

DMS Usage Report – November 2016

Summary of Monthly Operations

In the month of October, there were 37,793 messages posted with 10,064 DMS activations for 1,474 events. The DMS efficiency was 99.93% (1,473 of the 1,474 signable events had DMS messages posted) for all roadways. There was an average of 6.83 DMSs activated per each signable event and an average of 3.76 DMS messages were posted per each DMS activation. This resulted in an average of 25.64 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

- $$\frac{10064 \text{ DMS Activations}}{1474 \text{ Events}} = \underline{\mathbf{6.83}} \text{ Average DMS Activations per Event}$$

An average of 6.83 DMSs were activated per each signable event

- $$\frac{37793 \text{ DMS Messages}}{10064 \text{ DMS Activations}} = \underline{\mathbf{3.76}} \text{ Average DMS Messages per Activation}$$

An average of 3.76 DMS messages were posted per each DMS activation

- $$6.83 \frac{\text{DMS Activations}}{\text{Events}} \times 3.76 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{\mathbf{25.64^*}} \text{ DMS Messages per Event}$$

An average of 25.64 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	79
FDOT District 4	1393
Florida's Turnpike Enterprise	0
Miami-Dade Expressway Authority	1457
Total	2929

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	15441
Other Districts' Incidents	2143
Construction	6050
Safety	12443
Vehicle Alert	1716
Total	37793



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	201	771	1817:38:54	100.00%
	22	I-95 NB south of NW 62 St	137	538	1027:01:08	98.21%
	75	I-95 NB before SR 112	309	865	1094:24:29	100.00%
	77	I-95 NB beyond SW 8 St	356	954	1263:20:13	100.00%
	2***	I-95 SB north of Ives Dairy Rd	224	700	1166:55:31	N/A***
	3***	I-95 SB north of Miami Gardens Dr	227	781	1179:41:37	N/A***
	095NB013.5LL***	I-95 NB north of NW 173 St	110	441	875:38:30	N/A***
	20	I-95 SB south of NW 119 St	101	440	805:50:04	100.00%
	21	I-95 SB south of NW 62 St	130	545	914:13:16	100.00%
	74	I-95 SB beyond of SR 112	159	651	1054:37:27	99.84%
76	I-95 SB before Rickenbacker Cswy	44	301	749:23:05	100.00%	
I-95 Mainline Subtotal			1998	6987	11948:44:14	99.76%
I-95 Express	95X40	95X NB at NW 62nd St	161	486	1020:55:10	99.79%
	95X45	95X NB at NW 125th St	197	650	1117:23:41	100.00%
	95XSB45	95X SB at NW 62nd St	92	438	837:48:38	99.77%
	95XSB50	95X SB at NW 125th St	95	397	824:41:38	100.00%
	095SB014.6-EL***	95X SB at Miami Gardens Dr	211	686	1158:05:20	N/A***
	095NB014.8-EL***	95X SB north of Miami Gardens Dr	93	390	836:48:40	N/A***
I-95 Express Subtotal			849	3047	5795:43:07	99.89%
SR 826	4	SR 826 EB east of NW 67 Ave	95	430	998:13:21	100.00%
	5	SR 826 EB east of NW 37 Ave	262	815	1157:50:21	100.00%
	14****	SR 826 NB beyond NW 122 St	114	566	930:40:07	N/A****
	15*	SR 826 WB beyond NW 17 Ave	0	0	0:00:00	N/A*
	17	SR 826 WB beyond NW 47 Ave	118	588	998:30:24	100.00%
	19	SR 826 WB beyond NW 67 Ave	133	714	1018:22:15	99.36%
	826NB58	SR 826 NB before NW 58 St	63	230	406:45:16	59.79%
	826SB103****	SR 826 SB before NW 103 St	74	358	779:00:27	N/A****
	826SB58	SR 826 SB before NW 58 St	62	282	712:26:26	100.00%
	826NB1.3-LL	SR 826 NB before SW 72 St	50	250	716:24:38	100.00%
	826NB4.8-LL**	SR 826 NB at SW 24 St	190	506	1169:04:10	N/A**
826SB8.8-LL**	SR 826 SB at NW 36 St	162	456	1044:04:09	N/A**	
SR 826 Subtotal			1323	5195	9931:21:34	94.16%
I-75	43	I-75 NB before Miami Gardens Dr	35	323	1506:51:42	100.00%
	44	I-75 SB before Miami Gardens Dr	161	758	1131:58:05	97.97%
	42	I-75 SB ramp from NW 138 St	185	827	1215:48:02	100.00%
I-75 Subtotal			381	1908	3854:37:49	99.32%
I-195 Mainline	57	I-195 EB before North Miami Ave	38	218	737:30:31	100.00%
	105	I-195 WB before Alton Rd	123	466	808:49:11	100.00%
I-195 Mainline Subtotal			161	684	1546:19:42	100.00%
I-395	886WB	Port Blvd WB before US-1	205	607	905:53:30	98.24%
	104	I-395 WB at Watson Island	325	763	1001:53:35	94.92%
I-395 Subtotal			530	1370	1907:47:05	96.58%
Limited Access Facilities Subtotal			5242	19191	34984:33:31	98.00%

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	508	812:34:20	N/A***
	113***	Ives Dairy Rd WB before I-95	0	0	0:00:00	N/A***
	110***	Miami Gardens Dr EB before I-95	179	560	876:55:02	N/A***
	111	Miami Gardens Dr WB before I-95	188	628	904:08:31	99.32%
	112*	NW 103 St EB before I-95	0	0	0:00:00	N/A*
	106	NW 79 St EB before I-95	184	582	443:13:17	99.58%
	107	NW 54 St EB before I-95	200	594	445:52:14	98.21%
	108	SW 8 St EB before I-95	139	407	450:07:47	99.34%
I-95 Arterial Subtotal			1047	3279	3932:51:11	99.11%
Golden Glades Interchange	6	SR 826 WB west of NE 2nd Ave	291	924	1182:34:05	100.00%
	7	Turnpike SB to Golden Glades	242	821	1065:13:24	100.00%
	9	US-441 NB at TRI-Rail	117	496	934:24:24	99.96%
	10	SR 9 NB before Park & Ride	115	497	920:00:14	96.74%
	8	US-441 SB at NW 179 St	193	709	1115:13:14	99.61%
Golden Glades Interchange Subtotal			958	3447	5217:25:21	99.26%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	119	394	872:09:11	100.00%
	SW24WB	SW 24 St WB before SR 826	119	393	872:09:13	100.00%
	SW40EB	SW 40 St EB before SR 826	81	338	746:46:49	100.00%
	SW40WB	SW 40 St WB before SR 826	82	337	746:26:50	100.00%
	SW56EB	SW 56 St EB before SR 826	70	307	741:13:36	100.00%
	SW56WB	SW 56 St WB before SR 826	70	307	741:13:44	100.00%
	SW72EB	SW 72 St EB before SR 826	67	305	740:32:09	100.00%
	SW72WB	SW 72 St WB before SR 826	67	305	740:32:17	100.00%
	WFLAGLEREB**	W Flagler ST EB before SR 826	115	383	819:46:03	N/A**
	WFLAGLERWB**	W Flagler ST WB before SR 826	115	384	830:27:58	N/A**
	NW25EB**	NW 25 ST EB before SR 826	152	503	908:46:55	N/A**
	NW25WB**	NW 25 ST WB before SR 826	152	503	908:46:40	N/A**
	NW36EB**	NW 36 ST EB before SR 826	139	486	902:31:18	N/A**
	NW36WB**	NW 36 ST WB before SR 826	139	486	902:31:21	N/A**
	SW8EB**	SW 8 ST EB before SR 826	123	429	768:40:51	N/A**
	SW8WB**	SW 8 ST WB before SR 826	100	310	571:56:10	N/A**
SW88EB**	Kendall DR EB before SR 826	52	265	708:55:15	N/A**	
SW88WB**	Kendall DR WB before SR 826	52	262	702:32:11	N/A**	
SR 826 Arterial Subtotal			1814	6697	14225:58:31	100.00%
I-195 Arterial	38	Alton Rd SB before I-195	90	373	768:36:12	100.00%
	39	Arthur Godfrey WB before I-195	90	369	763:25:34	99.78%
	40	Alton Rd NB before I-195	90	368	768:33:17	100.00%
I-195 Arterial Subtotal			270	1110	2300:35:03	99.93%

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	245	614	948:42:53	100.00%
	45	US-1 SB before SW 80 St	47	308	754:23:54	99.32%
	47	US-1 SB at Florida's Turnpike	24	202	717:25:18	99.19%
	46	US-1 NB before Killian Dr	53	289	768:06:30	99.83%
	48	US-1 NB at Florida's Turnpike	32	260	737:18:53	99.19%
US-1 in Miami-Dade County Subtotal			401	1673	3925:57:28	99.51%
US-1 South of Florida City	62	US-1 NB at Mile Marker 126	29	199	718:36:41	98.96%
	64	US-1 NB at Mile Marker 106	34	237	1560:26:16	100.00%
	66	US-1 NB at Mile Marker 91.5	31	210	702:09:41	87.64%
	68	US-1 NB at Mile Marker 39.5	41	260	877:23:09	100.00%
	71	US-1 NB at Mile Marker 7.5	45	293	1567:45:48	99.42%
	61	US-1 SB at Mile Marker 126	34	239	1394:22:57	99.21%
	63	US-1 SB at Mile Marker 113	30	218	751:32:50	100.00%
	65	US-1 SB at Mile Marker 106	29	219	751:30:20	100.00%
	67	US-1 SB at Mile Marker 91.5	22	192	645:52:46	87.50%
	69	US-1 SB at Mile Marker 39.5	18	159	645:07:27	92.83%
70	US-1 SB at Mile Marker 7.5	19	170	711:49:07	99.41%	
US-1 South of Florida City Subtotal			332	2396	10326:37:02	96.82%
Arterials Subtotal			4822	18602	39929:24:36	98.75%
Limited Access Facilities Subtotal			5242	19191	34984:33:31	98.00%
Grand Total			10064	37793	74913:58:07	98.43%

*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; system availability is not measured for these devices.

*** DMS 2, 3, 109, 110, 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 14 and 826SBNW103ST01 are under the SR-826/I-75 Express Lanes 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	I-395	I-95 Arterial	Golden Glades	SR 826 Arterial	I-195 Arterial	US-1 in Miami-Dade County	US-1 South of Florida City
Vehicle Alert*		274	121	235	81	43	43	75	96	316	30	131	271
Safety Messaging*		2,028	1,129	1,546	435	294	269	630	852	2,552	439	726	1,543
District 6	Miami-Dade I-95	2,223	466	279	6	221	417	1,764	825	16	502	139	0
	Miami-Dade Express Lanes	863	726	191	0	0	217	5	541	0	0	241	0
	Miami-Dade I-195	131	0	3	0	48	13	97	3	8	37	3	0
	Miami-Dade I-395	70	13	0	0	4	79	36	0	0	3	15	0
	Miami-Dade MacArthur Cswy	172	35	0	0	17	49	69	0	68	51	18	0
	Miami-Dade SR-886/ Port Blvd	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade SR 826	342	205	2,055	1,127	0	0	204	744	3,221	0	63	0
	Miami-Dade I-75	0	0	245	133	0	0	0	0	14	0	0	0
	Miami-Dade US-1	56	5	0	0	0	12	28	0	151	0	255	28
	Monroe US-1	0	0	0	0	0	0	0	0	0	0	0	414
	Monroe Card Sound Rd	0	0	0	0	0	0	0	0	0	0	0	22
	Miami-Dade SR-997/ Krome Ave	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	145	30	57	56	23	13	45	30	90	36	54	118
Monroe OTHER	0	0	0	0	0	0	0	0	0	0	0	0	
MDX	Miami-Dade SR 836	270	1	388	0	1	252	14	0	171	0	2	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	85	33	0	0	33	6	31	0	0	12	0	0
	Miami-Dade SR 874	0	0	6	0	0	0	0	0	90	0	18	0
	Miami-Dade SR 878	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade SR 924	0	0	22	22	0	0	0	0	0	0	0	0
District 4	Broward I-95	180	161	73	0	0	0	258	305	0	0	0	0
	Broward Express Lanes	116	106	51	0	0	0	0	51	0	0	0	0
	Broward I-75	0	0	44	48	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
Port	Miami-Dade Port Miami Tunnel	32	16	0	0	0	0	23	0	0	0	8	0
Subtotal of On Route		2,223	726	2,055	133	48	79	1,764	825	3,221	37	255	414
Subtotal of Off Route		4,764	2,321	3,140	1,775	636	1,291	1,515	2,622	3,476	1,073	1,418	1,982
Total District 6		6,304	2,730	4,611	1,838	650	1,112	2,953	3,091	6,436	1,098	1,645	2,396
Other Agencies		683	317	584	70	34	258	326	356	261	12	28	0
Total		6,987	3,047	5,195	1,908	684	1,370	3,279	3,447	6,697	1,110	1,673	2,396

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.

