

DMS Usage Report – August 2016

Summary of Monthly Operations

In the month of August, there were 37,045 messages posted with 10,244 DMS activations for 1,666 events. The DMS efficiency was 99.76% (1,662 of the 1,666 signable events had DMS messages posted) for all roadways. There was an average of 6.15 DMSs activated per each signable event and an average of 3.62 DMS messages were posted per each DMS activation. This resulted in an average of 22.24 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

- $$\frac{10244 \text{ DMS Activations}}{1666 \text{ Events}} = \underline{\mathbf{6.15}} \text{ Average DMS Activations per Event}$$

An average of 6.15 DMSs were activated per each signable event

- $$\frac{37045 \text{ DMS Messages}}{10244 \text{ DMS Activations}} = \underline{\mathbf{3.62}} \text{ Average DMS Messages per Activation}$$

An average of 3.62 DMS messages were posted per each DMS activation

- $$6.15 \frac{\text{DMS Activations}}{\text{Events}} \times 3.62 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{\mathbf{22.24^*}} \text{ DMS Messages per Event}$$

An average of 22.24 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	270
FDOT District 4	902
Florida's Turnpike Enterprise	51
Miami-Dade Expressway Authority	2568
Total	3791

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	20147
Other Districts' Incidents	2343
Construction	4160
Safety	8383
Vehicle Alert	2012
Total	37045

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	215	681	1510:55:35	99.79%
	22	I-95 NB south of NW 62 St	126	447	647:16:42	96.20%
	75	I-95 NB before SR 112	354	966	847:16:48	100.00%
	77	I-95 NB beyond SW 8 St	443	1191	1083:04:45	100.00%
	2***	I-95 SB north of Ives Dairy Rd	339	918	837:42:55	N/A***
	3***	I-95 SB north of Miami Gardens Dr	318	875	818:41:53	N/A***
	095NB013.5LL***	I-95 NB north of NW 173 St	94	290	508:00:34	N/A***
	20	I-95 SB south of NW 119 St	121	442	773:13:27	100.00%
	21	I-95 SB south of NW 62 St	136	458	804:55:53	96.20%
	74	I-95 SB beyond of SR 112	173	547	935:09:51	100.00%
76	I-95 SB before Rickenbacker Cswy	30	247	637:01:02	100.00%	
I-95 Mainline Subtotal			2349	7062	9403:19:25	99.02%
I-95 Express	95X40	95X NB at NW 62nd St	223	641	754:44:08	99.97%
	95X45	95X NB at NW 125th St	206	579	806:48:35	99.88%
	95XSB45	95X SB at NW 62nd St	135	495	785:32:18	99.84%
	95XSB50	95X SB at NW 125th St	169	537	690:57:04	99.96%
	095SB014.6-EL***	95X SB at Miami Gardens Dr	237	506	174:42:45	N/A***
	095NB014.8-EL***	95X SB north of Miami Gardens Dr	83	272	506:52:30	N/A***
I-95 Express Subtotal			1053	3030	3719:37:20	99.91%
SR 826	14	SR 826 NB beyond NW 122 St	78	392	567:49:10	83.91%
	4	SR 826 EB east of NW 67 Ave	111	442	714:57:15	100.00%
	5	SR 826 EB east of NW 37 Ave	377	977	887:07:26	99.96%
	15*	SR 826 WB beyond NW 17 Ave	0	0	0:00:00	N/A*
	17	SR 826 WB beyond NW 47 Ave	119	545	875:37:57	99.96%
	19	SR 826 WB beyond NW 67 Ave	153	626	977:36:33	99.21%
	826NB58	SR 826 NB before NW 58 St	108	491	677:50:04	98.25%
	826SB58	SR 826 SB before NW 58 St	99	408	1123:10:22	77.52%
	826SB103****	SR 826 SB before NW 103 St	91	338	708:59:33	N/A****
	826NB1.3-LL	SR 826 NB before SW 72 St	86	377	764:55:11	98.68%
	826NB4.8-LL**	SR 826 NB at SW 24 St	163	526	822:23:37	N/A**
	826SB8.8-LL**	SR 826 SB at NW 36 St	136	480	1177:02:51	N/A**
SR 826 Subtotal			1521	5602	9297:29:59	94.69%
I-75	43*	I-75 NB before Miami Gardens Dr	37	384	1454:48:57	N/A*
	44*	I-75 SB before Miami Gardens Dr	159	649	974:41:01	N/A*
	42	I-75 SB ramp from NW 138 St	162	648	967:10:47	99.48%
I-75 Subtotal			358	1681	3396:40:45	99.48%
I-195 Mainline	57	I-195 EB before North Miami Ave	29	242	653:32:49	100.00%
	105	I-195 WB before Alton Rd	143	474	719:36:51	100.00%
I-195 Mainline Subtotal			172	716	1373:09:40	100.00%
I-395	886WB	Port Blvd WB before US-1	219	655	878:21:32	100.00%
	104	I-395 WB at Watson Island	365	911	881:30:07	90.23%
I-395 Subtotal			584	1566	1759:51:39	95.12%
Limited Access Facilities Subtotal			6037	19657	28950:08:48	97.56%

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	51	177	178:23:21	N/A***
	113***	Ives Dairy Rd WB before I-95	0	0	0:00:00	N/A***
	110***	Miami Gardens Dr EB before I-95	198	644	805:31:22	N/A***
	111***	Miami Gardens Dr WB before I-95	171	526	615:03:44	N/A***
	112*	NW 103 St EB before I-95	0	0	0:00:00	N/A*
	106	NW 79 St EB before I-95	220	475	186:40:47	99.27%
	107	NW 54 St EB before I-95	222	495	227:16:01	99.26%
	108	SW 8 St EB before I-95	182	433	262:27:50	99.81%
I-95 Arterial Subtotal			1044	2750	2275:23:05	99.45%
Golden Glades Interchange	6***	SR 826 WB west of NE 2nd Ave	79	220	178:15:36	N/A***
	7	Turnpike SB to Golden Glades	113	314	223:34:27	33.89%
	9	US-441 NB at TRI-Rail	90	381	655:14:45	99.90%
	10	SR 9 NB before Park & Ride	92	382	651:03:03	99.40%
	8	US-441 SB at NW 179 St	107	293	260:50:02	38.93%
Golden Glades Interchange Subtotal			481	1590	1968:57:53	68.03%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	170	643	826:19:15	99.88%
	SW24WB	SW 24 St WB before SR 826	169	642	820:15:24	100.00%
	SW40EB	SW 40 St EB before SR 826	118	487	745:10:55	99.92%
	SW40WB	SW 40 St WB before SR 826	119	491	746:35:17	99.96%
	SW56EB	SW 56 St EB before SR 826	88	415	692:45:18	97.57%
	SW56WB	SW 56 St WB before SR 826	91	423	724:51:25	99.96%
	SW72EB	SW 72 St EB before SR 826	80	393	718:08:27	100.00%
	SW72WB	SW 72 St WB before SR 826	80	393	718:08:29	100.00%
	WFLAGLEREB**	W Flagler ST EB before SR 826	116	429	519:28:09	N/A**
	WFLAGLERWB**	W Flagler ST WB before SR 826	116	429	519:28:05	N/A**
	NW25EB**	NW 25 ST EB before SR 826	87	413	658:45:46	N/A**
	NW25WB**	NW 25 ST WB before SR 826	87	413	658:45:46	N/A**
	NW36EB**	NW 36 ST EB before SR 826	80	393	657:09:36	N/A**
	NW36WB**	NW 36 ST WB before SR 826	66	175	62:11:48	N/A**
	SW8EB**	SW 8 ST EB before SR 826	90	438	671:12:29	N/A**
	SW8WB**	SW 8 ST WB before SR 826	42	240	442:21:12	N/A**
SW88EB**	Kendall DR EB before SR 826	20	244	609:23:51	N/A**	
SW88WB**	Kendall DR WB before SR 826	18	188	445:17:28	N/A**	
SR 826 Arterial Subtotal			1637	7249	11236:18:40	99.66%
I-195 Arterial	38	Alton Rd SB before I-195	99	285	289:59:02	100.00%
	39	Arthur Godfrey WB before I-195	97	281	283:42:37	100.00%
	40	Alton Rd NB before I-195	98	284	284:05:20	100.00%
I-195 Arterial Subtotal			294	850	857:46:59	100.00%

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	325	925	934:07:33	100.00%
	45	US-1 SB before SW 80 St	41	274	674:24:32	100.00%
	47	US-1 SB at Florida's Turnpike	21	218	648:14:51	100.00%
	46	US-1 NB before Killian Dr	56	315	692:53:39	99.95%
	48	US-1 NB at Florida's Turnpike	23	224	648:52:42	100.00%
US-1 in Miami-Dade County Subtotal			466	1956	3598:33:17	99.99%
US-1 South of Florida City	62	US-1 NB at Mile Marker 126	21	216	641:48:27	99.61%
	64	US-1 NB at Mile Marker 106	18	241	631:19:24	99.04%
	66	US-1 NB at Mile Marker 91.5	25	251	591:16:17	94.89%
	68	US-1 NB at Mile Marker 39.5	33	312	691:03:12	98.60%
	71	US-1 NB at Mile Marker 7.5	36	374	1382:19:18	99.76%
	61	US-1 SB at Mile Marker 126	36	364	1418:35:22	99.73%
	63	US-1 SB at Mile Marker 113	33	289	713:13:20	99.33%
	65	US-1 SB at Mile Marker 106	25	268	677:12:41	99.09%
	67	US-1 SB at Mile Marker 91.5	28	258	609:07:09	93.39%
	69	US-1 SB at Mile Marker 39.5	15	210	626:27:20	98.60%
70	US-1 SB at Mile Marker 7.5	15	210	626:21:25	100.00%	
US-1 South of Florida City Subtotal			285	2993	8608:43:55	98.37%
Arterials Subtotal			4207	17388	28545:43:49	95.58%
Limited Access Facilities Subtotal			6037	19657	28950:08:48	97.56%
Grand Total			10244	37045	57495:52:37	96.42%

*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, 6, 109, 110, 111, 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*			368	148	252	114	46	55	67	46	255	61	190	410
Safety Messaging*			1,275	586	1,093	354	236	219	270	279	2,175	60	589	1,247
District 6	Miami-Dade	I-95	2,040	417	369	1	221	397	1,619	428	3	450	186	0
	Miami-Dade	Express Lanes	1,608	1,186	372	1	3	345	11	251	0	9	427	0
	Miami-Dade	I-195	94	0	8	0	53	24	94	0	0	96	5	0
	Miami-Dade	I-395	19	4	0	0	0	66	12	0	0	0	6	0
	Miami-Dade	MacArthur Cswy	56	20	5	1	2	26	0	0	0	0	19	5
	Miami-Dade	SR-886/ Port Blvd	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR 826	191	111	2,125	687	0	3	132	223	3,069	0	93	0
	Miami-Dade	I-75	0	0	128	191	0	0	0	0	0	0	0	0
	Miami-Dade	US-1	29	0	0	0	0	2	8	0	27	0	64	0
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	488
	Monroe	Card Sound Rd	0	0	0	0	0	0	0	0	0	0	0	110
	Miami-Dade	SR-997/ Krome Ave	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-9	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	US-27	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	US-441	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	OTHER	619	240	603	221	120	109	134	204	788	159	289	733
Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0	
MDX	Miami-Dade	SR 836	407	45	415	0	12	314	157	0	768	6	33	0
	Miami-Dade	SR 836 Extension to 137th Ave	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR 112	57	28	0	0	23	6	35	0	0	9	2	0
	Miami-Dade	SR 874	0	0	4	0	0	0	0	0	164	0	25	0
	Miami-Dade	SR 878	0	0	0	0	0	0	0	0	0	0	1	0
	Miami-Dade	SR 924	0	0	29	28	0	0	0	0	0	0	0	0
District 4	Broward	I-95	98	105	58	0	0	0	124	143	0	0	0	0
	Broward	Express Lanes	78	80	36	0	0	0	4	0	0	0	0	0
	Broward	I-75	0	0	96	80	0	0	0	0	0	0	0	0
	Broward	I-595	0	0	0	0	0	0	0	0	0	0	0	0
	Palm Beach	I-95	0	0	0	0	0	0	0	0	0	0	0	0
	Indian River	I-95	0	0	0	0	0	0	0	0	0	0	0	0
Broward	OTHER	0	0	0	0	0	0	0	0	0	0	0	0	
Turnpike	Miami-Dade	Florida's Turnpike	15	6	9	3	0	0	6	12	0	0	0	0
	Miami-Dade	Florida's Turnpike Spur	0	0	0	0	0	0	0	0	0	0	0	0
	Broward	Florida's Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
	Palm Beach	Florida's Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
	Martin	Florida's Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
	St. Lucie	Florida's Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
Port	Miami-Dade	Port Miami Tunnel	108	54	0	0	0	81	0	0	0	27	0	
Subtotal of On Route			2,040	1,186	2,125	191	53	66	1,619	428	3,069	96	64	488
Subtotal of Off Route			5,022	1,844	3,477	1,490	663	1,500	1,131	1,162	4,180	754	1,892	2,505
Total District 6			6,299	2,712	4,955	1,570	681	1,246	2,347	1,431	6,317	835	1,868	2,993
Other Agencies			763	318	647	111	35	320	403	159	932	15	88	0
Total			7,062	3,030	5,602	1,681	716	1,566	2,750	1,590	7,249	850	1,956	2,993

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.

