

DMS Usage Report – April 2016

Summary of Monthly Operations

In the month of April, there were 36,569 messages posted with 10,872 DMS activations for 1,666 events. The DMS efficiency was 99.64% (1,660 of the 1,666 signable events had DMS messages posted). There was an average of 6.53 DMSs activated per each signable event and an average of 3.36 DMS messages were posted per each DMS activation. This resulted in an average of 21.95 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

- $$\frac{10872 \text{ DMS Activations}}{1666 \text{ Events}} = \underline{6.53} \text{ Average DMS Activations per Event}$$

An average of 6.53 DMSs were activated per each signable event

- $$\frac{36569 \text{ DMS Messages}}{10872 \text{ DMS Activations}} = \underline{3.36} \text{ Average DMS Messages per Activation}$$

An average of 3.36 DMS messages were posted per each DMS activation

- $$6.53 \frac{\text{DMS Activations}}{\text{Events}} \times 3.36 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{21.95^*} \text{ DMS Messages per Event}$$

An average of 21.95 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	2739
Florida's Turnpike Enterprise	183
Miami-Dade Expressway Authority	2057
Total	5039

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	20196
Other Districts' Incidents	3365
Construction	7410
Safety	4603
Vehicle Alert	995
Total	36569



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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	271	846	2213:28:13	100.00%
	22	I-95 NB south of NW 62 St	128	458	1074:37:13	100.00%
	75	I-95 NB before SR 112	270	707	1015:26:26	100.00%
	77	I-95 NB beyond SW 8 St	374	973	1338:57:27	100.00%
	2***	I-95 SB north of Ives Dairy Rd	241	704	967:26:24	N/A***
	3***	I-95 SB north of Miami Gardens Dr	0	0	0:00:00	N/A***
	095NB013.5LL***	I-95 NB north of NW 173 St	171	520	1475:56:08	N/A***
	20	I-95 SB south of NW 119 St	117	448	933:56:01	100.00%
	21	I-95 SB south of NW 62 St	160	539	991:18:34	99.56%
	74	I-95 SB beyond of SR 112	198	629	1220:59:36	100.00%
76	I-95 SB before Rickenbacker Cswy	36	265	858:14:29	100.00%	
I-95 Mainline Subtotal			1966	6089	12090:20:31	99.95%
I-95 Express	95X40	95X NB at NW 62nd St	152	474	1093:03:40	100.00%
	95X45	95X NB at NW 125th St	247	675	1351:04:33	99.42%
	95XSB45	95X SB at NW 62nd St	141	454	949:59:53	100.00%
	95XSB50	95X SB at NW 125th St	126	383	882:44:52	100.00%
	095SB014.6-EL***	95X SB at Miami Gardens Dr	144	446	769:54:23	N/A***
	095NB014.8-EL***	95X SB north of Miami Gardens Dr	179	562	1558:32:59	N/A***
I-95 Express Subtotal			989	2994	6605:20:20	99.86%
SR 826	14	SR 826 NB beyond NW 122 St	106	498	771:05:54	99.62%
	4	SR 826 EB east of NW 67 Ave	113	508	1005:49:00	100.00%
	5	SR 826 EB east of NW 37 Ave	385	1050	1397:14:30	99.93%
	15*	SR 826 WB beyond NW 17 Ave	0	0	0:00:00	N/A*
	17	SR 826 WB beyond NW 47 Ave	106	516	968:53:46	100.00%
	19	SR 826 WB beyond NW 67 Ave	144	619	1058:59:59	99.08%
	826NB58	SR 826 NB before NW 58 St	106	457	1041:42:06	100.00%
	826SB58	SR 826 SB before NW 58 St	137	504	1190:11:04	100.00%
	826SB103****	SR 826 SB before NW 103 St	122	523	1132:20:03	N/A****
	826NB1.3-LL	SR 826 NB before SW 72 St	143	534	1391:37:21	99.76%
	826NB4.8-LL**	SR 826 NB at SW 24 St	0	0	0:00:00	N/A**
826SB8.8-LL**	SR 826 SB at NW 36 St	100	259	650:36:21	N/A**	
SR 826 Subtotal			1462	5468	10608:30:04	99.80%
I-75	43	I-75 NB before Miami Gardens Dr	38	306	1601:38:03	100.00%
	44	I-75 SB before Miami Gardens Dr	164	770	1262:54:23	99.26%
	42	I-75 SB ramp from NW 138 St	180	825	1316:05:06	100.00%
I-75 Subtotal			382	1901	4180:37:32	99.75%
I-195 Mainline	57	I-195 EB before North Miami Ave	39	240	857:46:39	100.00%
	105	I-195 WB before Alton Rd	130	422	899:47:45	100.00%
I-195 Mainline Subtotal			169	662	1757:34:24	100.00%
I-395	886WB	Port Blvd WB before US-1	238	674	1181:33:54	100.00%
	104	I-395 WB at Watson Island	338	838	1213:53:00	96.69%
I-395 Subtotal			576	1512	2395:26:54	98.35%
Limited Access Facilities Subtotal			5544	18626	37637:49:45	99.75%



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	234	649	408:31:25	N/A***
	113***	Ives Dairy Rd WB before I-95	117	304	158:57:00	N/A***
	110***	Miami Gardens Dr EB before I-95	228	616	403:18:21	N/A***
	111***	Miami Gardens Dr WB before I-95	249	683	452:49:30	N/A***
	112	NW 103 St EB before I-95	114	291	130:53:49	49.28%
	106	NW 79 St EB before I-95	203	484	187:32:41	99.94%
	107	NW 54 St EB before I-95	228	525	195:56:09	99.68%
	108	SW 8 St EB before I-95	166	399	283:22:01	99.11%
I-95 Arterial Subtotal			1539	3951	2221:20:56	87.00%
Golden Glades Interchange	6***	SR 826 WB west of NE 2nd Ave	404	1086	1480:53:33	N/A***
	7	Turnpike SB to Golden Glades	347	1006	1246:08:21	100.00%
	9	US-441 NB at TRI-Rail	155	569	1201:05:11	100.00%
	10	SR 9 NB before Park & Ride	155	566	1178:30:28	99.60%
	8	US-441 SB at NW 179 St	243	731	1097:33:48	99.53%
Golden Glades Interchange Subtotal			1304	3958	6204:11:21	99.78%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	249	754	1731:05:40	99.82%
	SW24WB	SW 24 St WB before SR 826	250	755	1731:08:34	99.90%
	SW40EB	SW 40 St EB before SR 826	190	630	1512:39:48	99.87%
	SW40WB	SW 40 St WB before SR 826	189	629	1512:36:07	99.91%
	SW56EB	SW 56 St EB before SR 826	148	562	1417:44:59	99.91%
	SW56WB	SW 56 St WB before SR 826	148	562	1417:44:52	100.00%
	SW72EB	SW 72 St EB before SR 826	135	534	1370:42:05	99.96%
	SW72WB	SW 72 St WB before SR 826	135	524	1368:26:32	99.87%
	WFLAGLEREB**	W Flagler ST EB before SR 826	7	20	12:15:16	N/A**
	WFLAGLERWB**	W Flagler ST WB before SR 826	0	0	0:00:00	N/A**
SR 826 Arterial Subtotal			1451	4970	12074:23:53	99.91%
I-195 Arterial	38	Alton Rd SB before I-195	85	203	137:16:55	99.95%
	39	Arthur Godfrey WB before I-195	83	201	134:58:02	100.00%
	40	Alton Rd NB before I-195	82	196	134:38:48	96.72%
I-195 Arterial Subtotal			250	600	406:53:45	98.89%
US-1 in Miami-Dade County	23	US-1 NB beyond SW 17 Ave	246	692	1108:07:32	100.00%
	45	US-1 SB before SW 80 St	52	279	886:00:02	99.55%
	47	US-1 SB at Florida's Turnpike	26	199	844:56:30	100.00%
	46	US-1 NB before Killian Dr	101	462	1172:07:45	100.00%
	48	US-1 NB at Florida's Turnpike	32	226	858:06:05	100.00%
US-1 in Miami-Dade County Subtotal			457	1858	4869:17:54	99.91%

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	27	215	850:35:03	100.00%
	64	US-1 NB at Mile Marker 106	21	142	586:47:37	70.51%
	66	US-1 NB at Mile Marker 91.5	30	236	836:43:03	99.96%
	68	US-1 NB at Mile Marker 39.5	34	268	945:14:08	99.80%
	71	US-1 NB at Mile Marker 7.5	32	294	1478:48:39	93.22%
	61	US-1 SB at Mile Marker 126	42	356	1627:44:48	99.96%
	63	US-1 SB at Mile Marker 113	35	255	945:59:55	99.89%
	65	US-1 SB at Mile Marker 106	32	249	943:26:08	99.90%
	67	US-1 SB at Mile Marker 91.5	31	242	930:51:22	99.18%
	69	US-1 SB at Mile Marker 39.5	24	191	798:16:12	95.61%
	70	US-1 SB at Mile Marker 7.5	19	158	746:40:57	90.61%
US-1 South of Florida City Subtotal			327	2606	10691:07:52	95.33%
Arterials Subtotal			5328	17943	36467:15:41	96.89%
Limited Access Facilities Subtotal			5544	18626	37637:49:45	99.75%
Grand Total			10872	36569	74105:05:26	98.14%

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

**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			187	59	127	62	26	23	63	44	48	48	102	206
Safety Messaging			753	406	666	222	146	134	145	351	577	87	369	747
District 6	Miami-Dade	I-95	1,661	371	323	0	186	357	2,234	869	0	403	158	0
	Miami-Dade	Express Lanes	758	723	250	0	0	232	16	709	0	0	241	0
	Miami-Dade	I-195	146	1	3	0	55	59	145	9	0	39	17	0
	Miami-Dade	I-395	97	15	0	0	1	78	42	0	0	3	33	0
	Miami-Dade	MacArthur Causeway	62	11	0	0	1	21	3	0	0	0	10	0
	Miami-Dade	SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-826	220	186	2,485	1,065	0	0	398	622	2,908	0	216	0
	Miami-Dade	I-75	0	0	107	123	0	0	0	0	0	0	0	0
	Miami-Dade	US-1	60	11	10	3	15	30	41	0	96	0	143	11
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	1	372
	Monroe	Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	85
	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	1,109	601	917	368	206	196	6	499	802	0	500	1,178	
Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0	
MDX	Miami-Dade	SR-836	468	62	207	0	14	372	148	0	438	14	35	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	29	12	0	0	12	10	16	0	0	6	0	0
	Miami-Dade	SR-874	3	0	19	0	0	0	0	0	101	0	23	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-924	0	0	40	28	0	0	0	0	0	0	0	0
District 4	Broward	I-95	360	351	193	0	0	0	664	724	0	0	0	0
	Broward	Express Lanes	126	129	63	0	0	0	0	63	0	0	0	0
	Broward	I-75	0	0	36	30	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	0	0	0	0	0	0	0	0	0	0	4	7
	Miami-Dade	Floridas Turnpike Spur	0	0	0	0	0	0	0	0	0	0	0	0
	Broward	Floridas Turnpike	26	44	22	0	0	0	12	68	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			1,661	723	2,485	123	55	78	2,234	869	2,908	39	143	372
Subtotal of Off Route			4,428	2,271	2,983	1,778	607	1,434	1,717	3,089	2,062	561	1,715	2,234
Total District 6			5,053	2,384	4,888	1,843	636	1,130	3,093	3,103	4,431	580	1,790	2,599
Other Agencies			1,036	610	580	58	26	382	858	855	539	20	68	7
Total			6,089	2,994	5,468	1,901	662	1,512	3,951	3,958	4,970	600	1,858	2,606

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

