

DMS Usage Report – January 2017

Summary of Monthly Operations

In the month of January, there were 39,747 messages posted with 10,458 DMS activations for 1,415 events. The DMS efficiency was 99.93% (1,414 of the 1,415 signable events had DMS messages posted) for all roadways. There was an average of 7.39 DMSs activated per each signable event and an average of 3.80 DMS messages were posted per each DMS activation. This resulted in an average of 28.09 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

- $$\frac{10458 \text{ DMS Activations}}{1415 \text{ Events}} = \underline{\mathbf{7.39}} \text{ Average DMS Activations per Event}$$

An average of 7.39 DMSs were activated per each signable event

- $$\frac{39747 \text{ DMS Messages}}{10458 \text{ DMS Activations}} = \underline{\mathbf{3.80}} \text{ Average DMS Messages per Activation}$$

An average of 3.80 DMS messages were posted per each DMS activation

- $$7.39 \frac{\text{DMS Activations}}{\text{Events}} \times 3.80 \frac{\text{DMS Messages}}{\text{DMS Activation}} = \underline{\mathbf{28.09^*}} \text{ DMS Messages per Event}$$

An average of 28.09 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	60
FDOT District 4	1036
Florida's Turnpike Enterprise	3
Miami-Dade Expressway Authority	1522
Total	2621

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	16820
Other Districts' Incidents	2366
Construction	4810
Safety	13893
Vehicle Alert	1858
Total	39747



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	210	801	2289:24:27	100.00%
	22	I-95 NB south of NW 62 St	132	625	1313:27:30	99.61%
	75	I-95 NB before SR 112	276	932	1385:32:12	99.76%
	77	I-95 NB beyond SW 8 St	314	1005	1541:31:48	99.58%
	2***	I-95 SB north of Ives Dairy Rd	257	830	1507:31:42	N/A***
	3***	I-95 SB north of Miami Gardens Dr	264	930	1544:25:28	N/A***
	095NB013.5LL***	I-95 NB north of NW 173 St	116	452	1303:49:26	N/A***
	20	I-95 SB south of NW 119 St	113	433	917:02:18	100.00%
	21	I-95 SB south of NW 62 St	121	582	1391:02:45	99.67%
	74	I-95 SB beyond of SR 112	172	747	1523:53:49	99.56%
	76	I-95 SB before Rickenbacker Cswy	58	370	893:01:38	99.85%
I-95 Mainline Subtotal			2033	7707	15610:43:03	99.75%
I-95 Express	95X40	95X NB at NW 62nd St	181	590	1353:36:40	99.89%
	95X45	95X NB at NW 125th St	217	732	1532:02:54	99.78%
	95XSB45	95X SB at NW 62nd St	108	522	1388:51:17	100.00%
	95XSB50	95X SB at NW 125th St	107	462	1290:43:23	100.00%
	095SB014.6-EL***	95X SB at Miami Gardens Dr	235	798	1482:55:06	N/A***
	095NB014.8-EL***	95X SB north of Miami Gardens Dr	97	411	1290:53:28	N/A***
I-95 Express Subtotal			945	3515	8339:02:48	99.92%
SR 826	4	SR 826 EB east of NW 67 Ave	110	459	977:04:34	99.11%
	5	SR 826 EB east of NW 37 Ave	285	894	1431:10:13	98.75%
	14****	SR 826 NB beyond NW 122 St	115	526	1105:05:45	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	119	617	1515:09:04	99.67%
	19	SR 826 WB beyond NW 67 Ave	140	686	1535:15:10	98.65%
	826NB58	SR 826 NB before NW 58 St	110	426	1155:37:14	99.75%
	826SB103****	SR 826 SB before NW 103 St	0	0	0:00:00	N/A****
	826SB58	SR 826 SB before NW 58 St	79	328	821:49:16	94.53%
	826NB1.3-LL	SR 826 NB before SW 72 St	68	285	1106:33:15	100.00%
	826NB4.8-LL**	SR 826 NB at SW 24 St	182	473	1350:09:18	N/A**
	826SB8.8-LL**	SR 826 SB at NW 36 St	169	458	1078:50:09	N/A**
SR 826 Subtotal			1377	5152	12076:43:58	98.64%
I-75	43	I-75 NB before Miami Gardens Dr	50	301	1575:48:10	99.17%
	44	I-75 SB before Miami Gardens Dr	173	719	1405:34:42	99.14%
	42	I-75 SB ramp from NW 138 St	184	800	1447:13:08	100.00%
I-75 Subtotal			407	1820	4428:36:00	99.44%
I-195 Mainline	57	I-195 EB before North Miami Ave	49	258	861:50:02	100.00%
	105	I-195 WB before Alton Rd	117	547	967:24:22	100.00%
I-195 Mainline Subtotal			166	805	1829:14:24	100.00%
I-395	886WB	Port Blvd WB before US-1	182	663	939:05:36	96.54%
	104	I-395 WB at Watson Island	302	842	1036:52:36	97.69%
I-395 Subtotal			484	1505	1975:58:12	97.12%
Limited Access Facilities Subtotal			5412	20504	44260:18:25	99.26%

we need to start measuring section 5

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	183	615	1011:21:00	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	141	487	741:48:27	N/A***
	111	Miami Gardens Dr WB before I-95	204	744	1085:42:54	99.92%
	112*	NW 103 St EB before I-95	0	0	0:00:00	N/A*
	106	NW 79 St EB before I-95	150	581	726:13:54	99.24%
	107	NW 54 St EB before I-95	174	668	743:03:11	98.89%
	108	SW 8 St EB before I-95	120	489	773:58:09	100.00%
I-95 Arterial Subtotal			972	3584	5082:07:35	99.51%
Golden Glades Interchange	6	SR 826 WB west of NE 2nd Ave	322	1085	1607:07:56	100.00%
	7	Turnpike SB to Golden Glades	286	1026	1502:03:34	99.54%
	9	US-441 NB at TRI-Rail	131	563	1046:40:02	100.00%
	10	SR 9 NB before Park & Ride	130	561	1040:31:47	98.80%
	8	US-441 SB at NW 179 St	235	905	1515:42:05	100.00%
Golden Glades Interchange Subtotal			1104	4140	6712:05:24	99.67%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	125	429	1149:20:26	100.00%
	SW24WB	SW 24 St WB before SR 826	125	429	1149:20:31	100.00%
	SW40EB	SW 40 St EB before SR 826	91	345	865:46:51	100.00%
	SW40WB	SW 40 St WB before SR 826	90	344	865:44:49	100.00%
	SW56EB	SW 56 St EB before SR 826	77	307	859:01:56	100.00%
	SW56WB	SW 56 St WB before SR 826	77	302	854:02:14	99.42%
	SW72EB	SW 72 St EB before SR 826	67	290	845:32:16	99.96%
	SW72WB	SW 72 St WB before SR 826	67	290	845:32:24	100.00%
	WFLAGLEREB**	W Flagler ST EB before SR 826	127	390	946:21:00	N/A**
	WFLAGLERWB**	W Flagler ST WB before SR 826	127	390	946:20:48	N/A**
	NW25EB**	NW 25 ST EB before SR 826	144	447	917:00:35	N/A**
	NW25WB**	NW 25 ST WB before SR 826	145	448	917:11:47	N/A**
	NW36EB**	NW 36 ST EB before SR 826	136	427	913:47:39	N/A**
	NW36WB**	NW 36 ST WB before SR 826	136	431	914:51:58	N/A**
	SW8EB**	SW 8 ST EB before SR 826	125	374	946:36:16	N/A**
	SW8WB**	SW 8 ST WB before SR 826	124	367	938:34:14	N/A**
	SW88EB**	Kendall DR EB before SR 826	47	211	625:59:56	N/A**
	SW88WB**	Kendall DR WB before SR 826	47	211	625:59:49	N/A**
SR 826 Arterial Subtotal			1877	6432	16127:05:29	99.92%
I-195 Arterial	38	Alton Rd SB before I-195	78	346	802:19:16	99.69%
	39	Arthur Godfrey WB before I-195	75	339	801:40:22	99.69%
	40	Alton Rd NB before I-195	78	349	787:37:21	99.07%
I-195 Arterial Subtotal			231	1034	2391:36:59	99.48%

*no need to
start measuring
availability of
section 5 DMS*

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	224	646	1041:00:30	100.00%
	45	US-1 SB before SW 80 St	51	249	868:52:07	100.00%
	47	US-1 SB at Florida's Turnpike	37	215	845:54:55	99.95%
	46	US-1 NB before Killian Dr	63	279	886:33:39	100.00%
	48	US-1 NB at Florida's Turnpike	43	227	849:33:02	99.81%
US-1 in Miami-Dade County Subtotal			418	1616	4491:54:13	99.95%
US-1 South of Florida City	62	US-1 NB at Mile Marker 126	38	214	753:59:25	93.43%
	64	US-1 NB at Mile Marker 106	37	196	1040:47:30	89.83%
	66	US-1 NB at Mile Marker 91.5	39	204	784:01:35	92.56%
	68	US-1 NB at Mile Marker 39.5	49	233	837:11:32	99.58%
	71	US-1 NB at Mile Marker 7.5	48	275	1561:04:13	99.89%
	61	US-1 SB at Mile Marker 126	50	292	1514:28:35	98.75%
	63	US-1 SB at Mile Marker 113	43	229	790:19:02	94.43%
	65	US-1 SB at Mile Marker 106	42	218	751:48:48	89.80%
	67	US-1 SB at Mile Marker 91.5	38	209	781:59:08	92.56%
	69	US-1 SB at Mile Marker 39.5	36	216	841:21:55	99.82%
	70	US-1 SB at Mile Marker 7.5	24	151	576:23:44	79.03%
US-1 South of Florida City Subtotal			444	2437	10233:25:27	93.61%
Arterials Subtotal			5046	19243	45038:15:07	97.88%
Limited Access Facilities Subtotal			5412	20504	44260:18:25	99.26%
Grand Total			10458	39747	89298:33:32	98.46%

*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 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			306	120	261	100	49	47	76	112	226	81	156	324
Safety Messaging			2,453	1,391	1,684	521	330	311	758	1,015	2,454	393	823	1,760
District 6	Miami-Dade	I-95	2,251	452	283	21	244	430	1,741	827	16	344	140	0
	Miami-Dade	Express Lanes	908	774	247	0	1	215	15	704	0	3	224	0
	Miami-Dade	I-195	111	0	0	0	53	22	76	0	0	36	4	0
	Miami-Dade	I-395	102	20	0	0	2	62	42	0	4	9	29	0
	Miami-Dade	MacArthur Causeway	109	15	0	0	19	37	6	0	0	43	19	0
	Miami-Dade	SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-826	555	358	2,012	859	0	0	465	1,123	3,338	7	38	0
	Miami-Dade	I-75	0	0	90	221	0	0	0	0	0	0	0	0
	Miami-Dade	US-1	77	1	0	0	1	34	46	0	86	0	91	20
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	2	217
	Monroe	Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	14
	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	18	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	165	116	180	45	46	36	53	52	162	27	49	71
	Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	9	31
MDX	Miami-Dade	SR-836	300	6	238	0	4	298	26	0	80	3	7	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	130	46	0	0	56	13	83	0	0	88	6	0
	Miami-Dade	SR-874	1	0	9	0	0	0	1	0	66	0	11	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	2	0
	Miami-Dade	SR-924	0	0	24	24	0	0	0	0	0	0	0	0
District 4	Broward	I-95	125	115	63	0	0	0	175	233	0	0	0	0
	Broward	Express Lanes	88	87	39	0	0	0	0	49	0	0	0	0
	Broward	I-75	0	0	21	29	0	0	0	0	0	0	0	0
	Broward	I-595	2	2	1	0	0	0	3	4	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	3	0	0	0	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	24	12	0	0	0	0	18	0	0	0	6	0
Subtotal of On Route			2,251	774	2,012	221	53	62	1,741	827	3,338	36	91	217
Subtotal of Off Route			5,456	2,741	3,140	1,599	752	1,443	1,843	3,313	3,094	998	1,525	2,220
Total District 6			7,037	3,247	4,757	1,767	745	1,194	3,278	3,851	6,286	943	1,584	2,437
Other Agencies			670	268	395	53	60	311	306	289	146	91	32	0
Total			7,707	3,515	5,152	1,820	805	1,505	3,584	4,140	6,432	1,034	1,616	2,437

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

