

DMS Usage Report – October 2017

Summary of Monthly Operations

In the month of October, there were 36,918 messages posted with 9,574 DMS activations for 1,703 events. The DMS efficiency was 100.00% (1,703 of the 1,703 signable events had DMS messages posted) for all roadways. There was an average of 5.62 DMSs activated per each signable event and an average of 3.86 DMS messages were posted per each DMS activation. This resulted in an average of 21.68 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

- $$\frac{9,574 \text{ DMS Activations}}{1,703 \text{ Events}} = \underline{\underline{5.62}} \text{ Average DMS Activations per Event}$$

An average of 5.62 DMSs were activated per each signable event

- $$\frac{36,918 \text{ DMS Messages}}{9,574 \text{ DMS Activations}} = \underline{\underline{3.86}} \text{ Average DMS Messages per Activation}$$

An average of 3.86 DMS messages were posted per each DMS activation

- $$5.62 \frac{\text{DMS Activations}}{\text{Events}} \times 3.86 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{\underline{21.68^*}} \text{ DMS Messages per Event}$$

An average of 21.68 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	208
FDOT District 4	1159
Florida's Turnpike Enterprise	0
Miami-Dade Expressway Authority	1517
Total	2884

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	18784
Other Districts' Incidents	2021
Construction	6927
Safety	7698
Vehicle Alert	1488
Total	36918

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	0	0	0:00:00	0.00%
	22	I-95 NB south of NW 62 St	181	867	1520:22:21	99.85%
	75	I-95 NB before SR 112	365	1516	1891:49:46	98.87%
	77	I-95 NB beyond SW 8 St	455	1863	2265:32:05	99.01%
	2	I-95 SB north of Ives Dairy Rd	242	913	1791:47:55	90.66%
	3	I-95 SB north of Miami Gardens Dr	277	1110	1797:16:52	94.44%
	095NB013.5LL	I-95 NB north of NW 173 St	94	425	902:34:25	79.58%
	20	I-95 SB south of NW 119 St	128	541	968:39:38	99.82%
	21	I-95 SB south of NW 62 St	115	562	1099:37:35	100.00%
	74	I-95 SB beyond of SR 112	185	685	1286:49:44	99.14%
	76	I-95 SB before Rickenbacker Cswy	44	239	878:27:08	99.83%
I-95 Mainline Subtotal			2086	8721	14402:57:29	87.38%
I-95 Express	95X40	95X NB at NW 62nd St	187	694	1362:53:27	90.35%
	95X45	95X NB at NW 125th St	211	808	1423:15:56	99.89%
	95XSB45	95X SB at NW 62nd St	132	569	1201:31:50	99.83%
	95XSB50	95X SB at NW 125th St	134	566	1193:59:40	99.79%
	095SB014.6-EL	95X SB at Miami Gardens Dr	277	1134	1987:51:18	99.16%
	095NB014.8-EL	95X SB north of Miami Gardens Dr	83	402	986:48:38	98.81%
I-95 Express Subtotal			1024	4173	8156:20:49	97.97%
SR 826	4	SR 826 EB east of NW 67 Ave	102	415	1111:30:32	100.00%
	5	SR 826 EB east of NW 37 Ave	338	1342	1904:06:54	99.92%
	14****	SR 826 NB beyond NW 122 St	0	0	0:00:00	0.00%
	15*	SR 826 WB beyond NW 17 Ave	0	0	0:00:00	N/A*
	17	SR 826 WB beyond NW 47 Ave	119	480	1282:11:13	100.00%
	19	SR 826 WB beyond NW 67 Ave	160	604	1298:02:35	98.96%
	826NB58	SR 826 NB before NW 58 St	129	399	1390:01:21	100.00%
	826SB103***	SR 826 SB before NW 103 St	121	449	1287:19:16	N/A***
	826SB58	SR 826 SB before NW 58 St	94	363	1150:03:01	99.77%
	826NB1.3-LL	SR 826 NB before SW 72 St	112	356	1526:36:22	100.00%
	826NB4.8-LL**	SR 826 NB at SW 24 St	157	366	1134:37:09	65.26%
	826SB8.8-LL**	SR 826 SB at NW 36 St	79	208	459:26:53	43.16%
SR 826 Subtotal			1411	4982	12543:55:16	89.67%
I-75	43	I-75 NB before Miami Gardens Dr	51	315	1684:55:13	99.91%
	44	I-75 SB before Miami Gardens Dr	161	646	1450:44:42	99.55%
	42	I-75 SB ramp from NW 138 St	159	649	1435:36:58	100.00%
I-75 Subtotal			371	1610	4571:16:53	99.82%
I-195 Mainline	57	I-195 EB before North Miami Ave	41	223	900:23:31	98.87%
	105	I-195 WB before Alton Rd	159	730	1126:30:35	91.74%
I-195 Mainline Subtotal			200	953	2026:54:06	95.31%
I-395	886WB	Port Blvd WB before US-1	273	1068	1651:06:44	100.00%
	104	I-395 WB at Watson Island	422	1525	1895:54:41	98.04%
I-395 Subtotal			695	2593	3547:01:25	99.02%
Limited Access Facilities Subtotal			5787	23032	45248:25:58	92.25%

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	636	924:45:53	93.74%
	113****	Ives Dairy Rd WB before I-95	0	0	0:00:00	0.00%
	110	Miami Gardens Dr EB before I-95	146	569	684:23:47	69.10%
	111****	Miami Gardens Dr WB before I-95	0	0	0:00:00	0.00%
	112*	NW 103 St EB before I-95	0	0	0:00:00	N/A*
	106	NW 79 St EB before I-95	196	812	878:47:02	98.60%
	107	NW 54 St EB before I-95	213	878	1145:26:02	90.55%
	108	SW 8 St EB before I-95	189	882	1047:54:18	99.97%
I-95 Arterial Subtotal			901	3777	4681:17:02	64.57%
Golden Glades Interchange	6	SR 826 WB west of NE 2nd Ave	203	799	1107:20:06	58.28%
	7****	Turnpike SB to Golden Glades	0	0	0:00:00	0.00%
	9	US-441 NB at TRI-Rail	103	488	1070:36:34	100.00%
	10****	SR 9 NB before Park & Ride	0	0	0:00:00	0.00%
	8****	US-441 SB at NW 179 St	0	0	0:00:00	0.00%
Golden Glades Interchange Subtotal			306	1287	2177:56:40	31.66%
SR 826 Arterial	SW24EB****	SW 24 St EB before SR 826	0	0	0:00:00	0.00%
	SW24WB	SW 24 St WB before SR 826	165	449	1614:42:21	100.00%
	SW40EB	SW 40 St EB before SR 826	144	414	1553:56:42	100.00%
	SW40WB	SW 40 St WB before SR 826	139	405	1492:26:50	98.84%
	SW56EB****	SW 56 St EB before SR 826	0	0	0:00:00	0.00%
	SW56WB	SW 56 St WB before SR 826	116	369	1468:18:34	99.85%
	SW72EB	SW 72 St EB before SR 826	112	361	1462:10:37	99.90%
	SW72WB	SW 72 St WB before SR 826	114	370	1492:18:06	100.00%
	WFLAGLEREB****	W Flagler ST EB before SR 826	0	80	0:00:00	0.00%
	WFLAGLERWB**	W Flagler ST WB before SR 826	2	33	176:53:17	0.09%
	NW25EB**	NW 25 ST EB before SR 826	114	357	977:19:05	0.03%
	NW25WB**	NW 25 ST WB before SR 826	188	534	1561:58:17	99.90%
	NW36EB**	NW 36 ST EB before SR 826	173	485	1556:10:19	87.94%
	NW36WB**	NW 36 ST WB before SR 826	145	408	1202:48:57	16.62%
	SW8EB**	SW 8 ST EB before SR 826	149	421	1375:18:39	87.96%
	SW8WB**	SW 8 ST WB before SR 826	105	304	995:00:08	65.20%
	SW88EB**	Kendall DR EB before SR 826	89	304	1410:41:21	99.43%
	SW88WB**	Kendall DR WB before SR 826	89	304	1410:41:24	99.75%
SR 826 Arterial Subtotal			1844	5518	19750:44:37	64.20%
I-195 Arterial	38	Alton Rd SB before I-195	124	565	1051:52:42	100.00%
	39	Arthur Godfrey WB before I-195	124	565	1051:52:44	100.00%
	40****	Alton Rd NB before I-195	0	0	0:00:00	0.00%
I-195 Arterial Subtotal			248	1130	2103:45:26	66.67%

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	301	1267	1734:49:33	100.00%
	45	US-1 SB before SW 80 St	48	241	914:36:46	100.00%
	47	US-1 SB at Florida's Turnpike	35	182	891:00:03	89.32%
	46	US-1 NB before Killian Dr	66	285	1058:31:16	99.89%
	48	US-1 NB at Florida's Turnpike	38	199	898:49:15	100.00%
US-1 in Miami-Dade County Subtotal			488	2174	5497:46:53	97.84%
US-1 South of Florida City	62****	US-1 NB at Mile Marker 126	0	0	0:00:00	0.00%
	64****	US-1 NB at Mile Marker 106	0	0	0:00:00	0.00%
	66****	US-1 NB at Mile Marker 91.5	0	0	0:00:00	0.00%
	68****	US-1 NB at Mile Marker 39.5	0	0	0:00:00	0.00%
	71****	US-1 NB at Mile Marker 7.5	0	0	0:00:00	0.00%
	61****	US-1 SB at Mile Marker 126	0	0	0:00:00	0.00%
	63****	US-1 SB at Mile Marker 113	0	0	0:00:00	0.00%
	65****	US-1 SB at Mile Marker 106	0	0	0:00:00	0.00%
	67****	US-1 SB at Mile Marker 91.5	0	0	0:00:00	0.00%
	69****	US-1 SB at Mile Marker 39.5	0	0	0:00:00	0.00%
	70****	US-1 SB at Mile Marker 7.5	0	0	0:00:00	0.00%
US-1 South of Florida City Subtotal			0	0	0:00:00	0.00%
Arterials Subtotal			3787	13886	34211:30:38	48.67%
Limited Access Facilities Subtotal			5787	23032	45248:25:58	92.25%
Grand Total			9574	36918	79459:56:36	67.06%

*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 826SBNW103ST01 is under the SR-826/I-75 Express Lanes Contractor; thus, system availability is not measured for this device.

****These DMS were not operational due to the damages caused by Hurricane Irma.

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			347	128	252	118	51	56	57	28	215	50	186	0
Safety Messaging			1574	1011	1129	402	226	243	472	213	1582	242	604	0
District 6	Miami-Dade	I-95	3756	829	557	9	518	1196	2693	410	12	742	532	0
	Miami-Dade	Express Lanes	1648	1568	466	0	0	511	0	244	0	0	498	0
	Miami-Dade	I-195	155	0	0	0	79	45	77	9	0	76	10	0
	Miami-Dade	I-395	70	17	0	0	13	65	46	0	0	0	20	0
	Miami-Dade	MacArthur Causeway	74	9	0	0	9	30	2	0	0	0	9	0
	Miami-Dade	SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-826	165	144	1948	743	0	0	131	161	3359	0	88	0
	Miami-Dade	I-75	0	0	22	193	0	0	0	0	0	0	0	0
	Miami-Dade	US-1	53	0	12	0	0	0	26	0	205	0	130	0
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	1	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	3	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	93	119	112	14	25	14	0	41	0	0	42	0
	Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0
MDX	Miami-Dade	SR-836	452	3	183	0	0	433	8	0	78	0	6	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	87	44	0	0	32	0	9	0	0	20	0	0
	Miami-Dade	SR-874	0	0	5	0	0	0	0	0	67	0	13	0
	Miami-Dade	SR-878	7	0	0	0	0	0	7	0	0	0	14	0
	Miami-Dade	SR-924	0	0	17	32	0	0	0	0	0	0	0	0
District 4	Broward	I-95	100	198	128	0	0	0	187	146	0	0	0	0
	Broward	Express Lanes	57	61	59	0	0	0	0	32	0	0	0	0
	Broward	I-75	0	0	92	99	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	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
	St. Lucie	Florida's Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
Tunnel	Miami-Dade	Port Miami Tunnel	83	42	0	0	0	0	62	0	0	0	21	0
Subtotal of On Route			3756	1568	1948	193	79	65	2693	410	3359	76	130	0
Subtotal of Off Route			4965	2605	3034	1417	874	2528	1084	877	2159	1054	2044	0
Total District 6			7935	3825	4498	1479	921	2160	3504	1109	5373	1110	2120	0
Other Agencies			786	348	484	131	32	433	273	178	145	20	54	0
Total			8721	4173	4982	1610	953	2593	3777	1287	5518	1130	2174	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

