

DMS Usage Report – September 2015

Summary of Monthly Operations

In the month of September, there were 37,893 messages posted with 9,630 DMS activations for 1,503 events. The DMS efficiency was 99.73% (1,499 of the 1,503 signable events had DMS messages posted). There was an average of 6.41 DMSs activated per each signable event and an average of 3.93 DMS messages were posted per each DMS activation. This resulted in an average of 25.21 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

- $\frac{9630 \text{ DMS Activations}}{1503 \text{ Events}} = \underline{6.41} \text{ Average DMS Activations per Event}$

An average of 6.41 DMSs were activated per each signable event

- $\frac{37893 \text{ DMS Messages}}{9630 \text{ DMS Activations}} = \underline{3.93} \text{ Average DMS Messages per Activation}$

An average of 3.93 DMS messages were posted per each DMS activation

- $6.41 \frac{\text{DMS Activations}}{\text{Events}} \times 3.93 \frac{\text{DMS Messages}}{\text{DMS Activation}} = \underline{25.21^*} \text{ DMS Messages per Event}$

An average of 25.21 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	35
FDOT District 4	1281
Florida's Turnpike Enterprise	116
Miami-Dade Expressway Authority	3762
Total	5194

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	22676
Other Districts' Incidents	2620
Construction	10541
Safety	989
Vehicle Alert	1067
Total	37893

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	220	814	1982:53:43	100.00%
	22	I-95 NB south of NW 62 St	165	718	1574:31:20	99.93%
	75	I-95 NB before SR 112	323	1065	1883:26:39	100.00%
	77	I-95 NB beyond SW 8 St	364	1159	1527:34:19	100.00%
	2***	I-95 SB north of Ives Dairy Rd	0	0	0:00:00	N/A***
	3***	I-95 SB north of Miami Gardens Dr	344	1236	1796:51:49	N/A***
	095NB013.5LL***	I-95 NB north of NW 173 St	99	399	837:19:34	N/A***
	20	I-95 SB south of NW 119 St	154	694	1383:14:03	100.00%
	21	I-95 SB south of NW 62 St	161	562	1096:08:58	100.00%
	74	I-95 SB beyond of SR 112	166	584	983:39:07	100.00%
76	I-95 SB before Rickenbacker Cswy	36	300	795:40:05	100.00%	
I-95 Mainline Subtotal			2032	7531	13861:19:37	99.99%
I-95 Express	95X40	95X NB at NW 62nd St	149	454	901:32:28	96.49%
	95X45	95X NB at NW 125th St	192	602	1066:32:03	99.21%
	95XSB45	95X SB at NW 62nd St	148	510	999:52:11	99.09%
	95XSB50*	95X SB at NW 125th St	0	0	0:00:00	N/A*
	095SB014.6-EL***	95X SB at Miami Gardens Dr	185	597	1130:46:01	N/A***
	095NB014.8-EL***	95X SB north of Miami Gardens Dr	61	330	828:02:00	N/A***
I-95 Express Subtotal			735	2493	4926:44:43	98.26%
SR 826	14	SR 826 NB beyond NW 122 St	84	430	838:52:57	97.66%
	4	SR 826 EB east of NW 67 Ave	121	629	1054:15:18	98.14%
	5	SR 826 EB east of NW 37 Ave	390	1328	1919:45:06	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	116	539	1062:16:09	99.94%
	19	SR 826 WB beyond NW 67 Ave	138	608	1091:05:32	98.43%
	826NB58	SR 826 NB before NW 58 St	68	375	831:30:32	100.00%
	826SB58	SR 826 SB before NW 58 St	135	644	1184:00:23	100.00%
	826SB103****	SR 826 SB before NW 103 St	0	0	0:00:00	N/A****
	826NB1.3-LL	SR 826 NB before SW 72 St	92	421	1028:00:22	99.88%
	826NB4.8-LL**	SR 826 NB at SW 24 St	182	601	1193:18:33	N/A**
826SB8.8-LL**	SR 826 SB at NW 36 St	194	713	1311:45:36	N/A**	
SR 826 Subtotal			1520	6288	11514:50:28	99.26%
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	170	780	1179:14:34	99.94%
I-75 Subtotal			170	780	1179:14:34	99.94%
I-195 Mainline	57	I-195 EB before North Miami Ave	46	258	816:55:58	100.00%
	105	I-195 WB before Alton Rd	193	814	1545:26:03	97.59%
I-195 Mainline Subtotal			239	1072	2362:22:01	98.80%
I-395	886WB	Port Blvd WB before US-1	210	847	1224:36:40	100.00%
	104	I-395 WB at Watson Island	302	902	1237:39:16	91.17%
I-395 Subtotal			512	1749	2462:15:56	95.59%
Limited Access Facilities Subtotal			5208	19913	36306:47:19	99.06%

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	151	584	770:06:45	N/A***
	112	NW 103 St EB before I-95	222	662	557:23:41	99.45%
	106	NW 79 St EB before I-95	203	610	508:28:53	99.49%
	107	NW 54 St EB before I-95	232	680	664:27:19	99.58%
	108	SW 8 St EB before I-95	171	615	504:40:18	98.31%
I-95 Arterial Subtotal			979	3151	3005:06:56	99.21%
Golden Glades Interchange	6***	SR 826 WB west of NE 2nd Ave	409	1320	1847:43:04	N/A***
	7	Turnpike SB to Golden Glades	392	1338	1825:23:34	100.00%
	9	US-441 NB at TRI-Rail	136	518	992:23:18	100.00%
	10	SR 9 NB before Park & Ride	133	515	976:25:33	100.00%
	8	US-441 SB at NW 179 St	295	1065	1606:29:28	100.00%
Golden Glades Interchange Subtotal			1365	4756	7248:24:57	100.00%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	184	607	1148:18:56	100.00%
	SW24WB	SW 24 St WB before SR 826	159	520	923:50:33	84.38%
	SW40EB	SW 40 St EB before SR 826	128	499	1032:30:15	100.00%
	SW40WB	SW 40 St WB before SR 826	128	499	1032:30:16	100.00%
	SW56EB	SW 56 St EB before SR 826	94	419	1007:09:33	99.95%
	SW56WB	SW 56 St WB before SR 826	95	420	1007:28:06	99.95%
	SW72EB	SW 72 St EB before SR 826	80	389	987:32:51	99.95%
	SW72WB	SW 72 St WB before SR 826	81	390	987:41:46	99.95%
	WFLAGLEREB**	W Flagler ST EB before SR 826	65	221	431:54:44	N/A**
	WFLAGLERWB**	W Flagler ST WB before SR 826	0	0	0:00:00	N/A**
SR 826 Arterial Subtotal			1014	3964	8558:57:00	98.02%
I-195 Arterial	38	Alton Rd SB before I-195	119	583	1037:45:31	97.15%
	39	Arthur Godfrey WB before I-195	118	584	1025:31:26	97.72%
	40	Alton Rd NB before I-195	119	590	1032:46:13	97.74%
I-195 Arterial Subtotal			356	1757	3096:03:10	97.54%
US-1 in Miami-Dade County	23	US-1 NB beyond SW 17 Ave	163	684	1149:15:54	100.00%
	45	US-1 SB before SW 80 St	40	249	792:36:22	99.75%
	47	US-1 SB at Florida's Turnpike	38	249	772:33:31	96.17%
	46	US-1 NB before Killian Dr	64	339	846:04:20	99.90%
	48	US-1 NB at Florida's Turnpike	38	240	776:19:13	96.17%
US-1 in Miami-Dade County Subtotal			343	1761	4336:49:20	98.40%

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	39	247	808:21:08	100.00%
	64	US-1 NB at Mile Marker 106	29	251	761:57:37	95.02%
	66	US-1 NB at Mile Marker 91.5	39	266	734:06:02	90.54%
	68*	US-1 NB at Mile Marker 39.5	0	0	0:00:00	N/A*
	71	US-1 NB at Mile Marker 7.5	38	330	1091:23:20	94.77%
	61	US-1 SB at Mile Marker 126	54	377	1234:03:26	100.00%
	63	US-1 SB at Mile Marker 113	52	316	915:56:04	99.94%
	65	US-1 SB at Mile Marker 106	41	302	878:43:38	98.11%
	67	US-1 SB at Mile Marker 91.5	46	269	881:43:55	98.02%
	69*	US-1 SB at Mile Marker 39.5	0	0	0:00:00	N/A*
	70	US-1 SB at Mile Marker 7.5	27	233	784:49:49	99.96%
US-1 South of Florida City Subtotal			365	2591	8091:04:59	97.37%
Arterials Subtotal			4422	17980	34336:26:22	98.24%
Limited Access Facilities Subtotal			5208	19913	36306:47:19	99.06%
Grand Total			9630	37893	70643:13:41	98.59%

*DMS 15, 43, 44, 68, 69, and 95XSBNW125ST0050 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, 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 operational (although it have been failed through the whole month) and is under the SR-826/I-75 Express Lanes Contractor; 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			232	61	165	29	30	25	30	43	51	53	132	216
Safety Messaging			180	48	179	18	36	36	3	90	160	0	90	149
District 6	Miami-Dade	I-95	3,039	357	859	19	421	686	2,113	1,893	2	843	282	0
	Miami-Dade	Express Lanes	834	566	302	0	1	204	0	838	0	0	29	0
	Miami-Dade	I-195	40	0	0	0	34	8	41	0	0	79	8	0
	Miami-Dade	I-395	36	5	0	0	0	64	26	0	0	0	7	0
	Miami-Dade	MacArthur Causeway	22	6	0	0	0	8	3	0	0	0	6	0
	Miami-Dade	SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-826	115	57	1,947	455	0	5	82	376	1,350	0	64	0
	Miami-Dade	I-75	0	0	53	28	0	0	0	0	1	0	0	0
	Miami-Dade	US-1	4	0	1	0	0	2	2	0	20	0	28	0
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	365
	Monroe	Card Sound Road	0	0	0	0	0	0	0	0	0	0	11	33
	Miami-Dade	SR-997/ Krome Avenue	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-9	0	0	6	0	0	0	0	9	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	1,990	963	1,962	189	408	362	192	967	1552	558	977	1,825
	Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	3
MDX	Miami-Dade	SR-836	430	65	574	0	37	270	283	3	767	71	79	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	316	103	0	0	105	79	186	9	0	153	32	0
	Miami-Dade	SR-874	0	0	12	0	0	0	0	0	61	0	8	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	3	0
Miami-Dade	SR-924	0	0	74	42	0	0	0	0	0	0	0	0	
District 4	Broward	I-95	244	238	133	0	0	0	175	484	0	0	0	0
	Broward	I-75	0	0	7	0	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	Floridas Turnpike	25	18	14	0	0	0	15	44	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	6	0	0	0	0	0	0	0	5	0	
Subtotal of On Route			3,039	566	1,947	28	34	64	2,113	1,893	1,350	79	28	365
Subtotal of Off Route			4,492	1,927	4,341	752	1,038	1,685	1038	2,863	2,614	1,678	1,733	2,226
Total District 6			6,492	2,063	5,474	738	930	1,400	2,492	4,216	3,136	1,533	1,634	2,591
Other Agencies			1039	430	814	42	142	349	659	540	828	224	127	0
Total			7,531	2,493	6,288	780	1,072	1,749	3,151	4,756	3,964	1,757	1,761	2,591

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

