

## DMS Usage Report – April 2015

### Summary of Monthly Operations

In the month of April, there were 33,756 messages posted with 9,834 DMS activations for 1,395 events. The DMS efficiency was 99.71% (1,391 of the 1,395 signable events had DMS messages posted). There was an average of 7.05 DMSs activated per each signable event and an average of 3.43 DMS messages were posted per each DMS activation. This resulted in an average of 24.20 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

- $\frac{9834 \text{ DMS Activations}}{1395 \text{ Events}} = \underline{7.05} \text{ Average DMS Activations per Event}$

*An average of 7.05 DMSs were activated per each signable event*

- $\frac{33756 \text{ DMS Messages}}{9834 \text{ DMS Activations}} = \underline{3.43} \text{ Average DMS Messages per Activation}$

*An average of 3.43 DMS messages were posted per each DMS activation*

- $7.05 \frac{\text{DMS Activations}}{\text{Events}} \times 3.43 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{24.20^*} \text{ DMS Messages per Event}$

*An average of 24.20\* 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	92
FDOT District 4	1818
Florida's Turnpike Enterprise	19
Miami-Dade Expressway Authority	2777
<b>Total</b>	<b>4706</b>

**Table 2 DMS Usage by Event Type**

Event Type Message	Number of Messages
FDOT District 6 Incidents	18002
Other Districts' Incidents	2277
Construction	12294
Safety	0
Vehicle Alert	1183
<b>Total</b>	<b>33756</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	218	808	1879:28:13	99.65%
	22	I-95 NB south of NW 62 St	166	620	1194:31:13	99.18%
	75	I-95 NB before SR 112	361	1099	1459:24:08	99.65%
	77	I-95 NB beyond SW 8 St	363	1120	1427:19:16	99.65%
	2****	I-95 SB north of Ives Dairy Rd	275	872	1377:30:09	N/A****
	3****	I-95 SB north of Miami Gardens Dr	333	1079	1578:55:28	N/A****
	20	I-95 SB south of NW 119 St	121	524	1290:10:17	99.65%
	21	I-95 SB south of NW 62 St	164	562	1001:55:13	99.65%
	74	I-95 SB beyond of SR 112	135	423	925:43:16	99.65%
76	I-95 SB before Rickenbacker Cswy	36	181	770:45:57	99.65%	
<b>I-95 Mainline Subtotal</b>			<b>2172</b>	<b>7288</b>	<b>12905:43:10</b>	<b>99.59%</b>
I-95 Express	95X40	95X NB at NW 62nd St	145	385	872:41:06	98.66%
	95X45	95X NB at NW 125th St	173	571	1053:46:07	98.43%
	95XSB45	95X SB at NW 62nd St	144	482	918:23:27	99.51%
	95XSB50	95X SB at NW 125th St	109	352	765:58:19	94.69%
<b>I-95 Express Subtotal</b>			<b>571</b>	<b>1790</b>	<b>3610:48:59</b>	<b>97.82%</b>
SR 826	14	SR 826 NB beyond NW 122 St	77	291	876:08:28	99.65%
	4	SR 826 EB east of NW 67 Ave	94	337	889:29:26	99.65%
	5	SR 826 EB east of NW 37 Ave	306	929	1537:31:39	98.68%
	15*	SR 826 WB beyond NW 17 Ave	0	0	0:00:00	N/A*
	17	SR 826 WB beyond NW 47 Ave	120	460	1060:58:00	99.65%
	19	SR 826 WB beyond NW 67 Ave	128	497	1060:31:21	99.45%
	826NB58	SR 826 NB before NW 58 St	75	306	898:25:46	99.65%
	826SB58	SR 826 SB before NW 58 St	110	404	958:58:31	99.65%
	826SB103	SR 826 SB before NW 103 St	89	349	977:08:19	99.65%
	826NB1.3-LL	SR 826 NB before SW 72 St	73	238	850:40:56	99.65%
	826NB4.8-LL**	SR 826 NB at SW 24 St	133	344	923:12:41	N/A**
826SB8.8-LL**	SR 826 SB at NW 36 St	142	466	990:13:52	N/A**	
<b>SR 826 Subtotal</b>			<b>1347</b>	<b>4621</b>	<b>11023:18:59</b>	<b>99.52%</b>
I-75	43	I-75 NB before Miami Gardens Dr	0	0	0:00:00	N/A*
	44	I-75 SB before Miami Gardens Dr	0	0	0:00:00	N/A*
	42	I-75 SB ramp from NW 138 St	0	0	0:00:00	N/A*
<b>I-75 Subtotal</b>			<b>0</b>	<b>0</b>	<b>0:00:00</b>	<b>N/A</b>
I-195 Mainline	57	I-195 EB before North Miami Ave	38	177	780:35:05	99.65%
	105	I-195 WB before Alton Rd	155	568	1101:10:15	99.36%
<b>I-195 Mainline Subtotal</b>			<b>193</b>	<b>745</b>	<b>1881:45:20</b>	<b>99.51%</b>
I-395	886WB	Port Blvd WB before US-1	206	764	1253:29:12	99.43%
	104	I-395 WB at Watson Island	286	830	1128:05:38	90.60%
<b>I-395 Subtotal</b>			<b>492</b>	<b>1594</b>	<b>2381:34:50</b>	<b>95.02%</b>
<b>Limited Access Facilities Subtotal</b>			<b>4775</b>	<b>16038</b>	<b>31803:11:18</b>	<b>98.91%</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	163	596	565:58:36	N/A****
	113****	Ives Dairy Rd WB before I-95	160	582	557:55:33	N/A****
	110****	Miami Gardens Dr EB before I-95	10	27	38:05:46	N/A****
	111****	Miami Gardens Dr WB before I-95	235	865	874:28:54	N/A****
	112	NW 103 St EB before I-95	237	861	835:24:29	99.65%
	106	NW 79 St EB before I-95	212	807	776:13:26	99.65%
	107	NW 54 St EB before I-95	251	878	861:25:51	99.65%
	108	SW 8 St EB before I-95	164	609	632:05:47	98.25%
<b>I-95 Arterial Subtotal</b>			<b>1432</b>	<b>5225</b>	<b>5141:38:22</b>	<b>99.30%</b>
Golden Glades Interchange	6****	SR 826 WB west of NE 2nd Ave	374	1251	1741:22:59	N/A****
	7	Turnpike SB to Golden Glades	367	1214	1742:25:05	99.60%
	9	US-441 NB at TRI-Rail	159	634	1077:55:38	99.65%
	10	SR 9 NB before Park & Ride	241	904	1270:44:43	99.65%
	8	US-441 SB at NW 179 St	352	1185	1621:49:18	96.32%
<b>Golden Glades Interchange Subtotal</b>			<b>1493</b>	<b>5188</b>	<b>7454:17:43</b>	<b>98.81%</b>
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	148	382	901:06:58	99.65%
	SW24WB	SW 24 St WB before SR 826	148	385	921:42:01	99.65%
	SW40EB	SW 40 St EB before SR 826	116	317	891:10:49	99.65%
	SW40WB	SW 40 St WB before SR 826	115	316	891:02:52	99.65%
	SW56EB	SW 56 St EB before SR 826	93	277	853:32:13	99.65%
	SW56WB	SW 56 St WB before SR 826	93	278	853:32:15	99.65%
	SW72EB	SW 72 St EB before SR 826	74	259	841:32:13	99.65%
	SW72WB	SW 72 St WB before SR 826	81	266	844:30:42	99.65%
	WFLAGLEREB	W Flagler ST EB before SR 826	140	414	943:02:35	N/A**
WFLAGLERWB	W Flagler ST WB before SR 826	145	433	1124:25:01	N/A**	
<b>SR 826 Arterial Subtotal</b>			<b>1153</b>	<b>3327</b>	<b>9065:37:39</b>	<b>99.65%</b>
I-195 Arterial	38	Alton Rd SB before I-195	108	469	958:34:11	99.47%
	39	Arthur Godfrey WB before I-195	105	464	950:05:28	99.41%
	40	Alton Rd NB before I-195	106	467	958:11:19	99.27%
<b>I-195 Arterial Subtotal</b>			<b>319</b>	<b>1400</b>	<b>2866:50:58</b>	<b>99.38%</b>
US-1 in Miami-Dade County	23	US-1 NB beyond SW 17 Ave	120	533	1138:51:40	99.65%
	45	US-1 SB before SW 80 St	41	160	810:12:17	98.90%
	47	US-1 SB at Florida's Turnpike	30	118	766:57:19	96.19%
	46	US-1 NB before Killian Dr	52	219	827:09:41	99.20%
	48	US-1 NB at Florida's Turnpike	32	128	814:14:15	99.20%
<b>US-1 in Miami-Dade County Subtotal</b>			<b>275</b>	<b>1158</b>	<b>4357:25:12</b>	<b>98.63%</b>

**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	23	105	630:52:19	92.06%
	64	US-1 NB at Mile Marker 106	22	70	375:08:15	76.63%
	66	US-1 NB at Mile Marker 91.5	26	102	649:53:29	90.80%
	68	US-1 NB at Mile Marker 39.5	39	123	729:47:00	85.72%
	71	US-1 NB at Mile Marker 7.5	44	206	1335:35:39	97.10%
	61	US-1 SB at Mile Marker 126	49	208	1144:45:37	92.12%
	63	US-1 SB at Mile Marker 113	44	128	494:53:57	78.33%
	65	US-1 SB at Mile Marker 106	43	123	520:54:25	78.46%
	67	US-1 SB at Mile Marker 91.5	46	153	795:17:15	91.09%
	69	US-1 SB at Mile Marker 39.5	29	96	590:26:17	84.37%
	70	US-1 SB at Mile Marker 7.5	22	106	712:17:57	97.05%
<b>US-1 South of Florida City Subtotal</b>			<b>387</b>	<b>1420</b>	<b>7979:52:10</b>	<b>87.61%</b>
<b>Arterials Subtotal</b>			<b>5059</b>	<b>17718</b>	<b>36865:42:04</b>	<b>95.56%</b>
<b>Limited Access Facilities Subtotal</b>			<b>4775</b>	<b>16038</b>	<b>31803:11:18</b>	<b>98.91%</b>
<b>Grand Total</b>			<b>9834</b>	<b>33756</b>	<b>68668:53:22</b>	<b>96.96%</b>

\*DMS 15, 42, 43, and 44 are undergoing testing for Capital Improvement and is used periodically. Messages posted on these DMS are not computed and system availability is not measured for these devices.

\*\*Four 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										US-1 in Miami-Dade County	US-1 South of Florida City
			I-95 Mainline	95 Express	SR 826	I-75	I-195	I-395	I-95 Arterial	GGI	SR 826 Arterial	I-195 Arterial		
Vehicle Alert			239	69	209	0	35	34	0	71	119	69	114	224
Safety Messaging			0	0	0	0	0	0	0	0	0	0	0	0
District 6	Miami-Dade	I-95	3,483	361	623	0	319	647	3,102	2,125	8	753	303	0
	Miami-Dade	Express Lanes	1,087	423	203	0	4	270	7	631	0	12	4	3
	Miami-Dade	I-195	206	0	0	0	82	42	201	0	0	152	30	0
	Miami-Dade	I-395	142	67	0	0	0	147	138	0	0	0	37	0
	Miami-Dade	MacArthur Causeway	49	15	0	0	5	16	4	0	0	1	15	0
	Miami-Dade	SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-826	334	138	1,898	0	0	0	433	1,190	1,678	0	61	0
	Miami-Dade	I-75	0	0	154	0	0	0	0	26	26	0	0	0
	Miami-Dade	US-1	10	0	9	0	0	2	5	0	164	0	74	5
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0		336
	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
	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	906	359	957	0	183	160	302	416	813	239	429	843
Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0	
MDX	Miami-Dade	SR-836	342	81	218	0	46	184	233	1	431	111	41	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	281	108	0	0	70	89	238	0	0	60	13	0
	Miami-Dade	SR-874	0	0	10	0	0	0	0	0	88	0	17	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	4	0
	Miami-Dade	SR-924	0	0	111	0	0	0	0	0	0	0	0	0
District 4	Broward	I-95	155	143	181	0	1	2	561	724	0	3	0	0
	Broward	I-75	0	0	48		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	2	0	0	0	0	1	4	0	0	3	9	
	Miami-Dade	Floridas Turnpike Spur	0	0	0	0	0	0	0	0	0	0	0	
	Broward	Floridas Turnpike	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	
	Martin	Floridas Turnpike	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	
Port	Miami-Dade	Port Miami Tunnel	52	26	0	0	0	1	0	0	0	13	0	
Subtotal of On Route			3,483	423	1,898	0	82	147	3,102	2,125	1,678	152	74	336
Subtotal of Off Route			3,805	1,367	2,723	0	663	1,447	2,123	3,063	1,649	1,248	1,084	1,084
Total District 6			6,456	1,432	4,053	0	628	1,318	4,192	4,459	2,808	1,226	1,067	1,411
Other Agencies			832	358	568	0	117	276	1,033	729	519	174	91	9
Total			7,288	1,790	4,621	0	745	1,594	5,225	5,188	3,327	1,400	1,158	1,420

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

