

DMS Usage Report – May 2015

Summary of Monthly Operations

In the month of May, there were 41,665 messages posted with 9,360 DMS activations for 1,424 events. The DMS efficiency was 99.37% (1,415 of the 1,424 signable events had DMS messages posted). There was an average of 6.57 DMSs activated per each signable event and an average of 4.45 DMS messages were posted per each DMS activation. This resulted in an average of 29.26 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

- $\frac{9360 \text{ DMS Activations}}{1424 \text{ Events}} = \underline{\mathbf{6.57}}$ Average DMS Activations per Event

An average of 6.57 DMSs were activated per each signable event

- $\frac{41665 \text{ DMS Messages}}{9360 \text{ DMS Activations}} = \underline{\mathbf{4.45}}$ Average DMS Messages per Activation

An average of 4.45 DMS messages were posted per each DMS activation

- $6.57 \frac{\text{DMS Activations}}{\text{Events}} \times 4.45 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{\mathbf{29.26^*}}$ DMS Messages per Event

An average of 29.26 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	170
FDOT District 4	732
Florida's Turnpike Enterprise	55
Miami-Dade Expressway Authority	2571
Total	3528

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	20572
Other Districts' Incidents	1542
Construction	14318
Safety	4337
Vehicle Alert	896
Total	41665

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	205	1000	2512:46:30	99.42%
	22	I-95 NB south of NW 62 St	172	824	1936:45:51	95.47%
	75	I-95 NB before SR 112	351	1485	1919:01:16	99.70%
	77	I-95 NB beyond SW 8 St	352	1206	1451:54:03	99.68%
	2***	I-95 SB north of Ives Dairy Rd	185	706	1023:01:29	N/A***
	3***	I-95 SB north of Miami Gardens Dr	193	698	948:43:48	N/A***
	095NB013.5LL***	I-95 NB north of NW 173 St	29	116	329:20:24	N/A***
	20	I-95 SB south of NW 119 St	149	574	1170:17:00	99.54%
	21	I-95 SB south of NW 62 St	169	893	1065:09:10	95.72%
	74	I-95 SB beyond of SR 112	152	637	955:54:11	99.70%
76	I-95 SB before Rickenbacker Cswy	34	293	801:38:15	99.70%	
I-95 Mainline Subtotal			1991	8432	14114:31:57	98.62%
I-95 Express	95X40	95X NB at NW 62nd St	153	565	1370:04:41	99.70%
	95X45	95X NB at NW 125th St	181	694	1474:43:43	99.05%
	95XSB45	95X SB at NW 62nd St	144	506	987:48:30	99.60%
	95XSB50	95X SB at NW 125th St	102	335	698:36:52	80.50%
	095SB014.6-EL	95X SB at Miami Gardens Dr	0	0	0:00:00	N/A****
	095NB014.8-EL	95X SB north of Miami Gardens Dr	5	15	14:15:48	N/A****
I-95 Express Subtotal			585	2115	4545:29:34	94.71%
SR 826	14	SR 826 NB beyond NW 122 St	86	548	923:02:53	94.05%
	4	SR 826 EB east of NW 67 Ave	116	574	1006:26:24	99.66%
	5	SR 826 EB east of NW 37 Ave	306	1043	1653:35:55	99.70%
	15*	SR 826 WB beyond NW 17 Ave	0	0	0:00:00	N/A*
	17	SR 826 WB beyond NW 47 Ave	107	585	1117:43:14	99.68%
	19	SR 826 WB beyond NW 67 Ave	92	458	910:36:30	92.53%
	826NB58	SR 826 NB before NW 58 St	99	577	1033:23:21	99.04%
	826SB58	SR 826 SB before NW 58 St	115	497	1047:13:39	98.74%
	826SB103	SR 826 SB before NW 103 St	86	477	1033:48:17	99.70%
	826NB1.3-LL	SR 826 NB before SW 72 St	86	492	1016:57:55	95.84%
	826NB4.8-LL***	SR 826 NB at SW 24 St	153	716	1119:34:28	N/A***
826SB8.8-LL***	SR 826 SB at NW 36 St	135	580	1088:00:34	N/A***	
SR 826 Subtotal			1381	6547	11950:23:10	97.66%
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	0	0	0:00:00	N/A*
I-75 Subtotal			0	0	0:00:00	N/A
I-195 Mainline	57	I-195 EB before North Miami Ave	37	526	857:32:00	99.68%
	105	I-195 WB before Alton Rd	183	735	1459:42:23	98.49%
I-195 Mainline Subtotal			220	1261	2317:14:23	99.09%
I-395	886WB	Port Blvd WB before US-1	199	813	1230:54:30	99.70%
	104	I-395 WB at Watson Island	274	835	1140:00:45	90.84%
I-395 Subtotal			473	1648	2370:55:15	95.27%
Limited Access Facilities Subtotal			4650	20003	35298:34:19	97.42%

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	2	7	8:54:17	N/A***
	113***	Ives Dairy Rd WB before I-95	2	5	5:10:51	N/A***
	110***	Miami Gardens Dr EB before I-95	196	729	1108:43:10	N/A***
	111***	Miami Gardens Dr WB before I-95	214	787	1186:01:12	N/A***
	112	NW 103 St EB before I-95	237	758	708:26:10	98.55%
	106	NW 79 St EB before I-95	238	970	825:20:56	98.82%
	107	NW 54 St EB before I-95	265	1066	833:03:29	98.60%
	108	SW 8 St EB before I-95	146	457	538:27:19	99.34%
I-95 Arterial Subtotal			1300	4779	5214:07:24	98.83%
Golden Glades Interchange	6***	SR 826 WB west of NE 2nd Ave	351	1204	1828:17:34	N/A***
	7	Turnpike SB to Golden Glades	340	1158	1562:02:53	98.61%
	9	US-441 NB at TRI-Rail	143	578	1061:45:42	98.53%
	10	SR 9 NB before Park & Ride	190	738	1160:45:00	99.61%
	8	US-441 SB at NW 179 St	298	1020	1470:55:36	98.61%
Golden Glades Interchange Subtotal			1322	4698	7083:46:45	98.84%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	147	658	1049:19:37	95.75%
	SW24WB	SW 24 St WB before SR 826	146	668	1051:36:40	95.75%
	SW40EB	SW 40 St EB before SR 826	123	601	1011:48:38	95.75%
	SW40WB	SW 40 St WB before SR 826	117	599	1004:27:21	95.75%
	SW56EB	SW 56 St EB before SR 826	100	515	965:44:33	95.75%
	SW56WB	SW 56 St WB before SR 826	100	539	964:28:41	95.75%
	SW72EB	SW 72 St EB before SR 826	86	502	964:28:41	95.75%
	SW72WB	SW 72 St WB before SR 826	85	508	964:28:41	95.75%
	WFLAGLEREB	W Flagler ST EB before SR 826	123	688	1212:49:25	N/A**
WFLAGLERWB	W Flagler ST WB before SR 826	118	638	1152:23:53	N/A**	
SR 826 Arterial Subtotal			1145	5916	10341:36:10	95.75%
I-195 Arterial	38	Alton Rd SB before I-195	126	587	1129:34:43	99.68%
	39	Arthur Godfrey WB before I-195	124	575	1137:32:27	98.34%
	40	Alton Rd NB before I-195	125	560	1123:32:52	99.68%
I-195 Arterial Subtotal			375	1722	3390:40:02	99.23%
US-1 in Miami-Dade County	23	US-1 NB beyond SW 17 Ave	109	556	1076:45:25	99.70%
	45	US-1 SB before SW 80 St	38	257	818:09:41	97.80%
	47	US-1 SB at Florida's Turnpike	21	212	777:06:56	99.47%
	46	US-1 NB before Killian Dr	65	416	937:36:43	98.77%
	48	US-1 NB at Florida's Turnpike	20	207	693:39:28	88.47%
US-1 in Miami-Dade County Subtotal			253	1648	4303:18:13	96.84%

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	22	217	774:51:45	99.49%
	64	US-1 NB at Mile Marker 106	22	205	727:32:53	84.19%
	66	US-1 NB at Mile Marker 91.5	24	245	796:58:38	96.68%
	68	US-1 NB at Mile Marker 39.5	42	300	943:37:14	97.43%
	71	US-1 NB at Mile Marker 7.5	38	395	1423:55:25	99.33%
	61	US-1 SB at Mile Marker 126	37	383	1390:18:50	99.30%
	63	US-1 SB at Mile Marker 113	32	254	793:57:17	86.67%
	65	US-1 SB at Mile Marker 106	32	268	835:35:18	86.58%
	67	US-1 SB at Mile Marker 91.5	28	227	743:37:36	94.20%
	69	US-1 SB at Mile Marker 39.5	22	195	665:36:09	97.26%
70	US-1 SB at Mile Marker 7.5	16	210	783:07:34	99.10%	
US-1 South of Florida City Subtotal			315	2899	9879:08:39	94.57%
Arterials Subtotal			4710	21662	40212:37:13	96.54%
Limited Access Facilities Subtotal			4650	20003	35298:34:19	97.42%
Grand Total			9360	41665	75511:11:32	96.90%

*DMS 15, 42, 43, and 44 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.

**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, and FLD6DOT095NB014.8-EL are operational and are under the Express Lanes Phase 2 Contractor; thus, system availability is not measured for these devices. FLD6DOT095SB014.6-EL is under the same Contractor but was not operational on May.

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		192	54	163	0	22	22	20	32	10	36	110	235
Safety Messaging		724	261	718	0	102	110	125	345	737	199	367	649
District 6	Miami-Dade I-95	3,139	418	654	0	381	590	2,903	2,115	0	729	160	0
	Miami-Dade Express Lanes	1,006	426	213	0	0	245	3	615	0	0	0	0
	Miami-Dade I-195	601	0	0	0	359	16	593	0	0	199	0	0
	Miami-Dade I-395	47	12	0	0	0	67	41	0	0	0	13	0
	Miami-Dade MacArthur Causeway	317	17	0	0	8	117	1	0	0	24	80	0
	Miami-Dade SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade SR-826	222	71	2,864	0	0	5	221	633	3,484	0	185	0
	Miami-Dade I-75	0	0	26	0	0	0	0	0	0	0	0	0
	Miami-Dade US-1	23	0	0	0	0	4	11	0	8	0	13	3
	Monroe US-1	0	0	0	0	0	0	0	0	0	0	0	472
	Monroe Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	4
	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	1,398	586	1,376	0	252	227	385	638	1,185	365	599	1,535
	Monroe OTHER	0	0	0	0	0	0	0	0	0	0	0	0
MDX	Miami-Dade SR-836	268	32	334	0	25	178	127	2	452	23	62	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	306	108	0	0	112	67	158	0	0	147	21	0
	Miami-Dade SR-874	0	0	5	0	0	0	0	0	40	0	11	0
	Miami-Dade SR-878	0	0	0	0	0	0	0	0	0	0	1	0
	Miami-Dade SR-924	0	0	92	0	0	0	0	0	0	0	0	0
District 4	Broward I-95	79	71	66	0	0	0	179	301	0	0	0	0
	Broward I-75	0	0	32		0	0	0	0	0	0	0	0
	Broward I-595	0	0	4	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	12	13	0	0	0	0	12	17	0	0	0	1
	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	98	46	0	0	0	0	0	0	0	26	0	
Subtotal of On Route		3,139	426	2,864	0	359	67	2,903	2,115	3,484	199	13	472
Subtotal of Off Route		5,293	1,689	3,683	0	902	1,581	1,876	2,583	2,432	1,523	1,635	2,427
Total District 6		7,669	1,845	6,014	0	1,124	1,403	4,303	4,378	5,424	1,552	1,527	2,898
Other Agencies		763	270	533	0	137	245	476	320	492	170	121	1
Total		8,432	2,115	6,547	0	1,261	1,648	4,779	4,698	5,916	1,722	1,648	2,899

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

