DMS Usage Report – August 2012

Summary of Monthly Operations

In the month of August, there were 19,805 messages posted with 7,127 DMS activations for 1,142 events. The DMS efficiency was 99.82% (1,140 of the 1,142 signable events had a DMS messages posted). There was an average of 6.24 DMSs activated per each signable event and an average of 2.78 DMS messages were posted per each DMS activation. This resulted in an average of 17.34 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

- $\frac{7127\ DMS\ Activations}{1142\ Events} =$ **6.24** *Average DMS Activations per Event*

  An average of 6.24 DMSs were activated per each signable event

- $\frac{19805\ DMS\ Messages}{7127\ DMS\ Activations} =$ **2.78** *Average DMS Messages per Activation*

  An average of 2.78 DMS messages were posted per each DMS activation

- $6.24 \frac{DMS\ Activations}{Events} \times 2.78 \frac{DMS\ Messages}{DMS\ Activations} =$ **17.34*** *DMS Messages per Event*

  An average of 17.34 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	705
Florida's Turnpike Enterprise	83
Miami-Dade Expressway Authority	1352
Total	**2140**

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	9620
Other Districts' Incidents	1573
Construction	6775
Safety	371
Vehicle Alert	1466
Total	**19805**

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	86	230	131:01	100.00%
	22	NB I-95 s/ of NW 62 ST	84	203	118:06	97.64%
	75	NB 1-95 s/ of SR 112	215	511	359:02	100.00%
	77	NB I-95 n/ of SW 8 ST	213	534	354:16	99.49%
	2	SB I-95 n/ Ives Dairy RD	167	400	223:06	98.18%
	3	SB I-95 n/ of Miami Gardens DR	177	388	235:55	100.00%
	20	SB I_95 s/ of NW 119 ST	92	289	297:53	100.00%
	21	SB I-95 s/ of NW 62 ST	122	367	296:10	100.00%
	74	SB I_95 s/ of SR 112	72	204	86:57	100.00%
	76	SB I-95 n/ of Rickenbacker CSWY	19	124	92:36	99.74%
		I-95 Mainline Subtotal	***1247***	***3250***	***2195:06***	***99.51%***
I-95 Express	95X40	NB 95X at NW 62nd St	72	127	61:13	80.10%
	95X45	NB 95X at NW 125th St	75	183	139:14	100.00%
	95XSB45	SB 95X at NW 62nd St	73	171	70:54	100.00%
	95XSB50	SB 95X at NW 125th St	58	113	45:35	100.00%
		I-95 Express Subtotal	***278***	***594***	***316:57***	***95.03%***
SR 826	14	NB SR 826 n/ of NW 122 ST	72	309	165:13	100.00%
	4	EB SR 826 e/ of NW 67 AVE	58	278	127:49	100.00%
	5	EB SR 826 e/ of NW 37 AVE	189	517	252:56	100.00%
	15	WB SR 826 w/ of NW 17 AVE	49	124	126:33	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	74	194	195:13	100.00%
	826NB58	NB SR 826 s/ of NW 58 ST	78	273	161:26	100.00%
	826SB58	SB SR 826 n/ of NW 58 ST	137	352	287:45	100.00%
	826SB103	SB SR 826 s/ of NW 103 ST	118	288	230:53	100.00%
	826NB1.3-LL**	NB SR 826 s/ of SW 72 ST	87	231	253:08	N/A**
	826NB4.8-LL**	NB SR 826 at SW 24 ST	132	353	297:37	N/A**
	826SB8.8-LL**	SB SR 826 at NW 36 ST	115	299	243:55	N/A**
		SR 826 Subtotal	***1109***	***3218***	***2342:34***	***100.00%***
I-75	43	NB I-75 s/ of Miami Gardens DR	32	114	130:02	99.53%
	44	SB I-75 s/ of Miami Gardens DR	101	316	202:55	99.53%
	42	SB I-75 s/ of NW 138 ST	119	410	260:20	99.53%
		I-75 Subtotal	***252***	***840***	***593:17***	***99.53%***
I-195 Mainline	57	EB I-195 w/ of North Miami AVE	7	29	29:59	17.45%
	103	EB SR 112 e/ of Toll Plaza	226	538	371:11	95.08%
	105	WB I-195 e/ of Alton RD	163	493	610:57	91.88%
		I-195 Mainline Subtotal	***396***	***1060***	***1012:07***	***68.14%***

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	122	346	238:19	99.42%
	104	WB I-395 @ Watson Island	203	451	274:46	99.53%
		I-395 Subtotal	***325***	***797***	***513:05***	***99.48%***
		Limited Access Facilities Subtotal	***3607***	***9759***	***6973:09***	***93.61%***

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	100	287	140:49	92.89%
	113	WB Ives Dairy RD e/ of I-95	105	306	164:23	99.11%
	110	EB Miami Gardens DR w/ of I-95	112	248	150:55	91.59%
	111	WB Miami Gardens DR e/ of I-95	130	283	176:51	99.83%
	112	EB NW 103 ST w/ of I-95	121	303	225:21	99.54%
	106	EB NW 79 ST w/ of I-95	127	322	214:38	97.94%
	107	EB NW 54 ST w/ of I-95	165	439	242:59	100.00%
	108	EB SW 8 ST w/ of I-95	103	326	240:16	99.88%
		I-95 Arterial Subtotal	***963***	***2514***	***1556:16***	***97.60%***
Golden Glades Interchange	6	WB SR 826 w/ of NE 2nd AVE	185	409	236:01	100.00%
	7	SB Turnpike to the Golden Glades	183	417	237:36	100.00%
	9	NB US-441@TRI-Rail	64	176	154:33	100.00%
	10	NB SR 9 @ the Detention Center	111	277	182:39	100.00%
	8	SB US-441 @NW 179 ST	181	397	229:50	100.00%
		Golden Glades Interchange Subtotal	***724***	***1676***	***1040:41***	***100.00%***
SR 826 Arterial	SW24EB**	EB SW 24 ST w/ of SR 826	148	436	262:00	N/A**
	SW24WB**	WB SW 24 ST e/ of SR 826	149	443	262:23	N/A**
	SW40EB**	EB SW 40 ST w/ of SR 826	143	419	255:33	N/A**
	SW40WB**	WB SW 40 ST e/ of SR 826	143	419	255:33	N/A**
	SW56EB**	EB SW 56 ST w/ of SR 826	124	369	235:30	N/A**
	SW56WB**	WB SW 56 ST e/ of SR 826	124	369	235:30	N/A**
	SW72EB**	EB SW 72 ST w/ of SR 826	106	281	205:53	N/A**
	SW72WB**	WB SW 72 ST e/ of SR 826	107	279	205:57	N/A**
		SR 826 Arterial Subtotal	***1044***	***3015***	***1918:22***	***N/A****
I-195 Arterial	38	SB Alton RD to WB I-195	128	438	609:04	100.00%
	39	WB 41 ST to WB I-195	112	347	552:52	92.53%
	40	NB Alton RD to WB I-195	115	378	507:35	90.44%
		I-195 Arterial Subtotal	***355***	***1163***	***1669:33***	***94.32%***

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	72	229	199:47	100.00%
	45	SB US-1 @ SW 62 AVE & SW 80 ST	68	300	220:13	100.00%
	47	SB US-1 @ TURNPIKE SB	10	37	41:56	100.00%
	46	NB US-1 @ Killian DR	64	204	261:44	100.00%
	48	NB US-1 @ TURNPIKE NB	37	224	196:42	100.00%
US-1 in Miami-Dade County Subtotal			***251***	***994***	***920:24***	***100.00%***
US-1 South of Florida City	62	NB US-1 @ Florida City	12	47	50:08	100.00%
	64	NB US-1 @ Mile Marker 106	23	100	81:59	96.82%
	66	NB US-1 @ Mile Marker 91.5	13	51	37:58	99.20%
	68	NB US-1 @ Mile Marker 39.5	31	100	85:52	93.65%
	71	NB US-1 @ Mile Marker 7.5	20	73	48:30	100.00%
	61*	SB US-1 @ Florida City	3	12	11:37	N/A*
	63	SB US-1 @ Mile Marker 113	17	88	51:20	96.67%
	65	SB US-1 @ Mile Marker 106	28	105	86:59	96.82%
	67	SB US-1 @ Mile Marker 91.5	7	19	27:52	26.73%
	69	SB US-1 @ Mile Marker 39.5	22	65	74:32	96.59%
	70	SB US-1 @ Mile Marker 7.5	7	24	32:09	100.00%
US-1 South of Florida City Subtotal			***183***	***684***	***589:01***	***90.65%***
Arterials Subtotal			***3520***	***10046***	***7694:19***	***96.51%***
Limited Access Facilities Subtotal			***3607***	***9759***	***6973:09***	***93.61%***
Grand Total			***7127***	***19805***	***14667:29***	***95.86%***

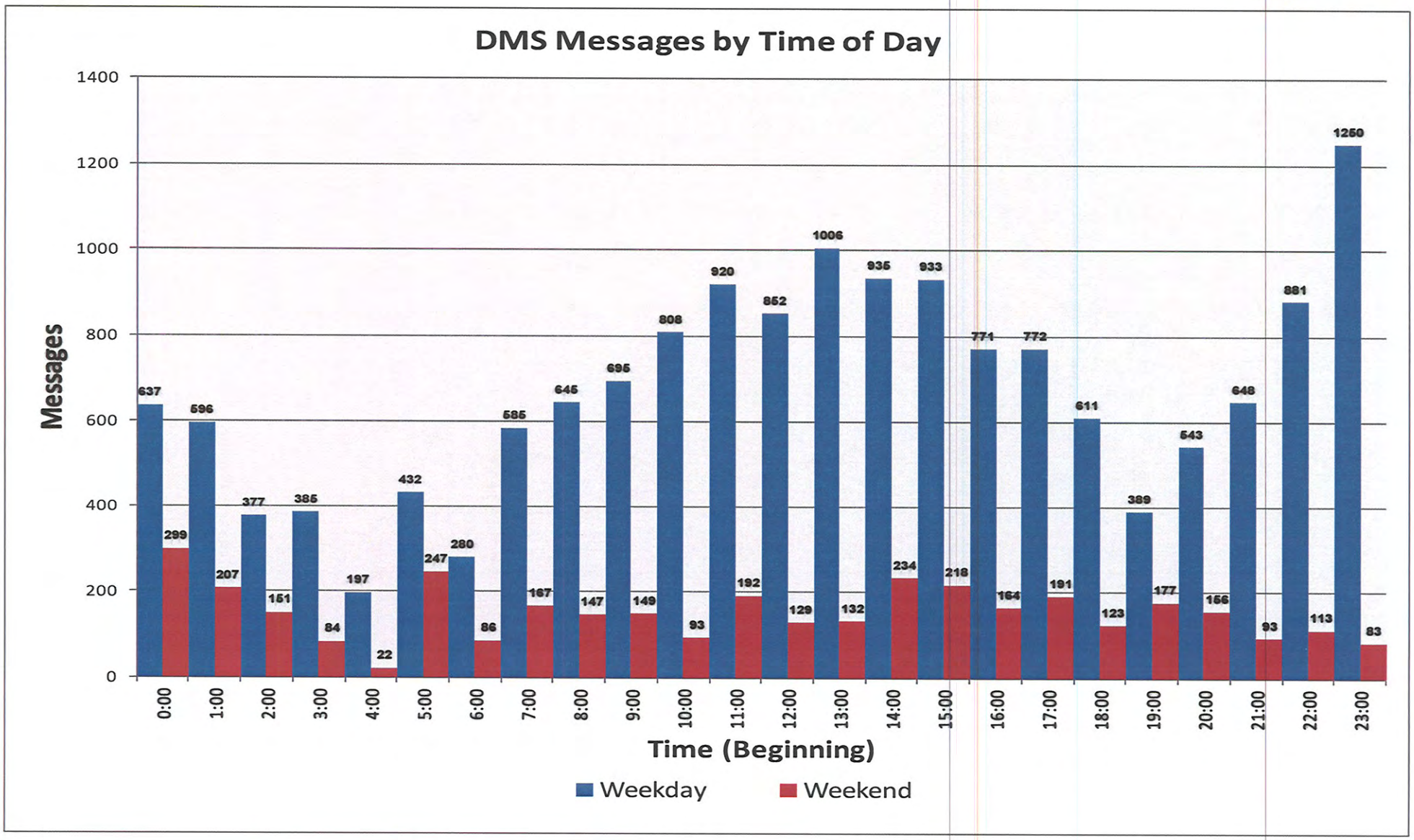
** DMS 17 and DMS 61 are undergoing testing for Capital Improvement and are used periodically; system availability is not measured for these devices.*

***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*		304	65	40	255	72	126	108	29	149	318
Safety Messaging*		98	9	0	60	0	27	36	21	60	60
I-95**		1,969	883	1,390	277	0	3	458	391	89	0
I-75		0	0	0	94	0	75	0	0	0	0
I-195		587	8	445	0	0	0	1,375	136	85	0
I-395		172	0	126	0	0	0	124	66	37	0
SR 826		213	417	180	2,076	2,054	589	1	1	95	0
M-CSWY		76	0	0	0	0	0	11	36	0	0
US-1 in Miami-Dade County		122	0	37	3	354	0	0	46	443	14
US-1 South of Florida City		0	0	0	0	0	0	0	0	0	270
MDX	SR 112	68	4	23	0	0	0	70	13	1	0
	SR 836	111	4	33	262	393	0	40	58	8	0
	SR 874	0	0	1	86	142	0	0	0	24	0
	SR 878	0	0	0	0	0	0	0	0	3	0
	SR 924	0	0	0	4	0	4	0	0	0	0
District 4		105	258	233	93	0	16	0	0	0	0
Florida's Turnpike		19	28	6	8	0	0	0	0	0	22
Subtotal of On Route		1,969	883	1,390	2,076	2,054	75	1,375	66	443	270
Subtotal of Off Route		1,875	793	1,124	1,142	961	765	848	731	551	414
Total District 6		3,541	1,382	2,218	2,765	2,480	820	2,113	726	958	662
Other Agencies		303	294	296	453	535	20	110	71	36	22
Total		3,844	1,676	2,514	3,218	3,015	840	2,223	797	994	684

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
1400
1200
1000
800
600
400
200
0
637
299
596
207
377
151
385
84
197
22
432
247
280
86
585
167
645
147
695
149
808
93
920
192
852
129
1006
132
935
234
933
218
771
164
772
191
611
123
389
177
543
156
648
93
881
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1250
83
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Time (Beginning)
Weekday
Weekend