

DMS Usage Report – February 2017

Summary of Monthly Operations

In the month of February, there were 36,970 messages posted with 9,911 DMS activations for 1,346 events. The DMS efficiency was 100.00% (1,346 of the 1,346 signable events had DMS messages posted) for all roadways. There was an average of 7.36 DMSs activated per each signable event and an average of 3.73 DMS messages were posted per each DMS activation. This resulted in an average of 27.47 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

- $$\frac{9911 \text{ DMS Activations}}{1346 \text{ Events}} = \underline{\underline{7.36}} \text{ Average DMS Activations per Event}$$

An average of 7.36 DMSs were activated per each signable event

- $$\frac{36970 \text{ DMS Messages}}{9911 \text{ DMS Activations}} = \underline{\underline{3.73}} \text{ Average DMS Messages per Activation}$$

An average of 3.73 DMS messages were posted per each DMS activation

- $$7.36 \frac{\text{DMS Activations}}{\text{Events}} \times 3.73 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{\underline{27.47^*}} \text{ DMS Messages per Event}$$

An average of 27.47 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	120
FDOT District 4	982
Florida's Turnpike Enterprise	21
Miami-Dade Expressway Authority	1513
Total	2636

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	14915
Other Districts' Incidents	1973
Construction	7166
Safety	10967
Vehicle Alert	1949
Total	36970

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	184	696	2275:07:55	100.00%
	22	I-95 NB south of NW 62 St	125	535	1343:36:09	99.29%
	75	I-95 NB before SR 112	243	812	1415:00:58	99.23%
	77	I-95 NB beyond SW 8 St	288	932	1316:38:24	99.18%
	2***	I-95 SB north of Ives Dairy Rd	70	201	491:29:32	N/A***
	3***	I-95 SB north of Miami Gardens Dr	247	842	1642:55:28	N/A***
	095NB013.5LL***	I-95 NB north of NW 173 St	83	308	767:59:01	N/A***
	20	I-95 SB south of NW 119 St	117	411	1090:37:24	99.96%
	21	I-95 SB south of NW 62 St	116	456	1072:50:35	100.00%
	74	I-95 SB beyond of SR 112	149	627	1155:10:41	99.63%
	76	I-95 SB before Rickenbacker Cswy	52	352	740:47:09	100.00%
I-95 Mainline Subtotal			1674	6172	13312:13:16	99.66%
I-95 Express	95X40	95X NB at NW 62nd St	150	516	1047:17:29	99.84%
	95X45	95X NB at NW 125th St	174	664	1628:09:02	99.94%
	95XSB45	95X SB at NW 62nd St	93	401	1029:31:46	100.00%
	95XSB50	95X SB at NW 125th St	95	398	974:28:07	99.96%
	095SB014.6-EL***	95X SB at Miami Gardens Dr	219	726	1596:53:45	N/A***
	095NB014.8-EL***	95X SB north of Miami Gardens Dr	85	339	965:56:01	N/A***
I-95 Express Subtotal			816	3044	7242:16:10	99.94%
SR 826	4	SR 826 EB east of NW 67 Ave	93	344	908:44:48	98.78%
	5	SR 826 EB east of NW 37 Ave	251	759	1086:35:13	98.80%
	14****	SR 826 NB beyond NW 122 St	58	260	550:03:57	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	121	547	1445:03:44	99.09%
	19	SR 826 WB beyond NW 67 Ave	135	599	1416:44:48	97.31%
	826NB58	SR 826 NB before NW 58 St	120	442	989:15:00	99.05%
	826SB103****	SR 826 SB before NW 103 St	0	0	0:00:00	N/A****
	826SB58	SR 826 SB before NW 58 St	68	320	766:45:35	99.10%
	826NB1.3-LL	SR 826 NB before SW 72 St	85	316	933:30:20	100.00%
	826NB4.8-LL**	SR 826 NB at SW 24 St	195	586	1169:15:16	N/A**
	826SB8.8-LL**	SR 826 SB at NW 36 St	136	403	834:50:43	N/A**
SR 826 Subtotal			1262	4576	10100:49:24	98.88%
I-75	43	I-75 NB before Miami Gardens Dr	46	230	1415:56:27	99.77%
	44	I-75 SB before Miami Gardens Dr	160	672	1362:23:32	99.07%
	42	I-75 SB ramp from NW 138 St	172	709	1432:26:23	100.00%
I-75 Subtotal			378	1611	4210:46:22	99.61%
I-195 Mainline	57	I-195 EB before North Miami Ave	38	189	704:42:20	100.00%
	105	I-195 WB before Alton Rd	103	402	747:46:25	99.59%
I-195 Mainline Subtotal			141	591	1452:28:45	99.80%
I-395	886WB	Port Blvd WB before US-1	167	583	781:03:05	97.12%
	104	I-395 WB at Watson Island	282	863	857:21:28	96.48%
I-395 Subtotal			449	1446	1638:24:33	96.80%
Limited Access Facilities Subtotal			4720	17440	37956:58:30	99.28%

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	165	534	848:53:56	99.63%
	113	Ives Dairy Rd WB before I-95	72	273	338:23:04	50.13%
	110	Miami Gardens Dr EB before I-95	93	323	606:48:19	48.31%
	111	Miami Gardens Dr WB before I-95	167	570	1232:02:21	93.74%
	112*	NW 103 St EB before I-95	0	0	0:00:00	N/A*
	106	NW 79 St EB before I-95	140	509	859:53:38	98.79%
	107	NW 54 St EB before I-95	157	542	567:14:57	99.28%
	108	SW 8 St EB before I-95	110	496	575:49:33	100.00%
I-95 Arterial Subtotal			904	3247	5029:05:48	84.27%
Golden Glades Interchange	6	SR 826 WB west of NE 2nd Ave	285	952	1637:24:53	99.96%
	7	Turnpike SB to Golden Glades	263	906	1651:46:32	99.62%
	9	US-441 NB at TRI-Rail	109	454	1126:27:58	91.67%
	10	SR 9 NB before Park & Ride	115	500	1276:56:35	99.49%
	8	US-441 SB at NW 179 St	213	772	1590:39:22	99.90%
Golden Glades Interchange Subtotal			985	3584	7283:15:20	98.13%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	158	522	1060:22:14	100.00%
	SW24WB	SW 24 St WB before SR 826	159	522	1060:28:31	100.00%
	SW40EB	SW 40 St EB before SR 826	116	427	972:59:49	100.00%
	SW40WB	SW 40 St WB before SR 826	115	425	968:39:37	99.80%
	SW56EB	SW 56 St EB before SR 826	99	372	954:50:29	100.00%
	SW56WB	SW 56 St WB before SR 826	99	372	954:50:34	100.00%
	SW72EB	SW 72 St EB before SR 826	90	339	938:06:56	100.00%
	SW72WB	SW 72 St WB before SR 826	90	338	935:20:51	99.80%
	WFLAGLEREB**	W Flagler ST EB before SR 826	154	501	988:01:14	N/A**
	WFLAGLERWB**	W Flagler ST WB before SR 826	155	507	986:43:18	N/A**
	NW25EB**	NW 25 ST EB before SR 826	111	410	586:17:56	N/A**
	NW25WB**	NW 25 ST WB before SR 826	153	513	899:09:41	N/A**
	NW36EB**	NW 36 ST EB before SR 826	164	551	980:48:30	N/A**
	NW36WB**	NW 36 ST WB before SR 826	151	522	893:36:49	N/A**
	SW8EB**	SW 8 ST EB before SR 826	153	514	989:00:57	N/A**
	SW8WB**	SW 8 ST WB before SR 826	148	495	983:36:06	N/A**
	SW88EB**	Kendall DR EB before SR 826	65	261	803:51:25	N/A**
	SW88WB**	Kendall DR WB before SR 826	65	261	803:51:25	N/A**
SR 826 Arterial Subtotal			2245	7852	16760:36:22	99.95%
I-195 Arterial	38	Alton Rd SB before I-195	80	341	714:09:37	99.96%
	39	Arthur Godfrey WB before I-195	78	339	709:24:29	99.67%
	40	Alton Rd NB before I-195	79	338	716:28:15	98.87%
I-195 Arterial Subtotal			237	1018	2140:02:21	99.50%

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	200	623	953:13:21	100.00%
	45	US-1 SB before SW 80 St	45	197	719:46:14	100.00%
	47	US-1 SB at Florida's Turnpike	32	160	697:03:52	100.00%
	46	US-1 NB before Killian Dr	63	254	761:43:00	100.00%
	48	US-1 NB at Florida's Turnpike	40	202	719:26:58	100.00%
US-1 in Miami-Dade County Subtotal			380	1436	3851:13:25	100.00%
US-1 South of Florida City	62	US-1 NB at Mile Marker 126	33	166	696:21:27	99.88%
	64	US-1 NB at Mile Marker 106	45	218	1437:54:28	99.85%
	66	US-1 NB at Mile Marker 91.5	44	212	761:39:16	100.00%
	68	US-1 NB at Mile Marker 39.5	47	240	710:33:09	94.79%
	71	US-1 NB at Mile Marker 7.5	47	261	1372:46:40	95.04%
	61	US-1 SB at Mile Marker 126	57	359	1478:11:01	99.47%
	63	US-1 SB at Mile Marker 113	37	215	706:33:22	100.00%
	65	US-1 SB at Mile Marker 106	38	218	716:15:41	99.96%
	67	US-1 SB at Mile Marker 91.5	36	212	706:20:55	100.00%
	69	US-1 SB at Mile Marker 39.5	29	148	646:10:42	94.99%
	70	US-1 SB at Mile Marker 7.5	27	144	634:37:07	94.99%
US-1 South of Florida City Subtotal			440	2393	9867:23:48	98.09%
Arterials Subtotal			5191	19530	44931:37:04	96.35%
Limited Access Facilities Subtotal			4720	17440	37956:58:30	99.28%
Grand Total			9911	36970	82888:35:34	97.52%

*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, 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			297	134	263	98	53	51	69	120	283	81	158	342
Safety Messaging			1,879	1,176	1,254	380	242	235	635	830	2,019	358	610	1,349
District 6	Miami-Dade	I-95	1,967	360	271	0	204	496	1,646	734	60	501	154	0
	Miami-Dade	Express Lanes	770	703	190	0	0	267	7	524	0	0	271	0
	Miami-Dade	I-195	120	0	0	0	50	26	104	0	0	55	5	0
	Miami-Dade	I-395	47	13	0	0	4	92	19	0	0	3	12	0
	Miami-Dade	MacArthur Causeway	16	0	0	0	0	9	0	0	0	0	0	0
	Miami-Dade	SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-826	405	404	1,929	806	0	0	459	1,023	4,936	0	53	0
	Miami-Dade	I-75	0	0	189	273	0	0	0	0	15	0	0	0
	Miami-Dade	US-1	70	0	0	0	0	31	26	0	49	0	109	12
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	3	359
	Monroe	Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	319
	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	40	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	66	27	40	10	9	5	12	2	0	0	25	12
MDX	Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-836	252	6	278	0	6	227	30	0	117	0	12	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	52	21	0	0	23	7	17	0	0	20	0	0
	Miami-Dade	SR-874	1	0	49	0	0	0	0	0	373	0	11	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	1	0
District 4	Miami-Dade	SR-924	0	0	4	6	0	0	0	0	0	0	0	0
	Broward	I-95	126	134	79	0	0	0	187	278	0	0	0	0
	Broward	Express Lanes	51	37	21	0	0	0	0	22	0	0	0	0
	Broward	I-75	0	0	9	38	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
Turnpike	Broward	OTHER	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	Floridas Turnpike	5	5	0	0	0	0	0	11	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
Port	St. Lucie	Floridas Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	Port Miami Tunnel	48	24	0	0	0	0	36	0	0	0	12	0
Subtotal of On Route			1,967	703	1,929	273	50	92	1,646	734	4,936	55	109	359
Subtotal of Off Route			4,205	2,341	2,647	1,338	541	1,354	1,601	2,850	2,916	963	1,327	2,034
Total District 6			5,637	2,817	4,136	1,567	562	1,212	2,977	3,273	7,362	998	1,400	2,393
Other Agencies			535	227	440	44	29	234	270	311	490	20	36	0
Total			6,172	3,044	4,576	1,611	591	1,446	3,247	3,584	7,852	1,018	1,436	2,393

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

