

DMS Usage Report – March 2017

Summary of Monthly Operations

In the month of March, there were 45,903 messages posted with 11,040 DMS activations for 1,683 events. The DMS efficiency was 100.00% (1,683 of the 1,683 signable events had DMS messages posted) for all roadways. There was an average of 6.56 DMSs activated per each signable event and an average of 4.16 DMS messages were posted per each DMS activation. This resulted in an average of 27.27 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

- $\frac{11040 \text{ DMS Activations}}{1683 \text{ Events}} = \underline{6.56} \text{ Average DMS Activations per Event}$

An average of 6.56 DMSs were activated per each signable event

- $\frac{45903 \text{ DMS Messages}}{11040 \text{ DMS Activations}} = \underline{4.16} \text{ Average DMS Messages per Activation}$

An average of 4.16 DMS messages were posted per each DMS activation

- $6.56 \frac{\text{DMS Activations}}{\text{Events}} \times 4.16 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{27.27^*} \text{ DMS Messages per Event}$

An average of 27.27 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	176
FDOT District 4	933
Florida's Turnpike Enterprise	300
Miami-Dade Expressway Authority	1861
Total	3270

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	21376
Other Districts' Incidents	2206
Construction	8991
Safety	12013
Vehicle Alert	1317
Total	45903

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	207	808	2046:52:24	97.84%
	22	I-95 NB south of NW 62 St	145	643	1084:33:50	100.00%
	75	I-95 NB before SR 112	319	1199	1374:30:48	99.36%
	77	I-95 NB beyond SW 8 St	353	1389	1832:36:51	99.05%
	2	I-95 SB north of Ives Dairy Rd	319	1107	2128:48:39	100.00%
	3***	I-95 SB north of Miami Gardens Dr	333	1225	2144:17:16	100.00%
	095NB013.5LL***	I-95 NB north of NW 173 St	90	364	801:07:46	99.82%
	20	I-95 SB south of NW 119 St	169	667	1477:40:27	100.00%
	21	I-95 SB south of NW 62 St	161	739	1147:25:38	100.00%
	74	I-95 SB beyond of SR 112	165	769	1147:05:57	99.06%
76	I-95 SB before Rickenbacker Cswy	39	314	823:41:40	99.90%	
I-95 Mainline Subtotal			2300	9224	16008:41:16	99.55%
I-95 Express	95X40	95X NB at NW 62nd St	175	648	1040:48:54	99.99%
	95X45	95X NB at NW 125th St	191	739	1434:05:54	100.00%
	95XSB45	95X SB at NW 62nd St	146	626	1045:03:09	99.69%
	95XSB50	95X SB at NW 125th St	137	494	954:23:46	99.96%
	095SB014.6-EL***	95X SB at Miami Gardens Dr	237	838	1799:12:04	78.61%
	095NB014.8-EL***	95X SB north of Miami Gardens Dr	69	329	959:31:19	99.93%
I-95 Express Subtotal			955	3674	7233:05:06	99.91%
SR 826	4	SR 826 EB east of NW 67 Ave	97	392	865:15:10	99.42%
	5	SR 826 EB east of NW 37 Ave	338	1141	1827:13:33	99.91%
	14****	SR 826 NB beyond NW 122 St	0	0	0:00:00	N/A****
	15*	SR 826 WB beyond NW 17 Ave	0	0	0:00:00	N/A*
	17	SR 826 WB beyond NW 47 Ave	125	498	1461:13:17	100.00%
	19	SR 826 WB beyond NW 67 Ave	91	398	773:31:33	60.39%
	826NB58	SR 826 NB before NW 58 St	107	447	1149:38:27	96.46%
	826SB103****	SR 826 SB before NW 103 St	18	92	317:11:19	N/A****
	826SB58	SR 826 SB before NW 58 St	58	261	686:44:45	79.47%
	826NB1.3-LL	SR 826 NB before SW 72 St	74	375	1210:42:19	100.00%
	826NB4.8-LL**	SR 826 NB at SW 24 St	183	534	1296:08:12	90.08%
826SB8.8-LL**	SR 826 SB at NW 36 St	152	407	967:30:33	100.00%	
SR 826 Subtotal			1243	4545	10555:09:08	91.75%
I-75	43	I-75 NB before Miami Gardens Dr	53	295	1735:57:13	99.15%
	44	I-75 SB before Miami Gardens Dr	158	739	1511:02:40	99.17%
	42	I-75 SB ramp from NW 138 St	148	703	1447:09:24	99.49%
I-75 Subtotal			359	1737	4694:09:17	99.27%
I-195 Mainline	57	I-195 EB before North Miami Ave	48	257	814:45:42	99.45%
	105	I-195 WB before Alton Rd	146	678	956:56:56	98.94%
I-195 Mainline Subtotal			194	935	1771:42:38	99.20%
I-395	886WB	Port Blvd WB before US-1	164	705	866:51:05	86.24%
	104	I-395 WB at Watson Island	327	1164	1262:59:15	98.10%
I-395 Subtotal			491	1869	2129:50:20	92.17%
Limited Access Facilities Subtotal			5542	21984	42392:37:45	96.35%

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	193	805	1214:22:00	99.23%
	113	Ives Dairy Rd WB before I-95	130	533	716:26:50	82.08%
	110	Miami Gardens Dr EB before I-95	213	873	1563:12:17	99.27%
	111	Miami Gardens Dr WB before I-95	199	820	1510:09:51	97.33%
	112*	NW 103 St EB before I-95	0	0	0:00:00	N/A*
	106	NW 79 St EB before I-95	199	759	825:00:44	98.85%
	107	NW 54 St EB before I-95	166	656	646:05:33	77.23%
	108	SW 8 St EB before I-95	134	684	862:16:15	97.92%
I-95 Arterial Subtotal			1234	5130	7337:33:30	93.13%
Golden Glades Interchange	6	SR 826 WB west of NE 2nd Ave	373	1295	2186:29:27	100.00%
	7	Turnpike SB to Golden Glades	327	1183	2129:48:33	100.00%
	9	US-441 NB at TRI-Rail	88	450	1175:12:48	100.00%
	10	SR 9 NB before Park & Ride	85	435	1165:06:28	98.71%
	8	US-441 SB at NW 179 St	288	1112	2087:54:06	100.00%
Golden Glades Interchange Subtotal			1161	4475	8744:31:22	99.74%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	129	558	1324:15:00	100.00%
	SW24WB	SW 24 St WB before SR 826	128	555	1323:51:06	99.90%
	SW40EB	SW 40 St EB before SR 826	103	487	1267:45:59	100.00%
	SW40WB	SW 40 St WB before SR 826	105	500	1279:20:55	100.00%
	SW56EB	SW 56 St EB before SR 826	78	387	1087:41:34	100.00%
	SW56WB	SW 56 St WB before SR 826	77	385	1060:10:47	100.00%
	SW72EB	SW 72 St EB before SR 826	69	360	1051:51:42	99.96%
	SW72WB	SW 72 St WB before SR 826	69	360	1051:51:35	99.94%
	WFLAGLEREB**	W Flagler ST EB before SR 826	128	455	1165:42:51	90.16%
	WFLAGLERWB**	W Flagler ST WB before SR 826	128	455	1165:42:47	90.12%
	NW25EB**	NW 25 ST EB before SR 826	152	551	1143:07:11	98.57%
	NW25WB**	NW 25 ST WB before SR 826	137	467	989:18:19	88.92%
	NW36EB**	NW 36 ST EB before SR 826	130	437	971:31:32	88.93%
	NW36WB**	NW 36 ST WB before SR 826	147	523	1157:23:26	99.95%
	SW8EB**	SW 8 ST EB before SR 826	130	552	1293:01:18	100.00%
	SW8WB**	SW 8 ST WB before SR 826	119	456	1148:11:57	90.15%
SW88EB**	Kendall DR EB before SR 826	45	254	817:03:34	83.93%	
SW88WB**	Kendall DR WB before SR 826	51	281	972:59:26	99.65%	
SR 826 Arterial Subtotal			1925	8023	20270:50:59	96.12%
I-195 Arterial	38	Alton Rd SB before I-195	101	515	827:38:23	99.49%
	39	Arthur Godfrey WB before I-195	101	522	829:04:37	99.70%
	40	Alton Rd NB before I-195	101	509	799:43:45	98.79%
I-195 Arterial Subtotal			303	1546	2456:26:45	99.33%

Table 3b – continued DMS Usage by Roadway (Arterials)

Roadway	ID	Location	# of Activations	# of Messages	Duration (Hr:Min)	Availability
US-1 in Miami-Dade County	23	US-1 NB beyond SW 17 Ave	266	1034	1688:48:34	100.00%
	45	US-1 SB before SW 80 St	36	215	803:54:58	99.46%
	47	US-1 SB at Florida's Turnpike	29	185	797:37:41	100.00%
	46	US-1 NB before Killian Dr	52	281	846:46:26	100.00%
	48	US-1 NB at Florida's Turnpike	35	222	805:03:45	100.00%
US-1 in Miami-Dade County Subtotal			418	1937	4942:11:24	99.89%
US-1 South of Florida City	62	US-1 NB at Mile Marker 126	33	203	803:46:13	99.84%
	64	US-1 NB at Mile Marker 106	52	313	1545:17:58	99.87%
	66	US-1 NB at Mile Marker 91.5	58	322	930:43:11	98.47%
	68	US-1 NB at Mile Marker 39.5	56	319	906:02:19	97.44%
	71	US-1 NB at Mile Marker 7.5	57	362	1684:34:45	99.82%
	61	US-1 SB at Mile Marker 126	61	350	1664:20:04	99.06%
	63	US-1 SB at Mile Marker 113	35	209	803:04:06	99.74%
	65	US-1 SB at Mile Marker 106	30	199	781:42:45	99.71%
	67	US-1 SB at Mile Marker 91.5	32	191	776:27:15	98.58%
	69	US-1 SB at Mile Marker 39.5	23	170	744:57:45	97.34%
70	US-1 SB at Mile Marker 7.5	20	170	782:46:45	99.86%	
US-1 South of Florida City Subtotal			457	2808	11423:43:06	99.07%
Arterials Subtotal			5498	23919	55175:17:06	98.40%
Limited Access Facilities Subtotal			5542	21984	42392:37:45	96.35%
Grand Total			11040	45903	97567:54:51	96.92%

*DMS 15 and 112 were undergoing testing for Capital Improvement and were used periodically. Messages posted on these DMS are not computed and system availability is not measured for these devices.

**Twelve DMS along the SR 826 Section 5 project are operational and are still under warranty.

*** DMS 3, FLD6DOT095NB013.5-LL, FLD6DOT095SB014.6-EL, and FLD6DOT095NB014.8-EL are operational and are under the Express Lanes Phase 2 Contracto.

****DMS 14 and 826SBNW103ST01 are under the SR-826/I-75 Express Lanes 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			266	75	130	81	32	32	65	50	106	58	134	288
Safety Messaging			2,031	1,125	1,242	449	279	254	827	875	2,171	402	715	1,643
District 6	Miami-Dade	I-95	3,592	721	494	0	346	608	3,234	1,487	16	733	334	0
	Miami-Dade	Express Lanes	1,464	1,048	347	0	0	393	0	955	0	0	412	0
	Miami-Dade	I-195	233	10	0	0	165	58	132	0	0	238	13	0
	Miami-Dade	I-395	117	29	0	0	0	94	36	0	0	0	36	0
	Miami-Dade	MacArthur Causeway	70	4	0	0	1	26	11	0	0	1	4	0
	Miami-Dade	SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-826	419	278	1,733	794	0	0	389	782	5,528	0	84	1
	Miami-Dade	I-75	0	0	116	301	0	0	1	0	6	0	0	0
	Miami-Dade	US-1	84	19	0	0	13	35	56	0	0	32	103	18
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	313
	Monroe	Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	495
	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	6	3	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	35	36	45	9	18	8	0	9	0	0	27	45	
Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0	
MDX	Miami-Dade	SR-836	441	57	245	0	4	358	35	0	46	30	38	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	165	66	0	0	77	3	43	0	0	52	0	0
	Miami-Dade	SR-874	0	0	19	0	0	0	0	0	150	0	16	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	2	0
	Miami-Dade	SR-924	0	0	0	14	0	0	0	0	0	0	0	0
District 4	Broward	I-95	106	99	50	0	0	0	182	187	0	0	0	0
	Broward	Express Lanes	63	38	31	0	0	0	0	28	0	0	0	0
	Broward	I-75	0	0	63	86	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	Florida's Turnpike	36	15	15	0	0	0	36	61	0	0	0	5
	Miami-Dade	Florida's Turnpike Spur	0	0	0	0	0	0	0	0	0	0	0	0
	Broward	Florida's Turnpike	30	16	9	0	0	0	36	41	0	0	0	0
	Palm Beach	Florida's Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
	Martin	Florida's Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
	St. Lucie	Florida's Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
Tunnel	Miami-Dade	Port Miami Tunnel	72	38	0	0	0	0	47	0	0	0	19	0
Subtotal of On Route			3,592	1,048	1,733	301	165	94	3,234	1,487	5,528	238	103	313
Subtotal of Off Route			5,632	2,626	2,812	1,436	770	1,775	1,896	2,988	2,495	1,308	1,834	2,495
Total District 6			8,311	3,345	4,113	1,637	854	1,508	4,751	4,158	7,827	1,464	1,862	2,803
Other Agencies			913	329	432	100	81	361	379	317	196	82	75	5
Total			9,224	3,674	4,545	1,737	935	1,869	5,130	4,475	8,023	1,546	1,937	2,808

Notes: Vehicle Alert messages are signed for entire Miami-Dade and Monroe Counties; thus, they are not location-specific events.
 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

