

DMS Usage Report – February 2016

Summary of Monthly Operations

In the month of February, there were 42,922 messages posted with 10,589 DMS activations for 1,505 events. The DMS efficiency was 99.73% (1,501 of the 1,505 signable events had DMS messages posted). There was an average of 7.04 DMSs activated per each signable event and an average of 4.05 DMS messages were posted per each DMS activation. This resulted in an average of 28.52 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

- $$\frac{10589 \text{ DMS Activations}}{1505 \text{ Events}} = \underline{7.04} \text{ Average DMS Activations per Event}$$

An average of 7.04 DMSs were activated per each signable event

- $$\frac{42922 \text{ DMS Messages}}{10589 \text{ DMS Activations}} = \underline{4.05} \text{ Average DMS Messages per Activation}$$

An average of 4.05 DMS messages were posted per each DMS activation

- $$7.04 \frac{\text{DMS Activations}}{\text{Events}} \times 4.05 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{28.52^*} \text{ DMS Messages per Event}$$

An average of 28.52 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	189
FDOT District 4	1354
Florida's Turnpike Enterprise	327
Miami-Dade Expressway Authority	1551
Total	3421

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	19961
Other Districts' Incidents	2037
Construction	11197
Safety	7626
Vehicle Alert	2101
Total	42922



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	199	830	1733:22:43	99.54%
	22	I-95 NB south of NW 62 St	175	704	1107:00:56	97.47%
	75	I-95 NB before SR 112	313	940	1042:48:35	99.54%
	77	I-95 NB beyond SW 8 St	382	1030	1250:33:19	99.54%
	2***	I-95 SB north of Ives Dairy Rd	178	520	779:08:10	N/A***
	3***	I-95 SB north of Miami Gardens Dr	242	859	1114:16:11	N/A***
	095NB013.5LL***	I-95 NB north of NW 173 St	98	457	862:04:02	N/A***
	20	I-95 SB south of NW 119 St	130	559	959:16:48	99.54%
	21	I-95 SB south of NW 62 St	158	612	1039:36:44	97.15%
	74	I-95 SB beyond of SR 112	179	675	1182:09:46	99.40%
76	I-95 SB before Rickenbacker Cswy	41	279	754:39:52	99.41%	
I-95 Mainline Subtotal			2095	7465	11824:57:06	98.95%
I-95 Express	95X40	95X NB at NW 62nd St	173	533	838:17:26	99.54%
	95X45	95X NB at NW 125th St	181	650	908:43:47	99.52%
	95XSB45	95X SB at NW 62nd St	135	573	994:27:29	96.34%
	95XSB50	95X SB at NW 125th St	112	469	882:08:32	99.47%
	095SB014.6-EL***	95X SB at Miami Gardens Dr	225	765	1130:23:27	N/A***
	095NB014.8-EL***	95X SB north of Miami Gardens Dr	78	401	850:48:30	N/A***
I-95 Express Subtotal			904	3391	5604:49:11	98.72%
SR 826	14	SR 826 NB beyond NW 122 St	94	485	825:38:46	99.26%
	4	SR 826 EB east of NW 67 Ave	100	471	816:55:24	99.54%
	5	SR 826 EB east of NW 37 Ave	292	1065	1255:38:33	99.54%
	15*	SR 826 WB beyond NW 17 Ave	0	0	0:00:00	N/A*
	17	SR 826 WB beyond NW 47 Ave	163	749	1099:49:03	99.54%
	19	SR 826 WB beyond NW 67 Ave	171	815	1122:55:05	99.25%
	826NB58	SR 826 NB before NW 58 St	108	489	846:19:45	98.94%
	826SB58	SR 826 SB before NW 58 St	86	365	910:15:00	99.54%
	826SB103****	SR 826 SB before NW 103 St	96	466	920:55:31	N/A****
	826NB1.3-LL	SR 826 NB before SW 72 St	96	444	1105:33:54	98.84%
	826NB4.8-LL**	SR 826 NB at SW 24 St	146	468	920:02:25	N/A**
826SB8.8-LL**	SR 826 SB at NW 36 St	174	641	1079:40:41	N/A**	
SR 826 Subtotal			1526	6458	10903:44:07	99.31%
I-75	43	I-75 NB before Miami Gardens Dr	56	354	1388:49:06	97.86%
	44	I-75 SB before Miami Gardens Dr	171	788	1102:15:09	97.56%
	42	I-75 SB ramp from NW 138 St	183	862	1146:09:22	99.54%
I-75 Subtotal			410	2004	3637:13:37	98.32%
I-195 Mainline	57	I-195 EB before North Miami Ave	40	235	740:00:15	99.54%
	105	I-195 WB before Alton Rd	178	750	1074:56:16	99.01%
I-195 Mainline Subtotal			218	985	1814:56:31	99.28%
I-395	886WB	Port Blvd WB before US-1	230	856	1224:57:16	99.54%
	104	I-395 WB at Watson Island	335	984	1226:33:22	94.45%
I-395 Subtotal			565	1840	2451:30:38	97.00%
Limited Access Facilities Subtotal			5718	22143	36237:11:10	98.83%



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	169	612	881:00:33	N/A***
	113***	Ives Dairy Rd WB before I-95	69	238	405:07:34	N/A***
	110***	Miami Gardens Dr EB before I-95	181	734	994:35:05	N/A***
	111***	Miami Gardens Dr WB before I-95	195	786	1017:06:06	N/A***
	112	NW 103 St EB before I-95	204	780	948:21:42	98.63%
	106	NW 79 St EB before I-95	219	859	955:10:45	98.12%
	107	NW 54 St EB before I-95	254	911	1073:55:12	99.06%
	108	SW 8 St EB before I-95	165	545	897:01:12	98.86%
I-95 Arterial Subtotal			1456	5465	7172:18:09	98.67%
Golden Glades Interchange	6***	SR 826 WB west of NE 2nd Ave	112	332	343:17:37	N/A***
	7	Turnpike SB to Golden Glades	287	1027	1261:25:59	99.47%
	9	US-441 NB at TRI-Rail	120	525	876:31:11	98.53%
	10	SR 9 NB before Park & Ride	121	534	880:33:06	99.54%
	8	US-441 SB at NW 179 St	219	823	1121:39:17	99.54%
Golden Glades Interchange Subtotal			859	3241	4483:27:10	99.27%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	166	614	1019:04:10	81.82%
	SW24WB	SW 24 St WB before SR 826	203	763	1260:29:42	99.54%
	SW40EB	SW 40 St EB before SR 826	152	660	1161:18:37	97.17%
	SW40WB	SW 40 St WB before SR 826	153	667	1219:04:19	99.54%
	SW56EB	SW 56 St EB before SR 826	119	544	1075:02:21	89.72%
	SW56WB	SW 56 St WB before SR 826	128	599	1183:10:13	99.47%
	SW72EB	SW 72 St EB before SR 826	108	531	1043:47:25	89.99%
	SW72WB	SW 72 St WB before SR 826	116	587	1151:48:37	99.54%
	WFLAGLEREB**	W Flagler ST EB before SR 826	173	753	1178:33:45	N/A**
	WFLAGLERWB**	W Flagler ST WB before SR 826	0	0	0:00:00	N/A**
SR 826 Arterial Subtotal			1318	5718	10292:19:09	94.60%
I-195 Arterial	38	Alton Rd SB before I-195	109	543	896:48:14	99.06%
	39	Arthur Godfrey WB before I-195	106	533	901:02:39	99.54%
	40	Alton Rd NB before I-195	108	537	908:40:13	99.54%
I-195 Arterial Subtotal			323	1613	2706:31:06	99.38%
US-1 in Miami-Dade County	23	US-1 NB beyond SW 17 Ave	239	774	1045:54:18	99.54%
	45	US-1 SB before SW 80 St	53	282	772:47:45	99.54%
	47	US-1 SB at Florida's Turnpike	35	228	743:56:59	99.14%
	46	US-1 NB before Killian Dr	104	496	1026:08:36	99.54%
	48	US-1 NB at Florida's Turnpike	34	215	736:28:23	99.54%
US-1 in Miami-Dade County Subtotal			465	1995	4325:16:01	99.46%

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	34	218	742:24:20	99.21%
	64	US-1 NB at Mile Marker 106	32	182	631:00:08	85.84%
	66	US-1 NB at Mile Marker 91.5	32	210	731:54:49	99.45%
	68	US-1 NB at Mile Marker 39.5	47	232	670:17:12	95.51%
	71	US-1 NB at Mile Marker 7.5	45	326	1295:04:31	99.34%
	61	US-1 SB at Mile Marker 126	48	335	1288:26:06	99.20%
	63	US-1 SB at Mile Marker 113	46	273	750:25:33	99.38%
	65	US-1 SB at Mile Marker 106	49	270	733:59:37	95.97%
	67	US-1 SB at Mile Marker 91.5	44	254	719:49:34	98.09%
	69	US-1 SB at Mile Marker 39.5	42	228	680:33:21	96.14%
	70	US-1 SB at Mile Marker 7.5	31	219	733:37:33	99.50%
US-1 South of Florida City Subtotal			450	2747	8977:32:44	97.06%
Arterials Subtotal			4871	20779	37957:24:19	97.47%
Limited Access Facilities Subtotal			5718	22143	36237:11:10	98.83%
Grand Total			10589	42922	74194:35:29	98.06%

*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			385	144	350	135	50	53	93	80	135	42	205	429
Safety Messaging			1,221	682	1,233	335	226	224	464	474	799	215	570	1,183
District 6	Miami-Dade	I-95	3,122	980	558	3	456	791	3,521	1,152	2	1,007	226	0
	Miami-Dade	Express Lanes	922	772	255	0	0	233	20	494	0	0	157	0
	Miami-Dade	I-195	66	0	0	0	52	28	73	0	0	99	4	0
	Miami-Dade	I-395	38	11	52	0	0	51	25	0	151	0	11	0
	Miami-Dade	MacArthur Causeway	127	24	0	0	18	46	4	0	0	27	33	0
	Miami-Dade	SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-826	82	57	2,778	1,083	0	0	115	388	3,817	0	205	0
	Miami-Dade	I-75	0	0	89	124	0	0	0	0	0	0	0	0
	Miami-Dade	US-1	21	7	0	0	0	14	14	0	0	0	182	6
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	341
	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	739	380	653	232	128	122	478	267	549	183	321	788
Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0	
MDX	Miami-Dade	SR-836	306	34	188	0	16	246	135	0	194	19	31	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	91	32	0	0	38	6	54	2	0	21	3	0
	Miami-Dade	SR-874	0	0	16	0	0	0	0	0	71	0	12	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	3	0
	Miami-Dade	SR-924	0	0	17	16	0	0	0	0	0	0	0	0
District 4	Broward	I-95	181	187	90	0	0	0	367	314	0	0	0	0
	Broward	I-75	0	0	142	73	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	85	41	36	3	1	26	46	69	0	0	13	0
	Miami-Dade	Floridas Turnpike Spur	0	0	0	0	0	0	0	0	0	0	0	0
	Broward	Floridas Turnpike	3	2	1	0	0	0	1	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	76	38	0	0	0	56	0	0	0	19	0	
Subtotal of On Route			3,122	772	2,778	124	52	51	3,521	1,152	3,817	99	182	341
Subtotal of Off Route			4,343	2,619	3,680	1,880	933	1,789	1,944	2,089	1,901	1,514	1,813	2,406
Total District 6			6,723	3,057	5,968	1,912	930	1,562	4,807	2,855	5,453	1,573	1,914	2,747
Other Agencies			742	334	490	92	55	278	658	386	265	40	81	0
Total			7,465	3,391	6,458	2,004	985	1,840	5,465	3,241	5,718	1,613	1,995	2,747

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

