

## DMS Usage Report – November 2017

### Summary of Monthly Operations

In the month of November, there were 30,173 messages posted with 8,643 DMS activations for 1,534 events. The DMS efficiency was 99.87% (1,532 of the 1,534 signable events had DMS messages posted) for all roadways. There was an average of 5.63 DMSs activated per each signable event and an average of 3.49 DMS messages were posted per each DMS activation. This resulted in an average of 19.67 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

- $$\frac{8,643 \text{ DMS Activations}}{1,534 \text{ Events}} = \mathbf{5.63} \text{ Average DMS Activations per Event}$$

*An average of 5.63 DMSs were activated per each signable event*

- $$\frac{30,173 \text{ DMS Messages}}{8,643 \text{ DMS Activations}} = \mathbf{3.49} \text{ Average DMS Messages per Activation}$$

*An average of 3.49 DMS messages were posted per each DMS activation*

- $$5.63 \frac{\text{DMS Activations}}{\text{Events}} \times 3.49 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \mathbf{19.67^*} \text{ DMS Messages per Event}$$

*An average of 19.67\* 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	160
FDOT District 4	823
Florida's Turnpike Enterprise	59
Miami-Dade Expressway Authority	1371
<b>Total</b>	<b>2413</b>

**Table 2 DMS Usage by Event Type**

Event Type Message	Number of Messages
FDOT District 6 Incidents	14290
Other Districts' Incidents	1702
Construction	6188
Safety	6744
Vehicle Alert	1249
<b>Total</b>	<b>30173</b>

**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	0	0	0:00:00	N/A****
	22	I-95 NB south of NW 62 St	134	543	1081:28:27	86.89%
	75	I-95 NB before SR 112	312	1189	1632:32:36	99.13%
	77	I-95 NB beyond SW 8 St	359	1296	1876:30:39	99.39%
	2	I-95 SB north of Ives Dairy Rd	264	858	1983:21:26	98.95%
	3	I-95 SB north of Miami Gardens Dr	281	999	2030:17:32	100.00%
	095NB013.5LL	I-95 NB north of NW 173 St	109	386	991:22:16	99.11%
	20	I-95 SB south of NW 119 St	112	430	933:29:26	100.00%
	21	I-95 SB south of NW 62 St	111	442	1009:01:56	100.00%
	74	I-95 SB beyond of SR 112	159	549	1151:41:53	99.69%
76	I-95 SB before Rickenbacker Cswy	34	188	838:21:32	100.00%	
<b>I-95 Mainline Subtotal</b>			<b>1875</b>	<b>6880</b>	<b>13528:07:43</b>	<b>98.32%</b>
I-95 Express	95X40	95X NB at NW 62nd St	173	523	1193:24:12	84.96%
	95X45	95X NB at NW 125th St	230	731	1721:57:28	99.67%
	95XSB45	95X SB at NW 62nd St	128	443	1155:47:48	99.91%
	95XSB50	95X SB at NW 125th St	134	447	1163:01:49	100.00%
	095SB014.6-EL	95X SB at Miami Gardens Dr	289	988	2185:39:52	99.34%
	095NB014.8-EL	95X SB north of Miami Gardens Dr	78	307	948:37:11	99.72%
<b>I-95 Express Subtotal</b>			<b>1032</b>	<b>3439</b>	<b>8368:28:20</b>	<b>97.27%</b>
SR 826	4	SR 826 EB east of NW 67 Ave	101	397	1143:30:20	99.69%
	5	SR 826 EB east of NW 37 Ave	323	1061	1873:37:00	99.75%
	14****	SR 826 NB beyond NW 122 St	13	41	120:23:09	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	97	444	1336:44:51	99.77%
	19	SR 826 WB beyond NW 67 Ave	129	597	1306:01:29	93.27%
	826NB58	SR 826 NB before NW 58 St	118	379	1127:46:03	99.95%
	826SB103***	SR 826 SB before NW 103 St	95	396	956:11:10	N/A****
	826SB58	SR 826 SB before NW 58 St	83	324	927:42:57	99.21%
	826NB1.3-LL	SR 826 NB before SW 72 St	88	272	1277:05:55	100.00%
	826NB4.8-LL**	SR 826 NB at SW 24 St	210	499	1544:42:53	99.79%
826SB8.8-LL**	SR 826 SB at NW 36 St	158	408	1136:50:52	99.91%	
<b>SR 826 Subtotal</b>			<b>1415</b>	<b>4818</b>	<b>12750:36:39</b>	<b>99.04%</b>
I-75	43	I-75 NB before Miami Gardens Dr	44	257	1044:38:17	62.43%
	44	I-75 SB before Miami Gardens Dr	142	565	1370:55:57	52.17%
	42	I-75 SB ramp from NW 138 St	88	330	690:43:26	52.84%
<b>I-75 Subtotal</b>			<b>274</b>	<b>1152</b>	<b>3106:17:40</b>	<b>55.81%</b>
I-195 Mainline	57	I-195 EB before North Miami Ave	39	189	836:22:26	99.85%
	105	I-195 WB before Alton Rd	133	546	850:36:09	99.29%
<b>I-195 Mainline Subtotal</b>			<b>172</b>	<b>735</b>	<b>1686:58:35</b>	<b>99.57%</b>
I-395	886WB	Port Blvd WB before US-1	211	775	1299:34:13	100.00%
	104	I-395 WB at Watson Island	330	1082	1510:23:45	97.54%
<b>I-395 Subtotal</b>			<b>541</b>	<b>1857</b>	<b>2809:57:58</b>	<b>98.77%</b>
<b>Limited Access Facilities Subtotal</b>			<b>5309</b>	<b>18881</b>	<b>42250:26:55</b>	<b>91.58%</b>

**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	154	553	915:28:57	98.91%
	113****	Ives Dairy Rd WB before I-95	0	0	0:00:00	N/A****
	110	Miami Gardens Dr EB before I-95	184	694	1147:37:26	99.52%
	111****	Miami Gardens Dr WB before I-95	0	0	0:00:00	N/A****
	112*	NW 103 St EB before I-95	0	0	0:00:00	N/A****
	106	NW 79 St EB before I-95	176	638	853:25:09	98.47%
	107****	NW 54 St EB before I-95	0	0	0:00:00	N/A****
	108	SW 8 St EB before I-95	7	57	95:06:57	12.74%
<b>I-95 Arterial Subtotal</b>			<b>521</b>	<b>1942</b>	<b>3011:38:29</b>	<b>77.41%</b>
Golden Glades Interchange	6	SR 826 WB west of NE 2nd Ave	319	1090	1914:03:03	91.42%
	7****	Turnpike SB to Golden Glades	0	0	0:00:00	N/A****
	9	US-441 NB at TRI-Rail	122	491	1316:36:31	100.00%
	10****	SR 9 NB before Park & Ride	0	0	0:00:00	N/A****
	8****	US-441 SB at NW 179 St	0	0	0:00:00	N/A****
<b>Golden Glades Interchange Subtotal</b>			<b>441</b>	<b>1581</b>	<b>3230:39:34</b>	<b>95.71%</b>
SR 826 Arterial	SW24EB****	SW 24 St EB before SR 826	0	0	0:00:00	N/A****
	SW24WB	SW 24 St WB before SR 826	149	451	1371:02:11	99.88%
	SW40EB	SW 40 St EB before SR 826	110	342	1291:51:26	100.00%
	SW40WB	SW 40 St WB before SR 826	110	344	1292:15:29	99.96%
	SW56EB****	SW 56 St EB before SR 826	0	0	0:00:00	N/A****
	SW56WB	SW 56 St WB before SR 826	32	100	515:01:47	41.91%
	SW72EB	SW 72 St EB before SR 826	90	294	1272:47:02	100.00%
	SW72WB	SW 72 St WB before SR 826	91	296	1271:44:54	99.44%
	WFLAGLEREB	W Flagler ST EB before SR 826	151	441	1325:17:11	97.32%
	WFLAGLERWB**	W Flagler ST WB before SR 826	92	238	608:31:20	57.59%
	NW25EB**	NW 25 ST EB before SR 826	159	494	1379:34:16	97.44%
	NW25WB**	NW 25 ST WB before SR 826	159	494	1379:34:16	100.00%
	NW36EB**	NW 36 ST EB before SR 826	49	157	399:10:50	32.10%
	NW36WB**	NW 36 ST WB before SR 826	158	489	1386:29:24	67.86%
	SW8EB**	SW 8 ST EB before SR 826	158	463	1376:20:54	100.00%
	SW8WB**	SW 8 ST WB before SR 826	160	470	1423:10:22	100.00%
	SW88EB**	Kendall DR EB before SR 826	66	231	1142:10:30	96.06%
SW88WB**	Kendall DR WB before SR 826	67	243	1216:02:39	99.92%	
<b>SR 826 Arterial Subtotal</b>			<b>1801</b>	<b>5547</b>	<b>18651:04:31</b>	<b>86.84%</b>
I-195 Arterial	38	Alton Rd SB before I-195	93	358	806:08:20	98.78%
	39	Arthur Godfrey WB before I-195	94	360	809:28:49	100.00%
	40****	Alton Rd NB before I-195	0	0	0:00:00	N/A****
<b>I-195 Arterial Subtotal</b>			<b>187</b>	<b>718</b>	<b>1615:37:09</b>	<b>99.39%</b>

**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	243	853	1565:59:28	100.00%
	45	US-1 SB before SW 80 St	33	153	831:27:25	100.00%
	47	US-1 SB at Florida's Turnpike	28	157	938:17:12	100.00%
	46	US-1 NB before Killian Dr	43	167	848:23:21	100.00%
	48	US-1 NB at Florida's Turnpike	37	174	949:51:23	100.00%
<b>US-1 in Miami-Dade County Subtotal</b>			<b>384</b>	<b>1504</b>	<b>5133:58:49</b>	<b>100.00%</b>
US-1 South of Florida City	62****	US-1 NB at Mile Marker 126	0	0	0:00:00	N/A****
	64****	US-1 NB at Mile Marker 106	0	0	0:00:00	N/A****
	66****	US-1 NB at Mile Marker 91.5	0	0	0:00:00	N/A****
	68****	US-1 NB at Mile Marker 39.5	0	0	0:00:00	N/A****
	71****	US-1 NB at Mile Marker 7.5	0	0	0:00:00	N/A****
	61****	US-1 SB at Mile Marker 126	0	0	0:00:00	N/A****
	63****	US-1 SB at Mile Marker 113	0	0	0:00:00	N/A****
	65****	US-1 SB at Mile Marker 106	0	0	0:00:00	N/A****
	67****	US-1 SB at Mile Marker 91.5	0	0	0:00:00	N/A****
	69****	US-1 SB at Mile Marker 39.5	0	0	0:00:00	N/A****
70****	US-1 SB at Mile Marker 7.5	0	0	0:00:00	N/A****	
<b>US-1 South of Florida City Subtotal</b>			<b>0</b>	<b>0</b>	<b>0:00:00</b>	<b>N/A****</b>
<b>Arterials Subtotal</b>			<b>3334</b>	<b>11292</b>	<b>31642:58:32</b>	<b>91.63%</b>
<b>Limited Access Facilities Subtotal</b>			<b>5309</b>	<b>18881</b>	<b>42250:26:55</b>	<b>94.44%</b>
<b>Grand Total</b>			<b>8643</b>	<b>30173</b>	<b>73893:25:27</b>	<b>91.99%</b>

\*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 826SBNW103ST0 and 14 are under the SR-826/I-75 Express Lanes Contractor; thus, system availability is not measured for this devices.

\*\*\*\*These DMS were not operational due to the damages caused by Hurricane Irma.

**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		245	115	205	50	41	40	47	28	303	50	125	0
Safety Messaging		1378	844	1091	266	201	193	292	228	1520	191	540	0
District 6	Miami-Dade I-95	2756	772	527	5	342	742	1264	565	28	366	265	0
	Miami-Dade Express Lanes	1386	1176	334	0	0	412	0	296	0	0	408	0
	Miami-Dade I-195	122	1	0	0	100	28	28	0	0	103	8	0
	Miami-Dade I-395	39	0	0	0	0	34	0	0	0	0	4	0
	Miami-Dade MacArthur Causeway	65	11	0	0	0	29	16	0	0	0	11	0
	Miami-Dade SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade SR-826	177	224	1888	529	0	3	120	280	3189	0	20	0
	Miami-Dade I-75	0	0	215	151	0	0	0	0	201	0	0	0
	Miami-Dade US-1	62	0	0	0	0	12	9	0	0	0	45	0
	Monroe US-1	0	0	0	0	0	0	0	0	0	0	1	0
	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	3	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	21	23	114	17	12	6	2	7	147	0	46	0	
Monroe OTHER	0	0	0	0	0	0	0	0	0	0	0	0	
MDX	Miami-Dade SR-836	361	15	244	0	0	358	0	0	73	0	0	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	78	38	0	0	39	0	0	0	0	8	0	0
	Miami-Dade SR-874	0	0	16	0	0	0	0	0	86	0	10	0
	Miami-Dade SR-878	0	0	0	0	0	0	0	0	0	0	1	0
	Miami-Dade SR-924	0	0	21	23	0	0	0	0	0	0	0	0
District 4	Broward I-95	58	120	71	0	0	0	137	124	0	0	0	0
	Broward Express Lanes	42	46	42	0	0	0	0	36	0	0	0	0
	Broward I-75	0	0	36	111	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	10	14	14	0	0	0	7	14	0	0	0	0
	Miami-Dade Florida's Turnpike Spur	0	0	0	0	0	0	0	0	0	0	0	0
	Broward Florida's Turnpike	0	0	0	0	0	0	0	0	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	80	40	0	0	0	0	20	0	0	0	20	0
Subtotal of On Route		2756	1176	1888	151	100	34	1264	565	3189	103	45	0
Subtotal of Off Route		4124	2263	2930	1001	635	1823	678	1016	2358	615	1459	0
Total District 6		6251	3166	4374	1018	696	1499	1778	1407	5388	710	1473	0
Other Agencies		629	273	444	134	39	358	164	174	159	8	31	0
Total		6880	3439	4818	1152	735	1857	1942	1581	5547	718	1504	0

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

