

DMS Usage Report – July 2016

Summary of Monthly Operations

In the month of July, there were 30,407 messages posted with 10,531 DMS activations for 1,487 events. The DMS efficiency was 99.87% (1,485 of the 1,487 signable events had DMS messages posted) for all roadways. There was an average of 7.08 DMSs activated per each signable event and an average of 2.89 DMS messages were posted per each DMS activation. This resulted in an average of 20.45 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

- $\frac{10531 \text{ DMS Activations}}{1487 \text{ Events}} = \underline{7.08} \text{ Average DMS Activations per Event}$

An average of 7.08 DMSs were activated per each signable event

- $\frac{30407 \text{ DMS Messages}}{10531 \text{ DMS Activations}} = \underline{2.89} \text{ Average DMS Messages per Activation}$

An average of 2.89 DMS messages were posted per each DMS activation

- $7.08 \frac{\text{DMS Activations}}{\text{Events}} \times 2.89 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{20.45^*} \text{ DMS Messages per Event}$

An average of 20.45 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	70
FDOT District 4	875
Florida's Turnpike Enterprise	8
Miami-Dade Expressway Authority	2103
Total	3056

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	22218
Other Districts' Incidents	1993
Construction	4216
Safety	144
Vehicle Alert	1836
Total	30407

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	187	569	1568:05:57	100.00%
	22	I-95 NB south of NW 62 St	138	441	746:27:23	100.00%
	75	I-95 NB before SR 112	339	883	865:31:26	100.00%
	77	I-95 NB beyond SW 8 St	390	926	1005:11:05	99.95%
	2***	I-95 SB north of Ives Dairy Rd	307	708	836:35:38	N/A***
	3***	I-95 SB north of Miami Gardens Dr	278	660	832:54:37	N/A***
	095NB013.5LL***	I-95 NB north of NW 173 St	64	170	428:37:05	N/A***
	20	I-95 SB south of NW 119 St	127	370	738:03:20	100.00%
	21	I-95 SB south of NW 62 St	157	425	800:34:16	100.00%
	74	I-95 SB beyond of SR 112	162	427	872:08:31	100.00%
76	I-95 SB before Rickenbacker Cswy	35	170	652:43:29	99.96%	
I-95 Mainline Subtotal			2184	5749	9346:52:47	99.99%
I-95 Express	95X40	95X NB at NW 62nd St	202	498	787:34:36	99.75%
	95X45	95X NB at NW 125th St	205	560	863:34:19	100.00%
	95XSB45	95X SB at NW 62nd St	142	379	759:17:00	100.00%
	95XSB50	95X SB at NW 125th St	139	372	697:37:04	99.94%
	095SB014.6-EL***	95X SB at Miami Gardens Dr	220	466	268:50:04	N/A***
	095NB014.8-EL***	95X SB north of Miami Gardens Dr	60	152	285:30:09	N/A***
I-95 Express Subtotal			968	2427	3662:23:12	99.92%
SR 826	14	SR 826 NB beyond NW 122 St	98	378	697:18:29	96.96%
	4	SR 826 EB east of NW 67 Ave	115	352	736:23:45	98.38%
	5	SR 826 EB east of NW 37 Ave	336	793	883:48:01	99.49%
	15*	SR 826 WB beyond NW 17 Ave	0	0	0:00:00	N/A*
	17	SR 826 WB beyond NW 47 Ave	104	403	893:33:29	100.00%
	19	SR 826 WB beyond NW 67 Ave	134	489	985:10:52	98.79%
	826NB58	SR 826 NB before NW 58 St	107	416	690:40:36	94.64%
	826SB58	SR 826 SB before NW 58 St	105	363	944:49:31	95.64%
	826SB103****	SR 826 SB before NW 103 St	103	352	908:23:01	N/A****
	826NB1.3-LL	SR 826 NB before SW 72 St	123	351	861:19:30	98.77%
	826NB4.8-LL**	SR 826 NB at SW 24 St	113	319	625:23:20	N/A**
	826SB8.8-LL**	SR 826 SB at NW 36 St	123	399	989:31:46	N/A**
SR 826 Subtotal			1461	4615	9216:22:20	97.83%
I-75	43*	I-75 NB before Miami Gardens Dr	0	0	0:00:00	N/A*
	44*	I-75 SB before Miami Gardens Dr	0	0	0:00:00	N/A*
	42	I-75 SB ramp from NW 138 St	156	594	1308:25:30	99.48%
I-75 Subtotal			156	594	1308:25:30	99.48%
I-195 Mainline	57	I-195 EB before North Miami Ave	36	163	658:10:08	100.00%
	105	I-195 WB before Alton Rd	168	528	806:18:17	100.00%
I-195 Mainline Subtotal			204	691	1464:28:25	100.00%
I-395	886WB	Port Blvd WB before US-1	214	567	843:27:39	99.96%
	104	I-395 WB at Watson Island	390	923	961:44:13	97.31%
I-395 Subtotal			510	1238	1845:00:22	97.77%
Limited Access Facilities Subtotal			5577	15566	26803:44:06	99.16%

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	121	315	452:45:35	N/A***
	113***	Ives Dairy Rd WB before I-95	107	236	76:58:46	N/A***
	110***	Miami Gardens Dr EB before I-95	192	541	784:43:42	N/A***
	111***	Miami Gardens Dr WB before I-95	199	559	782:21:24	N/A***
	112*	NW 103 St EB before I-95	0	0	0:00:00	N/A*
	106	NW 79 St EB before I-95	203	452	214:15:18	99.15%
	107	NW 54 St EB before I-95	222	514	226:07:14	99.79%
	108	SW 8 St EB before I-95	172	371	230:27:05	99.83%
I-95 Arterial Subtotal			1216	2988	2767:39:04	99.59%
Golden Glades Interchange	6***	SR 826 WB west of NE 2nd Ave	321	770	880:19:26	N/A***
	7	Turnpike SB to Golden Glades	294	734	839:00:06	99.41%
	9	US-441 NB at TRI-Rail	86	331	708:25:08	99.96%
	10	SR 9 NB before Park & Ride	87	334	714:52:59	99.92%
	8	US-441 SB at NW 179 St	234	609	767:32:37	99.96%
Golden Glades Interchange Subtotal			1022	2778	3910:10:16	99.81%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	211	593	971:01:06	100.00%
	SW24WB	SW 24 St WB before SR 826	211	593	971:01:07	100.00%
	SW40EB	SW 40 St EB before SR 826	168	456	921:38:59	100.00%
	SW40WB	SW 40 St WB before SR 826	166	454	921:30:19	100.00%
	SW56EB	SW 56 St EB before SR 826	142	414	892:23:09	99.94%
	SW56WB	SW 56 St WB before SR 826	142	413	892:23:04	100.00%
	SW72EB	SW 72 St EB before SR 826	130	375	874:51:22	99.97%
	SW72WB	SW 72 St WB before SR 826	130	375	874:51:23	100.00%
	WFLAGLEREB**	W Flagler ST EB before SR 826	17	35	44:14:31	N/A**
	WFLAGLERWB**	W Flagler ST WB before SR 826	17	35	44:14:31	N/A**
	NW25EB**	NW 25 ST EB before SR 826	36	153	438:55:04	N/A**
	NW25WB**	NW 25 ST WB before SR 826	36	155	438:56:19	N/A**
	NW36EB**	NW 36 ST EB before SR 826	29	130	368:06:21	N/A**
	NW36WB**	NW 36 ST WB before SR 826	0	0	0:00:00	N/A**
	SW8EB**	SW 8 ST EB before SR 826	0	0	515:25:29	N/A**
	SW8WB**	SW 8 ST WB before SR 826	24	94	270:54:40	N/A**
SW88EB**	Kendall DR EB before SR 826	21	138	618:41:45	N/A**	
SW88WB**	Kendall DR WB before SR 826	0	0	0:00:00	N/A**	
SR 826 Arterial Subtotal			1480	4413	10059:09:09	99.99%
I-195 Arterial	38	Alton Rd SB before I-195	126	407	614:49:39	99.83%
	39	Arthur Godfrey WB before I-195	122	386	604:13:56	100.00%
	40	Alton Rd NB before I-195	124	396	609:20:48	99.83%
I-195 Arterial Subtotal			372	1189	1828:24:23	99.89%

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	299	733	903:36:59	100.00%
	45	US-1 SB before SW 80 St	42	176	665:16:56	99.61%
	47	US-1 SB at Florida's Turnpike	29	143	649:33:59	98.77%
	46	US-1 NB before Killian Dr	99	305	849:49:54	99.50%
	48	US-1 NB at Florida's Turnpike	31	153	659:19:23	98.77%
US-1 in Miami-Dade County Subtotal			500	1510	3727:37:11	99.33%
US-1 South of Florida City	62	US-1 NB at Mile Marker 126	30	151	654:38:53	99.96%
	64	US-1 NB at Mile Marker 106	24	119	405:42:00	80.62%
	66	US-1 NB at Mile Marker 91.5	35	181	677:12:28	99.91%
	68	US-1 NB at Mile Marker 39.5	34	191	652:24:34	97.87%
	71	US-1 NB at Mile Marker 7.5	34	244	1381:51:38	99.67%
	61	US-1 SB at Mile Marker 126	48	277	1463:44:35	100.00%
	63	US-1 SB at Mile Marker 113	37	154	473:51:31	80.61%
	65	US-1 SB at Mile Marker 106	34	157	470:56:57	80.62%
	67	US-1 SB at Mile Marker 91.5	38	184	667:43:06	99.57%
	69	US-1 SB at Mile Marker 39.5	28	168	628:55:59	97.82%
70	US-1 SB at Mile Marker 7.5	22	137	635:38:28	99.96%	
US-1 South of Florida City Subtotal			364	1963	8112:40:09	94.24%
Arterials Subtotal			4954	14841	30405:40:12	97.97%
Limited Access Facilities Subtotal			5577	15566	26803:44:06	99.16%
Grand Total			10531	30407	57209:24:18	98.47%

*DMS 15, 43, 44, 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; 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; 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		357	106	299	43	47	49	97	86	134	48	188	382	
Safety Messaging		22	10	22	2	4	4	6	10	26	6	10	22	
District 6	Miami-Dade	I-95	1,983	414	297	4	279	478	1,871	791	0	654	168	0
	Miami-Dade	Express Lanes	1,249	965	265	0	2	358	1	648	0	3	358	0
	Miami-Dade	I-195	59	0	0	0	68	35	55	0	0	169	3	0
	Miami-Dade	I-395	29	9	0	0	0	73	10	0	0	0	3	0
	Miami-Dade	MacArthur Causeway	14	4	0	0	0	6	0	0	0	4	0	0
	Miami-Dade	SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-826	240	161	2,127	386	0	0	243	487	2,626	0	143	0
	Miami-Dade	I-75	0	0	96	44	0	0	0	0	0	0	0	0
	Miami-Dade	US-1	29	7	0	0	7	11	26	0	77	12	41	0
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	397
	Monroe	Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	27
	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	1	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	1,142	469	981	101	216	206	250	511	1,116	210	524	1,120
Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	8	
MDX	Miami-Dade	SR-836	341	47	365	0	28	258	148	0	366	39	46	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	110	48	0	0	40	12	65	0	0	48	6	0
	Miami-Dade	SR-874	0	0	16	0	0	0	0	0	68	0	7	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	2	0
	Miami-Dade	SR-924	0	0	29	14	0	0	0	0	0	0	0	0
District 4	Broward	I-95	93	113	58	0	0	0	195	220	0	0	0	0
	Broward	Express Lanes	53	60	26	0	0	0	0	23	0	0	0	0
	Broward	I-75	0	0	34	0	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	1	0	0	0	7	0
	Miami-Dade	Floridas Turnpike Spur	0	0	0	0	0	0	0	0	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	28	14	0	0	0	0	21	0	0	7	0	
Subtotal of On Route		1,983	965	2,127	44	68	73	1,871	791	2,626	169	41	397	
Subtotal of Off Route		3,766	1,462	2,488	550	623	1,417	1,117	1,987	1,787	1,020	1,469	1,566	
Total District 6		5,124	2,145	4,087	580	623	1,220	2,559	2,534	3,979	1,102	1,442	1,956	
Other Agencies		625	282	528	14	68	270	429	244	434	87	68	7	
Total		5,749	2,427	4,615	594	691	1,490	2,988	2,778	4,413	1,189	1,510	1,963	

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

