

## DMS Usage Report – April 2014

### Summary of Monthly Operations

In the month of April, there were 26,623 messages posted with 8,208 DMS activations for 1,190 events. The DMS efficiency was 99.92% (1,189 of the 1,190 signable events had DMS messages posted). There was an average of 6.90 DMSs activated per each signable event and an average of 3.24 DMS messages were posted per each DMS activation. This resulted in an average of 22.37 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

- $\frac{8208 \text{ DMS Activations}}{1190 \text{ Events}} = \underline{6.90} \text{ Average DMS Activations per Event}$

*An average of 6.90 DMSs were activated per each signable event*

- $\frac{26623 \text{ DMS Messages}}{8208 \text{ DMS Activations}} = \underline{3.24} \text{ Average DMS Messages per Activation}$

*An average of 3.24 DMS messages were posted per each DMS activation*

- $6.90 \frac{\text{DMS Activations}}{\text{Events}} \times 3.24 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{22.37^*} \text{ DMS Messages per Event}$

*An average of 22.37\* 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
FDOT District 4	1195
Florida's Turnpike Enterprise	13
Miami-Dade Expressway Authority	1398
<b>Total</b>	<b>2606</b>

**Table 2 DMS Usage by Event Type**

Event Type Message	Number of Messages
FDOT District 6 Incidents	10367
Other Districts' Incidents	1621
Construction	12157
Safety	396
Vehicle Alert	2082
<b>Total</b>	<b>26623</b>



**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	135	487	355:32:36	100.00%
	22	I-95 NB south of NW 62 St	94	297	228:15:29	94.68%
	75***	I-95 NB before SR 112	210	502	267:52:23	N/A***
	77*	I-95 NB beyond SW 8 St	0	0	0:00:00	N/A*
	2	I-95 SB north of Ives Dairy Rd	267	980	785:14:35	99.03%
	3	I-95 SB north of Miami Gardens Dr	274	955	802:11:35	100.00%
	20	I-95 SB south of NW 119 St	113	314	232:03:02	100.00%
	21	I-95 SB south of NW 62 St	143	514	372:14:41	95.15%
	74*	I-95 SB beyond of SR 112	0	0	0:00:00	N/A*
	76*	I-95 SB before Rickenbacker Cswy	0	0	0:00:00	N/A*
<b>I-95 Mainline Subtotal</b>			<b>1236</b>	<b>4049</b>	<b>3043:24:21</b>	<b>98.12%</b>
I-95 Express	95X40	95X NB at NW 62nd St	131	429	301:11:55	99.62%
	95X45	95X NB at NW 125th St	141	513	423:00:52	98.97%
	95XSB45	95X SB at NW 62nd St	129	410	308:49:17	99.54%
	95XSB50	95X SB at NW 125th St	99	209	132:49:31	99.15%
<b>I-95 Express Subtotal</b>			<b>500</b>	<b>1561</b>	<b>1165:51:35</b>	<b>99.32%</b>
SR 826	14	SR 826 NB beyond NW 122 St	91	320	271:05:46	100.00%
	4	SR 826 EB east of NW 67 Ave	144	628	710:07:18	100.00%
	5	SR 826 EB east of NW 37 Ave	333	1122	1077:18:17	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	72	151	122:36:58	97.53%
	19	SR 826 WB beyond NW 67 Ave	72	165	114:39:00	100.00%
	826NB58	SR 826 NB before NW 58 St	73	219	228:21:15	100.00%
	826SB58	SR 826 SB before NW 58 St	108	217	294:58:20	100.00%
	826SB103	SR 826 SB before NW 103 St	77	164	235:27:03	100.00%
	826NB1.3-LL	SR 826 NB before SW 72 St	92	268	200:33:43	97.64%
	826NB4.8-LL**	SR 826 NB at SW 24 St	134	342	240:12:49	N/A**
	826SB8.8-LL**	SR 826 SB at NW 36 St	122	243	324:30:26	N/A**
<b>SR 826 Subtotal</b>			<b>1318</b>	<b>3839</b>	<b>3819:50:55</b>	<b>99.46%</b>
I-75	43	I-75 NB before Miami Gardens Dr	24	47	79:32:30	99.95%
	44	I-75 SB before Miami Gardens Dr	107	309	204:34:22	99.98%
	42	I-75 SB ramp from NW 138 St	126	391	282:41:56	100.00%
<b>I-75 Subtotal</b>			<b>257</b>	<b>747</b>	<b>566:48:48</b>	<b>99.98%</b>
I-195 Mainline	57	I-195 EB before North Miami Ave	29	90	84:43:18	99.89%
	103*	SR 112 EB before NW 39 St	0	0	0:00:00	N/A*
	105*	I-195 WB before Alton Rd	0	0	0:00:00	N/A*
<b>I-195 Mainline Subtotal</b>			<b>29</b>	<b>90</b>	<b>84:43:18</b>	<b>99.89%</b>
I-395	886WB	Port Blvd WB before US-1	164	586	425:36:20	100.00%
	104	I-395 WB at Watson Island	245	666	465:13:04	98.53%
<b>I-395 Subtotal</b>			<b>409</b>	<b>1252</b>	<b>890:49:24</b>	<b>99.27%</b>
<b>Limited Access Facilities Subtotal</b>			<b>3749</b>	<b>11538</b>	<b>9571:28:21</b>	<b>99.19%</b>

**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	178	729	463:38:28	100.00%
	113	Ives Dairy Rd WB before I-95	176	727	462:06:14	99.94%
	110	Miami Gardens Dr EB before I-95	189	698	487:53:13	100.00%
	111	Miami Gardens Dr WB before I-95	202	755	500:21:14	99.76%
	112	NW 103 St EB before I-95	180	608	341:07:06	100.00%
	106	NW 79 St EB before I-95	185	684	379:28:37	99.88%
	107	NW 54 St EB before I-95	210	716	430:36:08	99.72%
	108	SW 8 St EB before I-95	50	165	80:03:34	44.72%
<b><i>I-95 Arterial Subtotal</i></b>			<b>1370</b>	<b>5082</b>	<b>3145:14:34</b>	<b>93.00%</b>
Golden Glades Interchange	6	SR 826 WB west of NE 2nd Ave	297	977	804:23:55	90.54%
	7	Turnpike SB to Golden Glades	336	1137	1021:37:40	100.00%
	9	US-441 NB at TRI-Rail	109	441	275:05:21	100.00%
	10	SR 9 NB before Park & Ride	231	935	623:49:10	100.00%
	8	US-441 SB at NW 179 St	327	1088	936:35:12	100.00%
<b><i>Golden Glades Interchange Subtotal</i></b>			<b>1300</b>	<b>4578</b>	<b>3661:31:18</b>	<b>98.11%</b>
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	159	371	278:01:04	97.62%
	SW24WB	SW 24 St WB before SR 826	159	371	278:00:52	97.62%
	SW40EB	SW 40 St EB before SR 826	140	341	259:56:39	97.62%
	SW40WB	SW 40 St WB before SR 826	140	340	259:56:34	97.61%
	SW56EB	SW 56 St EB before SR 826	105	277	153:43:12	97.62%
	SW56WB	SW 56 St WB before SR 826	105	277	153:43:01	97.61%
	SW72EB	SW 72 St EB before SR 826	90	250	142:11:22	97.61%
	SW72WB	SW 72 St WB before SR 826	92	252	142:57:39	97.61%
<b><i>SR 826 Arterial Subtotal</i></b>			<b>990</b>	<b>2479</b>	<b>1668:30:23</b>	<b>97.62%</b>
I-195 Arterial	38	Alton Rd SB before I-195	99	333	225:30:36	99.39%
	39	Arthur Godfrey WB before I-195	94	320	213:05:59	95.27%
	40	Alton Rd NB before I-195	99	329	225:17:10	99.40%
<b><i>I-195 Arterial Subtotal</i></b>			<b>292</b>	<b>982</b>	<b>663:53:45</b>	<b>98.02%</b>
US-1 in Miami-Dade County	23*	US-1 NB beyond SW 17 Ave	0	0	0:00:00	N/A*
	45	US-1 SB before SW 80 St	36	75	104:30:13	97.66%
	47	US-1 SB at Florida's Turnpike	20	77	70:24:54	100.00%
	46	US-1 NB before Killian Dr	81	215	204:00:26	97.41%
	48	US-1 NB at Florida's Turnpike	16	55	51:50:43	100.00%
<b><i>US-1 in Miami-Dade County Subtotal</i></b>			<b>153</b>	<b>422</b>	<b>430:46:16</b>	<b>98.77%</b>

**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	12	20	30:40:43	99.04%
	64	US-1 NB at Mile Marker 106	27	134	111:23:06	99.79%
	66	US-1 NB at Mile Marker 91.5	32	172	127:00:37	96.45%
	68	US-1 NB at Mile Marker 39.5	49	226	185:26:49	99.82%
	71	US-1 NB at Mile Marker 7.5	45	232	153:08:51	100.00%
	61	US-1 SB at Mile Marker 126	40	217	158:34:49	100.00%
	63	US-1 SB at Mile Marker 113	39	174	139:51:40	100.00%
	65	US-1 SB at Mile Marker 106	42	161	154:48:48	100.00%
	67	US-1 SB at Mile Marker 91.5	28	87	78:03:51	95.93%
	69	US-1 SB at Mile Marker 39.5	27	72	82:19:34	99.84%
	70	US-1 SB at Mile Marker 7.5	13	47	40:46:59	99.93%
<b>US-1 South of Florida City Subtotal</b>			<b>354</b>	<b>1542</b>	<b>1262:05:47</b>	<b>99.16%</b>
<b>Arterials Subtotal</b>			<b>4459</b>	<b>15085</b>	<b>10832:02:03</b>	<b>97.32%</b>
<b>Limited Access Facilities Subtotal</b>			<b>3749</b>	<b>11538</b>	<b>9571:28:21</b>	<b>99.19%</b>
<b>Grand Total</b>			<b>8208</b>	<b>26623</b>	<b>20403:30:24</b>	<b>98.05%</b>

\*DMS 15, 23, 74, 76, 77, 103, and 105 were undergoing testing for Capital Improvement and were used periodically. Messages posted on these devices are not computed and system availability is not measured for these devices.

\*\*Two additional DMS along the SR 826 Section 5 project are operational and are still under warranty; system availability is not measured for these devices.

\*\*\*DMS 75 under the DMS replacement project is operational and is under warranty; 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		288	128	476	129	48	68	8	127	192	35	182	401	
Safety Messaging		48	28	77	18	7	14	0	30	56	21	28	69	
District 6	Miami-Dade	I-95	2451	439	1180	59	0	318	3560	3169	6	374	0	0
	Miami-Dade	Express Lanes	466	456	128	0	0	218	0	371	0	9	0	0
	Miami-Dade	I-195	69	0	0	0	32	20	87	0	0	266	0	0
	Miami-Dade	I-395	269	237	13	0	1	382	575	37	4	146	0	0
	Miami-Dade	MacArthur Causeway	11	11	0	0	0	93	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	212	83	1488	489	0	1	241	353	1714	0	116	0
	Miami-Dade	I-75	0	0	21	20	0	0	0	0	8	0	0	0
	Miami-Dade	US-1	16	1	0	0	0	46	22	0	2	54	40	1
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	22	746
	Monroe	Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	312
	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	10	13	21	3	2	2	0	4	0	0	6	13
Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0	
MDX	Miami-Dade	SR-836	13	10	230	18	0	23	29	1	344	5	18	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	104	44	1	0	0	67	130	37	0	72	0	0
	Miami-Dade	SR-874	0	0	71	0	0	0	0	0	153	0	2	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	8	0
Miami-Dade	SR-924	0	0	10	8	0	0	0	0	0	0	0	0	
District 4	Broward	I-95	89	110	110	0	0	0	426	445	0	0	0	0
	Broward	I-75	0	0	12	3	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	0	0
	Miami-Dade	Floridas Turnpike Spur	3	1	1	0	0	0	4	4	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
Subtotal of On Route		2451	456	1488	20	32	382	3560	3169	1714	266	62	747	
Subtotal of Off Route		1598	1105	2351	727	58	870	1522	1409	765	716	360	795	
Total District 6		3840	1396	3404	718	90	1162	4493	4091	1982	905	394	1542	
Other Agencies		209	165	435	29	0	90	589	487	497	77	28	0	
Total		4049	1561	3839	747	90	1252	5082	4578	2479	982	422	1542	

Notes: *Vehicle Alert messages are signed for entire Miami-Dade and Monroe Counties; thus, is not location-specific event.*  
*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

