DMS Usage Report – October 2016

Summary of Monthly Operations

In the month of October, there were 39,686 messages posted with 10,351 DMS activations for 1,523 events. The DMS efficiency was 99.93% (1,522 of the 1,523 signable events had DMS messages posted) for all roadways. There was an average of 6.80 DMSs activated per each signable event and an average of 3.83 DMS messages were posted per each DMS activation. This resulted in an average of 26.06 DMS messages being posted per each signable event.

Notes: 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

- $\frac{10351\,DMS\ Activations}{1523\,Events} =$ **6.80** *Average DMS Activations per Event*

  An average of 6.80 DMSs were activated per each signable event

- $\frac{39686\,DMS\ Messages}{10351\,DMS\ Activations} =$ **3.83** *Average DMS Messages per Activation*

  An average of 3.83 DMS messages were posted per each DMS activation

- $6.80\frac{DMS\,Activations}{Events} \times 3.83\frac{DMS\,Messages}{DMS\,Activations} =$ **26.06*** *DMS Messages per Event*

  An average of 26.06 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
Port of Miami Tunnel	597
FDOT District 4	1464
Florida's Turnpike Enterprise	2
Miami-Dade Expressway Authority	1434
Total	**3497**

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	17025
Other Districts' Incidents	2581
Construction	4723
Safety	13755
Vehicle Alert	1602
Total	**39686**

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

Roadway	ID	Location	# of Activations	# of Messages	Duration (Hr:Min:Ss)	Availability
I-95 Mainline	1	I-95 NB beyond NW 103 St	218	833	2241:55:45	100.00%
	22	I-95 NB south of NW 62 St	152	560	1374:19:28	100.00%
	75	I-95 NB before SR 112	310	914	1251:46:50	100.00%
	77	I-95 NB beyond SW 8 St	363	1080	1438:03:28	99.90%
	2***	I-95 SB north of Ives Dairy Rd	335	1058	1656:52:26	N/A***
	3***	I-95 SB north of Miami Gardens Dr	314	1035	1406:24:30	N/A***
	095NB013.5LL***	I-95 NB north of NW 173 St	95	437	1075:10:33	N/A***
	20	I-95 SB south of NW 119 St	119	500	829:29:46	100.00%
	21	I-95 SB south of NW 62 St	137	613	974:13:35	99.97%
	74	I-95 SB beyond of SR 112	166	688	1116:00:24	100.00%
	76	I-95 SB before Rickenbacker Cswy	44	277	714:40:22	100.00%
		I-95 Mainline Subtotal	***2253***	***7995***	***14078:57:07***	***99.98%***
I-95 Express	95X40	95X NB at NW 62nd St	195	611	1353:47:32	99.89%
	95X45	95X NB at NW 125th St	214	733	1451:59:54	98.66%
	95XSB45	95X SB at NW 62nd St	133	565	941:30:20	96.11%
	95XSB50	95X SB at NW 125th St	138	572	909:12:03	99.89%
	095SB014.6-EL***	95X SB at Miami Gardens Dr	256	855	1310:15:55	N/A***
	095NB014.8-EL***	95X SB north of Miami Gardens Dr	77	405	1073:04:47	N/A***
		I-95 Express Subtotal	***1013***	***3741***	***7039:50:31***	***98.64%***
SR 826	14	SR 826 NB beyond NW 122 St	116	540	1115:46:36	100.00%
	4	SR 826 EB east of NW 67 Ave	314	1027	1406:22:48	100.00%
	5	SR 826 EB east of NW 37 Ave	105	558	977:30:19	99.47%
	15*	SR 826 WB beyond NW 17 Ave	0	0	0:00:00	N/A*
	17	SR 826 WB beyond NW 47 Ave	92	445	844:19:10	100.00%
	19	SR 826 WB beyond NW 67 Ave	122	568	880:19:15	99.91%
	826NB58	SR 826 NB before NW 58 St	96	430	824:21:37	100.00%
	826SB58	SR 826 SB before NW 58 St	72	329	569:26:43	N/A****
	826SB103****	SR 826 SB before NW 103 St	78	316	598:18:39	100.00%
	826NB1.3-LL	SR 826 NB before SW 72 St	52	249	684:27:40	96.13%
	826NB4.8-LL**	SR 826 NB at SW 24 St	189	557	1236:54:00	N/A**
	826SB8.8-LL**	SR 826 SB at NW 36 St	166	496	971:21:30	N/A**
		SR 826 Subtotal	***1402***	***5515***	***10109:08:17***	***99.44%***
I-75	43	I-75 NB before Miami Gardens Dr	46	334	1613:53:48	100.00%
	44	I-75 SB before Miami Gardens Dr	158	698	1188:20:24	99.67%
	42	I-75 SB ramp from NW 138 St	163	711	1198:55:03	100.00%
		I-75 Subtotal	***367***	***1743***	***4001:09:15***	***99.89%***
I-195 Mainline	57	I-195 EB before North Miami Ave	36	236	686:18:33	96.82%
	105	I-195 WB before Alton Rd	129	416	727:46:44	98.72%
		I-195 Mainline Subtotal	***165***	***652***	***1414:05:17***	***97.77%***
I-395	886WB	Port Blvd WB before US-1	189	605	881:51:40	99.95%
	104	I-395 WB at Watson Island	337	862	968:35:55	97.59%
		I-395 Subtotal	***526***	***1467***	***1850:27:35***	***98.77%***
		Limited Access Facilities Subtotal	***5726***	***21113***	***38493:38:02***	***99.36%***

Table 3b DMS Usage by Roadway (Arterials)

Roadway	ID	Location	# of Activations	# of Messages	Duration (Hr:min:ss)	Availability
I-95 Arterial	109***	Ives Dairy EB Rd before I-95	179	611	784:23:01	N/A***
	113***	Ives Dairy Rd WB before I-95	40	123	131:45:20	N/A***
	110***	Miami Gardens Dr EB before I-95	188	649	866:22:04	N/A***
	111	Miami Gardens Dr WB before I-95	8	26	50:03:07	1.33%
	112*	NW 103 St EB before I-95	0	0	0:00:00	N/A*
	106	NW 79 St EB before I-95	190	597	714:25:11	97.60%
	107	NW 54 St EB before I-95	196	626	759:31:46	98.46%
	108	SW 8 St EB before I-95	135	550	804:06:19	99.57%
		I-95 Arterial Subtotal	***936***	***3182***	***4110:36:48***	***74.24%***
Golden Glades Interchange	6	SR 826 WB west of NE 2nd Ave	303	1017	1230:44:14	87.53%
	7	Turnpike SB to Golden Glades	312	1063	1247:04:01	100.00%
	9	US-441 NB at TRI-Rail	112	490	1004:18:41	99.48%
	10	SR 9 NB before Park & Ride	109	476	911:13:37	93.94%
	8	US-441 SB at NW 179 St	266	965	1338:39:24	100.00%
		Golden Glades Interchange Subtotal	***1102***	***4011***	***5731:59:57***	***96.19%***
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	121	429	767:35:38	97.03%
	SW24WB	SW 24 St WB before SR 826	121	429	767:35:29	97.03%
	SW40EB	SW 40 St EB before SR 826	86	336	724:28:59	97.08%
	SW40WB	SW 40 St WB before SR 826	85	335	724:28:18	97.03%
	SW56EB	SW 56 St EB before SR 826	64	298	703:14:10	96.54%
	SW56WB	SW 56 St WB before SR 826	64	298	703:14:20	96.59%
	SW72EB	SW 72 St EB before SR 826	12	82	209:45:38	28.41%
	SW72WB	SW 72 St WB before SR 826	12	82	209:45:35	28.41%
	WFLAGLEREB**	W Flagler ST EB before SR 826	88	310	582:16:38	N/A**
	WFLAGLERWB**	W Flagler ST WB before SR 826	92	331	614:21:42	N/A**
	NW25EB**	NW 25 ST EB before SR 826	141	538	869:48:35	N/A**
	NW25WB**	NW 25 ST WB before SR 826	141	538	869:48:30	N/A**
	NW36EB**	NW 36 ST EB before SR 826	132	530	849:36:08	N/A**
	NW36WB**	NW 36 ST WB before SR 826	134	532	850:10:54	N/A**
	SW8EB**	SW 8 ST EB before SR 826	108	401	721:31:35	N/A**
	SW8WB**	SW 8 ST WB before SR 826	76	273	499:06:03	N/A**
	SW88EB**	Kendall DR EB before SR 826	44	249	674:39:03	N/A**
	SW88WB**	Kendall DR WB before SR 826	44	249	674:39:02	N/A**
		SR 826 Arterial Subtotal	***1565***	***6240***	***12016:06:17***	***79.77%***
I-195 Arterial	38	Alton Rd SB before I-195	89	323	677:27:07	94.66%
	39	Arthur Godfrey WB before I-195	87	317	676:50:21	93.99%
	40	Alton Rd NB before I-195	91	330	698:18:51	98.63%
		I-195 Arterial Subtotal	***267***	***970***	***2052:36:19***	***95.76%***

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	US-1 NB beyond SW 17 Ave	267	781	954:31:22	100.00%
	45	US-1 SB before SW 80 St	43	260	748:46:37	99.92%
	47	US-1 SB at Florida's Turnpike	29	211	717:42:14	100.00%
	46	US-1 NB before Killian Dr	43	256	738:21:59	99.92%
	48	US-1 NB at Florida's Turnpike	37	229	726:30:35	99.36%
US-1 in Miami-Dade County Subtotal			***419***	***1737***	***3885:52:47***	***99.84%***
US-1 South of Florida City	62	US-1 NB at Mile Marker 126	32	238	728:15:13	100.00%
	64	US-1 NB at Mile Marker 106	27	219	1315:17:15	100.00%
	66	US-1 NB at Mile Marker 91.5	22	161	526:46:37	76.65%
	68	US-1 NB at Mile Marker 39.5	34	212	764:50:14	97.43%
	71	US-1 NB at Mile Marker 7.5	28	183	1161:41:05	88.20%
	61	US-1 SB at Mile Marker 126	42	319	1480:49:52	100.00%
	63	US-1 SB at Mile Marker 113	41	278	724:33:06	98.96%
	65	US-1 SB at Mile Marker 106	40	273	739:34:47	100.00%
	67	US-1 SB at Mile Marker 91.5	24	167	489:06:14	73.34%
	69	US-1 SB at Mile Marker 39.5	27	192	683:46:42	97.44%
	70	US-1 SB at Mile Marker 7.5	19	191	673:53:49	99.51%
US-1 South of Florida City Subtotal			***336***	***2433***	***9288:34:54***	***93.78%***
Arterials Subtotal			***4625***	***18573***	***37085:47:02***	***89.83%***
Limited Access Facilities Subtotal			***5726***	***21113***	***38493:38:02***	***99.36%***
Grand Total			***10351***	***39686***	***75579:25:04***	***93.92%***

**DMS 15 and 112 were undergoing testing for Capital Improvement and were used periodically. Messages posted on these DMS are not computed and system availability is not measured for these devices.*

***Twelve DMS along the SR 826 Section 5 project are operational and are still under warranty; system availability is not measured for these devices.*

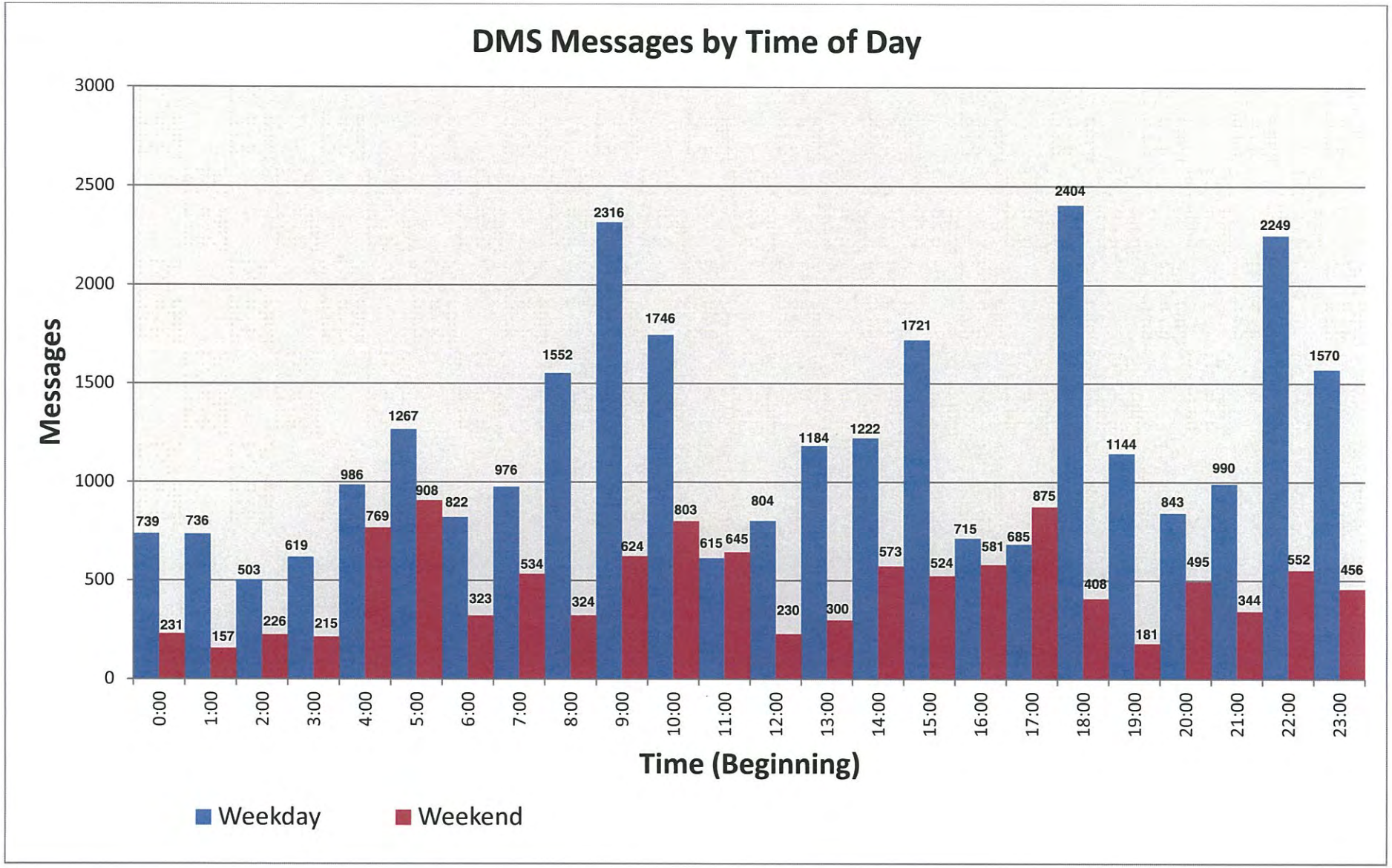
**** DMS 2, 3, 109, 110, 113, FLD6DOT095NB013.5-LL, FLD6DOT095SB014.6-EL, and FLD6DOT095NB014.8-EL are operational and are under the Express Lanes Phase 2 Contractor; thus, system availability is not measured for these devices.*

*****DMS 826SBNW103ST01 is under the SR-826/I-75 Express Lanes Contractor; thus, system availability is not measured for this device.*

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	I-395	I-95 Arterial	Golden Glades	SR 826 Arterial	I-195 Arterial	US-1 in Miami-Dade County	US-1 South of Florida City
Vehicle Alert*			292	79	231	100	33	36	55	36	242	48	156	294
Safety Messaging*			2,480	1,373	1,700	498	324	317	728	933	2,449	472	829	1,652
District 6	Miami-Dade	I-95	2,120	551	426	4	185	368	1,527	951	27	359	115	0
District 6	Miami-Dade	Express Lanes	1,290	1,000	313	0	0	281	2	902	0	0	309	0
District 6	Miami-Dade	I-195	115	0	0	0	49	51	83	0	0	64	18	0
District 6	Miami-Dade	I-395	194	50	0	0	6	125	121	0	0	15	46	0
District 6	Miami-Dade	MacArthur Cswy	62	10	0	0	4	20	5	0	0	12	10	0
District 6	Miami-Dade	SR-886/ Port Blvd	0	0	0	0	0	0	0	0	0	0	0	0
District 6	Miami-Dade	SR 826	428	212	2,017	838	0	0	188	802	3,052	0	41	0
District 6	Miami-Dade	I-75	0	0	81	151	0	0	0	0	6	0	0	0
District 6	Miami-Dade	US-1	63	0	7	0	0	13	37	0	126	0	89	28
District 6	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	324
District 6	Monroe	Card Sound Rd	0	0	0	0	0	0	0	0	0	0	0	0
District 6	Miami-Dade	SR-997/ Krome Ave	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	98	60	89	52	30	15	0	16	0	0	45	134
District 6	Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0
MDX	Miami-Dade	SR 836	258	12	368	0	6	232	17	0	276	0	9	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	51	15	0	0	15	9	24	0	0	0	1	0
MDX	Miami-Dade	SR 874	0	0	30	0	0	0	0	0	62	0	9	0
MDX	Miami-Dade	SR 878	0	0	0	0	0	0	0	0	0	0	0	0
MDX	Miami-Dade	SR 924	0	0	24	16	0	0	0	0	0	0	0	0
District 4	Broward	I-95	206	175	103	0	0	0	218	345	0	0	0	0
District 4	Broward	Express Lanes	98	84	38	0	0	0	0	25	0	0	0	0
District 4	Broward	I-75	0	0	88	84	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	Florida's Turnpike	0	0	0	0	0	0	0	1	0	0	0	1
Turnpike	Miami-Dade	Florida's Turnpike Spur	0	0	0	0	0	0	0	0	0	0	0	0
Turnpike	Broward	Florida's Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
Turnpike	Palm Beach	Florida's Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
Turnpike	Martin	Florida's Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
Turnpike	St. Lucie	Florida's Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
Port	Miami-Dade	Port Miami Tunnel	240	120	0	0	0	0	177	0	0	0	60	0
Subtotal of On Route			2,120	1,000	2,017	151	49	125	1,527	951	3,052	64	89	324
Subtotal of Off Route			5,875	2,741	3,498	1,592	603	1,342	1,655	3,060	3,188	906	1,648	2,109
Total District 6			7,142	3,335	4,864	1,643	631	1,226	2,746	3,640	5,902	970	1,658	2,432
Other Agencies			853	406	651	100	21	241	436	371	338	0	79	1
Total			7,995	3,741	5,515	1,743	652	1,467	3,182	4,011	6,240	970	1,737	2,433

Notes: *Vehicle Alert messages are signed for entire Miami-Dade and Monroe Counties; thus, they are not location-specific events.*
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
Messages
3000
2500
2000
1500
1000
500
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
739 231 736 157 503 226 619 215 986 769 1267 908 822 323 976 534 1552 324 2316 624 1746 803 615 645 804 230 1184 300 1222 573 1721 524 715 581 685 875 2404 408 1144 181 843 495 990 344 2249 552 1570 456
Time (Beginning)
Weekday
Weekend