50:14	99.32%
US-1 in Miami-Dade County	23	US-1 NB beyond SW 17 Ave	179	777	1427:00:04	100.00%
	45	US-1 SB before SW 80 St	35	204	734:07:33	99.32%
	47	US-1 SB at Florida's Turnpike	22	190	784:28:26	99.67%
	46	US-1 NB before Killian Dr	77	416	895:18:02	96.83%
	48	US-1 NB at Florida's Turnpike	18	182	781:36:35	99.67%
US-1 in Miami-Dade County Subtotal			331	1769	4622:30:40	99.10%

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	15	157	661:10:29	96.88%
	64	US-1 NB at Mile Marker 106	16	154	652:39:23	97.37%
	66	US-1 NB at Mile Marker 91.5	17	164	686:45:56	100.00%
	68	US-1 NB at Mile Marker 39.5	15	125	459:23:05	62.60%
	71	US-1 NB at Mile Marker 7.5	31	277	1283:52:30	98.15%
	61	US-1 SB at Mile Marker 126	32	274	1279:53:36	96.92%
	63	US-1 SB at Mile Marker 113	32	194	763:54:50	96.95%
	65	US-1 SB at Mile Marker 106	31	195	782:54:23	97.77%
	67	US-1 SB at Mile Marker 91.5	34	209	802:37:35	99.75%
	69	US-1 SB at Mile Marker 39.5	8	98	369:19:01	62.37%
	70	US-1 SB at Mile Marker 7.5	13	158	679:25:49	100.00%
US-1 South of Florida City Subtotal			244	2005	8421:56:37	91.71%
Arterials Subtotal			5580	20112	36683:04:22	97.04%
Limited Access Facilities Subtotal			5313	19199	34064:40:53	99.15%
Grand Total			10893	39311	70747:45:15	97.92%

*DMS 15, 42, 43, and 44 are undergoing testing for Capital Improvement and is used periodically. Messages posted on these DMS are not computed and system availability is not measured for these devices.

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

***DMS 2, 3, 6, 109, 110, 111, and 113 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		100	28	92	0	13	10	0	29	40	21	51	89	
Safety Messaging		269	108	303	0	56	50	0	132	270	66	132	266	
District 6	Miami-Dade	I-95	3238	332	533	0	321	640	2914	1621	4	719	322	0
	Miami-Dade	Express Lanes	1373	577	202	0	7	323	28	603	0	21	0	0
	Miami-Dade	I-195	152	0	0	0	134	49	140	0	0	282	28	0
	Miami-Dade	I-395	265	124	11	0	32	107	127	0	0	76	112	0
	Miami-Dade	MacArthur Causeway	188	56	0	0	12	46	12	0	0	21	77	0
	Miami-Dade	SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-826	294	72	2079	0	0	10	341	686	1996	0	138	5
	Miami-Dade	I-75	0	0	150	0	0	0	0	0	0	0	0	0
	Miami-Dade	US-1	14	1	0	0	0	4	8	0	4	0	71	2
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	244
	Monroe	Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-997/ Krome Avenue	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	1354	497	1393	0	263	212	5	622	1209	363	632	1399
	Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0
MDX	Miami-Dade	SR-836	430	71	606	0	36	275	304	0	1084	99	105	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	505	139	3	0	134	197	464	39	0	344	75	0
	Miami-Dade	SR-874	0	0	7	0	0	0	0	0	52	0	16	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	0	0
Miami-Dade	SR-924	0	0	38	0	0	0	0	0	0	0	0	0	
District 4	Broward	I-95	177	196	204	0	0	0	735	836	0	0	0	0
	Broward	I-75	0	0	21	0	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	1	0	0	0	0	4	0	1	0	
	Miami-Dade	Floridas Turnpike Spur	4	2	2	0	0	0	7	0	0	0	0	
	Broward	Floridas Turnpike	1	1	1	0	0	0	5	5	0	0	0	
	Palm Beach	Floridas Turnpike	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	
St. Lucie	Floridas Turnpike	0	0	0	0	0	0	0	0	0	0	0		
Port	Miami-Dade	Port Miami Tunnel	36	18	0	0	0	0	0	0	0	9	0	
Subtotal of On Route		3238	577	2079	0	134	107	2914	1621	1996	282	71	246	
Subtotal of Off Route		5162	1645	3567	0	874	1816	2169	2959	2667	1730	1698	1759	
Total District 6		7247	1795	4763	0	838	1451	3575	3693	3523	1569	1563	2005	
Other Agencies		1153	427	883	0	170	472	1508	887	1140	443	206	0	
Total		8400	2222	5646	0	1008	1923	5083	4580	4663	2012	1769	2005	

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.

DMS Messages by Time of Day

