FLORIDA DEPARTMENT OF TRANSPORTATION - DISTRICT VI
TRANSPORTATION SYSTEMS MANAGEMENT & OPERATIONS (TSM&O)
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DMS Usage Report – October 2018

Summary of Monthly Operations

In the month of October, there were 33,360 messages posted with 12,310 DMS activations for 1,749 events. The DMS efficiency was 99.94% (1,748 of the 1,749 signable events had DMS messages posted) for all roadways. There was an average of 7.04 DMSs activated per each signable event and an average of 2.71 DMS messages were posted per each DMS activation. This resulted in an average of 19.07 DMS messages being posted per each signable event.

Summary of Average Monthly Operations

- $\frac{12{,}310\ DMS\ Activations}{1{,}749 Events}$ = **7.04** *Average DMS Activations per Event*

  An average of 7.04 DMSs were activated per each signable event

- $\frac{33{,}360\ DMS\ Messages}{12{,}310 DMS\ Activations}$ = **2.71** *Average DMS Messages per Activation*

  An average of 2.71 DMS messages were posted per each DMS activation

- $7.04\ \frac{DMS\ Activations}{Events}$ x $2.71\ \frac{DMS\ Messages}{DMS\ Activations}$ = **19.07*** *DMS Messages per Event*

  An average of 19.07 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
Port of Miami Tunnel	99
FDOT District 4	614
Florida's Turnpike Enterprise	175
Miami-Dade Expressway Authority	1145
Total	**2033**

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	13818
Other Districts' Incidents	1362
Construction	9717
Safety	6515
Vehicle Alert	1948
Total	**33360**

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	236	577	1881:42:17	100.00%
	22	I-95 NB south of NW 62 St	160	408	1066:59:46	100.00%
	75	I-95 NB before SR 112	337	760	1690:56:42	100.00%
	77	I-95 NB beyond SW 8 St	371	802	1980:59:37	100.00%
	2	I-95 SB north of Ives Dairy Rd	264	599	1708:57:10	100.00%
	3	I-95 SB north of Miami Gardens Dr	302	734	1809:56:26	100.00%
	095NB013.5LL	I-95 NB north of NW 173 St	118	287	877:26:03	100.00%
	20	I-95 SB south of NW 119 St	163	475	1464:56:16	96.86%
	21	I-95 SB south of NW 62 St	133	339	1238:41:38	100.00%
	74	I-95 SB beyond of SR 112	174	403	1210:35:43	100.00%
	76	I-95 SB before Rickenbacker Cswy	38	157	852:44:47	100.00%
		I-95 Mainline Subtotal	***2296***	***5541***	***15783:56:25***	***99.71%***
I-95 Express	95X40	95X NB at NW 62nd St	214	481	1267:44:35	99.15%
	95X45	95X NB at NW 125th St	250	590	1276:40:03	100.00%
	95XSB45	95X SB at NW 62nd St	114	305	947:53:23	100.00%
	95XSB50	95X SB at NW 125th St	106	282	880:31:05	99.15%
	095SB014.6-EL	95X SB at Miami Gardens Dr	295	707	1804:48:58	100.00%
	095NB014.8-EL	95X SB north of Miami Gardens Dr	92	219	852:19:13	100.00%
		I-95 Express Subtotal	***1071***	***2584***	***7029:57:17***	***99.72%***
SR 826	4	SR 826 EB east of NW 67 Ave	94	247	1115:29:08	100.00%
	5	SR 826 EB east of NW 37 Ave	336	788	1848:27:03	100.00%
	14***	SR 826 NB beyond NW 122 St	111	293	1277:55:55	N/A***
	15	SR 826 WB beyond NW 17 Ave	95	287	1370:47:46	99.44%
	17	SR 826 WB beyond NW 47 Ave	125	317	1510:34:47	100.00%
	19	SR 826 WB beyond NW 67 Ave	148	346	1701:05:58	97.12%
	826NB58	SR 826 NB before NW 58 St	102	240	1223:46:43	98.75%
	826SB103***	SR 826 SB before NW 103 St	86	223	1114:34:03	N/A***
	826SB58	SR 826 SB before NW 58 St	78	190	948:32:52	99.25%
	826NB1.3-LL	SR 826 NB before SW 72 St	102	268	1289:49:44	100.00%
	826NB4.8-LL**	SR 826 NB at SW 24 St	251	490	1939:49:57	84.16%
	826SB8.8-LL***	SR 826 SB at NW 36 St	209	416	1500:31:13	N/A***
		SR 826 Subtotal	***1737***	***4105***	***16841:25:09***	***97.64%***
I-75	43	I-75 NB before Miami Gardens Dr	30	156	1563:55:56	100.00%
	44	I-75 SB before Miami Gardens Dr	173	396	1761:00:18	100.00%
	42	I-75 SB ramp from NW 138 St	161	388	1621:46:54	99.98%
	FLD6DOT075SB	I-75 SB South of Miami Gardens Dr	5	89	754:03:53	98.57%
		I-75 Subtotal	***369***	***1029***	***5700:47:01***	***99.64%***
I-195 Mainline	57	I-195 EB before North Miami Ave	34	127	830:22:02	100.00%
	105	I-195 WB before Alton Rd	200	806	1777:54:45	100.00%
		I-195 Mainline Subtotal	***234***	***933***	***2608:16:47***	***100.00%***
I-395	886WB	Port Blvd WB before US-1	196	470	1653:51:39	100.00%
	104	I-395 WB at Watson Island	347	757	1899:31:05	99.05%
		I-395 Subtotal	***543***	***1227***	***3553:22:44***	***99.53%***
		Limited Access Facilities Subtotal	***6250***	***15419***	***51517:45:23***	***99.18%***

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	189	471	1132:57:49	97.82%
	113	Ives Dairy Rd WB before I-95	110	277	728:55:29	63.76%
	110	Miami Gardens Dr EB before I-95	233	596	1258:39:21	100.00%
	111	Miami Gardens Dr WB before I-95	242	619	1258:32:10	99.29%
	112	NW 103 St EB before I-95	278	757	1581:26:30	99.94%
	106	NW 79 St EB before I-95	233	591	1754:31:58	97.42%
	107	NW 54 St EB before I-95	190	473	1225:39:32	98.30%
	108	SW 8 St EB before I-95	112	297	970:41:03	99.12%
		I-95 Arterial Subtotal	***1587***	***4081***	***9911:23:52***	***94.46%***
Golden Glades Interchange	6	SR 826 WB west of NE 2nd Ave	345	829	1833:54:50	99.47%
	7	Turnpike SB to Golden Glades	295	744	1634:01:22	99.56%
	9	US-441 NB at TRI-Rail	113	332	1014:10:23	99.49%
	10	SR 9 NB before Park & Ride	113	333	1014:09:51	99.49%
	8	US-441 SB at NW 179 St	243	647	1718:31:01	99.49%
		Golden Glades Interchange Subtotal	***1109***	***2885***	***7214:47:27***	***99.50%***
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	143	341	1413:15:55	100.00%
	SW24WB	SW 24 St WB before SR 826	143	341	1413:16:06	100.00%
	SW40EB	SW 40 St EB before SR 826	124	321	1346:32:12	99.94%
	SW40WB	SW 40 St WB before SR 826	123	320	1346:23:06	100.00%
	SW56EB	SW 56 St EB before SR 826	100	288	1284:51:00	100.00%
	SW56WB	SW 56 St WB before SR 826	100	288	1284:51:08	100.00%
	SW72EB	SW 72 St EB before SR 826	98	285	1261:55:23	100.00%
	SW72WB	SW 72 St WB before SR 826	99	288	1279:56:51	100.00%
	WFLAGLEREB**	W Flagler ST EB before SR 826	146	339	1327:30:44	99.87%
	WFLAGLERWB**	W Flagler ST WB before SR 826	146	339	1327:30:44	99.87%
	NW25EB**	NW 25 ST EB before SR 826	162	377	1338:00:00	0.52%
	NW25WB**	NW 25 ST WB before SR 826	164	385	1355:20:33	100.00%
	NW36EB**	NW 36 ST EB before SR 826	159	354	1382:18:27	87.62%
	NW36WB**	NW 36 ST WB before SR 826	159	357	1382:01:51	100.00%
	SW8EB**	SW 8 ST EB before SR 826	152	353	1386:04:26	100.00%
	SW8WB**	SW 8 ST WB before SR 826	151	348	1385:49:47	99.94%
	SW88EB**	Kendall DR EB before SR 826	89	257	1241:56:58	99.52%
	SW88WB**	Kendall DR WB before SR 826	90	260	1242:35:47	100.00%
		SR 826 Arterial Subtotal	***2348***	***5841***	***24000:10:58***	***93.74%***
I-195 Arterial	38	Alton Rd SB before I-195	93	1011	2436:30:00	99.99%
	39	Arthur Godfrey WB before I-195	93	1007	2436:28:39	100.00%
	40	Alton Rd NB before I-195	92	605	1688:15:25	100.00%
		I-195 Arterial Subtotal	***278***	***2623***	***6561:14:04***	***100.00%***

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

Roadway	ID	Location	# of Activations	# of Messages	Duration (Hr:min:ss)	Availability
US-1 in Miami-Dade County	23	US-1 NB beyond SW 17 Ave	252	575	1579:06:24	100.00%
	45	US-1 SB before SW 80 St	68	257	997:45:36	100.00%
	47	US-1 SB at Florida's Turnpike	47	180	902:15:13	99.63%
	46	US-1 NB before Killian Dr	88	301	1298:33:57	100.00%
	48	US-1 NB at Florida's Turnpike	49	225	917:39:55	100.00%
US-1 in Miami-Dade County Subtotal			***504***	***1538***	***5695:21:05***	***99.93%***
US-1 South of Florida City	62	US-1 NB at Mile Marker 126	37	134	845:34:03	99.67%
	64	US-1 NB at Mile Marker 106	18	81	570:06:18	73.16%
	66*	US-1 NB at Mile Marker 91.5	0	0	0:00:00	N/A
	68*	US-1 NB at Mile Marker 39.5	0	0	0:00:00	N/A
	71	US-1 NB at Mile Marker 7.5	39	194	1534:00:32	93.38%
	61	US-1 SB at Mile Marker 126	45	181	1600:08:26	99.67%
	63	US-1 SB at Mile Marker 113	41	144	752:57:36	92.41%
	65	US-1 SB at Mile Marker 106	34	138	716:44:16	93.82%
	67*	US-1 SB at Mile Marker 91.5	0	0	0:00:00	N/A
	69*	US-1 SB at Mile Marker 39.5	0	0	0:00:00	N/A
	70	US-1 SB at Mile Marker 7.5	20	101	731:17:56	92.37%
US-1 South of Florida City Subtotal			***234***	***973***	***6750:49:07***	***92.07%***
Arterials Subtotal			***6060***	***17941***	***60133:46:33***	***97.14%***
Limited Access Facilities Subtotal			***6250***	***15419***	***51517:45:23***	***99.18%***
Grand Total			***12310***	***33360***	***111651:31:56***	***96.93%***

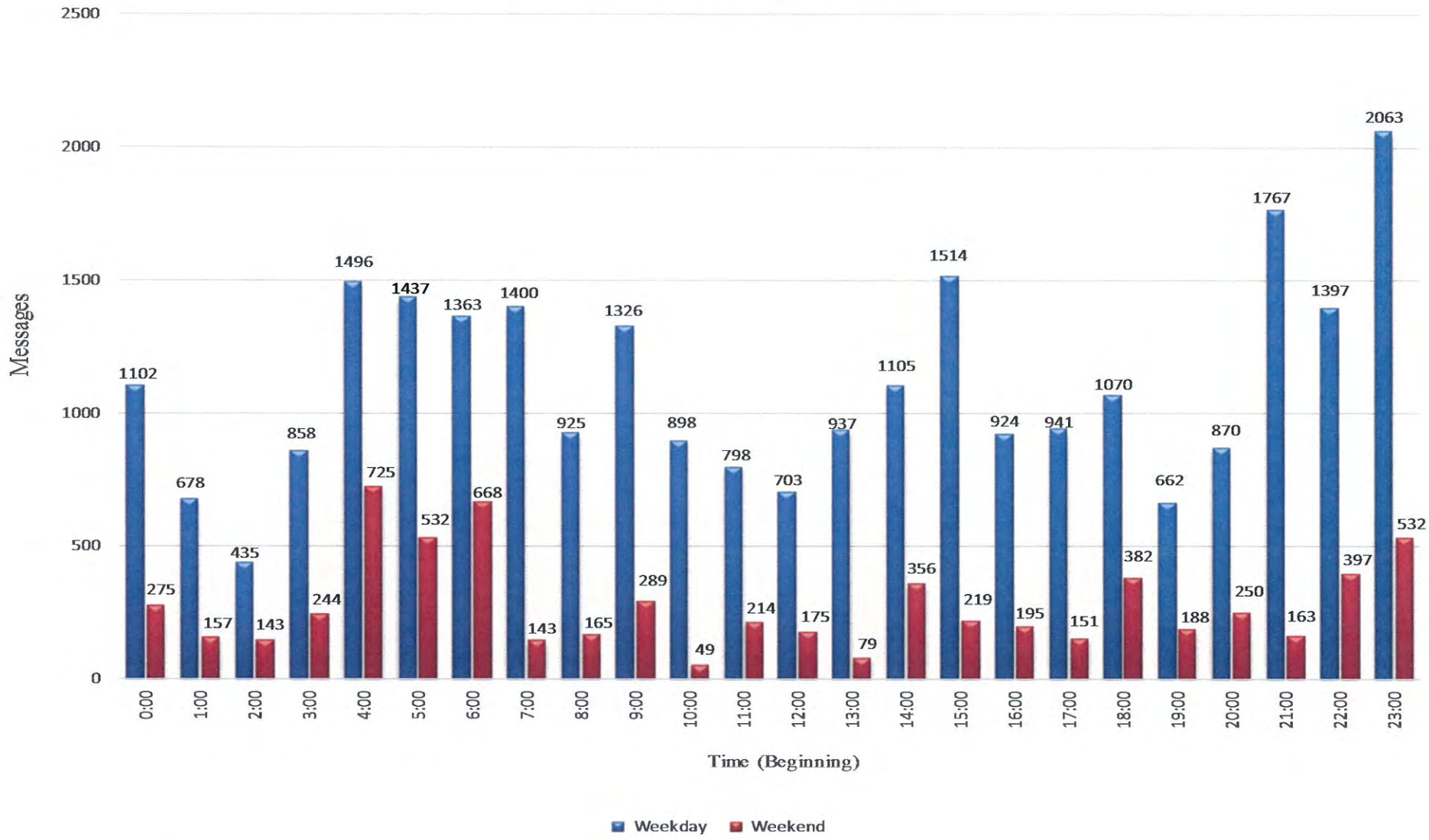
**DMS undergoing testing for Capital Improvement and were used periodically. Messages posted on these DMS are not computed and system availability is not measured for these devices.*

***Twelve DMS along the SR 826 Section 5 project are operational and are still under warranty. Note: NW25EB was failed due to pixel error. Section 5 ITS Contractor repaired on 11/8/2018.*

****DMS 826SBNW103ST01, 826SB8.8-LL, and 14 are under the SR-826/I-75 Express Lanes Contractor; thus, 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			342	140	297	96	41	41	122	68	343	96	159	203
Safety Messaging			885	468	943	257	158	157	601	390	1499	237	395	525
District 6	Miami-Dade	I-95	2377	701	434	4	337	354	2819	1265	0	430	125	12
District 6	Miami-Dade	95 Express	1044	933	210	1	4	353	16	523	0	0	320	0
District 6	Miami-Dade	I-195	19	0	0	0	361	2	12	0	0	1056	0	0
District 6	Miami-Dade	I-395	33	3	0	0	1	30	9	0	0	0	4	0
District 6	Miami-Dade	MacArthur Causeway	64	7	0	0	1	23	7	0	0	804	10	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	196	150	1537	408	0	5	276	412	3693	0	93	0
District 6	Miami-Dade	I-75	7	8	80	83	2	1	3	21	21	0	3	3
District 6	Miami-Dade	US-1	49	0	29	0	0	12	21	0	342	0	393	12
District 6	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	1	205
District 6	Monroe	Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	0
District 6	Miami-Dade	SR-997/ Krome Avenue	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	2	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	16	15	20	3	6	3	0	7	0	0	9	9
District 6	Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0
MDX	Miami-Dade	SR-836	253	1	348	0	0	246	1	0	0	0	0	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	48	24	0	0	22	0	7	0	0	0	0	0
MDX	Miami-Dade	SR-874	0	0	7	0	0	0	0	0	32	0	5	0
MDX	Miami-Dade	SR-878	0	0	6	0	0	0	0	0	0	0	11	0
MDX	Miami-Dade	SR-924	0	0	70	64	0	0	0	0	0	0	0	0
District 4	Broward	I-95	57	58	29	0	0	0	107	108	0	0	0	0
District 4	Broward	95 Express	78	40	40	1	0	0	0	44	0	0	0	0
District 4	Broward	I-75	0	0	34	18	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	34	16	21	5	0	0	50	45	0	0	0	4
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
Tunnel	Miami-Dade	Port Miami Tunnel	39	20	0	0	0	0	30	0	0	0	10	0
Subtotal of On Route			2377	933	1537	83	361	30	2819	1265	3693	1056	393	205
Subtotal of Off Route			3164	1651	2568	857	572	1197	1262	1620	2237	1567	1145	768
Total District 6			5032	2425	3550	852	911	981	3886	2688	5898	2623	1512	969
Other Agencies			509	159	555	88	22	246	195	197	32	0	26	4
Total			5541	2584	4105	940	933	1227	4081	2885	5930	2623	1538	973

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