DMS Usage Report – December 2012

Summary of Monthly Operations

In the month of December, there were 17,162 messages posted with 5,587 DMS activations for 855 events. The DMS efficiency was 99.77% (853 of the 855 signable events had a DMS messages posted). There was an average of 6.53 DMSs activated per each signable event and an average of 3.07 DMS messages were posted per each DMS activation. This resulted in an average of 20.07 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

- $\frac{5587\ DMS\ Activations}{855 Events} =$ **6.53** *Average DMS Activations per Event*

  An average of 6.53 DMSs were activated per each signable event

- $\frac{17162\ DMS\ Messages}{5587\ DMS\ Activations} =$ **3.07** *Average DMS Messages per Activation*

  An average of 3.07 DMS messages were posted per each DMS activation

- $6.53 \frac{DMS\ Activations}{Events} \times 3.07 \frac{DMS\ Messages}{DMS\ Activations} =$ **20.07*** *DMS Messages per Event*

  An average of 20.07 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	1843
Florida's Turnpike Enterprise	142
Miami-Dade Expressway Authority	1107
Total	**3092**

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	10248
Other Districts' Incidents	1637
Construction	3818
Safety	0
Vehicle Alert	1459
Total	**17162**

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	112	409	401:20:11	100.00%
	22	NB I-95 s/ of NW 62 ST	96	368	379:43:30	100.00%
	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	176	464	322:36:19	100.00%
	3	SB I-95 n/ of Miami Gardens DR	175	463	312:51:45	100.00%
	20	SB I_95 s/ of NW 119 ST	67	259	125:15:41	100.00%
	21	SB I-95 s/ of NW 62 ST	75	223	125:37:38	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	60	27:58:07	98.04%
		I-95 Mainline Subtotal	***713***	***2246***	***1695:23:11***	***69.80%***
I-95 Express	95X40	NB 95X at NW 62nd St	96	284	329:29:14	99.40%
	95X45	NB 95X at NW 125th St	105	334	385:53:29	98.41%
	95XSB45	SB 95X at NW 62nd St	79	235	116:14:52	99.90%
	95XSB50	SB 95X at NW 125th St	70	222	59:39:49	99.79%
		I-95 Express Subtotal	***350***	***1075***	***891:17:24***	***99.38%***
SR 826	14	NB SR 826 n/ of NW 122 ST	43	114	54:20:16	100.00%
	4	EB SR 826 e/ of NW 67 AVE	69	205	314:20:05	100.00%
	5	EB SR 826 e/ of NW 37 AVE	197	566	457:46:52	100.00%
	15	WB SR 826 w/ of NW 17 AVE	35	132	120:13:01	100.00%
	17*	WB SR 826 w/ of NW 47 AVE	57	192	172:26:07	N/A*
	19	WB SR 826 w/ of NW 67 AVE	82	257	310:36:08	100.00%
	826NB58	NB SR 826 s/ of NW 58 ST	44	106	87:51:35	100.00%
	826SB58	SB SR 826 n/ of NW 58 ST	105	269	346:54:17	99.83%
	826SB103	SB SR 826 s/ of NW 103 ST	88	242	300:18:37	100.00%
	826NB1.3-LL	NB SR 826 s/ of SW 72 ST	58	118	128:51:53	100.00%
	826NB4.8-LL**	NB SR 826 at SW 24 ST	82	160	199: 09:00	N/A**
	826SB8.8-LL**	SB SR 826 at NW 36 ST	105	275	387:44:12	N/A**
		SR 826 Subtotal	***965***	***2636***	***2880:32:03***	***99.98%***
I-75	43	NB I-75 s/ of Miami Gardens DR	20	54	67:28:40	100.00%
	44	SB I-75 s/ of Miami Gardens DR	96	287	328:44:57	100.00%
	42	SB I-75 s/ of NW 138 ST	112	317	367:12:00	100.00%
		I-75 Subtotal	***228***	***658***	***763:25:37***	***100.00%***
I-195 Mainline	57*	EB I-195 w/ of North Miami AVE	0	0	0:00:00	N/A*
	103*	EB SR 112 e/ of Toll Plaza	98	220	145:17:13	N/A*
	105*	WB I-195 e/ of Alton RD	63	178	132:54:25	N/A*
		I-195 Mainline Subtotal	***161***	***398***	***278:11:38***	***N/A***
I-395	886WB	Port Blvd WB before US-1	117	462	175:47:24	99.96%
	104	WB I-395 @ Watson Island	163	472	266:14:46	98.01%
		I-395 Subtotal	***280***	***934***	***442:02:10***	***98.99%***
		Limited Access Facilities Subtotal	***2697***	***7947***	***6950:52:03***	***89.05%***

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

Roadway	ID	Location	# of Activations	# of Messages	Duration (Hr:min:ss)	Availability
I-95 Arterial	109	EB Ives Dairy RD w/ of I-95	115	366	240:04:43	98.42%
	113	WB Ives Dairy RD e/ of I-95	102	331	213:19:27	92.64%
	110	EB Miami Gardens DR w/ of I-95	123	399	251:48:21	99.07%
	111	WB Miami Gardens DR e/ of I-95	120	381	250:05:42	94.60%
	112	EB NW 103 ST w/ of I-95	114	439	227:34:17	99.15%
	106	EB NW 79 ST w/ of I-95	113	384	167:50:32	96.08%
	107	EB NW 54 ST w/ of I-95	134	461	236:45:45	100.00%
	108	EB SW 8 ST w/ of I-95	81	265	204:42:25	94.56%
		I-95 Arterial Subtotal	***902***	***3026***	***1792:11:12***	***96.82%***
Golden Glades Interchange	6	WB SR 826 w/ of NE 2nd AVE	196	578	434:12:09	97.34%
	7	SB Turnpike to the Golden Glades	191	544	226:42:32	99.89%
	9	NB US-441@TRI-Rail	87	311	293:22:49	98.98%
	10	NB SR 9 @ the Detention Center	130	463	318:57:06	98.98%
	8	SB US-441 @NW 179 ST	194	574	346:23:37	99.88%
		Golden Glades Interchange Subtotal	***798***	***2470***	***1619:38:13***	***99.01%***
SR 826 Arterial	SW24EB	EB SW 24 ST w/ of SR 826	89	189	139:07:27	100.00%
	SW24WB	WB SW 24 ST e/ of SR 826	89	189	139:07:32	97.97%
	SW40EB	EB SW 40 ST w/ of SR 826	83	195	132:03:24	100.00%
	SW40WB	WB SW 40 ST e/ of SR 826	83	195	132:03:20	100.00%
	SW56EB	EB SW 56 ST w/ of SR 826	89	258	164:23:11	100.00%
	SW56WB	WB SW 56 ST e/ of SR 826	80	224	148:29:43	91.84%
	SW72EB	EB SW 72 ST w/ of SR 826	80	256	168:21:25	100.00%
	SW72WB	WB SW 72 ST e/ of SR 826	79	249	166:52:57	100.00%
		SR 826 Arterial Subtotal	***672***	***1755***	***1190:28:59***	***98.73%***
I-195 Arterial	38	SB Alton RD to WB I-195	54	222	165:47:58	95.05%
	39	WB 41 ST to WB I-195	55	231	166:23:28	96.13%
	40	NB Alton RD to WB I-195	55	231	166:23:23	96.33%
		I-195 Arterial Subtotal	***164***	***684***	***498:34:49***	***95.84%***
US-1 in Miami-Dade County	23	NB US-1 n/ of SW 17 AVE	68	273	191:07:09	99.12%
	45	SB US-1 @ SW 62 AVE & SW 80 ST	48	204	149:07:57	100.00%
	47	SB US-1 @ TURNPIKE SB	12	34	32:33:58	100.00%
	46	NB US-1 @ Killian DR	44	116	215:09:49	100.00%
	48	NB US-1 @ TURNPIKE NB	24	129	103:17:51	100.00%
		US-1 in Miami-Dade County Subtotal	***196***	***756***	***691:16:44***	***99.82%***

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	NB US-1 @ Florida City	9	23	32:22:46	99.92%
	64	NB US-1 @ Mile Marker 106	16	40	64:26:24	92.66%
	66	NB US-1 @ Mile Marker 91.5	8	26	29:52:09	99.12%
	68	NB US-1 @ Mile Marker 39.5	24	74	76:31:48	99.43%
	71	NB US-1 @ Mile Marker 7.5	19	75	41:04:10	99.78%
	61*	SB US-1 @ Florida City	0	0	0:00:00	N/A*
	63	SB US-1 @ Mile Marker 113	17	69	40:06:01	100.00%
	65	SB US-1 @ Mile Marker 106	22	70	70:57:24	92.66%
	67	SB US-1 @ Mile Marker 91.5	13	52	33:19:00	99.37%
	69	SB US-1 @ Mile Marker 39.5	22	73	74:44:18	99.39%
	70	SB US-1 @ Mile Marker 7.5	8	22	29:42:57	99.79%
US-1 South of Florida City Subtotal			***158***	***524***	***493:06:57***	***98.21%***
Arterials Subtotal			***2890***	***9215***	***6285:16:54***	***98.16%***
Limited Access Facilities Subtotal			***2697***	***7947***	***6950:52:03***	***89.05%***
Grand Total			***5587***	***17162***	***13236:08:57***	***94.35%***

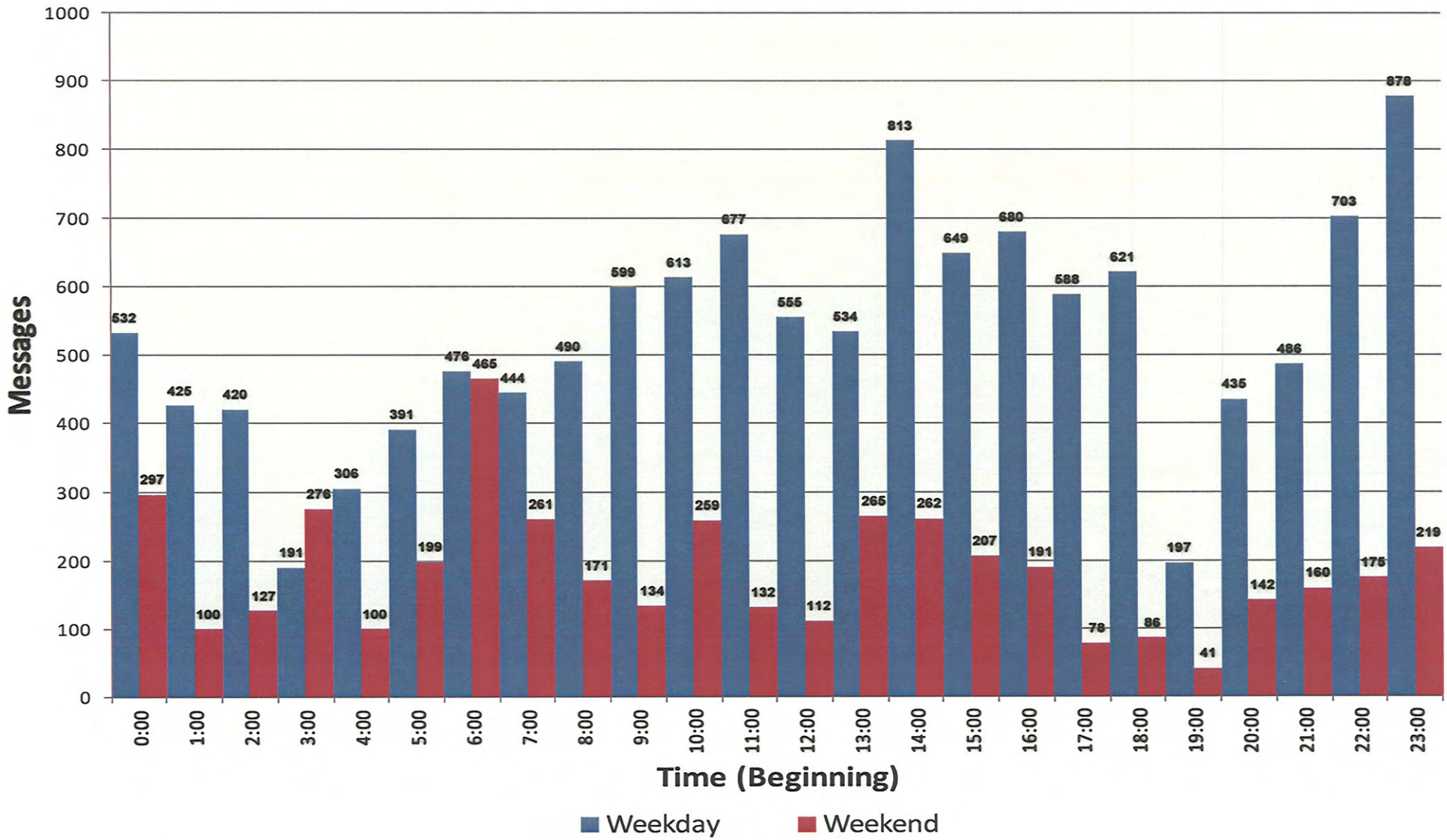
**DMS 17, 57, 61, 103, and 105 are undergoing testing for Capital Improvement and are used periodically; system availability is not measured for these devices.*

***Two additional DMS along the SR 826 Section 5 project are 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	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			193	79	346	107	32	38	8	101	104	39	129	283
Safety Messaging			0	0	0	0	0	0	0	0	0	0	0	0
District 6	Miami-Dade	I-95	1320	374	376	0	191	455	2070	1255	0	368	176	0
District 6	Miami-Dade	Express Lanes	243	309	133	0	66	121	3	363	0	0	0	0
District 6	Miami-Dade	I-195	4	0	0	0	20	3	8	0	0	133	0	0
District 6	Miami-Dade	I-395	27	22	0	0	19	80	49	0	0	0	22	0
District 6	Miami-Dade	MacArthur Causeway	81	80	0	0	15	68	0	0	0	3	0	0
District 6	Miami-Dade	SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
District 6	Miami-Dade	SR-826	35	6	1300	464	1	0	34	73	848	0	38	0
District 6	Miami-Dade	I-75	0	0	20	22	0	0	0	0	0	0	0	0
District 6	Miami-Dade	US-1	37	0	73	0	0	8	2	0	651	0	300	1
District 6	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	2	239
District 6	Monroe	Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	0
District 6	Miami-Dade	SR-9	0	0	0	0	0	0	0	0	0	0	0	0
District 6	Miami-Dade	US-27	0	0	0	0	0	0	0	0	0	0	0	0
District 6	Miami-Dade	US-441	0	0	0	0	0	0	0	0	0	0	0	0
District 6	Miami-Dade	OTHER	0	0	0	0	0	0	0	0	0	0	0	0
District 6	Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0
MDX	Miami-Dade	SR-836	22	18	112	0	15	46	54	0	130	18	15	0
MDX	Miami-Dade	SR-836 Extension to 137th Ave	0	0	0	0	0	0	0	0	0	0	0	0
MDX	Miami-Dade	SR-112	74	47	17	0	35	45	155	80	0	51	23	0
MDX	Miami-Dade	SR-874	0	0	15	0	0	0	0	0	22	0	1	0
MDX	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	1	0
MDX	Miami-Dade	SR-924	0	0	61	50	0	0	0	0	0	0	0	0
District 4	Broward	I-95	173	125	153	0	4	70	621	546	0	72	49	0
District 4	Broward	I-75	0	0	18	12	0	0	0	0	0	0	0	0
District 4	Broward	I-595	0	0	0	0	0	0	0	0	0	0	0	0
District 4	Palm Beach	I-95	0	0	0	0	0	0	0	0	0	0	0	0
District 4	Indian River	I-95	0	0	0	0	0	0	0	0	0	0	0	0
District 4	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
Turnpike	Miami-Dade	Floridas Turnpike Spur	36	14	11	3	0	0	22	48	0	0	0	0
Turnpike	Broward	Floridas Turnpike	1	1	1	0	0	0	0	4	0	0	0	0
Turnpike	Palm Beach	Floridas Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
Turnpike	Martin	Floridas Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
Turnpike	St. Lucie	Floridas Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal of On Route			1320	309	1300	22	20	80	2070	1255	848	133	302	240
Subtotal of Off Route			926	766	1336	636	378	854	956	1215	907	551	454	284
Total District 6			1940	870	2248	593	344	773	2174	1792	1603	543	667	523
Other Agencies			306	205	388	65	54	161	852	678	152	141	89	1
Total			2246	1075	2636	658	398	934	3026	2470	1755	684	756	524

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