

DMS Usage Report –April 2017

Summary of Monthly Operations

In the month of April, there were 42,696 messages posted with 10,799 DMS activations for 1,541 events. The DMS efficiency was 99.81% (1,538 of the 1,541 signable events had DMS messages posted) for all roadways. There was an average of 7.01 DMSs activated per each signable event and an average of 3.95 DMS messages were posted per each DMS activation. This resulted in an average of 27.71 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

- $$\frac{10,799 \text{ DMS Activations}}{1,541 \text{ Events}} = \underline{7.01} \text{ Average DMS Activations per Event}$$

An average of 7.01 DMSs were activated per each signable event

- $$\frac{42,696 \text{ DMS Messages}}{10,799 \text{ DMS Activations}} = \underline{3.95} \text{ Average DMS Messages per Activation}$$

An average of 3.95 DMS messages were posted per each DMS activation

- $$7.01 \frac{\text{DMS Activations}}{\text{Events}} \times 3.95 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{27.71^*} \text{ DMS Messages per Event}$$

An average of 27.71 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	20
FDOT District 4	1390
Florida's Turnpike Enterprise	7
Miami-Dade Expressway Authority	1931
Total	3348

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	20185
Other Districts' Incidents	2376
Construction	7445
Safety	11646
Vehicle Alert	1044
Total	42696

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	198	796	2099:51:10	99.73%
	22	I-95 NB south of NW 62 St	133	649	1233:09:02	100.00%
	75	I-95 NB before SR 112	265	1072	1640:01:45	99.74%
	77	I-95 NB beyond SW 8 St	305	1183	1619:43:55	99.74%
	2	I-95 SB north of Ives Dairy Rd	284	1021	1815:47:11	99.73%
	3***	I-95 SB north of Miami Gardens Dr	324	1223	1861:07:31	99.73%
	095NB013.5LL***	I-95 NB north of NW 173 St	108	435	955:37:06	30.92%
	20	I-95 SB south of NW 119 St	137	567	1589:37:30	100.00%
	21	I-95 SB south of NW 62 St	122	570	946:06:47	100.00%
	74	I-95 SB beyond of SR 112	134	599	975:16:51	99.74%
I-95 Mainline Subtotal			2039	8316	15513:47:32	93.55%
I-95 Express	95X40	95X NB at NW 62nd St	155	609	1140:27:56	98.79%
	95X45	95X NB at NW 125th St	176	696	1325:01:29	99.45%
	95XSB45	95X SB at NW 62nd St	102	485	928:37:58	99.49%
	95XSB50	95X SB at NW 125th St	109	503	947:06:17	99.95%
	095SB014.6-EL***	95X SB at Miami Gardens Dr	307	1091	1947:38:50	99.16%
	095NB014.8-EL***	95X SB north of Miami Gardens Dr	88	436	1037:04:15	98.73%
I-95 Express Subtotal			937	3820	7325:56:45	99.26%
SR 826	4	SR 826 EB east of NW 67 Ave	120	497	1071:25:44	99.73%
	5	SR 826 EB east of NW 37 Ave	364	1307	2086:43:12	99.73%
	14****	SR 826 NB beyond NW 122 St	111	429	888:58:59	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	116	472	1246:32:51	100.00%
	19	SR 826 WB beyond NW 67 Ave	145	587	1370:52:44	100.00%
	826NB58	SR 826 NB before NW 58 St	131	470	1431:56:10	100.00%
	826SB103****	SR 826 SB before NW 103 St	67	257	744:44:08	N/A****
	826SB58	SR 826 SB before NW 58 St	83	347	1013:52:59	100.00%
	826NB1.3-LL	SR 826 NB before SW 72 St	81	289	1210:15:41	99.77%
	826NB4.8-LL**	SR 826 NB at SW 24 St	206	578	1551:52:09	100.00%
	826SB8.8-LL**	SR 826 SB at NW 36 St	161	458	1202:41:32	100.00%
SR 826 Subtotal			1585	5691	13819:56:09	99.91%
I-75	43	I-75 NB before Miami Gardens Dr	39	254	1637:22:05	99.26%
	44	I-75 SB before Miami Gardens Dr	176	676	1481:42:30	99.02%
	42	I-75 SB ramp from NW 138 St	176	655	1358:01:34	93.65%
I-75 Subtotal			391	1585	4477:06:09	97.31%
I-195 Mainline	57	I-195 EB before North Miami Ave	34	216	737:57:01	98.94%
	105	I-195 WB before Alton Rd	117	550	963:18:23	99.74%
I-195 Mainline Subtotal			151	766	1701:15:24	99.34%
I-395	886WB	Port Blvd WB before US-1	168	668	997:05:21	92.35%
	104	I-395 WB at Watson Island	299	1069	1470:18:32	99.74%
I-395 Subtotal			467	1737	2467:23:53	96.05%
Limited Access Facilities Subtotal			5570	21915	45305:25:52	97.17%

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	182	742	903:03:31	99.74%
	113	Ives Dairy Rd WB before I-95	145	634	768:39:10	99.74%
	110	Miami Gardens Dr EB before I-95	205	792	982:21:32	99.74%
	111	Miami Gardens Dr WB before I-95	195	758	934:39:25	99.74%
	112*	NW 103 St EB before I-95	0	0	0:00:00	N/A*
	106	NW 79 St EB before I-95	183	678	839:38:44	99.74%
	107	NW 54 St EB before I-95	180	759	835:02:31	99.74%
	108	SW 8 St EB before I-95	110	540	798:37:24	99.74%
I-95 Arterial Subtotal			1200	4903	6062:02:17	99.74%
Golden Glades Interchange	6	SR 826 WB west of NE 2nd Ave	377	1366	1960:28:24	99.73%
	7	Turnpike SB to Golden Glades	339	1278	1988:20:22	99.73%
	9	US-441 NB at TRI-Rail	101	462	1019:04:56	99.73%
	10	SR 9 NB before Park & Ride	86	408	933:21:17	92.70%
	8	US-441 SB at NW 179 St	282	1086	1827:20:47	99.73%
Golden Glades Interchange Subtotal			1185	4600	7728:35:46	98.32%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	137	467	1378:14:49	100.00%
	SW24WB	SW 24 St WB before SR 826	137	458	1338:59:44	99.04%
	SW40EB	SW 40 St EB before SR 826	101	371	1291:53:31	100.00%
	SW40WB	SW 40 St WB before SR 826	101	364	1279:12:52	99.53%
	SW56EB	SW 56 St EB before SR 826	82	311	1233:04:36	99.95%
	SW56WB	SW 56 St WB before SR 826	84	312	1229:22:29	99.58%
	SW72EB	SW 72 St EB before SR 826	80	299	1222:14:26	100.00%
	SW72WB	SW 72 St WB before SR 826	80	294	1210:17:57	99.57%
	WFLAGLEREB**	W Flagler ST EB before SR 826	138	447	1345:50:06	100.00%
	WFLAGLERWB**	W Flagler ST WB before SR 826	138	447	1345:50:05	100.00%
	NW25EB**	NW 25 ST EB before SR 826	113	319	856:40:04	67.25%
	NW25WB**	NW 25 ST WB before SR 826	130	394	1019:26:19	78.04%
	NW36EB**	NW 36 ST EB before SR 826	134	393	1021:32:53	78.08%
	NW36WB**	NW 36 ST WB before SR 826	167	501	1374:07:40	100.00%
	SW8EB**	SW 8 ST EB before SR 826	135	453	1374:25:43	100.00%
	SW8WB**	SW 8 ST WB before SR 826	133	451	1373:28:31	100.00%
	SW88EB**	Kendall DR EB before SR 826	68	265	1188:11:20	98.84%
	SW88WB**	Kendall DR WB before SR 826	69	264	1161:06:40	99.56%
SR 826 Arterial Subtotal			2027	6810	22243:59:45	95.52%
I-195 Arterial	38	Alton Rd SB before I-195	88	471	952:37:12	100.00%
	39	Arthur Godfrey WB before I-195	84	445	944:37:39	100.00%
	40	Alton Rd NB before I-195	85	443	920:36:00	95.28%
I-195 Arterial Subtotal			257	1359	2817:50:51	98.43%

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	231	828	1500:20:50	100.00%
	45	US-1 SB before SW 80 St	29	178	821:07:15	100.00%
	47	US-1 SB at Florida's Turnpike	23	164	795:57:10	100.00%
	46	US-1 NB before Killian Dr	57	233	847:32:20	100.00%
	48	US-1 NB at Florida's Turnpike	26	169	796:37:48	100.00%
US-1 in Miami-Dade County Subtotal			366	1572	4761:35:23	100.00%
US-1 South of Florida City	62	US-1 NB at Mile Marker 126	3	28	110:30:28	99.74%
	64	US-1 NB at Mile Marker 106	24	175	786:56:32	99.74%
	66	US-1 NB at Mile Marker 91.5	23	159	715:47:25	99.74%
	68	US-1 NB at Mile Marker 39.5	22	169	783:10:32	99.74%
	71	US-1 NB at Mile Marker 7.5	20	203	1486:53:50	99.74%
	61	US-1 SB at Mile Marker 126	5	34	200:36:24	99.74%
	63	US-1 SB at Mile Marker 113	24	182	780:33:11	99.74%
	65	US-1 SB at Mile Marker 106	22	177	778:22:42	99.74%
	67	US-1 SB at Mile Marker 91.5	20	123	652:17:20	99.74%
	69	US-1 SB at Mile Marker 39.5	17	144	766:18:09	99.74%
	70	US-1 SB at Mile Marker 7.5	14	143	757:23:59	99.74%
US-1 South of Florida City Subtotal			194	1537	7818:50:32	99.74%
Arterials Subtotal			5229	20781	51432:54:34	99.48%
Limited Access Facilities Subtotal			5570	21915	45305:25:52	97.17%
Grand Total			10799	42696	96738:20:26	97.66%

*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 3, FLD6DOT095NB013.5-LL, FLD6DOT095SB014.6-EL, and FLD6DOT095NB014.8-EL are operational and are under the Express Lanes Phase 2 Contractor.

****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			166	78	152	46	27	25	44	59	190	45	81	131
Safety Messaging			1,962	1,074	1,475	432	256	252	873	809	2,244	388	667	1,214
District 6	Miami-Dade	I-95	2,935	733	496	0	313	532	3,035	1,327	0	745	213	0
	Miami-Dade	Express Lanes	1,647	1,256	476	0	0	433	2	1,321	0	0	404	0
	Miami-Dade	I-195	184	0	0	0	86	40	143	3	0	130	7	0
	Miami-Dade	I-395	117	19	0	0	0	102	66	0	0	0	43	0
	Miami-Dade	MacArthur Causeway	72	14	0	0	11	27	21	0	0	3	11	0
	Miami-Dade	SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-826	426	315	2,388	847	0	0	340	694	3,909	0	59	0
	Miami-Dade	I-75	0	0	53	134	0	0	0	0	0	0	0	0
	Miami-Dade	US-1	29	0	0	0	0	8	18	0	12	0	32	0
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	159
	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	6	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	41	36	54	11	15	7	3	13	18	3	28	33
	Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0
MDX	Miami-Dade	SR-836	325	0	335	0	1	300	2	0	96	0	3	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	138	57	0	0	57	11	33	0	0	45	0	0
	Miami-Dade	SR-874	0	0	48	0	0	0	0	0	341	0	22	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-924	0	0	61	56	0	0	0	0	0	0	0	0
District 4	Broward	I-95	161	160	87	0	0	0	317	308	0	0	0	0
	Broward	Express Lanes	105	74	50	0	0	0	0	53	0	0	0	0
	Broward	I-75	0	0	16	59	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	7	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	8	4	0	0	0	0	6	0	0	0	2	0
Subtotal of On Route			2,935	1,256	2,388	134	86	102	3,035	1,327	3,909	130	32	159
Subtotal of Off Route			5,381	2,564	3,303	1,451	680	1,635	1,868	3,273	2,901	1,229	1,540	1,378
Total District 6			7,579	3,525	5,094	1,470	708	1,426	4,545	4,232	6,373	1,314	1,545	1,537
Other Agencies			737	295	597	115	58	311	358	368	437	45	27	0
Total			8,316	3,820	5,691	1,585	766	1,737	4,903	4,600	6,810	1,359	1,572	1,537

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

