

## DMS Usage Report – May 2017

### Summary of Monthly Operations

In the month of May, there were 52,915 messages posted with 11,919 DMS activations for 1,640 events. The DMS efficiency was 99.94% (1,639 of the 1,640 signable events had DMS messages posted) for all roadways. There was an average of 7.26 DMSs activated per each signable event and an average of 4.44 DMS messages were posted per each DMS activation. This resulted in an average of 32.27 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

- $$\frac{11,919 \text{ DMS Activations}}{1,640 \text{ Events}} = \underline{7.26} \text{ Average DMS Activations per Event}$$

*An average of 7.01 DMSs were activated per each signable event*

- $$\frac{52,915 \text{ DMS Messages}}{11,919 \text{ DMS Activations}} = \underline{4.44} \text{ Average DMS Messages per Activation}$$

*An average of 4.44 DMS messages were posted per each DMS activation*

- $$7.26 \frac{\text{DMS Activations}}{\text{Events}} \times 4.44 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{32.27^*} \text{ DMS Messages per Event}$$

*An average of 32.27\* 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	77
FDOT District 4	1263
Florida's Turnpike Enterprise	0
Miami-Dade Expressway Authority	1721
<b>Total</b>	<b>3061</b>

**Table 2 DMS Usage by Event Type**

Event Type Message	Number of Messages
FDOT District 6 Incidents	23345
Other Districts' Incidents	2319
Construction	9716
Safety	14060
Vehicle Alert	3475
<b>Total</b>	<b>52915</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	220	1010	2351:54:35	100.00%
	22	I-95 NB south of NW 62 St	157	688	1145:39:27	99.20%
	75	I-95 NB before SR 112	345	1506	1951:05:00	99.31%
	77	I-95 NB beyond SW 8 St	402	1696	2206:15:50	99.37%
	2	I-95 SB north of Ives Dairy Rd	285	1036	1635:11:45	99.08%
	3	I-95 SB north of Miami Gardens Dr	306	1160	1885:21:16	100.00%
	095NB013.5LL	I-95 NB north of NW 173 St	101	577	1181:51:39	43.80%
	20	I-95 SB south of NW 119 St	139	584	955:56:10	100.00%
	21	I-95 SB south of NW 62 St	125	622	1048:59:23	99.20%
	74	I-95 SB beyond of SR 112	143	641	1125:03:56	99.56%
76	I-95 SB before Rickenbacker Cswy	45	318	860:53:11	99.95%	
<b>I-95 Mainline Subtotal</b>			<b>2268</b>	<b>9838</b>	<b>16348:12:12</b>	<b>94.50%</b>
I-95 Express	95X40	95X NB at NW 62nd St	200	799	1632:27:45	99.89%
	95X45	95X NB at NW 125th St	196	935	2101:13:36	99.54%
	95XSB45	95X SB at NW 62nd St	112	536	1005:42:14	99.94%
	95XSB50	95X SB at NW 125th St	123	528	1001:18:31	99.85%
	095SB014.6-EL	95X SB at Miami Gardens Dr	271	991	1841:33:32	98.82%
	095NB014.8-EL	95X SB north of Miami Gardens Dr	73	424	1520:42:50	98.87%
<b>I-95 Express Subtotal</b>			<b>975</b>	<b>4213</b>	<b>9102:58:28</b>	<b>99.49%</b>
SR 826	4	SR 826 EB east of NW 67 Ave	135	578	927:52:15	100.00%
	5	SR 826 EB east of NW 37 Ave	375	1465	2073:33:29	100.00%
	14****	SR 826 NB beyond NW 122 St	128	567	1025:28:19	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	132	691	1524:13:23	100.00%
	19	SR 826 WB beyond NW 67 Ave	156	785	1510:07:25	98.93%
	826NB58	SR 826 NB before NW 58 St	110	453	957:53:55	92.92%
	826SB103****	SR 826 SB before NW 103 St	60	281	582:30:05	N/A****
	826SB58	SR 826 SB before NW 58 St	92	439	1042:03:12	95.95%
	826NB1.3-LL	SR 826 NB before SW 72 St	81	362	1177:00:07	100.00%
	826NB4.8-LL**	SR 826 NB at SW 24 St	130	412	1017:25:13	78.84%
826SB8.8-LL**	SR 826 SB at NW 36 St	151	486	1014:12:31	100.00%	
<b>SR 826 Subtotal</b>			<b>1550</b>	<b>6519</b>	<b>12852:19:54</b>	<b>96.29%</b>
I-75	43	I-75 NB before Miami Gardens Dr	48	345	1643:41:53	100.00%
	44	I-75 SB before Miami Gardens Dr	203	1014	1510:29:46	99.72%
	42	I-75 SB ramp from NW 138 St	208	1034	1507:55:36	99.85%
<b>I-75 Subtotal</b>			<b>459</b>	<b>2393</b>	<b>4662:07:15</b>	<b>99.86%</b>
I-195 Mainline	57	I-195 EB before North Miami Ave	49	314	863:56:26	100.00%
	105	I-195 WB before Alton Rd	135	628	905:58:55	99.23%
<b>I-195 Mainline Subtotal</b>			<b>184</b>	<b>942</b>	<b>1769:55:21</b>	<b>99.62%</b>
I-395	886WB	Port Blvd WB before US-1	221	1058	1743:57:40	98.55%
	104	I-395 WB at Watson Island	348	1386	1849:07:04	94.84%
<b>I-395 Subtotal</b>			<b>569</b>	<b>2444</b>	<b>3593:04:44</b>	<b>96.70%</b>
<b>Limited Access Facilities Subtotal</b>			<b>6005</b>	<b>26349</b>	<b>48328:37:54</b>	<b>96.82%</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	174	753	899:49:07	99.04%
	113	Ives Dairy Rd WB before I-95	133	618	768:04:17	97.88%
	110	Miami Gardens Dr EB before I-95	198	977	1398:17:03	99.94%
	111	Miami Gardens Dr WB before I-95	193	925	1382:08:37	98.02%
	112*	NW 103 St EB before I-95	0	0	0:00:00	N/A*
	106	NW 79 St EB before I-95	186	724	830:57:12	98.45%
	107	NW 54 St EB before I-95	201	815	860:06:35	98.06%
	108	SW 8 St EB before I-95	175	978	1020:53:03	99.87%
<b>I-95 Arterial Subtotal</b>			<b>1260</b>	<b>5790</b>	<b>7160:15:54</b>	<b>98.75%</b>
Golden Glades Interchange	6	SR 826 WB west of NE 2nd Ave	378	1511	2224:42:05	99.96%
	7	Turnpike SB to Golden Glades	338	1406	2145:54:10	99.94%
	9	US-441 NB at TRI-Rail	113	655	1321:50:28	99.93%
	10	SR 9 NB before Park & Ride	112	656	1321:45:46	99.93%
	8	US-441 SB at NW 179 St	269	1066	1830:02:48	100.00%
<b>Golden Glades Interchange Subtotal</b>			<b>1210</b>	<b>5294</b>	<b>8844:15:17</b>	<b>99.95%</b>
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	134	487	1218:05:21	100.00%
	SW24WB	SW 24 St WB before SR 826	134	487	1218:05:20	100.00%
	SW40EB	SW 40 St EB before SR 826	112	462	1203:00:53	100.00%
	SW40WB	SW 40 St WB before SR 826	111	455	1201:47:36	100.00%
	SW56EB	SW 56 St EB before SR 826	93	423	1183:25:35	100.00%
	SW56WB	SW 56 St WB before SR 826	93	423	1183:25:37	97.59%
	SW72EB	SW 72 St EB before SR 826	81	401	1173:19:04	100.00%
	SW72WB	SW 72 St WB before SR 826	82	402	1173:25:57	100.00%
	WFLAGLEREB**	W Flagler ST EB before SR 826	132	482	1181:10:05	99.67%
	WFLAGLERWB**	W Flagler ST WB before SR 826	132	482	1193:34:17	43.13%
	NW25EB**	NW 25 ST EB before SR 826	178	631	1241:31:53	100.00%
	NW25WB**	NW 25 ST WB before SR 826	176	626	1239:55:15	100.00%
	NW36EB**	NW 36 ST EB before SR 826	178	648	1154:14:45	100.00%
	NW36WB**	NW 36 ST WB before SR 826	178	648	1165:22:21	1.21%
	SW8EB**	SW 8 ST EB before SR 826	137	509	1213:37:17	99.96%
	SW8WB**	SW 8 ST WB before SR 826	140	515	1236:05:22	99.68%
SW88EB**	Kendall DR EB before SR 826	59	304	1000:02:50	91.69%	
SW88WB**	Kendall DR WB before SR 826	59	311	1038:04:47	93.77%	
<b>SR 826 Arterial Subtotal</b>			<b>2209</b>	<b>8696</b>	<b>21218:14:15</b>	<b>90.37%</b>
I-195 Arterial	38	Alton Rd SB before I-195	96	479	933:44:51	99.95%
	39	Arthur Godfrey WB before I-195	94	475	933:21:14	100.00%
	40	Alton Rd NB before I-195	96	479	933:44:52	100.00%
<b>I-195 Arterial Subtotal</b>			<b>286</b>	<b>1433</b>	<b>2800:50:57</b>	<b>99.98%</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	313	1302	1973:46:38	100.00%
	45	US-1 SB before SW 80 St	47	247	862:42:08	100.00%
	47	US-1 SB at Florida's Turnpike	33	225	846:56:50	100.00%
	46	US-1 NB before Killian Dr	67	323	910:21:06	100.00%
	48	US-1 NB at Florida's Turnpike	40	266	861:35:43	100.00%
<b>US-1 in Miami-Dade County Subtotal</b>			<b>500</b>	<b>2363</b>	<b>5455:22:25</b>	<b>100.00%</b>
US-1 South of Florida City	62	US-1 NB at Mile Marker 126	19	137	502:28:10	60.85%
	64	US-1 NB at Mile Marker 106	39	275	700:04:03	74.13%
	66	US-1 NB at Mile Marker 91.5	54	308	885:24:51	91.95%
	68	US-1 NB at Mile Marker 39.5	58	362	982:40:34	99.92%
	71	US-1 NB at Mile Marker 7.5	55	411	1695:00:32	99.72%
	61	US-1 SB at Mile Marker 126	63	422	1712:41:42	99.89%
	63	US-1 SB at Mile Marker 113	36	235	766:36:21	93.04%
	65	US-1 SB at Mile Marker 106	25	207	616:36:33	74.06%
	67	US-1 SB at Mile Marker 91.5	35	206	775:52:21	91.86%
	69	US-1 SB at Mile Marker 39.5	32	216	845:36:15	93.74%
70	US-1 SB at Mile Marker 7.5	25	211	825:49:12	99.76%	
<b>US-1 South of Florida City Subtotal</b>			<b>441</b>	<b>2990</b>	<b>10308:50:34</b>	<b>88.99%</b>
<b>Arterials Subtotal</b>			<b>5906</b>	<b>26566</b>	<b>55787:49:22</b>	<b>96.60%</b>
<b>Limited Access Facilities Subtotal</b>			<b>6005</b>	<b>26349</b>	<b>48328:37:54</b>	<b>96.82%</b>
<b>Grand Total</b>			<b>11911</b>	<b>52915</b>	<b>104116:27:16</b>	<b>95.02%</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 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			564	212	425	172	84	82	153	174	616	162	280	551
Safety Messaging			2220	1317	1643	527	316	338	1003	938	2790	477	815	1676
District 6	Miami-Dade	I-95	3807	822	791	11	319	1006	3562	2051	16	644	492	0
	Miami-Dade	Express Lanes	1693	1321	417	0	0	451	12	1099	0	0	472	0
	Miami-Dade	I-195	318	6	30	0	137	111	258	36	72	132	45	0
	Miami-Dade	I-395	43	9	0	0	0	71	25	0	0	0	10	0
	Miami-Dade	MacArthur Causeway	81	28	0	0	1	32	33	0	0	3	21	0
	Miami-Dade	SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-826	306	208	2648	1161	0	2	313	655	4778	0	60	0
	Miami-Dade	I-75	4	4	95	430	2	1	0	1	12	0	3	4
	Miami-Dade	US-1	46	0	0	0	0	5	18	0	24	0	113	1
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	357
	Monroe	Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	363
	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	8	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	32	32	44	8	15	8	0	8	0	0	24	38
	Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0
MDX	Miami-Dade	SR-836	307	0	184	0	9	289	20	0	90	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	153	60	0	0	59	48	80	0	0	15	0	0
	Miami-Dade	SR-874	0	0	25	0	0	0	0	0	292	0	16	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	6	0	4	0
	Miami-Dade	SR-924	0	0	32	32	0	0	0	0	0	0	0	0
District 4	Broward	I-95	138	129	70	0	0	0	292	268	0	0	0	0
	Broward	Express Lanes	94	49	51	0	0	0	0	56	0	0	0	0
	Broward	I-75	0	0	64	52	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	0	0	0	0	0	0	0	0	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	32	16	0	0	0	0	21	0	0	0	8	0
Subtotal of On Route			3807	1321	2648	430	137	71	3562	2051	4778	132	113	357
Subtotal of Off Route			6031	2892	3871	1963	805	2373	2228	3243	3918	1301	2250	2633
Total District 6			9114	3959	6093	2309	874	2107	5377	4970	8308	1418	2335	2990
Other Agencies			724	254	426	84	68	337	413	324	388	15	28	0
Total			9838	4213	6519	2393	942	2444	5790	5294	8696	1433	2363	2990

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

