

DMS Usage Report – April 2018

Summary of Monthly Operations

In the month of April, there were 25,701 messages posted with 9,563 DMS activations for 1,435 events. The DMS efficiency was 99.86% (1,433 of the 1,435 signable events had DMS messages posted) for all roadways. There was an average of 6.66 DMSs activated per each signable event and an average of 2.69 DMS messages were posted per each DMS activation. This resulted in an average of 17.91 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

- $\frac{9,563 \text{ DMS Activations}}{1,435 \text{ Events}} = 6.66 \text{ Average DMS Activations per Event}$

An average of 6.66 DMSs were activated per each signable event

- $\frac{25,701 \text{ DMS Messages}}{9,563 \text{ DMS Activations}} = 2.69 \text{ Average DMS Messages per Activation}$

An average of 2.69 DMS messages were posted per each DMS activation

- $6.66 \frac{\text{DMS Activations}}{\text{Events}} \times 2.69 \frac{\text{DMS Messages}}{\text{DMS Activations}} = 17.91^* \text{ DMS Messages per Event}$

An average of 17.91 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	147
FDOT District 4	674
Florida's Turnpike Enterprise	2
Miami-Dade Expressway Authority	1218
Total	2041

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	11283
Other Districts' Incidents	1309
Construction	6378
Safety	5158
Vehicle Alert	1573
Total	25701

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	156	404	1661:38:45	99.67%
	22	I-95 NB south of NW 62 St	156	415	966:29:46	99.96%
	75	I-95 NB before SR 112	354	876	1829:08:03	100.00%
	77	I-95 NB beyond SW 8 St	376	880	1879:19:13	99.96%
	2	I-95 SB north of Ives Dairy Rd	242	589	1672:35:41	100.00%
	3	I-95 SB north of Miami Gardens Dr	258	688	1738:40:05	99.93%
	095NB013.5LL	I-95 NB north of NW 173 St	74	209	832:44:02	100.00%
	20	I-95 SB south of NW 119 St	126	344	1357:27:27	100.00%
	21	I-95 SB south of NW 62 St	165	442	1421:42:42	100.00%
	74	I-95 SB beyond of SR 112	171	408	1107:25:57	99.95%
	76	I-95 SB before Rickenbacker Cswy	50	185	869:16:37	100.00%
I-95 Mainline Subtotal			2128	5440	15336:28:18	99.95%
I-95 Express	95X40	95X NB at NW 62nd St	171	403	1118:37:56	99.26%
	95X45	95X NB at NW 125th St	188	457	1162:19:30	99.84%
	95XSB45	95X SB at NW 62nd St	97	282	882:48:16	99.95%
	95XSB50	95X SB at NW 125th St	110	356	1043:11:48	99.26%
	095SB014.6-EL	95X SB at Miami Gardens Dr	269	739	1903:58:43	100.00%
	095NB014.8-EL	95X SB north of Miami Gardens Dr	60	187	821:23:01	99.87%
I-95 Express Subtotal			895	2424	6932:19:14	99.70%
SR 826	4	SR 826 EB east of NW 67 Ave	74	219	882:04:45	100.00%
	5	SR 826 EB east of NW 37 Ave	276	700	1698:10:40	99.50%
	14***	SR 826 NB beyond NW 122 St	68	187	784:35:16	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	106	347	1341:28:58	99.58%
	19	SR 826 WB beyond NW 67 Ave	110	334	1234:11:53	99.58%
	826NB58	SR 826 NB before NW 58 St	12	20	154:46:34	13.35%
	826SB103***	SR 826 SB before NW 103 St	65	193	857:53:08	N/A***
	826SB58	SR 826 SB before NW 58 St	55	162	697:27:03	75.59%
	826NB1.3-LL	SR 826 NB before SW 72 St	82	263	1281:23:42	100.00%
	826NB4.8-LL**	SR 826 NB at SW 24 St	215	495	1680:03:03	99.96%
	826SB8.8-LL**	SR 826 SB at NW 36 St	166	388	1297:07:28	100.00%
SR 826 Subtotal			1229	3308	11909:12:30	87.51%
I-75	43	I-75 NB before Miami Gardens Dr	23	114	1661:41:00	75.09%
	44	I-75 SB before Miami Gardens Dr	90	242	987:30:37	75.05%
	42	I-75 SB ramp from NW 138 St	125	334	1236:01:05	99.28%
I-75 Subtotal			238	690	3885:12:42	83.14%
I-195 Mainline	57	I-195 EB before North Miami Ave	75	225	1009:58:30	100.00%
	105	I-195 WB before Alton Rd	171	472	1286:29:23	99.12%
I-195 Mainline Subtotal			246	697	2296:27:53	99.56%
I-395	886WB	Port Blvd WB before US-1	230	573	1513:48:41	98.60%
	104	I-395 WB at Watson Island	341	763	1736:56:01	97.39%
I-395 Subtotal			571	1336	3250:44:42	98.00%
Limited Access Facilities Subtotal			5307	13895	43610:25:19	94.84%

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	157	396	992:10:07	99.31%
	113	Ives Dairy Rd WB before I-95	127	351	887:35:53	97.94%
	110	Miami Gardens Dr EB before I-95	179	438	1031:16:07	99.96%
	111	Miami Gardens Dr WB before I-95	188	462	1036:53:05	99.77%
	112*	NW 103 St EB before I-95	0	0	0:00:00	N/A*
	106	NW 79 St EB before I-95	212	531	1275:17:14	95.69%
	107	NW 54 St EB before I-95	246	604	1369:48:19	96.20%
	108	SW 8 St EB before I-95	138	378	858:48:16	96.57%
I-95 Arterial Subtotal			1247	3160	7451:49:01	97.92%
Golden Glades Interchange	6	SR 826 WB west of NE 2nd Ave	288	778	1711:42:16	99.84%
	7	Turnpike SB to Golden Glades	277	743	1750:40:49	100.00%
	9	US-441 NB at TRI-Rail	80	258	833:40:12	100.00%
	10	SR 9 NB before Park & Ride	60	202	616:40:07	76.04%
	8	US-441 SB at NW 179 St	216	638	1635:33:16	99.49%
Golden Glades Interchange Subtotal			921	2619	6548:16:40	95.07%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	112	303	1314:54:31	100.00%
	SW24WB	SW 24 St WB before SR 826	112	298	1291:55:56	99.35%
	SW40EB	SW 40 St EB before SR 826	93	286	1278:41:27	100.00%
	SW40WB	SW 40 St WB before SR 826	93	286	1278:09:39	99.65%
	SW56EB	SW 56 St EB before SR 826	76	245	1244:16:50	99.96%
	SW56WB	SW 56 St WB before SR 826	77	246	1247:59:21	69.89%
	SW72EB	SW 72 St EB before SR 826	70	237	1240:25:27	100.00%
	SW72WB	SW 72 St WB before SR 826	70	237	1240:25:24	100.00%
	WFLAGLEREB**	W Flagler ST EB before SR 826	0	0	0:00:00	0.00%
	WFLAGLERWB**	W Flagler ST WB before SR 826	0	0	0:00:00	0.00%
	NW25EB**	NW 25 ST EB before SR 826	120	292	1159:48:23	25.20%
	NW25WB**	NW 25 ST WB before SR 826	121	293	1160:06:41	100.00%
	NW36EB**	NW 36 ST EB before SR 826	133	329	1332:48:45	99.65%
	NW36WB**	NW 36 ST WB before SR 826	134	329	1335:21:18	100.00%
	SW8EB**	SW 8 ST EB before SR 826	24	49	235:33:07	26.43%
	SW8WB**	SW 8 ST WB before SR 826	121	313	1317:17:14	99.86%
	SW88EB**	Kendall DR EB before SR 826	9	29	230:15:25	25.49%
	SW88WB**	Kendall DR WB before SR 826	4	17	81:50:47	16.06%
SR 826 Arterial Subtotal			1369	3789	16989:50:15	70.09%
I-195 Arterial	38	Alton Rd SB before I-195	102	313	1230:09:42	99.85%
	39	Arthur Godfrey WB before I-195	100	308	1229:10:00	99.89%
	40	Alton Rd NB before I-195	101	308	1229:56:48	100.00%
I-195 Arterial Subtotal			303	929	3689:16:30	99.91%

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	243	614	1624:33:47	100.00%
	45	US-1 SB before SW 80 St	39	140	855:56:43	99.90%
	47	US-1 SB at Florida's Turnpike	32	125	855:54:05	100.00%
	46	US-1 NB before Killian Dr	62	239	916:31:10	100.00%
	48	US-1 NB at Florida's Turnpike	40	191	1167:57:11	99.93%
US-1 in Miami-Dade County Subtotal			416	1309	5420:52:56	99.97%
US-1 South of Florida City	62*	US-1 NB at Mile Marker 126	0	0	0:00:00	N/A*
	64*	US-1 NB at Mile Marker 106	0	0	0:00:00	N/A*
	66*	US-1 NB at Mile Marker 91.5	0	0	0:00:00	N/A*
	68*	US-1 NB at Mile Marker 39.5	0	0	0:00:00	N/A*
	71*	US-1 NB at Mile Marker 7.5	0	0	0:00:00	N/A*
	61*	US-1 SB at Mile Marker 126	0	0	0:00:00	N/A*
	63*	US-1 SB at Mile Marker 113	0	0	0:00:00	N/A*
	65*	US-1 SB at Mile Marker 106	0	0	0:00:00	N/A*
	67*	US-1 SB at Mile Marker 91.5	0	0	0:00:00	N/A*
	69*	US-1 SB at Mile Marker 39.5	0	0	0:00:00	N/A*
	70*	US-1 SB at Mile Marker 7.5	0	0	0:00:00	N/A*
US-1 South of Florida City Subtotal			0	0	0:00:00	N/A*
Arterials Subtotal			4256	11806	40100:05:22	97.47%
Limited Access Facilities Subtotal			5307	13895	43610:25:19	94.84%
Grand Total			9563	25701	83710:30:41	89.46%

*DMS 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 826SBNW103ST01 and 14 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			399	125	268	86	58	50	96	75	115	111	190	0
Safety Messaging			861	455	727	201	151	156	535	375	1084	213	400	0
District 6	Miami-Dade	I-95	1895	378	192	1	289	410	1855	682	0	524	143	0
	Miami-Dade	Express Lanes	1139	1176	322	0	1	320	23	895	0	0	305	0
	Miami-Dade	I-195	281	0	0	0	127	48	174	0	0	54	4	0
	Miami-Dade	I-395	65	5	0	0	4	92	30	0	0	3	10	0
	Miami-Dade	MacArthur Causeway	50	4	0	0	0	24	1	0	0	0	4	0
	Miami-Dade	SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-826	172	99	1188	338	0	1	184	397	2425	0	71	0
	Miami-Dade	I-75	0	0	77	47	0	0	0	0	3	0	0	0
	Miami-Dade	US-1	33	0	3	0	0	8	6	0	39	0	126	0
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	0
	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	10	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	32	24	34	4	19	6	8	6	0	21	18	0
MDX	Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-836	239	8	390	0	8	215	27	0	18	0	8	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	84	16	0	0	40	6	12	0	0	3	0	0
	Miami-Dade	SR-874	0	0	19	0	0	0	0	0	105	0	14	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	1	0
District 4	Miami-Dade	SR-924	0	0	3	2	0	0	0	0	0	0	0	0
	Broward	I-95	82	82	42	0	0	0	166	150	0	0	0	0
	Broward	Express Lanes	48	23	34	5	0	0	0	27	0	0	0	0
	Broward	I-75	0	0	9	6	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
Turnpike	Broward	OTHER	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	Florida's Turnpike	0	0	0	0	0	0	2	0	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
Tunnel	St. Lucie	Florida's Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	Port Miami Tunnel	60	29	0	0	0	0	43	0	0	0	15	0
Subtotal of On Route			1895	1176	1188	47	127	92	1855	682	2425	54	126	0
Subtotal of Off Route			3545	1248	2120	643	570	1244	1305	1937	1364	875	1183	0
Total District 6			4927	2266	2811	677	649	1115	2912	2440	3666	926	1271	0
Other Agencies			513	158	497	13	48	221	248	179	123	3	38	0
Total			5440	2424	3308	690	697	1336	3160	2619	3789	929	1309	0

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

