DMS Usage Report – July 2012

Summary of Monthly Operations

In the month of July, there were 14,253 messages posted with 5,725 DMS activations for 996 events. The DMS efficiency was 99.90% (995 of the 996 signable events had a DMS messages posted). There was an average of 5.75 DMSs activated per each signable event and an average of 2.49 DMS messages were posted per each DMS activation. This resulted in an average of 14.31 DMS messages being posted per each signable event.

Note: 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

- $\frac{5725\ DMS\ Activations}{996\ Events} =$ **5.75** *Average DMS Activations per Event*

  An average of 5.75 DMSs were activated per each signable event

- $\frac{14253\ DMS\ Messages}{5725\ DMS\ Activations} =$ **2.49** *Average DMS Messages per Activation*

  An average of 2.49 DMS messages were posted per each DMS activation

- $5.75 \frac{DMS\ Activations}{Events} \times 2.49 \frac{DMS\ Messages}{DMS\ Activations} =$ **14.31*** *DMS Messages per Event*

  An average of 14.31 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	878
Florida's Turnpike Enterprise	53
Miami-Dade Expressway Authority	846
Total	**1777**

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	7345
Other Districts' Incidents	1098
Construction	4705
Safety	0
Vehicle Alert	1105
Total	**14253**

Table 3a DMS Usage by Roadway (*Limited Access Facilities*)

Roadway	ID	Location	# of Activations	# of Messages	Duration (Hr:Min)	Availability
I-95 Mainline	1	NB I-95 n/ of NW 103 ST	69	170	166:21	100.00%
	22	NB I-95 s/ of NW 62 ST	65	167	79:42	99.30%
	75	NB 1-95 s/ of SR 112	3	5	12:20	0.95%
	77	NB I-95 n/ of SW 8 ST	2	4	5:34	0.95%
	2	SB I-95 n/ Ives Dairy RD	156	317	209:41	100.00%
	3	SB I-95 n/ of Miami Gardens DR	163	313	196:36	100.00%
	20	SB I_95 s/ of NW 119 ST	95	211	205:19	100.00%
	21	SB I-95 s/ of NW 62 ST	111	339	281:53	100.00%
	74	SB I_95 s/ of SR 112	10	21	24:09	17.97%
	76	SB I-95 n/ of Rickenbacker CSWY	15	36	40:53	99.55%
		I-95 Mainline Subtotal	***689***	***1583***	***1222:31***	***71.87%***
I-95 Express	95X40	NB 95X at NW 62nd St	86	165	48:25	100.00%
	95X45	NB 95X at NW 125th St	73	169	116:28	100.00%
	95XSB45	SB 95X at NW 62nd St	66	139	101:13	100.00%
	95XSB50	SB 95X at NW 125th St	69	93	43:53	100.00%
		I-95 Express Subtotal	***294***	***566***	***309:59***	***100.00%***
SR 826	14	NB SR 826 n/ of NW 122 ST	57	136	99:41	100.00%
	4	EB SR 826 e/ of NW 67 AVE	40	101	64:33	100.00%
	5	EB SR 826 e/ of NW 37 AVE	171	343	197:24	100.00%
	15	WB SR 826 w/ of NW 17 AVE	36	91	135:57	100.00%
	17*	WB SR 826 w/ of NW 47 AVE	0	0	0:00	N/A*
	19	WB SR 826 w/ of NW 67 AVE	64	159	290:59	100.00%
	826NB58	NB SR 826 s/ of NW 58 ST	60	123	128:08	100.00%
	826SB58	SB SR 826 n/ of NW 58 ST	108	237	351:41	100.00%
	826SB103	SB SR 826 s/ of NW 103 ST	104	239	324:06	100.00%
	826NB1.3-LL**	NB SR 826 s/ of SW 72 ST	65	177	263:25	N/A**
	826NB4.8-LL**	NB SR 826 at SW 24 ST	92	214	280:59	N/A**
	826SB8.8-LL**	SB SR 826 at NW 36 ST	103	213	330:23	N/A**
		SR 826 Subtotal	***900***	***2033***	***2467:21***	***100.00%***
I-75	43	NB I-75 s/ of Miami Gardens DR	25	70	89:43	100.00%
	44	SB I-75 s/ of Miami Gardens DR	89	215	449:29	100.00%
	42	SB I-75 s/ of NW 138 ST	104	246	489:35	100.00%
		I-75 Subtotal	***218***	***531***	***1028:48***	***100.00%***
I-195 Mainline	57	EB I-195 w/ of North Miami AVE	0	0	0:00	0.00%
	103	EB SR 112 e/ of Toll Plaza	219	585	456:51	95.09%
	105	WB I-195 e/ of Alton RD	151	502	544:08	96.84%
		I-195 Mainline Subtotal	***370***	***1087***	***1001:00***	***63.98%***

Table 3b *continued* DMS Usage by Roadway (*Limited Access Facilities*)

Roadway	ID	Location	# of Activations	# of Messages	Duration (Hr:Min)	Availability
I-395	886WB	Port Blvd WB before US-1	121	321	247:47	100.00%
	104	WB I-395 @ Watson Island	194	458	252:38	100.00%
		I-395 Subtotal	***315***	***779***	***500:26***	***100.00%***
		Limited Access Facilities Subtotal	***2786***	***6579***	***6530:07***	***89.31%***

Table 3b DMS Usage by Roadway (*Arterials*)

Roadway	ID	Location	# of Activations	# of Messages	Duration (Hr:Min)	Availability
I-95 Arterial	109	EB Ives Dairy RD w/ of I-95	93	252	133:14	99.45%
	113	WB Ives Dairy RD e/ of I-95	85	225	123:45	94.32%
	110	EB Miami Gardens DR w/ of I-95	98	259	127:34	99.94%
	111	WB Miami Gardens DR e/ of I-95	108	271	141:18	99.94%
	112	EB NW 103 ST w/ of I-95	122	248	199:23	98.31%
	106	EB NW 79 ST w/ of I-95	115	261	184:23	98.99%
	107	EB NW 54 ST w/ of I-95	131	395	251:24	99.01%
	108	EB SW 8 ST w/ of I-95	91	213	221:11	97.87%
		I-95 Arterial Subtotal	***843***	***2124***	***1382:16***	***98.48%***
Golden Glades Interchange	6	WB SR 826 w/ of NE 2nd AVE	178	364	240:45	100.00%
	7	SB Turnpike to the Golden Glades	168	365	241:26	100.00%
	9	NB US-441@TRI-Rail	60	155	120:49	100.00%
	10	NB SR 9 @ the Detention Center	103	259	144:50	100.00%
	8	SB US-441 @NW 179 ST	166	332	176:34	100.00%
		Golden Glades Interchange Subtotal	***675***	***1475***	***924:26***	***100.00%***
SR 826 Arterial	SW24EB**	EB SW 24 ST w/ of SR 826	105	205	171:35	N/A**
	SW24WB**	WB SW 24 ST e/ of SR 826	105	205	171:36	N/A**
	SW40EB**	EB SW 40 ST w/ of SR 826	93	189	151:29	N/A**
	SW40WB**	WB SW 40 ST e/ of SR 826	93	189	151:29	N/A**
	SW56EB**	EB SW 56 ST w/ of SR 826	78	176	129:47	N/A**
	SW56WB**	WB SW 56 ST e/ of SR 826	78	176	129:47	N/A**
	SW72EB**	EB SW 72 ST w/ of SR 826	69	161	114:11	N/A**
	SW72WB**	WB SW 72 ST e/ of SR 826	69	158	114:11	N/A**
		SR 826 Arterial Subtotal	***690***	***1459***	***1134:05***	***N/A****
I-195 Arterial	38	SB Alton RD to WB I-195	116	384	546:10	98.61%
	39	WB 41 ST to WB I-195	106	373	502:54	96.63%
	40	NB Alton RD to WB I-195	113	381	543:08	98.86%
		I-195 Arterial Subtotal	***335***	***1138***	***1592:12***	***98.03%***

Table 3b – *continued* DMS Usage by Roadway (*Arterials*)

Roadway	ID	Location	# of Activations	# of Messages	Duration (Hr:Min)	Availability
US-1 in Miami-Dade County	23	NB US-1 n/ of SW 17 AVE	66	166	192:11	100.00%
	45	SB US-1 @ SW 62 AVE & SW 80 ST	44	125	110:15	100.00%
	47	SB US-1 @ TURNPIKE SB	8	17	31:05	100.00%
	46	NB US-1 @ Killian DR	56	295	328:39	100.00%
	48	NB US-1 @ TURNPIKE NB	21	154	93:01	100.00%
US-1 in Miami-Dade County Subtotal			***195***	***757***	***755:13***	***100.00%***
US-1 South of Florida City	62	NB US-1 @ Florida City	10	25	33:33	100.00%
	64	NB US-1 @ Mile Marker 106	20	63	83:42	94.13%
	66	NB US-1 @ Mile Marker 91.5	16	67	60:59	99.87%
	68	NB US-1 @ Mile Marker 39.5	34	121	97:33	100.00%
	71	NB US-1 @ Mile Marker 7.5	28	121	74:18	100.00%
	61*	SB US-1 @ Florida City	7	41	6:50	N/A*
	63	SB US-1 @ Mile Marker 113	24	84	50:19	97.22%
	65	SB US-1 @ Mile Marker 106	29	94	73:32	93.54%
	67	SB US-1 @ Mile Marker 91.5	4	22	15:33	30.91%
	69	SB US-1 @ Mile Marker 39.5	20	55	64:19	100.00%
	70	SB US-1 @ Mile Marker 7.5	9	28	33:20	86.06%
US-1 South of Florida City Subtotal			***201***	***721***	***594:02***	***90.17%***
Arterials Subtotal			***2939***	***7674***	***6382:17***	***97.34%***
Limited Access Facilities Subtotal			***2786***	***6579***	***6530:07***	***89.31%***
Grand Total			***5725***	***14253***	***12912:24***	***91.71%***

** DMS 17 and DMS 61 are undergoing testing for Capital Improvement and are used periodically; system availability is not measured for these devices.*

***Eleven additional DMS along the SR 826 Section 2 and Section 5 projects became operational and are still under warranty; 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	Golden Glades	I-95 Arterial	SR 826	SR 826 Arterial	I-75	I-195	I-395	US-1 in Miami-Dade County	US-1 South of Florida City
Vehicle Alert*		202	70	0	227	96	85	70	30	102	223
Safety Messaging*		0	0	0	0	0	0	0	0	0	0
I-95**		1,224	821	1,164	210	0	2	592	413	46	0
I-75		0	0	0	96	0	84	0	0	0	0
I-195		250	4	355	1	0	0	1,413	103	73	0
I-395		68	0	82	0	0	0	40	87	28	0
SR 826		82	172	69	1,248	984	352	0	0	111	0
M-CSWY		25	0	0	0	0	0	21	74	0	0
US-1 in Miami-Dade County		17	0	3	1	199	0	0	6	357	6
US-1 South of Florida City		0	0	0	0	0	0	0	0	0	488
MDX	SR 112	48	0	43	0	0	0	44	26	0	0
	SR 836	84	33	96	133	126	0	43	40	19	0
	SR 874	0	0	0	32	54	0	0	0	9	0
	SR 878	0	0	0	0	0	0	0	0	12	0
	SR 924	0	0	0	2	0	2	0	0	0	0
District 4		131	355	308	76	0	6	2	0	0	0
Florida's Turnpike		18	20	4	7	0	0	0	0	0	4
Subtotal of On Route		1,224	821	1,164	1,248	984	84	1,413	87	357	488
Subtotal of Off Route		925	654	960	785	475	447	812	692	400	233
Total District 6		1,868	1,067	1,673	1,783	1,279	523	2,136	713	717	717
Other Agencies		281	408	451	250	180	8	89	66	40	4
Total		2,149	1,475	2,124	2,033	1,459	531	2,225	779	757	721

Note: *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
** Includes I-95 Express Lanes

DMS Messages by Time of Day
Messages
800
700
600
500
400
300
200
100
0
0:00 531 162
1:00 340 143
2:00 249 103
3:00 105 314
4:00 155 158
5:00 365 160
6:00 184 493
7:00 342 338
8:00 457 125
9:00 517 67
10:00 588 42
11:00 602 97
12:00 299 156
13:00 544 132
14:00 696 100
15:00 454 118
16:00 390 178
17:00 729 130
18:00 503 294
19:00 372 81
20:00 142 65
21:00 514 155
22:00 547 124
23:00 681 212
Time (Beginning)
Weekday
Weekend