

DMS Usage Report – May 2016

Summary of Monthly Operations

In the month of May, there were 32,709 messages posted with 10,386 DMS activations for 1,652 events. The DMS efficiency was 99.88% (1,650 of the 1,652 signable events had DMS messages posted). There was an average of 6.29 DMSs activated per each signable event and an average of 3.15 DMS messages were posted per each DMS activation. This resulted in an average of 19.80 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

- $$\frac{10386 \text{ DMS Activations}}{1652 \text{ Events}} = \underline{6.29} \text{ Average DMS Activations per Event}$$

An average of 6.29 DMSs were activated per each signable event

- $$\frac{32709 \text{ DMS Messages}}{10386 \text{ DMS Activations}} = \underline{3.15} \text{ Average DMS Messages per Activation}$$

An average of 3.15 DMS messages were posted per each DMS activation

- $$6.29 \frac{\text{DMS Activations}}{\text{Events}} \times 3.15 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{19.80^*} \text{ DMS Messages per Event}$$

An average of 19.80 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	109
FDOT District 4	1311
Florida's Turnpike Enterprise	45
Miami-Dade Expressway Authority	2073
Total	3538

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	21790
Other Districts' Incidents	2457
Construction	4205
Safety	3224
Vehicle Alert	1033
Total	32709



Florida Department of Transportation
SunGuide Transportation Management Center – District VI

1001 NW 111 Avenue • Miami, Florida 33172
 Phone: 305.470.5757 • Fax: 305.470.5832



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	226	688	1819:28:37	100.00%
	22	I-95 NB south of NW 62 St	144	455	922:35:47	100.00%
	75	I-95 NB before SR 112	323	787	1089:37:20	99.96%
	77	I-95 NB beyond SW 8 St	389	885	1329:53:40	99.88%
	2***	I-95 SB north of Ives Dairy Rd	256	711	1222:38:17	N/A***
	3***	I-95 SB north of Miami Gardens Dr	0	0	0:00:00	N/A***
	095NB013.5LL***	I-95 NB north of NW 173 St	120	374	946:15:17	N/A***
	20	I-95 SB south of NW 119 St	116	401	960:53:51	100.00%
	21	I-95 SB south of NW 62 St	160	476	1073:45:35	100.00%
	74	I-95 SB beyond of SR 112	170	475	1176:27:28	100.00%
76	I-95 SB before Rickenbacker Cswy	30	217	853:35:16	100.00%	
I-95 Mainline Subtotal			1934	5469	11395:11:08	99.98%
I-95 Express	95X40	95X NB at NW 62nd St	192	455	873:22:50	94.33%
	95X45	95X NB at NW 125th St	242	593	1164:29:30	100.00%
	95XSB45	95X SB at NW 62nd St	123	392	949:48:31	99.08%
	95XSB50	95X SB at NW 125th St	108	349	852:51:52	100.00%
	095SB014.6-EL***	95X SB at Miami Gardens Dr	1	1	2:13:46	N/A***
	095NB014.8-EL***	95X SB north of Miami Gardens Dr	99	337	933:45:51	N/A***
I-95 Express Subtotal			765	2127	4776:32:20	98.35%
SR 826	14	SR 826 NB beyond NW 122 St	118	490	974:57:19	98.00%
	4	SR 826 EB east of NW 67 Ave	113	441	993:30:01	99.92%
	5	SR 826 EB east of NW 37 Ave	354	833	1168:39:02	100.00%
	15*	SR 826 WB beyond NW 17 Ave	0	0	0:00:00	N/A*
	17	SR 826 WB beyond NW 47 Ave	95	415	983:10:55	100.00%
	19	SR 826 WB beyond NW 67 Ave	131	520	1036:26:48	98.22%
	826NB58	SR 826 NB before NW 58 St	98	392	928:56:04	98.78%
	826SB58	SR 826 SB before NW 58 St	131	445	1295:16:31	98.78%
	826SB103****	SR 826 SB before NW 103 St	117	453	1230:39:50	N/A****
	826NB1.3-LL	SR 826 NB before SW 72 St	111	376	1238:37:45	100.00%
	826NB4.8-LL**	SR 826 NB at SW 24 St	141	391	892:43:38	N/A**
826SB8.8-LL**	SR 826 SB at NW 36 St	212	640	1496:00:47	N/A**	
SR 826 Subtotal			1621	5396	12238:58:40	99.21%
I-75	43	I-75 NB before Miami Gardens Dr	37	314	1549:59:27	99.90%
	44	I-75 SB before Miami Gardens Dr	165	666	1448:15:09	98.68%
	42	I-75 SB ramp from NW 138 St	181	740	1531:07:45	99.39%
I-75 Subtotal			383	1720	4529:22:21	99.32%
I-195 Mainline	57	I-195 EB before North Miami Ave	38	225	891:04:11	100.00%
	105	I-195 WB before Alton Rd	125	457	903:29:53	100.00%
I-195 Mainline Subtotal			163	682	1794:34:04	100.00%
I-395	886WB	Port Blvd WB before US-1	210	611	1148:57:49	98.76%
	104	I-395 WB at Watson Island	344	809	1179:05:08	96.82%
I-395 Subtotal			554	1420	2328:02:57	97.79%
Limited Access Facilities Subtotal			5420	16814	37062:41:30	99.28%

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	204	494	547:47:38	N/A***
	113***	Ives Dairy Rd WB before I-95	47	91	55:57:06	N/A***
	110***	Miami Gardens Dr EB before I-95	210	517	532:33:36	N/A***
	111***	Miami Gardens Dr WB before I-95	219	545	575:56:15	N/A***
	112	NW 103 St EB before I-95	67	158	56:12:42	32.71%
	106	NW 79 St EB before I-95	194	426	200:00:53	99.87%
	107	NW 54 St EB before I-95	228	468	248:38:26	99.74%
	108	SW 8 St EB before I-95	156	339	283:53:16	99.06%
I-95 Arterial Subtotal			1325	3038	2500:59:52	82.85%
Golden Glades Interchange	6***	SR 826 WB west of NE 2nd Ave	301	722	1027:16:47	N/A***
	7	Turnpike SB to Golden Glades	323	810	1153:38:04	100.00%
	9	US-441 NB at TRI-Rail	118	404	981:55:42	100.00%
	10	SR 9 NB before Park & Ride	116	403	981:30:14	100.00%
	8	US-441 SB at NW 179 St	236	640	1029:48:57	100.00%
Golden Glades Interchange Subtotal			1094	2979	5174:09:44	100.00%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	257	736	1560:54:27	100.00%
	SW24WB	SW 24 St WB before SR 826	257	736	1560:54:28	100.00%
	SW40EB	SW 40 St EB before SR 826	181	574	1443:55:04	100.00%
	SW40WB	SW 40 St WB before SR 826	183	586	1445:33:01	100.00%
	SW56EB	SW 56 St EB before SR 826	150	519	1352:33:44	100.00%
	SW56WB	SW 56 St WB before SR 826	150	519	1352:33:43	100.00%
	SW72EB	SW 72 St EB before SR 826	139	500	1339:03:50	100.00%
	SW72WB	SW 72 St WB before SR 826	139	500	1339:03:56	99.94%
	WFLAGLEREB**	W Flagler ST EB before SR 826	0	0	0:00:00	N/A**
	WFLAGLERWB**	W Flagler ST WB before SR 826	0	0	0:00:00	N/A**
SR 826 Arterial Subtotal			1456	4670	11394:32:13	99.99%
I-195 Arterial	38	Alton Rd SB before I-195	89	257	371:39:41	96.98%
	39	Arthur Godfrey WB before I-195	89	261	371:34:38	99.67%
	40	Alton Rd NB before I-195	90	258	379:09:39	96.52%
I-195 Arterial Subtotal			268	776	1122:23:58	97.72%
US-1 in Miami-Dade County	23	US-1 NB beyond SW 17 Ave	275	630	1162:09:26	99.96%
	45	US-1 SB before SW 80 St	39	218	858:51:43	99.18%
	47	US-1 SB at Florida's Turnpike	27	196	854:05:21	100.00%
	46	US-1 NB before Killian Dr	99	332	1154:39:22	100.00%
	48	US-1 NB at Florida's Turnpike	38	235	878:54:21	100.00%
US-1 in Miami-Dade County Subtotal			478	1611	4908:40:13	99.83%

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	28	200	854:32:54	99.96%
	64	US-1 NB at Mile Marker 106	29	232	878:59:15	99.92%
	66	US-1 NB at Mile Marker 91.5	32	244	875:20:32	99.74%
	68	US-1 NB at Mile Marker 39.5	34	283	887:38:36	98.57%
	71	US-1 NB at Mile Marker 7.5	33	373	1551:45:16	99.90%
	61	US-1 SB at Mile Marker 126	39	360	1562:27:21	99.96%
	63	US-1 SB at Mile Marker 113	35	264	879:02:33	99.92%
	65	US-1 SB at Mile Marker 106	32	247	876:17:17	99.92%
	67	US-1 SB at Mile Marker 91.5	32	219	868:28:47	99.84%
	69	US-1 SB at Mile Marker 39.5	28	201	866:55:25	98.72%
	70	US-1 SB at Mile Marker 7.5	23	198	846:31:20	99.96%
US-1 South of Florida City Subtotal			345	2821	10947:59:16	99.67%
Arterials Subtotal			4966	15895	36048:45:16	97.72%
Limited Access Facilities Subtotal			5420	16814	37062:41:30	99.28%
Grand Total			10386	32709	73111:26:46	98.40%

*DMS 15 was undergoing testing for Capital Improvement and was used periodically. Messages posted on this DMS are not computed and system availability is not measured for this device.

**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, 113, FLD6DOT095NB013.5-LL, FLD6DOT095SB014.6-EL, and FLD6DOT095NB014.8-EL are operational and are under the Express Lanes Phase 2 Contractor; thus, system availability is not measured for these devices.

****DMS 826SBNW103ST01 is under the SR-826/I-75 Express Lanes Contractor and is undergoing testing for Capital Improvement; thus, system availability is not measured for this device.



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			192	48	138	70	24	22	63	33	24	61	113	245
Safety Messaging			479	240	512	140	98	96	135	239	392	114	245	534
District 6	Miami-Dade	I-95	1,602	226	341	3	190	390	1,875	866	0	339	78	0
	Miami-Dade	Express Lanes	859	564	211	0	1	248	4	536	0	0	263	0
	Miami-Dade	I-195	81	0	0	0	72	20	74	0	0	136	4	0
	Miami-Dade	I-395	38	9	0	0	0	96	22	0	0	0	11	0
	Miami-Dade	MacArthur Causeway	86	27	0	0	1	28	6	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	111	64	2,278	824	0	6	177	357	2,818	0	117	0
	Miami-Dade	I-75	0	0	66	166	0	0	0	0	0	0	0	0
	Miami-Dade	US-1	6	0	0	0	0	0	5	0	6	0	72	4
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	503
	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	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	1,294	598	1,281	453	252	240	94	580	968	90	618	1,531	
Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	4	
MDX	Miami-Dade	SR-836	365	57	358	1	17	267	196	0	428	13	44	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	71	29	0	0	26	6	48	0	0	17	1	0
	Miami-Dade	SR-874	0	0	5	0	0	0	0	0	34	0	3	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-924	0	0	43	44	0	0	0	0	0	0	0	0
District 4	Broward	I-95	160	162	86	0	0	0	306	315	0	0	0	0
	Broward	Express Lanes	76	77	37	0	1	1	0	32	0	3	1	0
	Broward	I-75	0	0	35	19	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	6	0	0	9	0	
	Miami-Dade	Floridas Turnpike Spur	0	0	0	0	0	0	0	0	0	0	0	
	Broward	Floridas Turnpike	5	5	5	0	0	0	15	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	44	21	0	0	0	33	0	0	0	11	0	
Subtotal of On Route			1,602	564	2,278	166	72	96	1,875	866	2,818	136	72	503
Subtotal of Off Route			3,867	1,563	3,118	1,554	610	1,324	1,163	2,113	1,852	640	1,539	2,318
Total District 6			4,748	1,776	4,827	1,656	638	1,146	2,455	2,611	4,208	743	1,542	2,821
Other Agencies			721	351	569	64	44	274	583	368	462	33	69	0
Total			5,469	2,127	5,396	1,720	682	1,420	3,038	2,979	4,670	776	1,611	2,821

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

