

DMS Usage Report – September 2014

Summary of Monthly Operations

In the month of September, there were 31,195 messages posted with 7,948 DMS activations for 1,134 events. The DMS efficiency was 99.91% (1,133 of the 1,134 signable events had DMS messages posted). There was an average of 7.01 DMSs activated per each signable event and an average of 3.92 DMS messages were posted per each DMS activation. This resulted in an average of 27.51 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

- $\frac{7948 \text{ DMS Activations}}{1134 \text{ Events}} = \underline{7.01} \text{ Average DMS Activations per Event}$

An average of 7.01 DMSs were activated per each signable event

- $\frac{31195 \text{ DMS Messages}}{7948 \text{ DMS Activations}} = \underline{3.92} \text{ Average DMS Messages per Activation}$

An average of 43.92 DMS messages were posted per each DMS activation

- $7.01 \frac{\text{DMS Activations}}{\text{Events}} \times 3.92 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{27.51^*} \text{ DMS Messages per Event}$

An average of 27.51 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	89
FDOT District 4	888
Florida's Turnpike Enterprise	69
Miami-Dade Expressway Authority	3565
Total	4611

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	20498
Other Districts' Incidents	1650
Construction	8622
Safety	0
Vehicle Alert	425
Total	31195



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	145	482	994:01:58	100.00%
	22	I-95 NB south of NW 62 St	114	424	945:36:01	100.00%
	75	I-95 NB before SR 112	268	872	1190:37:17	100.00%
	77	I-95 NB beyond SW 8 St	269	918	1227:18:46	100.00%
	2****	I-95 SB north of Ives Dairy Rd	246	919	1454:16:36	N/A****
	3****	I-95 SB north of Miami Gardens Dr	263	918	1462:33:49	N/A****
	20	I-95 SB south of NW 119 St	107	409	964:25:59	100.00%
	21	I-95 SB south of NW 62 St	140	556	1118:54:46	100.00%
	74	I-95 SB beyond of SR 112	98	347	924:59:13	100.00%
	76	I-95 SB before Rickenbacker Cswy	18	180	734:24:38	100.00%
I-95 Mainline Subtotal			1668	6025	11017:09:03	100.00%
I-95 Express	95X40	95X NB at NW 62nd St	115	400	860:07:13	98.01%
	95X45	95X NB at NW 125th St	111	435	991:31:54	98.34%
	95XSB45	95X SB at NW 62nd St	126	433	1044:07:33	99.41%
	95XSB50	95X SB at NW 125th St	126	400	900:47:36	99.34%
I-95 Express Subtotal			478	1668	3796:34:16	98.78%
SR 826	14	SR 826 NB beyond NW 122 St	68	281	793:35:15	100.00%
	4	SR 826 EB east of NW 67 Ave	108	440	1297:07:50	100.00%
	5	SR 826 EB east of NW 37 Ave	248	891	1569:35:59	100.00%
	15*	SR 826 WB beyond NW 17 Ave	0	0	0:00:00	N/A*
	17	SR 826 WB beyond NW 47 Ave	88	343	1004:57:32	100.00%
	19	SR 826 WB beyond NW 67 Ave	102	388	1007:30:01	99.52%
	826NB58	SR 826 NB before NW 58 St	72	291	822:13:25	100.00%
	826SB58	SR 826 SB before NW 58 St	117	422	1071:37:06	100.00%
	826SB103	SR 826 SB before NW 103 St	120	423	1059:15:57	100.00%
	826NB1.3-LL	SR 826 NB before SW 72 St	91	339	1013:25:20	100.00%
	826NB4.8-LL**	SR 826 NB at SW 24 St	124	421	1041:30:43	N/A**
826SB8.8-LL**	SR 826 SB at NW 36 St	139	447	1069:53:44	N/A**	
SR 826 Subtotal			1277	4686	11750:42:52	99.95%
I-75	43	I-75 NB before Miami Gardens Dr	24	174	784:28:38	100.00%
	44	I-75 SB before Miami Gardens Dr	127	453	1046:06:35	100.00%
	42	I-75 SB ramp from NW 138 St	125	466	1083:11:44	100.00%
I-75 Subtotal			276	1093	2913:46:57	100.00%
I-195 Mainline	57	I-195 EB before North Miami Ave	42	253	802:30:55	100.00%
	105	I-195 WB before Alton Rd	131	559	1127:22:03	100.00%
I-195 Mainline Subtotal			173	812	1929:52:58	100.00%
I-395	886WB	Port Blvd WB before US-1	153	632	1110:56:45	99.92%
	104	I-395 WB at Watson Island	184	585	914:23:03	84.66%
I-395 Subtotal			337	1217	2025:19:48	92.29%
Limited Access Facilities Subtotal			4209	15501	33433:25:54	99.26%

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	142	568	948:19:46	N/A****
	113****	Ives Dairy Rd WB before I-95	99	409	585:57:32	N/A****
	110****	Miami Gardens Dr EB before I-95	108	409	605:06:44	N/A****
	111****	Miami Gardens Dr WB before I-95	104	394	589:43:24	N/A****
	112	NW 103 St EB before I-95	199	667	1017:12:45	99.96%
	106	NW 79 St EB before I-95	186	645	993:33:00	99.86%
	107	NW 54 St EB before I-95	216	788	1169:03:20	100.00%
	108	SW 8 St EB before I-95	77	241	415:36:49	59.71%
I-95 Arterial Subtotal			1131	4121	6324:33:20	89.88%
Golden Glades Interchange	6****	SR 826 WB west of NE 2nd Ave	281	955	1598:06:53	N/A****
	7	Turnpike SB to Golden Glades	251	887	1407:03:44	99.91%
	9	US-441 NB at TRI-Rail	83	376	943:23:48	100.00%
	10	SR 9 NB before Park & Ride.	162	631	1122:21:35	99.19%
	8	US-441 SB at NW 179 St	260	940	1550:03:39	100.00%
Golden Glades Interchange Subtotal			1037	3789	6620:59:39	99.78%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	116	418	1003:31:59	100.00%
	SW24WB	SW 24 St WB before SR 826	116	418	1003:31:58	100.00%
	SW40EB	SW 40 St EB before SR 826	101	400	1001:17:03	100.00%
	SW40WB	SW 40 St WB before SR 826	100	399	1001:41:16	100.00%
	SW56EB	SW 56 St EB before SR 826	85	368	992:43:59	100.00%
	SW56WB	SW 56 St WB before SR 826	85	368	992:43:53	100.00%
	SW72EB	SW 72 St EB before SR 826	74	321	972:47:23	100.00%
	SW72WB	SW 72 St WB before SR 826	75	322	973:00:40	100.00%
SR 826 Arterial Subtotal			752	3014	7941:18:11	100.00%
I-195 Arterial	38	Alton Rd SB before I-195	96	490	1026:20:21	99.59%
	39	Arthur Godfrey WB before I-195	94	481	1013:55:35	99.59%
	40	Alton Rd NB before I-195	96	485	1023:00:15	99.79%
I-195 Arterial Subtotal			286	1456	3063:16:11	99.66%
US-1 in Miami-Dade County	23	US-1 NB beyond SW 17 Ave	128	520	1051:30:35	100.00%
	45	US-1 SB before SW 80 St	25	167	779:01:40	100.00%
	47	US-1 SB at Florida's Turnpike	25	168	768:21:12	100.00%
	46	US-1 NB before Killian Dr	61	293	996:40:10	100.00%
	48	US-1 NB at Florida's Turnpike	26	169	768:26:19	100.00%
US-1 in Miami-Dade County Subtotal			265	1317	4363:59:56	100.00%



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	26	187	768:02:32	100.00%
	64	US-1 NB at Mile Marker 106	19	182	788:30:46	99.27%
	66	US-1 NB at Mile Marker 91.5	29	180	681:16:33	82.63%
	68	US-1 NB at Mile Marker 39.5	31	245	875:27:57	99.96%
	71	US-1 NB at Mile Marker 7.5	24	239	807:13:59	99.95%
	61	US-1 SB at Mile Marker 126	33	188	775:45:52	99.90%
	63	US-1 SB at Mile Marker 113	33	187	781:42:52	99.79%
	65	US-1 SB at Mile Marker 106	25	161	766:21:05	96.25%
	67	US-1 SB at Mile Marker 91.5	20	125	565:07:37	72.46%
	69	US-1 SB at Mile Marker 39.5	20	162	782:36:10	99.76%
	70	US-1 SB at Mile Marker 7.5	8	141	702:40:52	99.96%
US-1 South of Florida City Subtotal			268	1997	8294:46:15	95.45%
Arterials Subtotal			3739	15694	36608:53:32	97.36%
Limited Access Facilities Subtotal			4209	15501	33433:25:54	99.26%
Grand Total			7948	31195	70042:19:26	98.20%

*DMS 15 is undergoing testing for Capital Improvement and is used periodically. Messages posted on this DMS are not computed and system availability is not measured for this device.

**Two 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, and 113 are operational and are under the Express Lanes Phase 2 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			70	18	87	37	6	7	0	21	32	6	46	95
Safety Messaging			0	0	0	0	0	0	0	0	0	0	0	0
District 6	Miami-Dade	I-95	2312	200	707	17	140	291	2114	1829	0	264	120	0
	Miami-Dade	Express Lanes	804	434	163	0	0	135	0	489	0	0	0	0
	Miami-Dade	I-195	293	0	0	0	150	122	213	0	0	259	50	0
	Miami-Dade	I-395	82	19	21	0	3	60	71	12	28	9	23	0
	Miami-Dade	MacArthur Causeway	47	5	0	0	0	21	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	110	40	1531	505	0	0	102	292	1324	0	104	0
	Miami-Dade	I-75	0	0	20	49	0	0	0	0	0	0	0	0
	Miami-Dade	US-1	14	0	0	0	0	6	8	0	8	0	20	14
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	342
	Monroe	Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	11
	Miami-Dade	SR-9	0	0	0	0	0	0	0	22	0	0	0	0
	Miami-Dade	US-27	0	0	18	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	1458	618	1658	437	324	261	850	709	1096	411	761	1523
Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0	
MDX	Miami-Dade	SR-836	173	41	318	18	32	92	111	0	502	86	69	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	533	197	0	0	157	220	386	45	0	421	100	0
	Miami-Dade	SR-874	0	0	3	0	0	0	0	0	24	0	1	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	4	0
	Miami-Dade	SR-924	0	0	20	12	0	0	0	0	0	0	0	0
District 4	Broward	I-95	65	68	72	0	0	0	251	352	0	0	0	0
	Broward	I-75	0	0	62	18	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	0	0	0	0	0	0	0	0	0	0	0	12
	Miami-Dade	Floridas Turnpike Spur	13	5	6	0	0	0	15	18	0	0	0	0
	Broward	Floridas Turnpike	0	0	0	0	0	0	0	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	51	23	0	0	0	2	0	0	0	0	13	0
Subtotal of On Route			2312	434	1531	49	150	60	2114	1829	1324	259	20	356
Subtotal of Off Route			3713	1234	3155	1044	662	1157	2007	1960	1690	1197	1297	1641
Total District 6			5190	1334	4205	1045	623	903	3358	3374	2488	949	1130	1985
Other Agencies			835	334	481	48	189	314	763	415	526	507	187	12
Total			6025	1668	4686	1093	812	1217	4121	3789	3014	1456	1317	1997

Notes: *Vehicle Alert messages are signed for entire Miami-Dade and Monroe Counties; thus, is not location-specific event.*
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

