DMS Usage Report – June 2012

Summary of Monthly Operations

In the month of June, there were 12,650 messages posted with 5,641 DMS activations for 936 events. The DMS efficiency was 99.79% (934 of the 936 signable events had a DMS messages posted). There was an average of 6.03 DMSs activated per each signable event and an average of 2.24 DMS messages were posted per each DMS activation. This resulted in an average of 13.51 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

- $\frac{5641\ DMS\ Activations}{936\ Events} =$ **6.03** *Average DMS Activations per Event*

  An average of 6.03 DMSs were activated per each signable event

- $\frac{12650\ DMS\ Messages}{5641\ DMS\ Activations} =$ **2.24** *Average DMS Messages per Activation*

  An average of 2.24 DMS messages were posted per each DMS activation

- $6.03 \frac{DMS\ Activations}{Events} \times 2.24 \frac{DMS\ Messages}{DMS\ Activations} =$ **13.51*** *DMS Messages per Event*

  An average of 13.51 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	678
Florida's Turnpike Enterprise	6
Miami-Dade Expressway Authority	1221
Total	**1905**

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	7264
Other Districts' Incidents	1115
Construction	3753
Safety	0
Vehicle Alert	518
Total	**12650**

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	88	177	86:58	100.00%
	22	NB I-95 s/ of NW 62 ST	76	150	70:01	99.30%
	75	NB 1-95 s/ of SR 112	0	0	0:00	0.00%
	77	NB I-95 n/ of SW 8 ST	0	0	0:00	0.00%
	2	SB I-95 n/ Ives Dairy RD	149	330	156:03	100.00%
	3	SB I-95 n/ of Miami Gardens DR	154	337	151:22	100.00%
	20	SB I_95 s/ of NW 119 ST	65	149	196:20	100.00%
	21	SB I-95 s/ of NW 62 ST	102	270	292:21	100.00%
	74	SB I_95 s/ of SR 112	0	0	0:00	0.00%
	76	SB I-95 n/ of Rickenbacker CSWY	12	26	29:21	99.89%
		I-95 Mainline Subtotal	***646***	***1439***	***982:29***	***69.92%***
I-95 Express	95X40	NB 95X at NW 62nd St	70	130	47:08	99.97%
	95X45	NB 95X at NW 125th St	81	164	92:30	72.75%
	95XSB45	SB 95X at NW 62nd St	69	144	148:22	98.17%
	95XSB50	SB 95X at NW 125th St	63	88	76:54	99.97%
		I-95 Express Subtotal	***283***	***526***	***364:56***	***92.72%***
SR 826	14	NB SR 826 n/ of NW 122 ST	48	78	83:30	100.00%
	4	EB SR 826 e/ of NW 67 AVE	33	59	41:00	100.00%
	5	EB SR 826 e/ of NW 37 AVE	158	276	150:28	100.00%
	15	WB SR 826 w/ of NW 17 AVE	54	108	84:42	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	142	163:56	100.00%
	826NB58	NB SR 826 s/ of NW 58 ST	56	98	108:23	100.00%
	826SB58	SB SR 826 n/ of NW 58 ST	120	234	244:12	100.00%
	826SB103	SB SR 826 s/ of NW 103 ST	119	241	216:28	100.00%
	826NB1.3-LL**	NB SR 826 s/ of SW 72 ST	75	175	305:45	N/A**
	826NB4.8-LL**	NB SR 826 at SW 24 ST	109	237	355:06	N/A**
	826SB8.8-LL**	SB SR 826 at NW 36 ST	122	241	261:03	N/A**
		SR 826 Subtotal	***968***	***1889***	***2014:36***	***100.00%***
I-75	43	NB I-75 s/ of Miami Gardens DR	19	29	75:58	100.00%
	44	SB I-75 s/ of Miami Gardens DR	70	132	179:20	100.00%
	42	SB I-75 s/ of NW 138 ST	80	142	209:38	100.00%
		I-75 Subtotal	***169***	***303***	***464:57***	***100.00%***
I-195 Mainline	57	EB I-195 w/ of North Miami AVE	2	2	5:42	1.21%
	103	EB SR 112 e/ of Toll Plaza	214	492	422:38	100.00%
	105	WB I-195 e/ of Alton RD	145	421	464:12	100.00%
		I-195 Mainline Subtotal	***361***	***915***	***892:33***	***67.07%***

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	106	268	245:45	98.39%
	104	WB I-395 @ Watson Island	169	409	241:30	96.83%
		I-395 Subtotal	***275***	***677***	***487:16***	***97.61%***
		Limited Access Facilities Subtotal	***2702***	***5749***	***5206:48***	***87.89%***

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	86	245	101:44	99.98%
	113	WB Ives Dairy RD e/ of I-95	84	237	95:24	100.00%
	110	EB Miami Gardens DR w/ of I-95	97	245	118:38	100.00%
	111	WB Miami Gardens DR e/ of I-95	108	278	120:48	100.00%
	112	EB NW 103 ST w/ of I-95	116	285	194:14	99.67%
	106	EB NW 79 ST w/ of I-95	110	249	204:14	99.01%
	107	EB NW 54 ST w/ of I-95	150	343	276:28	100.00%
	108	EB SW 8 ST w/ of I-95	102	265	225:00	100.00%
		I-95 Arterial Subtotal	***853***	***2147***	***1336:33***	***99.83%***
Golden Glades Interchange	6	WB SR 826 w/ of NE 2nd AVE	182	358	198:48	100.00%
	7	SB Turnpike to the Golden Glades	173	325	188:16	100.00%
	9	NB US-441@TRI-Rail	63	135	87:53	100.00%
	10	NB SR 9 @ the Detention Center	112	247	153:00	100.00%
	8	SB US-441 @NW 179 ST	179	333	192:50	100.00%
		Golden Glades Interchange Subtotal	***709***	***1398***	***820:48***	***100.00%***
SR 826 Arterial	SW24EB**	EB SW 24 ST w/ of SR 826	124	255	240:11	N/A**
	SW24WB**	WB SW 24 ST e/ of SR 826	124	255	240:11	N/A**
	SW40EB**	EB SW 40 ST w/ of SR 826	121	252	217:08	N/A**
	SW40WB**	WB SW 40 ST e/ of SR 826	119	248	222:52	N/A**
	SW56EB**	EB SW 56 ST w/ of SR 826	97	189	141:57	N/A**
	SW56WB**	WB SW 56 ST e/ of SR 826	97	189	141:57	N/A**
	SW72EB**	EB SW 72 ST w/ of SR 826	82	164	130:21	N/A**
	SW72WB**	WB SW 72 ST e/ of SR 826	82	164	130:21	N/A**
		SR 826 Arterial Subtotal	***846***	***1716***	***1464:58***	***N/A****
I-195 Arterial	38	SB Alton RD to WB I-195	92	292	386:35	99.38%
	39	WB 41 ST to WB I-195	76	226	321:43	83.70%
	40	NB Alton RD to WB I-195	90	291	379:08	99.38%
		I-195 Arterial Subtotal	***258***	***809***	***1087:26***	***94.15%***

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	60	157	173:22	100.00%
	45	SB US-1 @ SW 62 AVE & SW 80 ST	40	73	122:10	100.00%
	47	SB US-1 @ TURNPIKE SB	7	23	30:34	100.00%
	46	NB US-1 @ Killian DR	53	153	312:11	100.00%
	48	NB US-1 @ TURNPIKE NB	9	35	31:03	100.00%
US-1 in Miami-Dade County Subtotal			***169***	***441***	***669:21***	***100.00%***
US-1 South of Florida City	62	NB US-1 @ Florida City	4	6	21:23	100.00%
	64	NB US-1 @ Mile Marker 106	9	13	48:34	100.00%
	66	NB US-1 @ Mile Marker 91.5	8	28	31:27	100.00%
	68	NB US-1 @ Mile Marker 39.5	14	42	41:49	83.83%
	71	NB US-1 @ Mile Marker 7.5	12	40	30:00	100.00%
	61*	SB US-1 @ Florida City	3	15	2:33	N/A*
	63	SB US-1 @ Mile Marker 113	14	82	37:21	100.00%
	65	SB US-1 @ Mile Marker 106	18	86	60:53	100.00%
	67	SB US-1 @ Mile Marker 91.5	12	60	32:42	99.58%
	69	SB US-1 @ Mile Marker 39.5	6	10	32:29	86.70%
	70	SB US-1 @ Mile Marker 7.5	4	8	20:40	100.00%
US-1 South of Florida City Subtotal			***104***	***390***	***359:54***	***97.01%***
Arterials Subtotal			***2939***	***6901***	***5739:03***	***98.20%***
Limited Access Facilities Subtotal			***2702***	***5749***	***5206:48***	***87.89%***
Grand Total			***5641***	***12650***	***10945:52***	***92.09%***

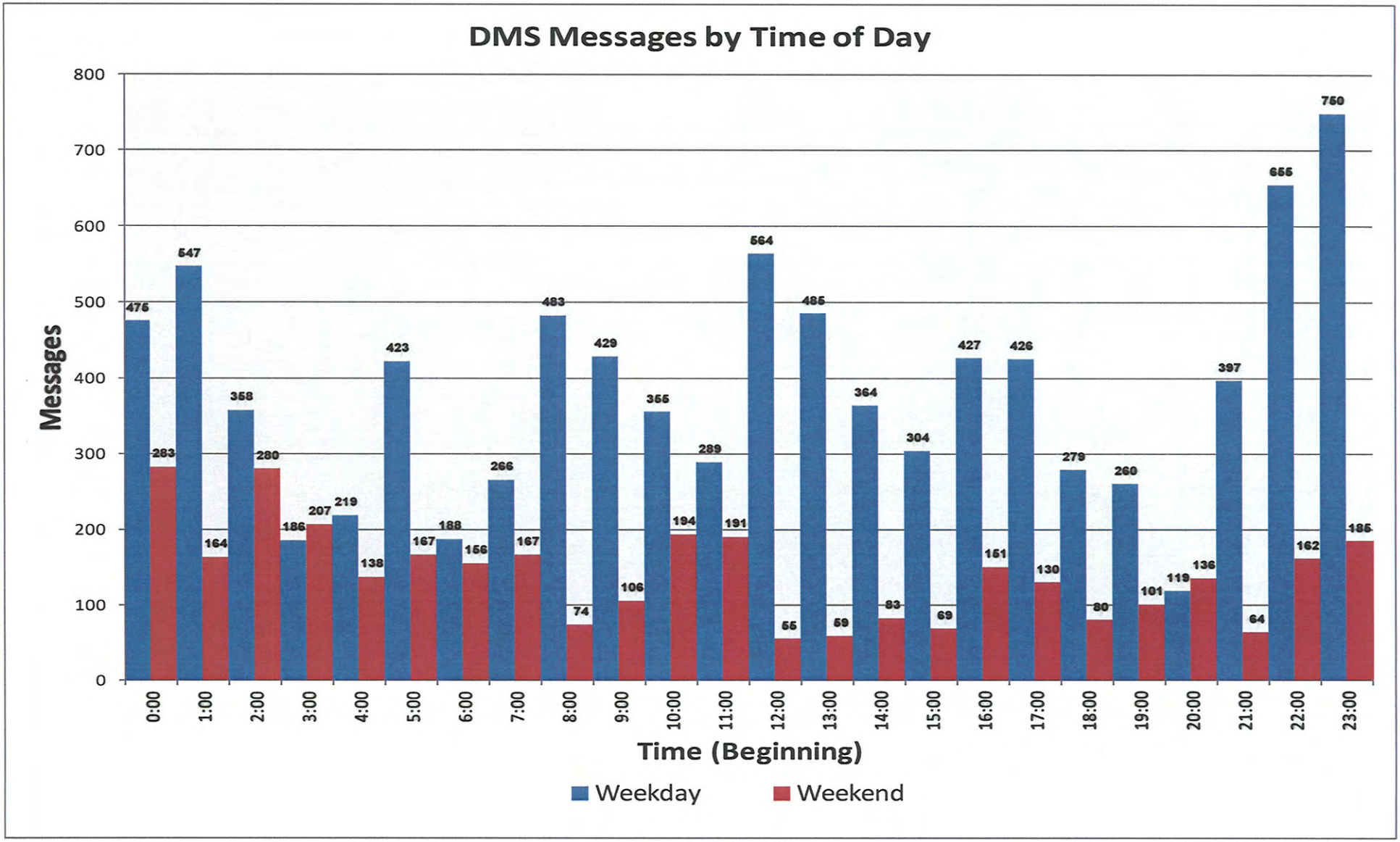
** DMS 17 and DMS 61 are undergoing testing for Capital Improvement and are used periodically; system availability is not measured for these devices.*

***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*		96	40	0	100	64	32	41	16	40	89
Safety Messaging*		0	0	0	0	0	0	0	0	0	0
I-95**		1,175	689	1,189	183	0	0	485	369	45	0
I-75		0	0	0	29	0	19	0	0	0	0
I-195		198	76	373	20	6	0	1,023	117	78	0
I-395		79	12	85	7	11	0	56	73	29	0
SR 826		166	312	153	1,170	1,131	228	4	0	101	0
M-CSWY		5	0	0	0	0	0	5	17	0	0
US-1 in Miami-Dade County		25	0	17	0	40	0	8	16	105	0
US-1 South of Florida City		0	0	0	0	0	0	0	0	0	298
MDX	SR 112	82	12	70	0	0	0	88	45	3	0
	SR 836	23	0	22	229	334	10	13	22	5	0
	SR 874	0	0	0	72	130	0	0	0	22	0
	SR 878	5	0	2	0	0	0	1	2	10	0
	SR 924	1	5	1	8	0	4	0	0	0	0
District 4		112	252	235	69	0	10	0	0	0	0
Florida's Turnpike		0	0	0	0	0	0	0	0	3	3
Subtotal of On Route		1,175	689	1,189	1,170	1,131	19	1,023	73	105	298
Subtotal of Off Route		792	709	958	717	585	284	701	604	336	92
Total District 6		1,744	1,129	1,817	1,509	1,252	279	1,622	608	398	387
Other Agencies		223	269	330	378	464	24	102	69	43	3
Total		1,967	1,398	2,147	1,887	1,716	303	1,724	677	441	390

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 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
476 283 547 164 358 280 186 207 219 138 423 167 188 156 266 167 483 74 429 106 355 194 289 191 564 55 485 59 364 83 304 69 427 151 426 130 279 80 260 101 119 136 397 64 655 162 750 185
Time (Beginning)
Weekday
Weekend