

## DMS Usage Report – July 2014

### Summary of Monthly Operations

In the month of July, there were 25,870 messages posted with 8,052 DMS activations for 1,086 events. The DMS efficiency was 99.72% (1,083 of the 1,086 signable events had DMS messages posted). There was an average of 7.41 DMSs activated per each signable event and an average of 3.21 DMS messages were posted per each DMS activation. This resulted in an average of 23.82 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

- $\frac{8052 \text{ DMS Activations}}{1086 \text{ Events}} = \underline{7.41} \text{ Average DMS Activations per Event}$

*An average of 7.41 DMSs were activated per each signable event*

- $\frac{25870 \text{ DMS Messages}}{8052 \text{ DMS Activations}} = \underline{3.21} \text{ Average DMS Messages per Activation}$

*An average of 3.21 DMS messages were posted per each DMS activation*

- $7.41 \frac{\text{DMS Activations}}{\text{Events}} \times 3.21 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{23.82^*} \text{ DMS Messages per Event}$

*An average of 23.82\* 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	1000
Florida's Turnpike Enterprise	77
Miami-Dade Expressway Authority	2590
<b>Total</b>	<b>3667</b>

**Table 2 DMS Usage by Event Type**

Event Type Message	Number of Messages
FDOT District 6 Incidents	14091
Other Districts' Incidents	1430
Construction	9238
Safety	0
Vehicle Alert	1111
<b>Total</b>	<b>25870</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	124	350	392:29:22	100.00%
	22	I-95 NB south of NW 62 St	67	221	312:43:45	90.04%
	75***	I-95 NB before SR 112	219	593	526:16:48	N/A***
	77***	I-95 NB beyond SW 8 St	242	819	715:09:33	N/A***
	2****	I-95 SB north of Ives Dairy Rd	255	710	913:42:05	N/A****
	3****	I-95 SB north of Miami Gardens Dr	254	710	924:10:47	N/A****
	20	I-95 SB south of NW 119 St	126	410	648:25:28	100.00%
	21	I-95 SB south of NW 62 St	175	662	810:06:29	100.00%
	74***	I-95 SB beyond of SR 112	124	502	686:47:17	N/A***
76***	I-95 SB before Rickenbacker Cswy	9	66	232:37:34	N/A***	
<b>I-95 Mainline Subtotal</b>			<b>1595</b>	<b>5043</b>	<b>6162:29:08</b>	<b>97.51%</b>
I-95 Express	95X40	95X NB at NW 62nd St	107	283	315:03:05	99.86%
	95X45	95X NB at NW 125th St	112	301	355:41:03	99.56%
	95XSB45	95X SB at NW 62nd St	172	617	757:42:05	98.98%
	95XSB50	95X SB at NW 125th St	129	322	522:50:59	99.26%
<b>I-95 Express Subtotal</b>			<b>520</b>	<b>1523</b>	<b>1951:17:12</b>	<b>99.42%</b>
SR 826	14	SR 826 NB beyond NW 122 St	54	124	61:12:00	99.84%
	4	SR 826 EB east of NW 67 Ave	107	308	731:45:05	99.98%
	5	SR 826 EB east of NW 37 Ave	267	743	991:53:08	99.96%
	15*	SR 826 WB beyond NW 17 Ave	0	0	0:00:00	N/A*
	17	SR 826 WB beyond NW 47 Ave	82	291	446:06:20	100.00%
	19	SR 826 WB beyond NW 67 Ave	119	370	577:55:42	100.00%
	826NB58	SR 826 NB before NW 58 St	51	162	284:59:31	99.74%
	826SB58	SR 826 SB before NW 58 St	120	377	517:15:59	99.85%
	826SB103	SR 826 SB before NW 103 St	128	390	599:20:56	100.00%
	826NB1.3-LL	SR 826 NB before SW 72 St	75	240	444:34:10	97.83%
	826NB4.8-LL**	SR 826 NB at SW 24 St	92	272	480:36:44	N/A**
	826SB8.8-LL**	SR 826 SB at NW 36 St	143	415	648:12:43	N/A**
<b>SR 826 Subtotal</b>			<b>1238</b>	<b>3692</b>	<b>5783:52:18</b>	<b>99.69%</b>
I-75	43	I-75 NB before Miami Gardens Dr	20	68	230:15:58	96.75%
	44	I-75 SB before Miami Gardens Dr	128	385	534:31:39	99.84%
	42	I-75 SB ramp from NW 138 St	128	409	486:56:40	99.84%
<b>I-75 Subtotal</b>			<b>276</b>	<b>862</b>	<b>1251:44:17</b>	<b>98.81%</b>
I-195 Mainline	57	I-195 EB before North Miami Ave	35	96	289:48:59	100.00%
	105***	I-195 WB before Alton Rd	147	459	660:26:51	N/A***
<b>I-195 Mainline Subtotal</b>			<b>182</b>	<b>555</b>	<b>950:15:50</b>	<b>100.00%</b>
I-395	886WB	Port Blvd WB before US-1	145	584	607:00:51	99.87%
	104	I-395 WB at Watson Island	181	459	475:15:38	95.35%
<b>I-395 Subtotal</b>			<b>326</b>	<b>1043</b>	<b>1082:16:29</b>	<b>97.61%</b>
<b>Limited Access Facilities Subtotal</b>			<b>4137</b>	<b>12718</b>	<b>17181:55:14</b>	<b>98.98%</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	135	421	439:39:37	N/A****
	113****	Ives Dairy Rd WB before I-95	128	378	355:08:49	N/A****
	110****	Miami Gardens Dr EB before I-95	122	345	394:13:47	N/A****
	111****	Miami Gardens Dr WB before I-95	126	382	403:23:32	N/A****
	112	NW 103 St EB before I-95	175	543	533:57:22	99.79%
	106	NW 79 St EB before I-95	202	733	645:31:54	99.97%
	107	NW 54 St EB before I-95	217	778	674:52:06	99.49%
	108	SW 8 St EB before I-95	113	408	344:39:15	80.09%
<b><i>I-95 Arterial Subtotal</i></b>			<b>1218</b>	<b>3988</b>	<b>3791:26:22</b>	<b>94.84%</b>
Golden Glades Interchange	6****	SR 826 WB west of NE 2nd Ave	315	887	1046:27:38	N/A****
	7	Turnpike SB to Golden Glades	293	841	1007:30:42	99.96%
	9	US-441 NB at TRI-Rail	94	334	373:23:32	99.84%
	10	SR 9 NB before Park & Ride	186	561	558:28:04	100.00%
	8	US-441 SB at NW 179 St	292	858	1004:02:55	99.96%
<b><i>Golden Glades Interchange Subtotal</i></b>			<b>1180</b>	<b>3481</b>	<b>3989:52:51</b>	<b>99.94%</b>
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	116	345	552:17:14	100.00%
	SW24WB	SW 24 St WB before SR 826	116	345	552:17:04	100.00%
	SW40EB	SW 40 St EB before SR 826	106	341	548:05:47	100.00%
	SW40WB	SW 40 St WB before SR 826	107	340	548:21:36	100.00%
	SW56EB	SW 56 St EB before SR 826	75	249	456:57:31	100.00%
	SW56WB	SW 56 St WB before SR 826	75	249	456:57:32	100.00%
	SW72EB	SW 72 St EB before SR 826	59	229	451:48:39	100.00%
	SW72WB	SW 72 St WB before SR 826	60	230	452:01:15	100.00%
<b><i>SR 826 Arterial Subtotal</i></b>			<b>714</b>	<b>2328</b>	<b>4018:46:38</b>	<b>100.00%</b>
I-195 Arterial	38	Alton Rd SB before I-195	95	345	534:13:18	99.96%
	39	Arthur Godfrey WB before I-195	86	309	524:12:34	99.89%
	40	Alton Rd NB before I-195	89	320	526:08:30	99.83%
<b><i>I-195 Arterial Subtotal</i></b>			<b>270</b>	<b>974</b>	<b>1584:34:22</b>	<b>99.89%</b>
US-1 in Miami-Dade County	23*	US-1 NB beyond SW 17 Ave	133	523	565:38:45	N/A*
	45	US-1 SB before SW 80 St	17	74	272:00:33	100.00%
	47	US-1 SB at Florida's Turnpike	29	90	272:49:37	100.00%
	46	US-1 NB before Killian Dr	39	153	443:34:23	100.00%
	48	US-1 NB at Florida's Turnpike	28	87	271:45:06	100.00%
<b><i>US-1 in Miami-Dade County Subtotal</i></b>			<b>246</b>	<b>927</b>	<b>1825:48:24</b>	<b>100.00%</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	30	95	279:55:10	99.75%
	64	US-1 NB at Mile Marker 106	16	125	283:54:22	97.41%
	66	US-1 NB at Mile Marker 91.5	34	161	296:51:54	97.05%
	68	US-1 NB at Mile Marker 39.5	27	180	339:45:00	99.15%
	71	US-1 NB at Mile Marker 7.5	19	166	303:12:22	99.85%
	61	US-1 SB at Mile Marker 126	38	157	328:11:14	99.92%
	63	US-1 SB at Mile Marker 113	39	162	330:16:23	99.72%
	65	US-1 SB at Mile Marker 106	26	145	327:49:14	97.67%
	67	US-1 SB at Mile Marker 91.5	34	129	309:38:19	95.66%
	69	US-1 SB at Mile Marker 39.5	16	73	271:53:11	99.85%
	70	US-1 SB at Mile Marker 7.5	8	61	231:49:42	99.85%
<b>US-1 South of Florida City Subtotal</b>			<b>287</b>	<b>1454</b>	<b>3303:16:51</b>	<b>98.72%</b>
<b>Arterials Subtotal</b>			<b>3915</b>	<b>13152</b>	<b>18513:45:28</b>	<b>98.99%</b>
<b>Limited Access Facilities Subtotal</b>			<b>4137</b>	<b>12718</b>	<b>17181:55:14</b>	<b>98.98%</b>
<b>Grand Total</b>			<b>8052</b>	<b>25870</b>	<b>35695:40:42</b>	<b>98.99%</b>

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

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

\*\*\* DMS 74, 75, 76, 77, and 105 under the DMS replacement project, are operational and are under warranty; thus, system availability is not measured for this device.

\*\*\*\*DMS 2, 3, 6, 109, 110, 111, and 113 are operational and are under the Express Lanes Phase 2 Contractor; thus, system availability is not measured for these devices.

**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		176	61	210	69	37	27	0	76	112	32	100	211
Safety Messaging		0	0	0	0	0	0	0	0	0	0	0	0
District 6	Miami-Dade I-95	1825	231	580	2	170	254	1863	1719	0	412	92	0
	Miami-Dade Express Lanes	709	349	160	0	0	139	0	480	0	0	0	0
	Miami-Dade I-195	30	0	0	0	26	5	18	7	0	60	5	0
	Miami-Dade I-395	902	274	0	0	51	249	767	0	0	119	269	0
	Miami-Dade MacArthur Causeway	28	7	0	0	7	16	2	0	0	21	8	0
	Miami-Dade SR-886/Port Boulevard	0	0	0	0	0	5	0	0	0	0	0	0
	Miami-Dade SR-826	185	59	1783	596	0	6	214	448	1396	0	69	0
	Miami-Dade I-75	0	0	24	19	0	0	0	0	0	0	0	0
	Miami-Dade US-1	17	5	0	0	5	7	15	0	0	0	8	8
	Monroe US-1	0	0	0	0	0	0	0	0	0	0	0	607
	Monroe Card Sound Road	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	542	269	588	146	142	110	309	247	348	132	300	615
Monroe OTHER	0	0	0	0	0	0	0	0	0	0	0	12	
MDX	Miami-Dade SR-836	100	22	118	8	11	47	80	27	214	33	29	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	425	161	0	0	106	178	388	48	0	165	45	0
	Miami-Dade SR-874	0	0	83	0	0	0	0	0	258	0	1	0
	Miami-Dade SR-878	0	0	0	0	0	0	0	0	0	0	1	0
Miami-Dade SR-924	0	0	24	18	0	0	0	0	0	0	0	0	
District 4	Broward I-95	92	82	106	0	0	0	305	401	0	0	0	0
	Broward I-75	0	0	10	4	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	1
	Miami-Dade Floridas Turnpike Spur	9	3	3	0	0	0	12	13	0	0	0	0
	Broward Floridas Turnpike	3	0	3	0	0	0	15	15	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		1825	349	1783	19	26	249	1863	1719	1396	60	8	615
Subtotal of Off Route		3218	1174	1909	843	529	794	2125	1762	932	914	919	839
Total District 6		4414	1255	3345	832	438	818	3188	2977	1856	776	851	1453
Other Agencies		629	268	347	30	117	225	800	504	472	198	76	1
Total		5043	1523	3692	862	555	1043	3988	3481	2328	974	927	1454

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

