DMS Usage Report – February 2012

Summary of Monthly Operations

In the month of February, there were 12,037 messages posted with 5,911 DMS activations for 1,044 events. The DMS efficiency was 99.71% (1,041 of the 1,044 signable events had a DMS messages posted). There was an average of 5.66 DMSs activated per each signable event and an average of 2.04 DMS messages were posted per each DMS activation. This resulted in an average of 11.53 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

- $\frac{5911\ DMS\ Activations}{1044\ Events} =$ **5.66** *Average DMS Activations per Event*

  An average of 5.66 DMSs were activated per each signable event

- $\frac{12037\ DMS\ Messages}{5911\ DMS\ Activations} =$ **2.04** *Average DMS Messages per Activation*

  An average of 2.04 DMS messages were posted per each DMS activation

- $5.66 \frac{DMS\ Activations}{Events} \times 2.04 \frac{DMS\ Messages}{DMS\ Activations} =$ **11.53*** *DMS Messages per Event*

  An average of 11.53 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	454
Florida's Turnpike Enterprise	18
Miami-Dade Expressway Authority	865
Total	**1337**

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	6062
Other Districts' Incidents	735
Construction	5037
Safety	0
Vehicle Alert	203
Total	**12037**

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	95	250	293:17	100.00%
	22	NB I-95 s/ of NW 62 ST	84	156	124:51	100.00%
	75	NB 1-95 s/ of SR 112	179	310	390:39	100.00%
	77	NB I-95 n/ of SW 8 ST	198	326	448:35	100.00%
	2	SB I-95 n/ Ives Dairy RD	180	324	262:18	100.00%
	3	SB I-95 n/ of Miami Gardens DR	184	323	273:43	100.00%
	20	SB I_95 s/ of NW 119 ST	88	165	284:34	100.00%
	21	SB I-95 s/ of NW 62 ST	120	226	414:38	100.00%
	74	SB I_95 s/ of SR 112	79	132	175:02	100.00%
	76	SB I-95 n/ of Rickenbacker CSWY	13	21	27:47	99.44%
		I-95 Mainline Subtotal	***1220***	***2233***	***2695:28***	***99.94%***
I-95 Express	95X40	NB 95X at NW 62nd St	85	138	95:19	100.00%
	95X45	NB 95X at NW 125th St	89	231	286:12	100.00%
	95XSB45	SB 95X at NW 62nd St	84	126	95:19	100.00%
	95XSB50	SB 95X at NW 125th St	52	66	95:19	100.00%
		I-95 Express Subtotal	***310***	***561***	***572:09***	***100.00%***
SR 826	14	NB SR 826 n/ of NW 122 ST	42	68	30:00	100.00%
	4	EB SR 826 e/ of NW 67 AVE	39	65	18:59	100.00%
	5	EB SR 826 e/ of NW 37 AVE	179	336	282:40	100.00%
	15	WB SR 826 w/ of NW 17 AVE	60	134	326:22	100.00%
	17*	WB SR 826 w/ of NW 47 AVE	11	24	43:28	N/A*
	19	WB SR 826 w/ of NW 67 AVE	132	306	542:56	97.91%
	826NB58	NB SR 826 s/ of NW 58 ST	55	88	58:59	99.44%
	826SB58	SB SR 826 n/ of NW 58 ST	178	389	700:46	99.45%
	826SB103	SB SR 826 s/ of NW 103 ST	184	398	680:18	100.00%
		SR 826 Subtotal	***880***	***1808***	***2684:32***	***99.60%***
I-75	43	NB I-75 s/ of Miami Gardens DR	12	15	43:13	100.00%
	44	SB I-75 s/ of Miami Gardens DR	149	355	597:06	100.00%
	42	SB I-75 s/ of NW 138 ST	161	370	627:25	100.00%
		I-75 Subtotal	***322***	***740***	***1267:45***	***100.00%***
I-195 Mainline	57	EB I-195 w/ of North Miami AVE	31	354	930:12	100.00%
	103	EB SR 112 e/ of Toll Plaza	210	366	512:40	100.00%
	105	WB I-195 e/ of Alton RD	163	321	526:55	100.00%
		I-195 Mainline Subtotal	***404***	***1041***	***1969:47***	***100.00%***
I-395	886WB	Port Blvd WB before US-1	126	218	257:56	99.83%
	104	WB I-395 @ Watson Island	193	295	271:30	99.95%
		I-395 Subtotal	***319***	***513***	***529:27***	***99.89%***
		Limited Access Facilities Subtotal	***3455***	***6896***	***9719:10***	***99.91%***

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

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

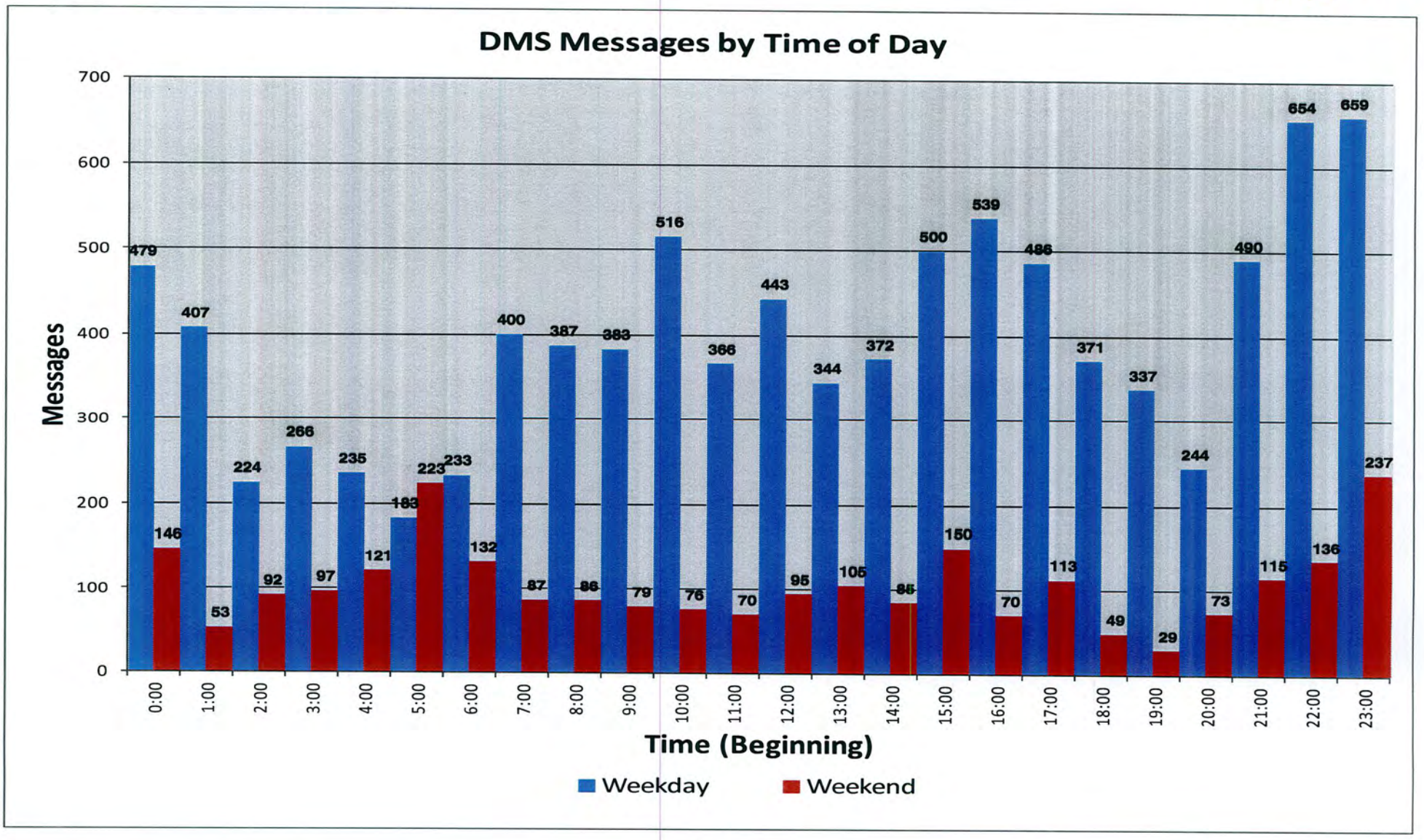
Roadway	ID	Location	# of Activations	# of Messages	Duration (Hr:Min)	Availability
I-95 Arterial	109	EB Ives Dairy RD W/ of I-95	128	262	223:13	100.00%
	113	WB Ives Dairy RD e/ of I-95	126	263	228:10	100.00%
	110	EB Miami Gardens DR w/ of I-95	147	338	382:03	100.00%
	111	WB Miami Gardens DR e/ of I-95	147	341	387:11	100.00%
	112	EB NW 103 ST w/ of I-95	137	319	364:00	99.67%
	106	EB NW 79 ST w/ of I-95	141	262	256:07	99.97%
	107	EB NW 54 ST w/ of I-95	161	311	306:54	100.00%
	108	EB SW 8 ST w/ of I-95	100	179	237:57	100.00%
		I-95 Arterial Subtotal	***1087***	***2275***	***2385:39***	***99.96%***
Golden Glades Interchange	6	WB SR 826 w/ of NE 2nd AVE	181	342	259:26	99.26%
	7	SB Turnpike to the Golden Glades	173	330	270:46	100.00%
	9	NB US-441@TRI-Rail	60	164	205:01	100.00%
	10	NB SR 9 @ the Detention Center	124	277	246:58	100.00%
	8	SB US-441 @NW 179 ST	170	317	277:24	100.00%
		Golden Glades Interchange Subtotal	***708***	***1430***	***1259:38***	***99.85%***
I-195 Arterial	38	SB Alton RD to WB I-195	102	234	376:21	100.00%
	39	WB 41 ST to WB I-195	101	233	376:02	100.00%
	40	NB Alton RD to WB I-195	101	233	376:02	99.39%
		I-195 Arterial Subtotal	***304***	***700***	***1128:26***	***99.80%***
US-1 in Miami-Dade County	23	NB US-1 n/ of SW 17 AVE	58	117	162:25	100.00%
	45	SB US-1 @ SW 62 AVE & SW 80 ST	26	47	126:34	100.00%
	47	SB US-1 @ TURNPIKE SB	5	7	15:31	100.00%
	46	NB US-1 @ Killian DR	133	272	382:18	100.00%
	48	NB US-1 @ TURNPIKE NB	16	35	61:19	100.00%
		US-1 in Miami-Dade County Subtotal	***238***	***478***	***748:08***	***100.00%***
US-1 South of Florida City	62	NB US-1 @ Florida City	4	11	8:12	100.00%
	64	NB US-1 @ Mile Marker 106	9	14	43:38	98.75%
	66	NB US-1 @ Mile Marker 91.5	4	9	14:35	100.00%
	68	NB US-1 @ Mile Marker 39.5	23	41	65:18	99.01%
	71	NB US-1 @ Mile Marker 7.5	17	36	32:20	100.00%
	61*	SB US-1 @ Florida City	2	9	4:39	N/A*
	63	SB US-1 @ Mile Marker 113	14	38	35:14	98.75%
	65	SB US-1 @ Mile Marker 106	22	49	65:52	98.75%
	67	SB US-1 @ Mile Marker 91.5	11	28	31:00	100.00%
	69	SB US-1 @ Mile Marker 39.5	12	22	41:33	98.96%
	70	SB US-1 @ Mile Marker 7.5	1	1	5:37	71.59%
		US-1 South of Florida City Subtotal	***119***	***258***	***348:03***	***96.58%***
		Arterials Subtotal	***2456***	***5141***	***5869:56***	***99.24%***
		Limited Access Facilities Subtotal	***3455***	***6896***	***9719:10***	***99.91%***
		Grand Total	***5911***	***12037***	***15589:07***	***99.35%***

* DMS 17 and DMS 61 are undergoing testing for Capital Improvement and are used periodically; 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	I-75	I-195	I-395	US-1 in Miami-Dade County	US-1 South of Florida City
Vehicle Alert*		34	5	0	42	23	23	2	24	50
Safety Messaging*		0	0	0	0	0	0	0	0	0
I-95**		1,861	1,065	1,587	277	0	537	262	45	0
I-75		0	0	0	14	51	0	0	0	0
I-195		255	44	251	7	0	1,020	57	46	0
I-395		35	0	3	0	0	6	19	5	0
SR 826		108	127	99	1,316	659	0	0	265	0
M-CSWY		109	8	0	4	0	32	43	0	0
US-1 in Miami-Dade County		15	0	7	8	0	0	10	31	10
US-1 South of Florida City		0	0	0	0	0	0	0	1	198
MDX	SR 112	136	10	57	0	0	73	28	4	0
	SR 836	159	0	97	57	6	50	92	33	0
	SR 874	0	0	0	44	0	0	0	13	0
	SR 878	0	0	0	0	0	0	0	6	0
	SR 924	0	0	0	0	0	0	0	0	0
District 4		78	167	170	38	1	0	0	0	0
Florida's Turnpike		4	4	4	1	0	0	0	5	0
Subtotal of On Route		1,861	1,065	1,587	1,316	51	1,020	19	31	198
Subtotal of Off Route		933	365	688	492	689	721	494	447	60
Total District 6		2,417	1,249	1,947	1,668	733	1,618	393	417	258
Other Agencies		377	181	328	140	7	123	120	61	0
Total		2,794	1,430	2,275	1,808	740	1,741	513	478	258

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
700
600
500
400
300
200
100
0
0:00 1:00 2:00 3:00 4:00 5:00 6:00 7:00 8:00 9:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00
479 407 224 266 235 183 233 400 387 383 516 366 443 344 372 500 539 486 371 337 244 490 654 659
146 53 92 97 121 223 132 87 86 79 76 70 95 105 85 150 70 113 49 29 73 115 136 237
Time (Beginning)
Weekday
Weekend