

DMS Usage Report – November 2014

Summary of Monthly Operations

In the month of November, there were 40,681 messages posted with 10,555 DMS activations for 1,357 events. The DMS efficiency was 100.00% (1,357 of the 1,357 signable events had DMS messages posted). There was an average of 7.78 DMSs activated per each signable event and an average of 3.85 DMS messages were posted per each DMS activation. This resulted in an average of 29.98 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

- $$\frac{10555 \text{ DMS Activations}}{1357 \text{ Events}} = \underline{7.78} \text{ Average DMS Activations per Event}$$

An average of 7.78 DMSs were activated per each signable event

- $$\frac{40681 \text{ DMS Messages}}{10555 \text{ DMS Activations}} = \underline{3.85} \text{ Average DMS Messages per Activation}$$

An average of 3.85 DMS messages were posted per each DMS activation

- $$7.78 \frac{\text{DMS Activations}}{\text{Events}} \times 3.85 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{29.98^*} \text{ DMS Messages per Event}$$

An average of 29.98 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	946
Florida's Turnpike Enterprise	62
Miami-Dade Expressway Authority	5023
Total	6094

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	17728
Other Districts' Incidents	2023
Construction	19516
Safety	438
Vehicle Alert	976
Total	40681



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	157	671	1149:52:10	100.00%
	22	I-95 NB south of NW 62 St	135	626	1466:52:13	100.00%
	75	I-95 NB before SR 112	313	1157	1832:49:25	100.00%
	77	I-95 NB beyond SW 8 St	347	1260	1976:42:47	100.00%
	2****	I-95 SB north of Ives Dairy Rd	252	879	1449:13:16	N/A****
	3****	I-95 SB north of Miami Gardens Dr	266	907	1477:19:20	N/A****
	20	I-95 SB south of NW 119 St	154	553	1134:52:11	100.00%
	21	I-95 SB south of NW 62 St	212	732	1351:37:28	100.00%
	74	I-95 SB beyond of SR 112	151	616	1338:53:34	100.00%
	76	I-95 SB before Rickenbacker Cswy	27	166	755:04:01	100.00%
I-95 Mainline Subtotal			2014	7567	13933:16:25	100.00%
I-95 Express	95X40	95X NB at NW 62nd St	118	376	996:21:32	99.67%
	95X45	95X NB at NW 125th St	156	600	1137:17:51	99.88%
	95XSB45	95X SB at NW 62nd St	179	592	1128:23:48	99.19%
	95XSB50	95X SB at NW 125th St	143	448	943:29:39	99.77%
I-95 Express Subtotal			596	2016	4205:32:50	99.63%
SR 826	14	SR 826 NB beyond NW 122 St	102	414	874:21:17	99.00%
	4	SR 826 EB east of NW 67 Ave	136	659	1439:10:02	100.00%
	5	SR 826 EB east of NW 37 Ave	306	1135	1672:02:41	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	95	373	930:17:33	100.00%
	19	SR 826 WB beyond NW 67 Ave	105	315	881:07:12	100.00%
	826NB58	SR 826 NB before NW 58 St	86	345	853:17:30	96.92%
	826SB58	SR 826 SB before NW 58 St	144	422	1220:56:19	100.00%
	826SB103	SR 826 SB before NW 103 St	143	419	1089:54:00	100.00%
	826NB1.3-LL	SR 826 NB before SW 72 St	121	460	1260:20:39	100.00%
	826NB4.8-LL**	SR 826 NB at SW 24 St	170	540	1304:10:04	N/A**
	826SB8.8-LL**	SR 826 SB at NW 36 St	157	444	1223:34:55	N/A**
SR 826 Subtotal			1565	5526	12749:12:12	99.55%
I-75	43	I-75 NB before Miami Gardens Dr	32	141	772:47:29	100.00%
	44	I-75 SB before Miami Gardens Dr	129	485	970:41:16	99.53%
	42	I-75 SB ramp from NW 138 St	147	534	1002:17:24	100.00%
I-75 Subtotal			308	1160	2745:46:09	99.84%
I-195 Mainline	57	I-195 EB before North Miami Ave	36	153	767:09:57	98.71%
	105	I-195 WB before Alton Rd	215	848	1708:13:59	100.00%
I-195 Mainline Subtotal			251	1001	2475:23:56	99.36%
I-395	886WB	Port Blvd WB before US-1	249	991	1828:22:00	100.00%
	104	I-395 WB at Watson Island	287	1140	1719:55:41	90.18%
I-395 Subtotal			536	2131	3548:17:41	95.09%
Limited Access Facilities Subtotal			5270	19401	39657:29:13	99.39%

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	161	603	943:05:58	N/A****
	113****	Ives Dairy Rd WB before I-95	157	587	934:39:02	N/A****
	110****	Miami Gardens Dr EB before I-95	42	155	273:29:12	N/A****
	111****	Miami Gardens Dr WB before I-95	196	751	1057:58:27	N/A****
	112	NW 103 St EB before I-95	224	898	1275:58:14	99.96%
	106	NW 79 St EB before I-95	231	882	1273:10:37	100.00%
	107	NW 54 St EB before I-95	285	1120	1542:05:05	100.00%
	108	SW 8 St EB before I-95	199	784	1333:11:10	97.55%
I-95 Arterial Subtotal			1495	5780	8633:37:45	99.38%
Golden Glades Interchange	6****	SR 826 WB west of NE 2nd Ave	333	1243	1731:10:53	N/A****
	7	Turnpike SB to Golden Glades	322	1237	1571:22:12	98.49%
	9	US-441 NB at TRI-Rail	132	616	1136:51:51	100.00%
	10	SR 9 NB before Park & Ride	214	946	1347:11:59	100.00%
	8	US-441 SB at NW 179 St	320	1199	1637:45:58	97.48%
Golden Glades Interchange Subtotal			1321	5241	7424:22:53	98.99%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	175	574	1309:58:47	100.00%
	SW24WB	SW 24 St WB before SR 826	175	574	1309:58:45	100.00%
	SW40EB	SW 40 St EB before SR 826	154	537	1279:58:10	100.00%
	SW40WB	SW 40 St WB before SR 826	156	540	1292:43:33	100.00%
	SW56EB	SW 56 St EB before SR 826	136	510	1269:38:20	100.00%
	SW56WB	SW 56 St WB before SR 826	135	503	1268:10:57	100.00%
	SW72EB	SW 72 St EB before SR 826	120	475	1221:09:27	100.00%
	SW72WB	SW 72 St WB before SR 826	123	481	1251:39:14	100.00%
SR 826 Arterial Subtotal			1174	4194	10203:17:13	100.00%
I-195 Arterial	38	Alton Rd SB before I-195	190	767	1363:36:36	99.93%
	39	Arthur Godfrey WB before I-195	186	743	1311:32:38	99.53%
	40	Alton Rd NB before I-195	187	743	1316:00:12	99.73%
I-195 Arterial Subtotal			563	2253	3991:09:26	99.73%
US-1 in Miami-Dade County	23	US-1 NB beyond SW 17 Ave	187	746	1604:30:38	100.00%
	45	US-1 SB before SW 80 St	36	157	788:21:53	100.00%
	47	US-1 SB at Florida's Turnpike	23	124	755:39:03	100.00%
	46	US-1 NB before Killian Dr	87	358	1109:47:41	100.00%
	48	US-1 NB at Florida's Turnpike	23	122	757:46:56	100.00%
US-1 in Miami-Dade County Subtotal			356	1507	5016:06:11	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	24	123	758:10:07	100.00%
	64	US-1 NB at Mile Marker 106	23	148	725:10:05	95.97%
	66	US-1 NB at Mile Marker 91.5	35	222	854:15:04	100.00%
	68	US-1 NB at Mile Marker 39.5	54	341	981:56:41	99.95%
	71	US-1 NB at Mile Marker 7.5	49	336	957:52:33	99.83%
	61	US-1 SB at Mile Marker 126	47	280	890:02:57	99.77%
	63	US-1 SB at Mile Marker 113	43	253	869:41:48	99.12%
	65	US-1 SB at Mile Marker 106	20	106	282:24:21	34.57%
	67	US-1 SB at Mile Marker 91.5	45	262	889:38:12	100.00%
	69	US-1 SB at Mile Marker 39.5	20	119	760:09:50	100.00%
	70	US-1 SB at Mile Marker 7.5	16	115	742:39:23	99.58%
US-1 South of Florida City Subtotal			376	2305	8712:01:01	93.53%
Arterials Subtotal			5285	21280	43980:34:29	97.76%
Limited Access Facilities Subtotal			5270	19401	39657:29:13	99.39%
Grand Total			10555	40681	83638:03:42	98.48%

*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			168	56	173	49	27	29	28	72	70	36	87	181
Safety Messaging			70	28	77	21	14	11	0	35	56	21	35	70
District 6	Miami-Dade	I-95	3618	656	1144	26	488	949	3409	2909	21	1238	386	0
	Miami-Dade	Express Lanes	1049	342	181	0	0	270	1	535	0	0	1	0
	Miami-Dade	I-195	146	0	0	0	70	46	137	6	0	109	27	0
	Miami-Dade	I-395	82	34	2	0	11	121	66	4	3	33	23	0
	Miami-Dade	MacArthur Causeway	24	5	0	0	0	58	4	0	0	0	5	0
	Miami-Dade	SR886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-826	325	100	2131	703	0	11	378	812	2412	0	174	0
	Miami-Dade	I-75	0	0	74	33	0	0	0	0	0	0	0	0
	Miami-Dade	US-1	4	0	0	0	0	0	1	0	22	0	27	0
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	994
	Monroe	Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	86
	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	992	392	1040	281	196	175	667	456	736	263	478	971
MDX	Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-836	453	122	526	10	61	232	359	0	862	174	138	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	508	178	0	0	134	229	448	7	0	379	95	0
	Miami-Dade	SR-874	0	0	5	0	0	0	0	0	12	0	2	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	20	0
District 4	Miami-Dade	SR-924	0	0	45	24	0	0	0	0	0	0	0	0
	Broward	I-95	74	79	88	0	0	0	277	381	0	0	0	0
	Broward	I-75	0	0	34	13	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
Turnpike	Broward	OTHER	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	Floridas Turnpike	0	0	0	0	0	0	0	0	0	0	0	3
	Miami-Dade	Floridas Turnpike Spur	18	6	6	0	0	0	5	24	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
Port	Miami-Dade	Port Miami Tunnel	36	18	0	0	0	0	0	0	0	0	9	0
Subtotal of On Route			3618	342	2131	33	70	121	3409	2909	2412	109	27	994
Subtotal of Off Route			3949	1674	3395	1127	931	2010	2371	2332	1782	2144	1480	1311
Total District 6			6478	1613	4822	1113	806	1670	4691	4829	3320	1700	1243	2302
Other Agencies			1089	403	704	47	195	461	1089	412	874	553	264	3
Total			7567	2016	5526	1160	1001	2131	5780	5241	4194	2253	1507	2305

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

