

DMS Usage Report – September 2017

Summary of Monthly Operations

In the month of September, there were 32,300 messages posted with 7,039 DMS activations for 1,136 events. The DMS efficiency was 100.00% (1,136 of the 1,136 signable events had DMS messages posted) for all roadways. There was an average of 6.20 DMSs activated per each signable event and an average of 4.59 DMS messages were posted per each DMS activation. This resulted in an average of 28.43 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

- $$\frac{7,039 \text{ DMS Activations}}{1,136 \text{ Events}} = \underline{\underline{6.20}} \text{ Average DMS Activations per Event}$$

An average of 6.20 DMSs were activated per each signable event

- $$\frac{32,300 \text{ DMS Messages}}{7,039 \text{ DMS Activations}} = \underline{\underline{4.59}} \text{ Average DMS Messages per Activation}$$

An average of 4.59 DMS messages were posted per each DMS activation

- $$6.20 \frac{\text{DMS Activations}}{\text{Events}} \times 4.59 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{\underline{28.43^*}} \text{ DMS Messages per Event}$$

An average of 28.43 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	671
FDOT District 4	1236
Florida's Turnpike Enterprise	3
Miami-Dade Expressway Authority	940
Total	2850

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	16886
Other Districts' Incidents	2362
Construction	4078
Safety	7562
Vehicle Alert	1412
Total	32300

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	65	383	1141:34:02	31.48%
	22	I-95 NB south of NW 62 St	119	561	1289:08:39	86.84%
	75	I-95 NB before SR 112	275	1129	1939:57:51	98.89%
	77	I-95 NB beyond SW 8 St	297	1262	1818:37:39	95.38%
	2	I-95 SB north of Ives Dairy Rd	220	1041	1996:59:02	98.29%
	3	I-95 SB north of Miami Gardens Dr	233	1087	2021:13:48	99.92%
	095NB013.5LL	I-95 NB north of NW 173 St	66	316	665:30:30	66.74%
	20	I-95 SB south of NW 119 St	96	446	1089:46:36	92.47%
	21	I-95 SB south of NW 62 St	117	842	1741:58:59	99.91%
	74	I-95 SB beyond of SR 112	151	917	1835:28:22	99.86%
	76	I-95 SB before Rickenbacker Cswy	41	453	1405:59:23	100.00%
I-95 Mainline Subtotal			1680	8437	16946:14:51	88.16%
I-95 Express	95X40	95X NB at NW 62nd St	81	349	728:50:24	40.43%
	95X45	95X NB at NW 125th St	160	651	1216:00:32	71.42%
	95XSB45	95X SB at NW 62nd St	75	348	823:28:42	90.08%
	95XSB50	95X SB at NW 125th St	97	487	1152:50:57	78.17%
	095SB014.6-EL	95X SB at Miami Gardens Dr	166	672	1417:52:49	75.31%
	095NB014.8-EL	95X SB north of Miami Gardens Dr	57	260	664:02:55	70.88%
I-95 Express Subtotal			636	2767	6003:06:19	71.05%
SR 826	4	SR 826 EB east of NW 67 Ave	90	441	1349:53:28	100.00%
	5	SR 826 EB east of NW 37 Ave	256	941	1593:43:53	92.03%
	14***	SR 826 NB beyond NW 122 St	25	182	819:23:40	N/A****
	15*	SR 826 WB beyond NW 17 Ave	0	0	0:00:00	N/A*
	17	SR 826 WB beyond NW 47 Ave	78	383	1197:36:15	92.44%
	19	SR 826 WB beyond NW 67 Ave	112	702	1664:43:33	99.49%
	826NB58	SR 826 NB before NW 58 St	68	277	1144:47:26	71.57%
	826SB103***	SR 826 SB before NW 103 St	43	191	482:55:52	N/A****
	826SB58	SR 826 SB before NW 58 St	20	92	442:10:39	25.36%
	826NB1.3-LL	SR 826 NB before SW 72 St	81	299	1242:56:02	92.81%
	826NB4.8-LL**	SR 826 NB at SW 24 St	43	117	400:56:38	31.35%
	826SB8.8-LL**	SR 826 SB at NW 36 St	24	165	721:53:40	21.49%
SR 826 Subtotal			840	3790	11061:01:06	69.62%
I-75	43	I-75 NB before Miami Gardens Dr	26	115	686:02:56	72.07%
	44	I-75 SB before Miami Gardens Dr	132	519	1291:26:29	91.53%
	42	I-75 SB ramp from NW 138 St	133	532	1278:31:03	92.02%
I-75 Subtotal			291	1166	3256:00:28	85.21%
I-195 Mainline	57	I-195 EB before North Miami Ave	31	124	405:20:13	72.62%
	105	I-195 WB before Alton Rd	94	488	1044:01:15	72.54%
I-195 Mainline Subtotal			125	612	1449:21:28	72.58%
I-395	886WB	Port Blvd WB before US-1	187	1077	1909:37:48	100.00%
	104	I-395 WB at Watson Island	296	1236	1904:31:49	97.18%
I-395 Subtotal			483	2313	3814:09:37	98.59%
Limited Access Facilities Subtotal			4055	19085	42529:53:49	79.41%

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	94	429	631:30:35	65.27%
	113	Ives Dairy Rd WB before I-95	32	189	452:42:57	29.12%
	110	Miami Gardens Dr EB before I-95	143	631	1051:18:22	88.69%
	111	Miami Gardens Dr WB before I-95	84	389	610:06:14	50.02%
	112*	NW 103 St EB before I-95	0	0	0:00:00	N/A*
	106	NW 79 St EB before I-95	102	426	529:50:50	65.91%
	107	NW 54 St EB before I-95	123	508	636:31:05	65.98%
	108	SW 8 St EB before I-95	29	191	233:11:31	16.49%
I-95 Arterial Subtotal			607	2763	4145:11:34	54.50%
Golden Glades Interchange	6	SR 826 WB west of NE 2nd Ave	228	915	1430:27:15	77.48%
	7	Turnpike SB to Golden Glades	120	590	919:09:18	48.35%
	9	US-441 NB at TRI-Rail	58	338	660:24:41	68.03%
	10	SR 9 NB before Park & Ride	34	258	561:08:32	31.44%
	8	US-441 SB at NW 179 St	149	673	1337:28:10	73.80%
Golden Glades Interchange Subtotal			589	2774	4908:37:56	59.82%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	105	290	924:23:53	57.65%
	SW24WB	SW 24 St WB before SR 826	110	309	1008:14:18	73.68%
	SW40EB	SW 40 St EB before SR 826	91	270	950:45:19	72.73%
	SW40WB	SW 40 St WB before SR 826	86	244	875:07:50	68.30%
	SW56EB	SW 56 St EB before SR 826	59	204	797:04:24	35.01%
	SW56WB	SW 56 St WB before SR 826	67	215	833:06:15	67.62%
	SW72EB	SW 72 St EB before SR 826	80	316	1226:06:05	92.81%
	SW72WB	SW 72 St WB before SR 826	57	200	829:04:36	66.48%
	WFLAGLEREB**	W Flagler ST EB before SR 826	32	177	915:41:58	31.35%
	WFLAGLERWB**	W Flagler ST WB before SR 826	32	178	915:42:01	31.35%
	NW25EB**	NW 25 ST EB before SR 826	32	98	382:05:32	32.32%
	NW25WB**	NW 25 ST WB before SR 826	138	417	1337:19:48	92.49%
	NW36EB**	NW 36 ST EB before SR 826	0	0	0:00:00	0.00%
	NW36WB**	NW 36 ST WB before SR 826	30	96	381:04:36	31.07%
	SW8EB**	SW 8 ST EB before SR 826	33	103	382:30:01	32.32%
	SW8WB**	SW 8 ST WB before SR 826	33	103	382:30:01	31.35%
	SW88EB**	Kendall DR EB before SR 826	67	287	1190:38:33	91.10%
	SW88WB**	Kendall DR WB before SR 826	68	335	1454:30:51	100.00%
SR 826 Arterial Subtotal			1120	3842	14785:56:01	55.98%
I-195 Arterial	38	Alton Rd SB before I-195	68	367	916:04:25	67.64%
	39	Arthur Godfrey WB before I-195	67	364	915:45:12	67.62%
	40	Alton Rd NB before I-195	63	359	892:53:40	33.35%
I-195 Arterial Subtotal			198	1090	2724:43:17	56.20%

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	174	722	1121:07:03	65.90%
	45	US-1 SB before SW 80 St	22	132	597:47:34	57.21%
	47	US-1 SB at Florida's Turnpike	36	193	1012:34:19	91.59%
	46	US-1 NB before Killian Dr	50	234	1001:32:00	91.68%
	48	US-1 NB at Florida's Turnpike	38	191	966:57:24	91.59%
US-1 in Miami-Dade County Subtotal			320	1472	4699:58:20	79.59%
US-1 South of Florida City	62****	US-1 NB at Mile Marker 126	13	107	572:06:54	27.60%
	64****	US-1 NB at Mile Marker 106	12	124	617:08:12	27.56%
	66****	US-1 NB at Mile Marker 91.5	8	82	487:41:09	16.69%
	68****	US-1 NB at Mile Marker 39.5	14	143	561:19:33	28.49%
	71****	US-1 NB at Mile Marker 7.5	17	176	1044:10:38	29.66%
	61****	US-1 SB at Mile Marker 126	20	146	970:13:44	27.55%
	63****	US-1 SB at Mile Marker 113	19	120	549:02:36	27.60%
	65****	US-1 SB at Mile Marker 106	17	118	543:47:58	27.60%
	67****	US-1 SB at Mile Marker 91.5	10	74	426:21:42	21.62%
	69****	US-1 SB at Mile Marker 39.5	9	90	520:22:30	28.37%
	70****	US-1 SB at Mile Marker 7.5	11	94	531:49:20	29.68%
US-1 South of Florida City Subtotal			150	1274	6824:04:16	26.58%
Arterials Subtotal			2984	13215	38088:31:24	53.18%
Limited Access Facilities Subtotal			4055	19085	42529:53:49	79.41%
Grand Total			7039	32300	80618:25:13	63.02%

*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.

***DMS 14 and 826SBNW103ST01 are under the SR-826/I-75 Express Lanes Contractor; thus, system availability is not measured for these devices.

****All DMS located along US-1 South of Florida City were not fully operational due to the damages caused by Hurricane Irma; therefore, results of these devices' availability are significantly low.

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			367	96	219	80	25	57	55	59	199	42	127	86
Safety Messaging			1499	750	971	247	139	211	425	554	1306	168	444	848
District 6	Miami-Dade	I-95	2464	548	450	11	301	798	1588	884	50	733	266	0
	Miami-Dade	Express Lanes	1657	860	705	119	22	429	73	756	425	36	459	63
	Miami-Dade	I-195	194	0	0	0	94	81	79	0	0	111	10	0
	Miami-Dade	I-395	74	9	0	0	0	46	8	0	0	0	1	0
	Miami-Dade	MacArthur Causeway	15	3	0	0	0	6	0	0	0	0	3	0
	Miami-Dade	SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-826	72	52	1017	537	0	2	82	167	1689	0	45	0
	Miami-Dade	I-75	0	0	5	145	0	0	0	0	0	0	0	0
	Miami-Dade	US-1	5	0	0	0	0	0	1	0	127	0	44	3
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	268
	Monroe	Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-997/ Krome Avenue	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	22	22	26	7	12	7	0	5	0	0	19	3
	Monroe	OTHER	1074	62	215	0	0	310	0	0	0	0	0	0
MDX	Miami-Dade	SR-836	358	4	38	0	0	358	0	0	7	0	0	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	68	20	0	0	19	8	11	0	0	0	0	0
	Miami-Dade	SR-874	0	0	0	0	0	0	0	0	39	0	10	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-924	0	0	0	0	0	0	0	0	0	0	0	0
District 4	Broward	I-95	133	175	97	0	0	0	334	320	0	0	0	0
	Broward	Express Lanes	41	40	33	0	0	0	0	29	0	0	0	0
	Broward	I-75	0	0	14	20	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	0	0	0	0	0	0	0	0	0	0	0	3
	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
Tunnel	Miami-Dade	Port Miami Tunnel	394	126	0	0	0	0	107	0	0	0	44	0
Subtotal of On Route			2464	860	1017	145	94	46	1588	884	1689	111	44	268
Subtotal of Off Route			5973	1907	2773	1021	518	2267	1175	1890	2153	979	1428	1006
Total District 6			7443	2402	3608	1146	593	1947	2311	2425	3796	1090	1418	1271
Other Agencies			994	365	182	20	19	366	452	349	46	0	54	3
Total			8437	2767	3790	1166	612	2313	2763	2774	3842	1090	1472	1274

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

