

DMS Usage Report – December 2014

Summary of Monthly Operations

In the month of December, there were 36,147 messages posted with 9,167 DMS activations for 1,273 events. The DMS efficiency was 99.69% (1,269 of the 1,273 signable events had DMS messages posted). There was an average of 7.20 DMSs activated per each signable event and an average of 3.94 DMS messages were posted per each DMS activation. This resulted in an average of 28.40 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

- $\frac{9167 \text{ DMS Activations}}{1273 \text{ Events}} = \underline{7.20} \text{ Average DMS Activations per Event}$

An average of 7.20 DMSs were activated per each signable event

- $\frac{36147 \text{ DMS Messages}}{9167 \text{ DMS Activations}} = \underline{3.94} \text{ Average DMS Messages per Activation}$

An average of 3.94 DMS messages were posted per each DMS activation

- $7.20 \frac{\text{DMS Activations}}{\text{Events}} \times 3.94 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{28.40^*} \text{ DMS Messages per Event}$

An average of 28.40 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	106
FDOT District 4	1045
Florida's Turnpike Enterprise	125
Miami-Dade Expressway Authority	5193
Total	6469

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	18402
Other Districts' Incidents	2801
Construction	13529
Safety	0
Vehicle Alert	1415
Total	36147



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	597	1657:02:01	99.20%
	22	I-95 NB south of NW 62 St	144	643	1521:29:50	95.76%
	75	I-95 NB before SR 112	289	1049	1704:50:35	99.95%
	77	I-95 NB beyond SW 8 St	323	1180	1801:08:04	99.95%
	2****	I-95 SB north of Ives Dairy Rd	165	572	1063:26:29	N/A****
	3****	I-95 SB north of Miami Gardens Dr	173	619	1111:30:07	N/A****
	20	I-95 SB south of NW 119 St	119	450	1014:34:32	99.84%
	21	I-95 SB south of NW 62 St	168	638	1133:44:34	95.94%
	74	I-95 SB beyond of SR 112	146	537	1088:37:23	99.95%
	76	I-95 SB before Rickenbacker Cswy	27	202	827:34:44	99.95%
I-95 Mainline Subtotal			1700	6487	12923:58:19	98.82%
I-95 Express	95X40	95X NB at NW 62nd St	128	409	1112:49:04	99.64%
	95X45	95X NB at NW 125th St	151	542	1149:28:24	99.13%
	95XSB45	95X SB at NW 62nd St	135	547	1100:27:56	99.33%
	95XSB50	95X SB at NW 125th St	89	290	869:04:49	99.52%
I-95 Express Subtotal			503	1788	4231:50:13	99.41%
SR 826	14	SR 826 NB beyond NW 122 St	94	484	978:22:38	99.96%
	4	SR 826 EB east of NW 67 Ave	137	690	1580:24:08	99.84%
	5	SR 826 EB east of NW 37 Ave	288	1089	1693:23:21	96.96%
	15*	SR 826 WB beyond NW 17 Ave	0	0	0:00:00	N/A*
	17	SR 826 WB beyond NW 47 Ave	85	392	1146:26:55	99.84%
	19	SR 826 WB beyond NW 67 Ave	110	446	1165:35:29	100.00%
	826NB58	SR 826 NB before NW 58 St	74	298	845:09:19	99.94%
	826SB58	SR 826 SB before NW 58 St	150	474	1232:08:45	99.94%
	826SB103	SR 826 SB before NW 103 St	121	397	1177:57:21	99.94%
	826NB1.3-LL	SR 826 NB before SW 72 St	75	245	835:26:04	96.77%
	826NB4.8-LL**	SR 826 NB at SW 24 St	145	468	998:23:24	N/A**
	826SB8.8-LL**	SR 826 SB at NW 36 St	164	502	1242:42:23	N/A**
SR 826 Subtotal			1443	5485	12895:59:47	99.24%
I-75	43	I-75 NB before Miami Gardens Dr	30	216	1275:05:13	99.96%
	44	I-75 SB before Miami Gardens Dr	121	535	1188:08:43	99.95%
	42	I-75 SB ramp from NW 138 St	144	616	1240:29:49	99.96%
I-75 Subtotal			295	1367	3703:43:45	99.96%
I-195 Mainline	57	I-195 EB before North Miami Ave	29	154	727:52:01	91.50%
	105	I-195 WB before Alton Rd	172	747	1605:37:13	99.94%
I-195 Mainline Subtotal			201	901	2333:29:14	95.72%
I-395	886WB	Port Blvd WB before US-1	214	912	1591:48:20	99.94%
	104	I-395 WB at Watson Island	251	887	1462:22:32	87.44%
I-395 Subtotal			465	1799	3054:10:52	93.69%
Limited Access Facilities Subtotal			4607	17827	39143:12:10	98.57%

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	118	441	819:28:02	N/A****
	113****	Ives Dairy Rd WB before I-95	118	441	819:01:41	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	141	602	879:18:39	N/A****
	112	NW 103 St EB before I-95	193	673	1127:44:27	99.81%
	106	NW 79 St EB before I-95	200	749	1202:15:33	99.81%
	107	NW 54 St EB before I-95	253	947	1377:49:15	99.94%
	108	SW 8 St EB before I-95	170	675	1010:31:37	94.64%
I-95 Arterial Subtotal			1193	4528	7236:09:14	98.55%
Golden Glades Interchange	6****	SR 826 WB west of NE 2nd Ave	293	1066	1703:28:10	N/A****
	7	Turnpike SB to Golden Glades	294	1082	1562:35:09	99.70%
	9	US-441 NB at TRI-Rail	121	576	1208:12:19	99.80%
	10	SR 9 NB before Park & Ride	208	887	1419:20:11	99.83%
	8	US-441 SB at NW 179 St	273	954	1472:08:30	96.80%
Golden Glades Interchange Subtotal			1189	4565	7365:44:19	99.03%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	159	493	998:55:48	99.94%
	SW24WB	SW 24 St WB before SR 826	159	493	998:55:51	99.94%
	SW40EB	SW 40 St EB before SR 826	140	430	987:27:12	99.94%
	SW40WB	SW 40 St WB before SR 826	140	430	987:27:20	99.94%
	SW56EB	SW 56 St EB before SR 826	109	343	951:24:36	99.94%
	SW56WB	SW 56 St WB before SR 826	109	343	951:24:50	99.94%
	SW72EB	SW 72 St EB before SR 826	94	315	942:45:26	99.94%
	SW72WB	SW 72 St WB before SR 826	94	315	942:45:20	99.94%
SR 826 Arterial Subtotal			1004	3162	7761:06:23	99.94%
I-195 Arterial	38	Alton Rd SB before I-195	158	673	1334:46:09	99.80%
	39	Arthur Godfrey WB before I-195	147	606	1238:21:53	96.88%
	40	Alton Rd NB before I-195	156	671	1320:54:42	99.96%
I-195 Arterial Subtotal			461	1950	3894:02:44	98.88%
US-1 in Miami-Dade County	23	US-1 NB beyond SW 17 Ave	154	752	1619:16:41	99.96%
	45	US-1 SB before SW 80 St	38	187	840:00:17	99.95%
	47	US-1 SB at Florida's Turnpike	17	119	708:52:40	94.06%
	46	US-1 NB before Killian Dr	59	242	976:42:06	99.95%
	48	US-1 NB at Florida's Turnpike	20	124	713:18:31	94.12%
US-1 in Miami-Dade County Subtotal			288	1424	4858:10:15	97.61%

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	17	126	804:26:44	99.85%
	64	US-1 NB at Mile Marker 106	19	115	632:40:20	88.64%
	66	US-1 NB at Mile Marker 91.5	38	251	937:31:35	99.86%
	68	US-1 NB at Mile Marker 39.5	57	343	1021:39:44	97.29%
	71	US-1 NB at Mile Marker 7.5	56	391	1395:48:21	97.38%
	61	US-1 SB at Mile Marker 126	58	372	1402:50:41	99.64%
	63	US-1 SB at Mile Marker 113	52	290	794:33:19	89.18%
	65	US-1 SB at Mile Marker 106	46	245	675:27:56	80.54%
	67	US-1 SB at Mile Marker 91.5	44	280	954:47:48	99.80%
	69	US-1 SB at Mile Marker 39.5	23	154	775:07:58	97.55%
	70	US-1 SB at Mile Marker 7.5	15	124	773:38:10	97.65%
US-1 South of Florida City Subtotal			425	2691	10168:32:36	95.22%
Arterials Subtotal			4560	18320	41283:45:31	97.77%
Limited Access Facilities Subtotal			4607	17827	39143:12:10	98.57%
Grand Total			9167	36147	80426:57:41	98.13%

*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			268	76	228	98	39	35	0	68	80	84	147	292
Safety Messaging			0	0	0	0	0	0	0	0	0	0	0	0
District 6	Miami-Dade	I-95	2879	408	995	64	403	755	2536	2393	0	984	364	0
	Miami-Dade	Express Lanes	683	321	112	0	0	200	0	344	0	0	0	0
	Miami-Dade	I-195	83	0	3	0	53	29	90	4	2	70	4	0
	Miami-Dade	I-395	54	16	0	0	0	120	31	0	0	0	19	0
	Miami-Dade	MacArthur Causeway	50	14	0	0	1	18	0	0	0	3	14	0
	Miami-Dade	SR-886/Port Boulevard	186	62	0	0	0	62	0	0	0	0	62	0
	Miami-Dade	SR-826	166	87	2032	733	1	1	177	679	1092	0	65	0
	Miami-Dade	I-75	11	0	176	69	0	0	11	55	22	0	0	0
	Miami-Dade	US-1	26	0	0	0	1	2	4	0	8	3	40	0
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	1292
	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	1005	411	1116	362	199	182	560	497	800	296	484	1107	
Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0	
MDX	Miami-Dade	SR-836	493	137	641	6	87	229	427	4	1058	229	136	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	395	130	0	0	112	164	354	54	0	266	41	0
	Miami-Dade	SR-874	0	0	19	0	0	0	0	0	100	0	15	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	8	0
Miami-Dade	SR-924	0	0	54	34	0	0	0	0	0	0	0	0	
District 4	Broward	I-95	97	86	94	0	5	1	306	426	0	15	10	0
	Broward	I-75	0	0	4	1	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	0
	Miami-Dade	Floridas Turnpike Spur	31	10	11	0	0	0	32	41	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	60	30	0	0	0	1	0	0	0	0	15	0
Subtotal of On Route			2879	321	2032	69	53	120	2536	2393	1092	70	40	1292
Subtotal of Off Route			3608	1467	3453	1298	848	1679	1992	2172	2070	1880	1384	1399
Total District 6			5411	1395	4662	1326	697	1404	3409	4040	2004	1440	1199	2691
Other Agencies			1076	393	823	41	204	395	1119	525	1158	510	225	0
Total			6487	1788	5485	1367	901	1799	4528	4565	3162	1950	1424	2691

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

