

DMS Usage Report – June 2016

Summary of Monthly Operations

In the month of June, there were 32,138 messages posted with 10,282 DMS activations for 1,526 events. The DMS efficiency was 99.93% (1,525 of the 1,526 signable events had DMS messages posted). There was an average of 6.74 DMSs activated per each signable event and an average of 3.13 DMS messages were posted per each DMS activation. This resulted in an average of 21.06 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

- $\frac{10282 \text{ DMS Activations}}{1526 \text{ Events}} = \underline{6.74} \text{ Average DMS Activations per Event}$

An average of 6.74 DMSs were activated per each signable event

- $\frac{32138 \text{ DMS Messages}}{10282 \text{ DMS Activations}} = \underline{3.13} \text{ Average DMS Messages per Activation}$

An average of 3.13 DMS messages were posted per each DMS activation

- $6.74 \frac{\text{DMS Activations}}{\text{Events}} \times 3.13 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{21.06^*} \text{ DMS Messages per Event}$

An average of 21.06 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	110
FDOT District 4	889
Florida's Turnpike Enterprise	11
Miami-Dade Expressway Authority	1916
Total	2926

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	19955
Other Districts' Incidents	1405
Construction	5201
Safety	3426
Vehicle Alert	2151
Total	32138



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	208	669	1649:41:42	100.00%
	22	I-95 NB south of NW 62 St	132	440	811:43:03	100.00%
	75	I-95 NB before SR 112	276	691	921:22:33	100.00%
	77	I-95 NB beyond SW 8 St	342	807	1053:54:26	100.00%
	2***	I-95 SB north of Ives Dairy Rd	282	752	952:57:50	N/A***
	3***	I-95 SB north of Miami Gardens Dr	91	228	257:24:46	N/A***
	095NB013.5LL***	I-95 NB north of NW 173 St	95	321	755:39:43	N/A***
	20	I-95 SB south of NW 119 St	143	481	844:01:30	100.00%
	21	I-95 SB south of NW 62 St	142	437	854:37:18	99.98%
	74	I-95 SB beyond of SR 112	175	475	959:15:34	99.39%
76	I-95 SB before Rickenbacker Cswy	37	235	758:50:52	100.00%	
I-95 Mainline Subtotal			1923	5536	9819:29:17	99.92%
I-95 Express	95X40	95X NB at NW 62nd St	165	436	818:25:29	99.79%
	95X45	95X NB at NW 125th St	200	541	951:53:33	99.93%
	95XSB45	95X SB at NW 62nd St	124	371	794:00:25	100.00%
	95XSB50	95X SB at NW 125th St	140	399	766:25:54	99.67%
	095SB014.6-EL***	95X SB at Miami Gardens Dr	74	191	231:58:14	N/A***
	095NB014.8-EL***	95X SB north of Miami Gardens Dr	77	266	725:10:48	N/A***
I-95 Express Subtotal			780	2204	4287:54:23	99.85%
SR 826	14	SR 826 NB beyond NW 122 St	105	533	877:09:32	99.42%
	4	SR 826 EB east of NW 67 Ave	112	423	912:33:10	99.95%
	5	SR 826 EB east of NW 37 Ave	331	861	1022:16:15	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	129	499	1021:43:37	100.00%
	19	SR 826 WB beyond NW 67 Ave	153	566	1054:20:56	99.92%
	826NB58	SR 826 NB before NW 58 St	94	422	760:02:52	90.51%
	826SB58	SR 826 SB before NW 58 St	140	443	1381:31:48	90.51%
	826SB103****	SR 826 SB before NW 103 St	135	485	1432:52:52	N/A****
	826NB1.3-LL	SR 826 NB before SW 72 St	144	462	1234:29:28	99.91%
	826NB4.8-LL**	SR 826 NB at SW 24 St	219	576	1106:44:03	N/A**
826SB8.8-LL**	SR 826 SB at NW 36 St	233	608	1587:39:10	N/A**	
SR 826 Subtotal			1795	5878	12391:23:43	97.53%
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	178	675	1397:10:53	99.84%
I-75 Subtotal			178	675	1397:10:53	99.84%
I-195 Mainline	57	I-195 EB before North Miami Ave	47	256	774:50:32	100.00%
	105	I-195 WB before Alton Rd	142	459	780:51:33	100.00%
I-195 Mainline Subtotal			189	715	1555:42:05	100.00%
I-395	886WB	Port Blvd WB before US-1	197	547	843:33:33	99.35%
	104	I-395 WB at Watson Island	313	691	1001:26:49	96.19%
I-395 Subtotal			510	1238	1845:00:22	97.77%
Limited Access Facilities Subtotal			5375	16246	31296:40:43	98.97%

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	169	528	740:39:01	N/A***
	113***	Ives Dairy Rd WB before I-95	35	93	27:50:05	N/A***
	110***	Miami Gardens Dr EB before I-95	195	550	786:06:44	N/A***
	111***	Miami Gardens Dr WB before I-95	206	585	807:51:38	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	180	394	339:42:59	99.76%
	107	NW 54 St EB before I-95	202	445	346:13:04	99.72%
	108	SW 8 St EB before I-95	147	355	372:44:12	99.69%
I-95 Arterial Subtotal			1134	2950	3421:07:43	99.72%
Golden Glades Interchange	6***	SR 826 WB west of NE 2nd Ave	107	239	218:55:07	N/A***
	7	Turnpike SB to Golden Glades	312	827	1013:01:49	100.00%
	9	US-441 NB at TRI-Rail	94	359	809:57:19	100.00%
	10	SR 9 NB before Park & Ride	93	357	809:20:03	99.60%
	8	US-441 SB at NW 179 St	248	684	879:09:06	100.00%
Golden Glades Interchange Subtotal			854	2466	3730:23:24	99.90%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	282	780	1692:00:34	100.00%
	SW24WB	SW 24 St WB before SR 826	282	780	1692:00:25	100.00%
	SW40EB	SW 40 St EB before SR 826	208	635	1527:07:01	99.92%
	SW40WB	SW 40 St WB before SR 826	211	648	1534:47:36	100.00%
	SW56EB	SW 56 St EB before SR 826	180	556	1430:20:10	100.00%
	SW56WB	SW 56 St WB before SR 826	180	554	1430:05:57	100.00%
	SW72EB	SW 72 St EB before SR 826	155	499	1374:47:09	100.00%
	SW72WB	SW 72 St WB before SR 826	156	500	1380:40:31	100.00%
	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**
	NW25EB**	NW 25 ST EB before SR 826	7	25	10:17:58	N/A**
	NW25WB**	NW 25 ST WB before SR 826	7	25	10:17:57	N/A**
	NW36EB**	NW 36 ST EB before SR 826	4	18	2:38:22	N/A**
	NW36WB**	NW 36 ST WB before SR 826	0	0	0:00:00	N/A**
	SW8EB**	SW 8 ST EB before SR 826	0	0	0:00:00	N/A**
	SW8WB**	SW 8 ST WB before SR 826	1	1	0:03:03	N/A**
	SW88EB**	Kendall DR EB before SR 826	2	2	0:09:33	N/A**
SW88WB**	Kendall DR WB before SR 826	0	0	0:00:00	N/A**	
SR 826 Arterial Subtotal			1675	5023	12085:16:16	99.99%
I-195 Arterial	38	Alton Rd SB before I-195	101	333	652:38:27	99.95%
	39	Arthur Godfrey WB before I-195	101	333	653:04:35	100.00%
	40	Alton Rd NB before I-195	101	333	652:38:28	99.95%
I-195 Arterial Subtotal			303	999	1958:21:30	99.97%

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	252	606	958:26:22	100.00%
	45	US-1 SB before SW 80 St	45	262	778:53:10	98.51%
	47	US-1 SB at Florida's Turnpike	47	243	772:54:03	100.00%
	46	US-1 NB before Killian Dr	87	319	926:16:58	100.00%
	48	US-1 NB at Florida's Turnpike	45	238	776:53:39	100.00%
US-1 in Miami-Dade County Subtotal			476	1668	4213:24:12	99.70%
US-1 South of Florida City	62	US-1 NB at Mile Marker 126	43	225	764:57:47	99.87%
	64	US-1 NB at Mile Marker 106	35	218	707:25:52	95.14%
	66	US-1 NB at Mile Marker 91.5	49	239	726:53:49	96.09%
	68	US-1 NB at Mile Marker 39.5	39	230	628:20:03	86.75%
	71	US-1 NB at Mile Marker 7.5	43	336	1396:52:29	98.55%
	61	US-1 SB at Mile Marker 126	57	365	1438:53:57	100.00%
	63	US-1 SB at Mile Marker 113	51	259	723:52:47	95.52%
	65	US-1 SB at Mile Marker 106	39	248	704:28:29	94.80%
	67	US-1 SB at Mile Marker 91.5	48	259	759:38:29	99.10%
	69	US-1 SB at Mile Marker 39.5	32	200	615:38:02	86.61%
70	US-1 SB at Mile Marker 7.5	29	207	716:00:25	98.51%	
US-1 South of Florida City Subtotal			465	2786	9183:02:09	95.54%
Arterials Subtotal			4907	15892	34591:35:14	98.47%
Limited Access Facilities Subtotal			5375	16246	31296:40:43	98.97%
Grand Total			10282	32138	65888:15:57	98.68%

*DMS 15, 43, 44, 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; 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			421	122	294	49	54	52	132	74	112	120	231	490
Safety Messaging			602	276	619	61	124	113	112	210	366	111	308	524
District 6	Miami-Dade	I-95	1,563	263	261	0	224	343	1,643	614	0	449	129	0
	Miami-Dade	Express Lanes	787	524	250	0	1	181	0	460	0	0	195	0
	Miami-Dade	I-195	60	0	0	0	25	22	45	0	0	34	1	0
	Miami-Dade	I-395	53	11	0	0	6	52	31	0	0	0	9	0
	Miami-Dade	MacArthur Causeway	20	1	0	0	0	9	0	0	0	0	2	0
	Miami-Dade	SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-826	206	126	2,350	380	0	0	293	454	2,821	0	87	0
	Miami-Dade	I-75	0	0	35	68	0	0	0	0	0	0	0	0
	Miami-Dade	US-1	12	1	10	0	0	2	13	0	176	0	43	0
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	4	323
	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	1,304	652	1,247	111	258	233	395	480	920	279	616	1,444	
Monroe	OTHER	3	4	6	0	2	1	0	0	0	0	3	5	
MDX	Miami-Dade	SR-836	262	31	556	0	9	225	100	0	568	3	24	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	34	14	0	0	12	5	17	0	0	3	0	0
	Miami-Dade	SR-874	0	0	4	0	0	0	0	0	23	0	4	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	1	0
	Miami-Dade	SR-924	0	0	15	6	0	0	0	0	0	0	0	0
District 4	Broward	I-95	97	90	44	0	0	0	136	155	0	0	0	0
	Broward	Express Lanes	68	67	30	0	0	0	0	10	0	0	0	0
	Broward	I-75	0	0	155	0	0	0	0	0	37	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	2	0	0	0	9	0	0	0	0	0
	Miami-Dade	Floridas Turnpike Spur	0	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	0
	Palm Beach	Floridas Turnpike	0	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	0
	St. Lucie	Floridas Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
Port	Miami-Dade	Port Miami Tunnel	44	22	0	0	0	33	0	0	0	11	0	
Subtotal of On Route			1,563	524	2,350	68	25	52	1,643	614	2,821	34	43	323
Subtotal of Off Route			3,973	1,680	3,528	607	690	1,186	1,307	1,852	2,202	965	1,625	2,463
Total District 6			5,031	1,980	5,072	669	694	1,008	2,664	2,292	4,395	993	1,628	2,786
Other Agencies			505	224	806	6	21	230	286	174	628	6	40	0
Total			5,536	2,204	5,878	675	715	1,238	2,950	2,466	5,023	999	1,668	2,786

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

