

DMS Usage Report – March 2016

Summary of Monthly Operations

In the month of March, there were 43,187 messages posted with 11,171 DMS activations for 1,608 events. The DMS efficiency was 99.94% (1,607 of the 1,608 signable events had DMS messages posted). There was an average of 6.95 DMSs activated per each signable event and an average of 3.87 DMS messages were posted per each DMS activation. This resulted in an average of 26.86 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

- $$\frac{11171 \text{ DMS Activations}}{1608 \text{ Events}} = \underline{6.95} \text{ Average DMS Activations per Event}$$

An average of 6.95 DMSs were activated per each signable event

- $$\frac{43187 \text{ DMS Messages}}{11171 \text{ DMS Activations}} = \underline{3.87} \text{ Average DMS Messages per Activation}$$

An average of 3.87 DMS messages were posted per each DMS activation

- $$6.95 \frac{\text{DMS Activations}}{\text{Events}} \times 3.87 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{26.86^*} \text{ DMS Messages per Event}$$

An average of 26.86 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	119
FDOT District 4	1564
Florida's Turnpike Enterprise	25
Miami-Dade Expressway Authority	2152
Total	3860

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	26121
Other Districts' Incidents	2010
Construction	9254
Safety	4102
Vehicle Alert	1700
Total	43187



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	896	2004:44:31	100.00%
	22	I-95 NB south of NW 62 St	155	585	1125:58:56	99.96%
	75	I-95 NB before SR 112	278	784	1056:51:19	99.96%
	77	I-95 NB beyond SW 8 St	380	971	1351:15:37	99.96%
	2***	I-95 SB north of Ives Dairy Rd	10	13	11:33:12	N/A***
	3***	I-95 SB north of Miami Gardens Dr	108	360	382:22:53	N/A***
	095NB013.5LL***	I-95 NB north of NW 173 St	107	443	1163:28:46	N/A***
	20	I-95 SB south of NW 119 St	148	734	1097:51:07	99.96%
	21	I-95 SB south of NW 62 St	188	793	1255:06:27	99.96%
	74	I-95 SB beyond of SR 112	201	794	1375:05:05	99.96%
	76	I-95 SB before Rickenbacker Cswy	38	300	871:30:47	99.96%
I-95 Mainline Subtotal			1839	6673	11695:48:40	99.97%
I-95 Express	95X40	95X NB at NW 62nd St	165	517	1125:44:05	99.89%
	95X45	95X NB at NW 125th St	205	752	1353:17:26	99.83%
	95XSB45	95X SB at NW 62nd St	157	692	1167:51:14	99.54%
	95XSB50	95X SB at NW 125th St	134	640	1014:41:21	99.92%
	095SB014.6-EL***	95X SB at Miami Gardens Dr	238	701	987:25:51	N/A***
	095NB014.8-EL***	95X SB north of Miami Gardens Dr	79	371	1087:43:39	N/A***
I-95 Express Subtotal			978	3673	6736:43:36	99.80%
SR 826	14	SR 826 NB beyond NW 122 St	109	551	1005:35:52	96.24%
	4	SR 826 EB east of NW 67 Ave	118	531	972:57:58	99.96%
	5	SR 826 EB east of NW 37 Ave	327	970	1193:51:17	99.96%
	15*	SR 826 WB beyond NW 17 Ave	0	0	0:00:00	N/A*
	17	SR 826 WB beyond NW 47 Ave	132	627	1101:22:45	99.96%
	19	SR 826 WB beyond NW 67 Ave	157	771	1159:06:13	98.23%
	826NB58	SR 826 NB before NW 58 St	115	566	1020:00:59	97.27%
	826SB58	SR 826 SB before NW 58 St	123	491	1190:12:16	97.31%
	826SB103****	SR 826 SB before NW 103 St	104	510	1102:28:33	N/A****
	826NB1.3-LL	SR 826 NB before SW 72 St	141	574	1378:26:06	99.51%
	826NB4.8-LL**	SR 826 NB at SW 24 St	1	3	2:43:08	N/A**
826SB8.8-LL**	SR 826 SB at NW 36 St	159	512	947:37:42	N/A**	
SR 826 Subtotal			1486	6106	11074:22:49	98.56%
I-75	43	I-75 NB before Miami Gardens Dr	42	339	1404:50:15	87.05%
	44	I-75 SB before Miami Gardens Dr	141	613	1102:23:36	86.67%
	42	I-75 SB ramp from NW 138 St	181	847	1283:42:41	99.47%
I-75 Subtotal			364	1799	3790:56:32	91.06%
I-195 Mainline	57	I-195 EB before North Miami Ave	42	289	862:38:38	99.53%
	105	I-195 WB before Alton Rd	159	724	1110:26:28	100.00%
I-195 Mainline Subtotal			201	1013	1973:05:06	99.77%
I-395	886WB	Port Blvd WB before US-1	248	929	1335:38:14	99.96%
	104	I-395 WB at Watson Island	347	1079	1396:26:12	95.81%
I-395 Subtotal			595	2008	2732:04:26	97.89%
Limited Access Facilities Subtotal			5463	21272	38003:01:09	98.36%

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	212	723	881:56:06	N/A***
	113***	Ives Dairy Rd WB before I-95	0	0	0:00:00	N/A***
	110***	Miami Gardens Dr EB before I-95	212	705	902:04:04	N/A***
	111***	Miami Gardens Dr WB before I-95	236	793	963:34:05	N/A***
	112	NW 103 St EB before I-95	231	756	422:39:48	99.32%
	106	NW 79 St EB before I-95	240	749	465:24:12	99.78%
	107	NW 54 St EB before I-95	203	647	401:21:43	80.36%
	108	SW 8 St EB before I-95	172	430	301:55:32	99.83%
I-95 Arterial Subtotal			1506	4803	4338:55:30	94.82%
Golden Glades Interchange	6***	SR 826 WB west of NE 2nd Ave	311	970	1131:51:54	N/A***
	7	Turnpike SB to Golden Glades	355	1070	1311:46:06	99.96%
	9	US-441 NB at TRI-Rail	151	634	1129:44:12	99.92%
	10	SR 9 NB before Park & Ride	151	636	1129:57:08	100.00%
	8	US-441 SB at NW 179 St	257	877	1080:08:18	99.96%
Golden Glades Interchange Subtotal			1225	4187	5783:27:38	99.96%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	249	857	1783:37:18	99.50%
	SW24WB	SW 24 St WB before SR 826	245	835	1759:00:07	98.38%
	SW40EB	SW 40 St EB before SR 826	219	797	1739:32:46	99.52%
	SW40WB	SW 40 St WB before SR 826	218	782	1720:19:10	98.79%
	SW56EB	SW 56 St EB before SR 826	183	728	1674:02:05	99.51%
	SW56WB	SW 56 St WB before SR 826	182	714	1639:05:40	98.52%
	SW72EB	SW 72 St EB before SR 826	162	702	1621:30:54	99.47%
	SW72WB	SW 72 St WB before SR 826	161	695	1612:14:47	98.89%
	WFLAGLEREB**	W Flagler ST EB before SR 826	185	658	1203:41:50	N/A**
	WFLAGLERWB**	W Flagler ST WB before SR 826	0	0	0:00:00	N/A**
SR 826 Arterial Subtotal			1804	6768	14753:04:37	99.07%
I-195 Arterial	38	Alton Rd SB before I-195	114	353	370:40:22	99.20%
	39	Arthur Godfrey WB before I-195	105	331	361:20:15	93.77%
	40	Alton Rd NB before I-195	115	352	381:51:48	99.96%
I-195 Arterial Subtotal			334	1036	1113:52:25	97.64%
US-1 in Miami-Dade County	23	US-1 NB beyond SW 17 Ave	261	754	1166:07:48	99.96%
	45	US-1 SB before SW 80 St	39	282	868:21:32	99.80%
	47	US-1 SB at Florida's Turnpike	32	266	855:15:28	99.96%
	46	US-1 NB before Killian Dr	118	565	1205:06:41	99.96%
	48	US-1 NB at Florida's Turnpike	34	268	863:05:32	99.96%
US-1 in Miami-Dade County Subtotal			484	2135	4957:57:01	99.93%

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	33	266	844:41:28	99.18%
	64	US-1 NB at Mile Marker 106	27	193	610:13:51	79.83%
	66	US-1 NB at Mile Marker 91.5	31	257	851:26:49	99.64%
	68	US-1 NB at Mile Marker 39.5	32	256	812:48:47	94.95%
	71	US-1 NB at Mile Marker 7.5	35	347	1407:26:35	95.80%
	61	US-1 SB at Mile Marker 126	37	366	1459:32:30	99.15%
	63	US-1 SB at Mile Marker 113	35	250	785:04:06	93.56%
	65	US-1 SB at Mile Marker 106	33	274	817:32:29	96.79%
	67	US-1 SB at Mile Marker 91.5	35	274	857:07:38	99.74%
	69	US-1 SB at Mile Marker 39.5	29	247	794:14:57	94.99%
	70	US-1 SB at Mile Marker 7.5	28	256	845:09:11	99.65%
US-1 South of Florida City Subtotal			355	2986	10085:18:21	95.75%
Arterials Subtotal			5708	21915	41032:35:32	97.64%
Limited Access Facilities Subtotal			5463	21272	38003:01:09	98.36%
Grand Total			11171	43187	79035:36:41	97.96%

*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			279	126	240	90	45	46	87	90	150	71	152	324
Safety Messaging			609	379	615	166	126	124	144	295	530	93	330	691
District 6	Miami-Dade	I-95	2,235	860	337	4	418	762	2,730	961	0	500	140	0
	Miami-Dade	Express Lanes	587	726	269	0	3	186	4	682	0	0	198	0
	Miami-Dade	I-195	132	0	0	0	65	58	121	0	0	86	26	0
	Miami-Dade	I-395	81	34	0	0	12	158	59	0	0	12	18	0
	Miami-Dade	MacArthur Causeway	103	20	0	0	3	44	0	0	0	9	18	0
	Miami-Dade	SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-826	246	238	2,552	914	0	6	520	1,000	4,115	0	229	0
	Miami-Dade	I-75	3	4	122	92	2	1	0	1	0	0	3	4
	Miami-Dade	US-1	25	0	7	0	0	10	13	0	57	0	147	16
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	180
	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	1,612	961	1,445	445	297	293	448	738	1,344	204	799	1,771
Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0	
MDX	Miami-Dade	SR-836	433	71	230	0	19	315	221	0	537	31	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	57	24	0	0	23	5	32	0	0	30	0	0
	Miami-Dade	SR-874	0	0	6	0	0	0	0	0	35	0	7	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	1	0
	Miami-Dade	SR-924	0	0	16	18	0	0	0	0	0	0	0	0
District 4	Broward	I-95	220	203	127	0	0	0	385	415	0	0	0	0
	Broward	Express Lanes	2	2	1	0	0	0	0	1	0	0	0	0
	Broward	I-75	0	0	138	70	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	1	1	1	0	0	0	4	4	0	0	14	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	48	24	0	0	0	0	35	0	0	0	12	0
Subtotal of On Route			2,235	726	2,552	92	65	158	2,730	961	4,115	86	147	180
Subtotal of Off Route			4,438	2,947	3,554	1,707	948	1,850	2,073	3,226	2,653	950	1,988	2,806
Total District 6			5,912	3,348	5,587	1,711	971	1,688	4,126	3,767	6,196	975	2,060	2,986
Other Agencies			761	325	519	88	42	320	677	420	572	61	75	0
Total			6,673	3,673	6,106	1,799	1,013	2,008	4,803	4,187	6,768	1,036	2,135	2,986

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

