

DMS Usage Report – August 2014

Summary of Monthly Operations

In the month of August, there were 36,307 messages posted with 7,856 DMS activations for 1,105 events. The DMS efficiency was 99.82% (1,103 of the 1,105 signable events had DMS messages posted). There was an average of 7.11 DMSs activated per each signable event and an average of 4.62 DMS messages were posted per each DMS activation. This resulted in an average of 32.86 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

- $\frac{7856 \text{ DMS Activations}}{1105 \text{ Events}} = \underline{7.11} \text{ Average DMS Activations per Event}$

An average of 7.11 DMSs were activated per each signable event

- $\frac{36307 \text{ DMS Messages}}{7856 \text{ DMS Activations}} = \underline{4.62} \text{ Average DMS Messages per Activation}$

An average of 4.62 DMS messages were posted per each DMS activation

- $7.11 \frac{\text{DMS Activations}}{\text{Events}} \times 4.62 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{32.86^*} \text{ DMS Messages per Event}$

An average of 32.86 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 Miami Tunnel	79
FDOT District 4	559
Florida's Turnpike Enterprise	225
Miami-Dade Expressway Authority	3981
Total	4844

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	22387
Other Districts' Incidents	1373
Construction	12224
Safety	0
Vehicle Alert	323
Total	36307



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	120	489	921:44:29	100.00%
	22	I-95 NB south of NW 62 St	86	352	819:48:07	99.96%
	75	I-95 NB before SR 112	248	763	1191:20:04	100.00%
	77	I-95 NB beyond SW 8 St	259	946	1235:49:18	100.00%
	2****	I-95 SB north of Ives Dairy Rd	239	946	1526:59:18	N/A****
	3****	I-95 SB north of Miami Gardens Dr	243	928	1541:40:51	N/A****
	20	I-95 SB south of NW 119 St	123	683	1161:25:44	100.00%
	21	I-95 SB south of NW 62 St	159	795	1246:20:39	100.00%
	74	I-95 SB beyond of SR 112	113	580	961:01:53	100.00%
	76	I-95 SB before Rickenbacker Cswy	25	226	768:39:15	100.00%
I-95 Mainline Subtotal			1615	6708	11374:49:38	100.00%
I-95 Express	95X40	95X NB at NW 62nd St	121	389	837:09:37	99.55%
	95X45	95X NB at NW 125th St	102	432	852:11:04	99.10%
	95XSB45	95X SB at NW 62nd St	148	653	1184:30:37	99.75%
	95XSB50	95X SB at NW 125th St	130	542	1079:31:15	99.86%
I-95 Express Subtotal			501	2016	3953:22:33	99.57%
SR 826	14	SR 826 NB beyond NW 122 St	85	433	824:14:52	100.00%
	4	SR 826 EB east of NW 67 Ave	114	549	1321:31:08	100.00%
	5	SR 826 EB east of NW 37 Ave	245	1046	1571:17:54	98.17%
	15*	SR 826 WB beyond NW 17 Ave	0	0	0:00:00	N/A*
	17	SR 826 WB beyond NW 47 Ave	83	468	1262:29:53	100.00%
	19	SR 826 WB beyond NW 67 Ave	131	535	1325:35:46	100.00%
	826NB58	SR 826 NB before NW 58 St	74	401	815:11:43	100.00%
	826SB58	SR 826 SB before NW 58 St	97	436	1144:46:39	100.00%
	826SB103	SR 826 SB before NW 103 St	112	436	1266:45:38	100.00%
	826NB1.3-LL	SR 826 NB before SW 72 St	68	312	974:41:26	100.00%
	826NB4.8-LL**	SR 826 NB at SW 24 St	109	419	996:30:17	N/A**
826SB8.8-LL**	SR 826 SB at NW 36 St	111	482	1300:38:28	N/A**	
SR 826 Subtotal			1229	5517	12803:43:44	99.80%
I-75	43	I-75 NB before Miami Gardens Dr	30	251	791:46:21	99.98%
	44	I-75 SB before Miami Gardens Dr	139	487	1209:59:09	100.00%
	42	I-75 SB ramp from NW 138 St	142	516	1208:44:34	99.95%
I-75 Subtotal			311	1254	3210:30:04	99.98%
I-195 Mainline	57	I-195 EB before North Miami Ave	30	198	795:51:02	100.00%
	105	I-195 WB before Alton Rd	140	624	1170:03:43	100.00%
I-195 Mainline Subtotal			170	822	1965:54:45	100.00%
I-395	886WB	Port Blvd WB before US-1	153	696	1076:10:18	100.00%
	104	I-395 WB at Watson Island	198	637	1051:24:43	92.15%
I-395 Subtotal			351	1333	2127:35:01	96.08%
Limited Access Facilities Subtotal			4177	17650	35435:55:45	99.59%

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	130	606	978:05:10	N/A****
	113****	Ives Dairy Rd WB before I-95	128	604	977:30:58	N/A****
	110****	Miami Gardens Dr EB before I-95	97	438	721:33:43	N/A****
	111****	Miami Gardens Dr WB before I-95	135	630	965:05:33	N/A****
	112	NW 103 St EB before I-95	193	935	1161:05:45	100.00%
	106	NW 79 St EB before I-95	191	874	1123:34:06	100.00%
	107	NW 54 St EB before I-95	207	903	1144:17:54	99.75%
	108	SW 8 St EB before I-95	114	571	824:34:52	82.09%
<i>I-95 Arterial Subtotal</i>			1195	5561	7895:48:01	95.46%
Golden Glades Interchange	6****	SR 826 WB west of NE 2nd Ave	273	1137	1623:16:18	N/A****
	7	Turnpike SB to Golden Glades	257	1113	1613:34:04	99.96%
	9	US-441 NB at TRI-Rail	79	483	868:44:40	100.00%
	10	SR 9 NB before Park & Ride	151	770	1065:22:28	100.00%
	8	US-441 SB at NW 179 St	256	1107	1585:21:13	99.21%
<i>Golden Glades Interchange Subtotal</i>			1016	4610	6756:18:43	99.79%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	99	419	957:05:42	100.00%
	SW24WB	SW 24 St WB before SR 826	98	417	956:41:38	100.00%
	SW40EB	SW 40 St EB before SR 826	85	368	945:36:06	100.00%
	SW40WB	SW 40 St WB before SR 826	86	369	945:47:47	100.00%
	SW56EB	SW 56 St EB before SR 826	73	329	936:48:39	100.00%
	SW56WB	SW 56 St WB before SR 826	73	329	936:48:40	100.00%
	SW72EB	SW 72 St EB before SR 826	56	302	928:42:28	100.00%
	SW72WB	SW 72 St WB before SR 826	62	310	929:45:14	100.00%
<i>SR 826 Arterial Subtotal</i>			632	2843	7537:16:14	100.00%
I-195 Arterial	38	Alton Rd SB before I-195	97	554	1089:56:40	99.73%
	39	Arthur Godfrey WB before I-195	95	533	1082:55:33	99.80%
	40	Alton Rd NB before I-195	96	554	1102:07:52	99.79%
<i>I-195 Arterial Subtotal</i>			288	1641	3275:00:05	99.77%
US-1 in Miami-Dade County	23*	US-1 NB beyond SW 17 Ave	126	616	1101:10:14	N/A*
	45	US-1 SB before SW 80 St	19	203	784:45:21	100.00%
	47	US-1 SB at Florida's Turnpike	26	180	792:33:06	100.00%
	46	US-1 NB before Killian Dr	43	287	955:25:10	100.00%
	48	US-1 NB at Florida's Turnpike	25	188	787:51:12	100.00%
<i>US-1 in Miami-Dade County Subtotal</i>			239	1474	4421:45:03	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	25	183	787:52:54	99.87%
	64	US-1 NB at Mile Marker 106	12	163	750:39:25	98.88%
	66	US-1 NB at Mile Marker 91.5	26	182	792:17:34	100.00%
	68	US-1 NB at Mile Marker 39.5	26	217	681:35:43	85.66%
	71	US-1 NB at Mile Marker 7.5	28	287	845:53:07	100.00%
	61	US-1 SB at Mile Marker 126	46	315	876:57:54	99.88%
	63	US-1 SB at Mile Marker 113	45	310	880:46:16	99.92%
	65	US-1 SB at Mile Marker 106	33	286	810:48:22	96.89%
	67	US-1 SB at Mile Marker 91.5	44	299	878:41:04	99.23%
	69	US-1 SB at Mile Marker 39.5	14	124	564:05:41	81.41%
	70	US-1 SB at Mile Marker 7.5	10	162	753:12:27	99.96%
US-1 South of Florida City Subtotal			309	2528	8622:50:27	96.52%
Arterials Subtotal			3679	18657	38508:58:33	98.34%
Limited Access Facilities Subtotal			4177	17650	35435:55:45	99.59%
Grand Total			7856	36307	73944:54:18	98.90%

*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			62	16	65	27	8	5	0	17	8	9	34	72
Safety Messaging			0	0	0	0	0	0	0	0	0	0	0	0
District 6	Miami-Dade	I-95	2590	384	902	13	204	324	2919	2490	0	484	124	0
	Miami-Dade	Express Lanes	768	397	191	0	0	139	0	573	0	0	1	0
	Miami-Dade	I-195	69	0	0	0	54	24	65	7	0	103	9	0
	Miami-Dade	I-395	246	64	34	0	19	131	223	0	0	55	69	0
	Miami-Dade	MacArthur Causeway	176	75	0	0	5	40	43	0	0	3	43	0
	Miami-Dade	SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-826	64	25	1853	623	0	3	79	393	1215	0	96	0
	Miami-Dade	I-75	0	0	364	83	0	0	0	0	0	0	0	0
	Miami-Dade	US-1	11	1	0	0	0	2	5	0	18	0	62	6
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	737
	Monroe	Card Sound Road	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	1624	645	1806	485	345	305	1166	800	1255	463	833	1713
Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0	
MDX	Miami-Dade	SR-836	228	50	169	6	28	106	200	8	271	81	65	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	724	282	0	0	159	253	645	27	0	443	115	0
	Miami-Dade	SR-874	0	0	22	0	0	0	0	0	76	0	9	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	0	0
Miami-Dade	SR-924	0	0	8	6	0	0	0	0	0	0	0	0	
District 4	Broward	I-95	40	43	44	0	0	0	180	210	0	0	0	0
	Broward	I-75	0	0	31	11	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	0
	Miami-Dade	Floridas Turnpike Spur	45	23	23	0	0	0	11	60	0	0	0	0
	Broward	Floridas Turnpike	5	3	5	0	0	0	25	25	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	56	8	0	0	0	1	0	0	0	0	14	0
Subtotal of On Route			2590	397	1853	83	54	131	2919	2490	1215	103	62	743
Subtotal of Off Route			4118	1619	3664	1171	768	1202	2642	2120	1628	1538	1412	1785
Total District 6			5610	1607	5215	1231	635	973	4500	4280	2496	1117	1271	2528
Other Agencies			1098	409	302	23	187	360	1061	330	347	524	203	0
Total			6708	2016	5517	1254	822	1333	5561	4610	2843	1641	1474	2528

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.



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DMS Messages by Time of Day

