

DMS Usage Report – December 2015

Summary of Monthly Operations

In the month of December, there were 35,729 messages posted with 10,281 DMS activations for 1,577 events. The DMS efficiency was 99.68% (1,572 of the 1,577 signable events had DMS messages posted). There was an average of 6.52 DMSs activated per each signable event and an average of 3.48 DMS messages were posted per each DMS activation. This resulted in an average of 22.66 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

- $\frac{10281 \text{ DMS Activations}}{1577 \text{ Events}} = \underline{6.52} \text{ Average DMS Activations per Event}$

An average of 6.52 DMSs were activated per each signable event

- $\frac{35729 \text{ DMS Messages}}{10281 \text{ DMS Activations}} = \underline{3.48} \text{ Average DMS Messages per Activation}$

An average of 3.48 DMS messages were posted per each DMS activation

- $6.52 \frac{\text{DMS Activations}}{\text{Events}} \times 3.48 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{22.66^*} \text{ DMS Messages per Event}$

An average of 22.66 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	91
FDOT District 4	1939
Florida's Turnpike Enterprise	51
Miami-Dade Expressway Authority	2393
Total	4474

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	24581
Other Districts' Incidents	2594
Construction	7360
Safety	0
Vehicle Alert	1194
Total	35729

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	211	732	1924:42:50	100.00%
	22	I-95 NB south of NW 62 St	179	684	1768:31:24	100.00%
	75	I-95 NB before SR 112	324	922	1728:02:10	100.00%
	77	I-95 NB beyond SW 8 St	372	1032	1613:11:24	100.00%
	2***	I-95 SB north of Ives Dairy Rd	288	819	1605:01:24	N/A***
	3***	I-95 SB north of Miami Gardens Dr	360	991	1686:45:12	N/A***
	095NB013.5LL***	I-95 NB north of NW 173 St	101	423	922:37:50	N/A***
	20	I-95 SB south of NW 119 St	155	509	1251:38:39	100.00%
	21	I-95 SB south of NW 62 St	155	474	1070:48:22	100.00%
	74	I-95 SB beyond of SR 112	161	471	1053:48:35	100.00%
76	I-95 SB before Rickenbacker Cswy	22	184	749:39:52	100.00%	
I-95 Mainline Subtotal			2328	7241	15374:47:42	100.00%
I-95 Express	95X40	95X NB at NW 62nd St	145	473	1215:37:14	99.89%
	95X45	95X NB at NW 125th St	184	638	1303:48:12	99.93%
	95XSB45	95X SB at NW 62nd St	137	388	977:41:48	99.35%
	95XSB50	95X SB at NW 125th St	129	364	840:44:30	99.77%
	095SB014.6-EL***	95X SB at Miami Gardens Dr	296	818	1542:50:43	N/A***
	095NB014.8-EL***	95X SB north of Miami Gardens Dr	72	333	888:10:20	N/A***
I-95 Express Subtotal			963	3014	6768:52:47	99.74%
SR 826	14	SR 826 NB beyond NW 122 St	91	435	883:00:21	99.53%
	4	SR 826 EB east of NW 67 Ave	128	557	1265:37:27	100.00%
	5	SR 826 EB east of NW 37 Ave	398	1120	1821:56:12	100.00%
	15*	SR 826 WB beyond NW 17 Ave	0	0	0:00:00	N/A*
	17	SR 826 WB beyond NW 47 Ave	100	444	874:59:25	100.00%
	19	SR 826 WB beyond NW 67 Ave	137	533	957:40:39	99.11%
	826NB58	SR 826 NB before NW 58 St	64	325	779:48:19	100.00%
	826SB58	SR 826 SB before NW 58 St	97	397	1061:38:25	100.00%
	826SB103****	SR 826 SB before NW 103 St	97	420	1039:25:14	N/A****
	826NB1.3-LL	SR 826 NB before SW 72 St	92	367	1113:01:38	100.00%
	826NB4.8-LL**	SR 826 NB at SW 24 St	207	569	1383:45:16	N/A**
826SB8.8-LL**	SR 826 SB at NW 36 St	176	515	1273:30:16	N/A**	
SR 826 Subtotal			1587	5682	12454:23:12	99.83%
I-75	43	I-75 NB before Miami Gardens Dr	41	295	1496:35:49	99.79%
	44	I-75 SB before Miami Gardens Dr	133	565	858:35:38	98.92%
	42	I-75 SB ramp from NW 138 St	151	638	930:59:23	99.87%
I-75 Subtotal			325	1498	3286:10:50	99.53%
I-195 Mainline	57	I-195 EB before North Miami Ave	30	189	775:28:33	100.00%
	105	I-195 WB before Alton Rd	196	659	1535:18:06	100.00%
I-195 Mainline Subtotal			226	848	2310:46:39	100.00%
I-395	886WB	Port Blvd WB before US-1	230	616	1027:40:13	99.43%
	104	I-395 WB at Watson Island	310	839	1392:06:24	94.69%
I-395 Subtotal			540	1455	2419:46:37	97.06%
Limited Access Facilities Subtotal			5969	19738	42614:47:47	99.64%

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	0	0	0:00:00	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	0	0	0:00:00	N/A***
	111***	Miami Gardens Dr WB before I-95	0	0	0:00:00	N/A***
	112	NW 103 St EB before I-95	222	715	1198:26:47	98.76%
	106	NW 79 St EB before I-95	212	664	1179:10:43	99.10%
	107	NW 54 St EB before I-95	260	787	1316:28:04	99.17%
	108	SW 8 St EB before I-95	193	613	1223:30:03	99.42%
I-95 Arterial Subtotal			887	2779	4917:35:37	99.11%
Golden Glades Interchange	6***	SR 826 WB west of NE 2nd Ave	421	1204	1852:39:35	N/A***
	7	Turnpike SB to Golden Glades	400	1108	1564:34:16	99.64%
	9	US-441 NB at TRI-Rail	130	542	1218:44:26	99.56%
	10	SR 9 NB before Park & Ride	126	541	1213:49:28	99.56%
	8	US-441 SB at NW 179 St	323	924	1622:07:34	100.00%
Golden Glades Interchange Subtotal			1400	4319	7471:55:19	99.69%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	167	532	1208:36:28	100.00%
	SW24WB	SW 24 St WB before SR 826	167	532	1208:36:28	100.00%
	SW40EB	SW 40 St EB before SR 826	120	440	1143:26:09	100.00%
	SW40WB	SW 40 St WB before SR 826	117	432	1142:36:43	100.00%
	SW56EB	SW 56 St EB before SR 826	105	421	1136:18:25	100.00%
	SW56WB	SW 56 St WB before SR 826	105	421	1136:18:24	100.00%
	SW72EB	SW 72 St EB before SR 826	92	398	1094:58:56	100.00%
	SW72WB	SW 72 St WB before SR 826	93	404	1115:38:27	100.00%
	WFLAGLEREB**	W Flagler ST EB before SR 826	0	0	0:00:00	N/A**
	WFLAGLERWB**	W Flagler ST WB before SR 826	0	0	0:00:00	N/A**
SR 826 Arterial Subtotal			966	3580	9186:30:00	100.00%
I-195 Arterial	38	Alton Rd SB before I-195	134	515	1163:38:19	100.00%
	39	Arthur Godfrey WB before I-195	133	512	1157:09:35	100.00%
	40	Alton Rd NB before I-195	134	513	1163:27:28	100.00%
I-195 Arterial Subtotal			401	1540	3484:15:22	100.00%
US-1 in Miami-Dade County	23	US-1 NB beyond SW 17 Ave	178	546	1176:21:34	100.00%
	45	US-1 SB before SW 80 St	35	213	783:31:59	99.49%
	47	US-1 SB at Florida's Turnpike	28	191	776:09:52	100.00%
	46	US-1 NB before Killian Dr	55	316	917:58:12	100.00%
	48	US-1 NB at Florida's Turnpike	28	189	778:11:48	100.00%
US-1 in Miami-Dade County Subtotal			324	1455	4432:13:25	99.90%

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	30	201	781:15:27	100.00%
	64	US-1 NB at Mile Marker 106	20	138	563:54:08	88.38%
	66	US-1 NB at Mile Marker 91.5	29	192	776:12:51	100.00%
	68	US-1 NB at Mile Marker 39.5	31	187	784:09:57	95.49%
	71	US-1 NB at Mile Marker 7.5	32	278	1456:33:57	99.39%
	61	US-1 SB at Mile Marker 126	48	349	1497:56:21	100.00%
	63	US-1 SB at Mile Marker 113	41	246	844:25:56	98.86%
	65	US-1 SB at Mile Marker 106	32	221	842:34:14	99.81%
	67	US-1 SB at Mile Marker 91.5	34	223	844:22:48	99.86%
	69	US-1 SB at Mile Marker 39.5	21	155	710:56:37	95.44%
	70	US-1 SB at Mile Marker 7.5	16	128	556:54:46	76.97%
US-1 South of Florida City Subtotal			334	2318	9659:17:02	95.84%
Arterials Subtotal			4312	15991	39151:46:45	98.54%
Limited Access Facilities Subtotal			5969	19738	42614:47:47	99.64%
Grand Total			10281	35729	81766:34:32	99.02%

*DMS 15 was undergoing testing for Capital Improvement and was used periodically. Messages posted on these DMS are not computed and system availability is not measured for these devices.

**Four 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 and is undergoing testing for Capital Improvement; 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			264	66	170	86	28	28	0	37	24	66	136	289
Safety Messaging			0	0	0	0	0	0	0	0	0	0	0	0
District 6	Miami-Dade	I-95	2,980	712	685	3	320	518	1,604	1,736	8	679	216	
	Miami-Dade	Express Lanes	991	725	290	3	1	227	0	754	0	0	57	0
	Miami-Dade	I-195	14	0	0	0	52	4	13	0	0	145	0	0
	Miami-Dade	I-395	60	15	0	0	0	78	40	0	0	0	15	0
	Miami-Dade	MacArthur Causeway	53	6	0	0	2	25	7	0	0	3	3	0
	Miami-Dade	SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-826	167	126	2,042	766	0	1	70	418	2,026	0	85	0
	Miami-Dade	I-75	0	0	82	48	0	0	0	0	0	0	0	0
	Miami-Dade	US-1	12	3	0	0		6	11	0	26		36	15
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	301
	Monroe	Card Sound Road	0	0	0	0	0	0	0	0	0	0	7	24
	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	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	1,668	896	1,673	518	316	242	567	756	1,174	453	774	1,681
Monroe	OTHER	4	4	6	1	2	1	0	1	0	0	3	5	
MDX	Miami-Dade	SR-836	391	41	400	1	24	276	204	0	302	50	36	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	197	58	0	0	75	29	111	15	0	57	7	0
	Miami-Dade	SR-874	0	0	14	0	0	0	0	0	20	0	11	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-924	0	0	42	32	0	0	0	0	0	0	0	0
District 4	Broward	I-95	381	330	194	1	28	19	141	582	0	87	58	0
	Broward	I-75	0	0	79	39	0	0	0			0	0	0
	Broward	I-595	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	13	10	5	0	0	0	0	20	0	0	0	3
	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	46	22	0	0	0	1	11	0	0	0	11	0
Subtotal of On Route			2,980	725	2,042	48	52	78	1,604	1,736	2,026	145	36	301
Subtotal of Off Route			4,261	2,289	3,640	1,450	796	1,377	1,175	2,583	1,554	1,395	1,419	2,017
Total District 6			6,213	2,553	4,948	1,425	721	1,130	2,312	3,702	3,258	1,346	1,332	2,315
Other Agencies			1,028	461	734	73	127	325	467	617	322	194	123	3
Total			7,241	3,014	5,682	1,498	848	1,455	2,779	4,319	3,580	1,540	1,455	2,318

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

