

DMS Usage Report – January 2015

Summary of Monthly Operations

In the month of January, there were 32,555 messages posted with 8,713 DMS activations for 1,305 events. The DMS efficiency was 99.69% (1,301 of the 1,305 signable events had DMS messages posted). There was an average of 6.68 DMSs activated per each signable event and an average of 3.74 DMS messages were posted per each DMS activation. This resulted in an average of 24.95 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

- $\frac{8713 \text{ DMS Activations}}{1305 \text{ Events}} = \underline{6.68} \text{ Average DMS Activations per Event}$

An average of 6.68 DMSs were activated per each signable event

- $\frac{32555 \text{ DMS Messages}}{8713 \text{ DMS Activations}} = \underline{3.74} \text{ Average DMS Messages per Activation}$

An average of 3.74 DMS messages were posted per each DMS activation

- $6.68 \frac{\text{DMS Activations}}{\text{Events}} \times 3.74 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{24.95^*} \text{ DMS Messages per Event}$

An average of 24.95 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	49
FDOT District 4	690
Florida's Turnpike Enterprise	7
Miami-Dade Expressway Authority	4949
Total	5695

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	14032
Other Districts' Incidents	1777
Construction	14623
Safety	1523
Vehicle Alert	600
Total	32555

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	146	555	1573:18:56	99.56%
	22	I-95 NB south of NW 62 St	139	633	1540:53:16	100.00%
	75	I-95 NB before SR 112	274	1000	1631:24:42	100.00%
	77	I-95 NB beyond SW 8 St	342	1168	1745:31:29	100.00%
	2****	I-95 SB north of Ives Dairy Rd	0	0	0:00:00	N/A****
	3****	I-95 SB north of Miami Gardens Dr	0	0	0:00:00	N/A****
	20	I-95 SB south of NW 119 St	145	513	1118:52:06	100.00%
	21	I-95 SB south of NW 62 St	200	660	1263:38:43	100.00%
	74	I-95 SB beyond of SR 112	176	611	1188:35:12	100.00%
76	I-95 SB before Rickenbacker Cswy	37	231	845:02:29	100.00%	
I-95 Mainline Subtotal			1459	5371	10907:16:53	99.95%
I-95 Express	95X40	95X NB at NW 62nd St	115	333	863:59:27	99.96%
	95X45	95X NB at NW 125th St	115	383	909:21:09	99.66%
	95XSB45	95X SB at NW 62nd St	143	418	1050:14:14	98.87%
	95XSB50	95X SB at NW 125th St	90	307	869:18:23	99.58%
I-95 Express Subtotal			463	1441	3692:53:13	99.52%
SR 826	14	SR 826 NB beyond NW 122 St	69	267	869:01:01	99.54%
	4	SR 826 EB east of NW 67 Ave	115	529	1469:35:44	100.00%
	5	SR 826 EB east of NW 37 Ave	285	1123	1841:49:23	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	100	376	1346:34:25	100.00%
	19	SR 826 WB beyond NW 67 Ave	115	470	1332:39:48	100.00%
	826NB58	SR 826 NB before NW 58 St	78	298	867:08:24	100.00%
	826SB58	SR 826 SB before NW 58 St	155	536	1361:29:29	100.00%
	826SB103	SR 826 SB before NW 103 St	112	485	1384:33:05	100.00%
	826NB1.3-LL	SR 826 NB before SW 72 St	74	297	985:51:10	99.96%
	826NB4.8-LL**	SR 826 NB at SW 24 St	169	501	1223:53:39	N/A**
826SB8.8-LL**	SR 826 SB at NW 36 St	177	583	1405:34:45	N/A**	
SR 826 Subtotal			1449	5465	14088:10:53	99.94%
I-75	43	I-75 NB before Miami Gardens Dr	30	186	1317:39:11	100.00%
	44	I-75 SB before Miami Gardens Dr	106	447	1128:42:20	100.00%
	42	I-75 SB ramp from NW 138 St	122	526	1188:00:15	100.00%
I-75 Subtotal			258	1159	3634:21:46	100.00%
I-195 Mainline	57	I-195 EB before North Miami Ave	26	148	758:18:35	96.83%
	105	I-195 WB before Alton Rd	159	704	1518:26:11	97.82%
I-195 Mainline Subtotal			185	852	2276:44:46	97.33%
I-395	886WB	Port Blvd WB before US-1	243	977	1722:18:46	100.00%
	104	I-395 WB at Watson Island	259	831	1386:40:28	83.29%
I-395 Subtotal			502	1808	3108:59:14	91.65%
Limited Access Facilities Subtotal			4316	16096	37708:26:45	99.11%

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	0	0	0:00:00	N/A****
	113****	Ives Dairy Rd WB before I-95	0	0	0:00:00	N/A****
	110****	Miami Gardens Dr EB before I-95	0	0	0:00:00	N/A****
	111****	Miami Gardens Dr WB before I-95	189	595	355:11:46	N/A****
	112	NW 103 St EB before I-95	225	715	506:36:38	100.00%
	106	NW 79 St EB before I-95	221	801	658:09:37	99.89%
	107	NW 54 St EB before I-95	263	827	718:16:04	99.72%
	108	SW 8 St EB before I-95	185	688	520:32:32	96.55%
<i>I-95 Arterial Subtotal</i>			1083	3626	2758:46:37	99.04%
Golden Glades Interchange	6****	SR 826 WB west of NE 2nd Ave	306	1144	1771:01:16	N/A****
	7	Turnpike SB to Golden Glades	319	1232	1931:55:58	99.37%
	9	US-441 NB at TRI-Rail	124	477	1005:36:50	100.00%
	10	SR 9 NB before Park & Ride	213	766	1220:26:12	100.00%
	8	US-441 SB at NW 179 St	295	1124	1733:21:05	99.41%
<i>Golden Glades Interchange Subtotal</i>			1257	4743	7662:21:21	99.70%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	175	530	1189:38:00	100.00%
	SW24WB	SW 24 St WB before SR 826	175	530	1189:38:02	100.00%
	SW40EB	SW 40 St EB before SR 826	145	452	1155:48:02	100.00%
	SW40WB	SW 40 St WB before SR 826	144	447	1160:38:51	100.00%
	SW56EB	SW 56 St EB before SR 826	109	397	1063:46:44	100.00%
	SW56WB	SW 56 St WB before SR 826	109	397	1063:46:43	100.00%
	SW72EB	SW 72 St EB before SR 826	82	334	1025:18:52	100.00%
	SW72WB	SW 72 St WB before SR 826	85	339	1033:15:19	100.00%
<i>SR 826 Arterial Subtotal</i>			1024	3426	8881:50:33	100.00%
I-195 Arterial	38	Alton Rd SB before I-195	135	523	579:18:52	97.02%
	39	Arthur Godfrey WB before I-195	131	514	562:38:31	95.52%
	40	Alton Rd NB before I-195	135	527	573:21:06	96.84%
<i>I-195 Arterial Subtotal</i>			401	1564	1715:18:29	96.46%
US-1 in Miami-Dade County	23	US-1 NB beyond SW 17 Ave	161	689	1606:03:58	100.00%
	45	US-1 SB before SW 80 St	32	141	804:05:19	92.86%
	47	US-1 SB at Florida's Turnpike	19	119	802:28:12	100.00%
	46	US-1 NB before Killian Dr	47	212	872:40:19	93.14%
	48	US-1 NB at Florida's Turnpike	21	129	806:18:40	100.00%
<i>US-1 in Miami-Dade County Subtotal</i>			280	1290	4891:36:28	97.20%

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	20	128	799:41:50	99.91%
	64	US-1 NB at Mile Marker 106	19	111	723:54:34	91.83%
	66	US-1 NB at Mile Marker 91.5	29	159	864:42:45	99.73%
	68	US-1 NB at Mile Marker 39.5	48	209	849:09:25	84.93%
	71	US-1 NB at Mile Marker 7.5	47	269	1513:42:29	99.94%
	61	US-1 SB at Mile Marker 126	46	240	1469:01:04	96.93%
	63	US-1 SB at Mile Marker 113	33	151	806:39:09	90.79%
	65	US-1 SB at Mile Marker 106	38	149	796:00:00	89.92%
	67	US-1 SB at Mile Marker 91.5	41	181	965:18:27	99.67%
	69	US-1 SB at Mile Marker 39.5	19	108	666:23:07	85.04%
	70	US-1 SB at Mile Marker 7.5	12	105	785:18:21	99.68%
US-1 South of Florida City Subtotal			352	1810	10239:51:11	94.40%
Arterials Subtotal			4397	16459	36149:44:39	97.39%
Limited Access Facilities Subtotal			4316	16096	37708:26:45	99.11%
Grand Total			8713	32555	73858:11:24	98.15%

*DMS 15 is undergoing testing for Capital Improvement and is used periodically. Messages posted on this DMS are not computed and system availability is not measured for this device.

**Two 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		102	28	115	52	14	10	0	26	32	27	63	131
Safety Messaging		210	103	288	81	53	38	0	135	208	0	127	280
District 6	Miami-Dade I-95	2477	325	1158	42	432	845	2403	2863	0	1040	351	0
	Miami-Dade Express Lanes	542	344	124	0	0	181	0	369	0	0	0	0
	Miami-Dade I-195	98	0	0	0	39	30	96	0	0	54	14	0
	Miami-Dade I-395	103	41	0	0	5	87	84	0	0	15	33	0
	Miami-Dade MacArthur Causeway	94	28	2	0	6	48	59	1	2	12	24	0
	Miami-Dade SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade SR-826	70	40	1951	671	0	0	145	617	1236	0	50	0
	Miami-Dade I-75	0	0	32	20	0	0	0	0	0	0	0	0
	Miami-Dade US-1	42	0	0	0	0	30	22	0	18	0	36	18
	Monroe US-1	0	0	0	0	0	0	0	0	0	0	1	502
	Monroe Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade SR-997/ Krome Avenue	0	0	2	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	710	304	908	282	167	147	0	372	560	50	384	879
Monroe OTHER	0	0	0	0	0	0	0	0	0	0	0	0	
MDX	Miami-Dade SR-836	650	92	786	0	87	323	523	9	1334	228	155	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	176	60	0	0	49	68	159	21	0	138	38	0
	Miami-Dade SR-874	0	0	9	0	0	0	0	0	32	0	3	0
	Miami-Dade SR-878	0	0	0	0	0	0	0	0	0	0	4	0
	Miami-Dade SR-924	0	0	3	2	0	0	0	0	0	0	0	0
District 4	Broward I-95	69	63	78	0	0	0	135	330	0	0	0	0
	Broward I-75	0	0	6	9	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	3	0	0	0	0	0	4	0	0	0
	Miami-Dade Floridas Turnpike Spur	0	0	0	0	0	0	0	0	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
Port	Miami-Dade Port Miami Tunnel	28	13	0	0	0	1	0	0	0	0	7	0
Subtotal of On Route		2477	344	1951	20	39	87	2403	2863	1236	54	37	520
Subtotal of Off Route		2894	1097	3514	1139	813	1721	1223	1880	2190	1510	1253	1290
Total District 6		4448	1213	4580	1148	716	1416	2809	4383	2056	1198	1083	1810
Other Agencies		923	228	885	11	136	392	817	360	1370	366	207	0
Total		5371	1441	5465	1159	852	1808	3626	4743	3426	1554	1290	1810

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

