

DMS Usage Report – May 2018

Summary of Monthly Operations

In the month of May, there were 32,376 messages posted with 10,078 DMS activations for 1,481 events. The DMS efficiency was 100.00% (1,481 of the 1,481 signable events had DMS messages posted) for all roadways. There was an average of 6.80 DMSs activated per each signable event and an average of 3.21 DMS messages were posted per each DMS activation. This resulted in an average of 21.86 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

- $\frac{10,078 \text{ DMS Activations}}{1,481 \text{ Events}} = 6.80 \text{ Average DMS Activations per Event}$

An average of 6.80 DMSs were activated per each signable event

- $\frac{32,376 \text{ DMS Messages}}{10,078 \text{ DMS Activations}} = 3.21 \text{ Average DMS Messages per Activation}$

An average of 3.21 DMS messages were posted per each DMS activation

- $6.80 \frac{\text{DMS Activations}}{\text{Events}} \times 3.21 \frac{\text{DMS Messages}}{\text{DMS Activations}} = 21.86^* \text{ DMS Messages per Event}$

An average of 21.86 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	97
FDOT District 4	1051
Florida's Turnpike Enterprise	70
Miami-Dade Expressway Authority	840
Total	2058

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	11986
Other Districts' Incidents	1501
Construction	6196
Safety	11191
Vehicle Alert	1502
Total	32376

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	183	569	1727:59:29	97.90%
	22	I-95 NB south of NW 62 St	135	326	354:15:06	99.90%
	75	I-95 NB before SR 112	316	736	1112:47:13	100.00%
	77	I-95 NB beyond SW 8 St	357	843	1274:40:30	100.00%
	2	I-95 SB north of Ives Dairy Rd	241	753	1633:33:59	98.91%
	3	I-95 SB north of Miami Gardens Dr	283	892	1741:03:33	98.88%
	095NB013.5LL	I-95 NB north of NW 173 St	92	376	890:04:53	98.92%
	20	I-95 SB south of NW 119 St	128	319	816:38:04	98.85%
	21	I-95 SB south of NW 62 St	147	344	826:52:22	100.00%
	74	I-95 SB beyond of SR 112	148	459	1140:52:55	99.92%
	76	I-95 SB before Rickenbacker Cswy	39	309	894:11:10	99.86%
I-95 Mainline Subtotal			2069	5926	12412:59:14	99.38%
I-95 Express	95X40	95X NB at NW 62nd St	151	468	989:17:16	99.22%
	95X45	95X NB at NW 125th St	200	633	1150:51:55	98.33%
	95XSB45	95X SB at NW 62nd St	133	491	1132:19:25	98.23%
	95XSB50	95X SB at NW 125th St	120	476	1116:47:47	99.22%
	095SB014.6-EL	95X SB at Miami Gardens Dr	302	948	1857:31:26	98.75%
	095NB014.8-EL	95X SB north of Miami Gardens Dr	77	342	892:23:53	99.01%
I-95 Express Subtotal			983	3358	7139:11:42	98.79%
SR 826	4	SR 826 EB east of NW 67 Ave	71	325	924:22:03	99.20%
	5	SR 826 EB east of NW 37 Ave	301	727	1026:44:48	98.81%
	14***	SR 826 NB beyond NW 122 St	109	413	1284:33:43	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	107	311	925:33:16	96.91%
	19	SR 826 WB beyond NW 67 Ave	3	3	6:44:33	96.91%
	826NB58	SR 826 NB before NW 58 St	91	301	1146:40:51	93.18%
	826SB103***	SR 826 SB before NW 103 St	101	407	1268:50:44	N/A***
	826SB58	SR 826 SB before NW 58 St	79	235	570:37:29	89.27%
	826NB1.3-LL	SR 826 NB before SW 72 St	89	395	1349:16:15	99.86%
	826NB4.8-LL**	SR 826 NB at SW 24 St	186	509	1517:12:29	99.87%
	826SB8.8-LL**	SR 826 SB at NW 36 St	84	224	515:55:35	42.59%
SR 826 Subtotal			1221	3850	10536:31:46	90.73%
I-75	43	I-75 NB before Miami Gardens Dr	32	272	1447:39:15	91.16%
	44	I-75 SB before Miami Gardens Dr	131	423	1283:13:45	92.04%
	42	I-75 SB ramp from NW 138 St	129	311	753:22:33	99.91%
I-75 Subtotal			292	1006	3484:15:33	94.37%
I-195 Mainline	57	I-195 EB before North Miami Ave	62	128	218:57:56	96.99%
	105	I-195 WB before Alton Rd	167	370	504:59:36	99.89%
I-195 Mainline Subtotal			229	498	723:57:32	98.44%
I-395	886WB	Port Blvd WB before US-1	186	573	1266:50:21	87.66%
	104	I-395 WB at Watson Island	183	532	919:58:21	100.00%
I-395 Subtotal			369	1105	2186:48:42	93.83%
Limited Access Facilities Subtotal			5163	15743	36483:44:29	96.07%

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	176	604	1043:21:43	98.05%
	113	Ives Dairy Rd WB before I-95	136	446	780:28:16	95.03%
	110	Miami Gardens Dr EB before I-95	213	687	1096:02:30	98.61%
	111	Miami Gardens Dr WB before I-95	222	704	1122:48:05	98.53%
	112*	NW 103 St EB before I-95	0	0	0:00:00	N/A*
	106	NW 79 St EB before I-95	186	527	1315:06:09	93.06%
	107	NW 54 St EB before I-95	175	447	1103:12:21	77.13%
	108	SW 8 St EB before I-95	140	450	918:05:23	98.65%
I-95 Arterial Subtotal			1248	3865	7379:04:27	94.15%
Golden Glades Interchange	6	SR 826 WB west of NE 2nd Ave	330	984	1749:58:07	98.92%
	7	Turnpike SB to Golden Glades	295	892	1693:08:17	97.71%
	9	US-441 NB at TRI-Rail	99	392	914:45:21	98.40%
	10	SR 9 NB before Park & Ride	99	398	927:22:21	98.67%
	8	US-441 SB at NW 179 St	241	780	1627:40:12	97.40%
Golden Glades Interchange Subtotal			1064	3446	6912:54:18	98.22%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	126	408	1389:48:52	99.92%
	SW24WB	SW 24 St WB before SR 826	126	408	1389:48:51	99.81%
	SW40EB	SW 40 St EB before SR 826	109	397	1346:26:34	99.87%
	SW40WB	SW 40 St WB before SR 826	111	403	1353:04:10	99.87%
	SW56EB	SW 56 St EB before SR 826	89	373	1339:36:57	99.84%
	SW56WB	SW 56 St WB before SR 826	88	372	1333:38:21	99.90%
	SW72EB	SW 72 St EB before SR 826	82	363	1305:59:10	99.49%
	SW72WB	SW 72 St WB before SR 826	82	368	1326:21:57	99.93%
	WFLAGLEREB**	W Flagler ST EB before SR 826	118	396	1383:55:02	99.71%
	WFLAGLERWB**	W Flagler ST WB before SR 826	80	225	841:34:38	66.00%
	NW25EB**	NW 25 ST EB before SR 826	132	426	1493:54:49	58.58%
	NW25WB**	NW 25 ST WB before SR 826	131	425	1491:32:20	99.93%
	NW36EB**	NW 36 ST EB before SR 826	146	443	1570:57:36	28.92%
	NW36WB**	NW 36 ST WB before SR 826	148	453	1528:36:54	99.93%
	SW8EB**	SW 8 ST EB before SR 826	100	324	1171:36:35	83.21%
	SW8WB**	SW 8 ST WB before SR 826	117	383	1383:50:40	99.93%
	SW88EB**	Kendall DR EB before SR 826	63	306	1087:19:17	78.95%
	SW88WB**	Kendall DR WB before SR 826	56	251	890:40:54	39.60%
SR 826 Arterial Subtotal			1904	6724	23628:43:37	86.30%
I-195 Arterial	38	Alton Rd SB before I-195	98	255	479:34:52	89.41%
	39	Arthur Godfrey WB before I-195	95	251	479:10:32	99.88%
	40	Alton Rd NB before I-195	95	251	479:13:20	100.00%
I-195 Arterial Subtotal			288	757	1437:58:44	96.43%

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	243	750	1644:48:40	99.58%
	45	US-1 SB before SW 80 St	35	252	883:32:30	99.80%
	47	US-1 SB at Florida's Turnpike	32	237	891:05:36	99.93%
	46	US-1 NB before Killian Dr	55	324	922:36:41	92.64%
	48	US-1 NB at Florida's Turnpike	37	259	915:23:30	99.57%
US-1 in Miami-Dade County Subtotal			402	1822	5257:26:57	98.30%
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			4906	16614	44616:08:03	97.49%
Limited Access Facilities Subtotal			5163	15743	36483:44:29	96.07%
Grand Total			10069	32357	81099:52:32	93.73%

*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			337	144	214	84	49	31	96	80	211	96	160	0
Safety Messaging			1395	1160	1388	400	44	288	1111	976	3374	102	953	0
District 6	Miami-Dade	I-95	2011	490	302	5	250	303	2014	940	16	363	187	0
	Miami-Dade	Express Lanes	1145	1180	288	0	0	219	0	781	0	0	296	0
	Miami-Dade	I-195	192	0	0	0	113	35	108	0	0	193	2	0
	Miami-Dade	I-395	22	3	0	0	0	59	10	0	4	0	3	0
	Miami-Dade	MacArthur Causeway	52	5	0	0	0	23	0	0	0	0	6	0
	Miami-Dade	SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-826	151	117	1168	371	0	1	166	355	2834	0	82	0
	Miami-Dade	I-75	0	0	106	83	0	0	0	0	102	0	0	0
	Miami-Dade	US-1	69	2	0	0	1	2	19	0	14	3	72	0
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	4	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	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	75	48	52	12	24	5	19	12	0	0	36	0
	Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0
MDX	Miami-Dade	SR-836	202	2	182	2	0	139	0	0	82	0	0	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	16	0	0	17	0	4	0	0	0	0	0
	Miami-Dade	SR-874	0	0	16	0	0	0	0	0	106	0	10	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	1	0
	Miami-Dade	SR-924	0	0	9	18	0	0	0	0	0	0	0	0
District 4	Broward	I-95	137	140	66	0	0	0	274	257	0	0	0	0
	Broward	Express Lanes	46	23	26	5	0	0	0	23	0	0	0	0
	Broward	I-75	0	0	28	26	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	18	8	5	0	0	0	17	22	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	40	20	0	0	0	0	27	0	0	0	10	0
Subtotal of On Route			2011	1180	1168	83	113	59	2014	940	2834	193	72	0
Subtotal of Off Route			3915	2178	2682	923	385	1046	1851	2506	3909	564	1750	0
Total District 6			5449	3149	3518	955	481	966	3543	3144	6555	757	1801	0
Other Agencies			477	209	332	51	17	139	322	302	188	0	21	0
Total			5926	3358	3850	1006	498	1105	3865	3446	6743	757	1822	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

