

DMS Usage Report – September 2016

Summary of Monthly Operations

In the month of September, there were 33,304 messages posted with 9,561 DMS activations for 1,569 events. The DMS efficiency was 99.75% (1,565 of the 1,569 signable events had DMS messages posted) for all roadways. There was an average of 6.09 DMSs activated per each signable event and an average of 3.48 DMS messages were posted per each DMS activation. This resulted in an average of 21.23 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

- $\frac{9561 \text{ DMS Activations}}{1569 \text{ Events}} = \underline{6.09} \text{ Average DMS Activations per Event}$

An average of 6.09 DMSs were activated per each signable event

- $\frac{33304 \text{ DMS Messages}}{9561 \text{ DMS Activations}} = \underline{3.48} \text{ Average DMS Messages per Activation}$

An average of 3.48 DMS messages were posted per each DMS activation

- $6.09 \frac{\text{DMS Activations}}{\text{Events}} \times 3.48 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{21.23^*} \text{ DMS Messages per Event}$

An average of 21.23 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	186
FDOT District 4	1043
Florida's Turnpike Enterprise	13
Miami-Dade Expressway Authority	1588
Total	2830

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	15199
Other Districts' Incidents	1947
Construction	3955
Safety	9717
Vehicle Alert	2486
Total	33304

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	209	607	1329:13:57	91.45%
	22	I-95 NB south of NW 62 St	129	472	832:52:43	99.95%
	75	I-95 NB before SR 112	341	919	925:45:36	100.00%
	77	I-95 NB beyond SW 8 St	429	1098	1279:04:21	100.00%
	2***	I-95 SB north of Ives Dairy Rd	324	944	1106:45:28	N/A***
	3***	I-95 SB north of Miami Gardens Dr	316	898	1018:28:51	N/A***
	095NB013.5LL***	I-95 NB north of NW 173 St	118	334	504:40:28	N/A***
	20	I-95 SB south of NW 119 St	111	441	737:32:29	100.00%
	21	I-95 SB south of NW 62 St	124	457	817:34:30	99.96%
	74	I-95 SB beyond of SR 112	187	559	1045:53:31	100.00%
76	I-95 SB before Rickenbacker Cswy	32	233	658:19:32	100.00%	
I-95 Mainline Subtotal			2320	6962	10256:11:26	98.92%
I-95 Express	95X40	95X NB at NW 62nd St	208	597	874:56:11	99.27%
	95X45	95X NB at NW 125th St	222	617	942:29:14	86.96%
	95XSB45	95X SB at NW 62nd St	109	385	784:39:27	99.92%
	95XSB50	95X SB at NW 125th St	154	457	740:59:16	100.00%
	095SB014.6-EL***	95X SB at Miami Gardens Dr	0	0	0:00:00	N/A***
	095NB014.8-EL***	95X SB north of Miami Gardens Dr	105	324	506:09:56	N/A***
I-95 Express Subtotal			798	2380	3849:14:04	96.54%
SR 826	14	SR 826 NB beyond NW 122 St	115	451	849:56:41	100.00%
	4	SR 826 EB east of NW 67 Ave	371	1016	1056:36:38	100.00%
	5	SR 826 EB east of NW 37 Ave	98	435	723:16:53	88.24%
	15*	SR 826 WB beyond NW 17 Ave	0	0	0:00:00	N/A*
	17	SR 826 WB beyond NW 47 Ave	105	479	924:21:22	100.00%
	19	SR 826 WB beyond NW 67 Ave	148	578	1009:37:57	99.70%
	826NB58	SR 826 NB before NW 58 St	101	408	745:40:16	94.33%
	826SB58	SR 826 SB before NW 58 St	93	371	908:47:42	N/A****
	826SB103****	SR 826 SB before NW 103 St	82	335	964:23:51	94.18%
	826NB1.3-LL	SR 826 NB before SW 72 St	63	282	669:40:37	99.96%
	826NB4.8-LL**	SR 826 NB at SW 24 St	65	208	316:49:48	N/A**
	826SB8.8-LL**	SR 826 SB at NW 36 St	107	312	680:58:25	N/A**
SR 826 Subtotal			1348	4875	8850:10:10	97.05%
I-75	43*	I-75 NB before Miami Gardens Dr	42	305	1439:30:33	N/A*
	44*	I-75 SB before Miami Gardens Dr	146	574	1059:14:56	N/A*
	42	I-75 SB ramp from NW 138 St	143	620	1051:02:54	99.92%
I-75 Subtotal			331	1499	3549:48:23	99.92%
I-195 Mainline	57	I-195 EB before North Miami Ave	41	238	687:13:06	99.90%
	105	I-195 WB before Alton Rd	140	452	727:44:37	99.39%
I-195 Mainline Subtotal			181	690	1414:57:43	99.65%
I-395	886WB	Port Blvd WB before US-1	234	765	1034:14:11	100.00%
	104	I-395 WB at Watson Island	403	1083	1170:50:09	94.26%
I-395 Subtotal			637	1848	2205:04:20	97.13%
Limited Access Facilities Subtotal			5615	18254	30125:26:06	97.90%

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	0	0	0:00:00	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	191	673	792:29:58	N/A***
	111***	Miami Gardens Dr WB before I-95	0	0	0:00:00	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	151	451	638:10:49	97.95%
	107	NW 54 St EB before I-95	183	548	700:42:45	99.63%
	108	SW 8 St EB before I-95	148	424	519:33:27	99.63%
I-95 Arterial Subtotal			673	2096	2650:56:59	99.07%
Golden Glades Interchange	6***	SR 826 WB west of NE 2nd Ave	0	0	0:00:00	N/A***
	7	Turnpike SB to Golden Glades	322	914	923:00:50	99.96%
	9	US-441 NB at TRI-Rail	94	380	751:20:31	100.00%
	10	SR 9 NB before Park & Ride	93	382	750:27:53	99.68%
	8	US-441 SB at NW 179 St	273	827	927:14:59	99.96%
Golden Glades Interchange Subtotal			782	2503	3352:04:13	99.90%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	115	414	693:32:04	100.00%
	SW24WB	SW 24 St WB before SR 826	115	414	693:32:13	100.00%
	SW40EB	SW 40 St EB before SR 826	72	304	656:26:01	100.00%
	SW40WB	SW 40 St WB before SR 826	72	308	656:55:53	100.00%
	SW56EB	SW 56 St EB before SR 826	63	289	643:40:11	100.00%
	SW56WB	SW 56 St WB before SR 826	63	289	643:40:16	100.00%
	SW72EB	SW 72 St EB before SR 826	55	277	638:16:33	99.96%
	SW72WB	SW 72 St WB before SR 826	55	277	638:16:37	99.96%
	WFLAGLEREB**	W Flagler ST EB before SR 826	43	135	183:28:25	N/A**
	WFLAGLERWB**	W Flagler ST WB before SR 826	44	138	183:56:42	N/A**
	NW25EB**	NW 25 ST EB before SR 826	176	571	761:40:10	N/A**
	NW25WB**	NW 25 ST WB before SR 826	176	571	761:40:09	N/A**
	NW36EB**	NW 36 ST EB before SR 826	179	581	767:48:03	N/A**
	NW36WB**	NW 36 ST WB before SR 826	0	0	0:00:00	N/A**
	SW8EB**	SW 8 ST EB before SR 826	102	376	538:25:36	N/A**
	SW8WB**	SW 8 ST WB before SR 826	42	147	214:33:10	N/A**
SW88EB**	Kendall DR EB before SR 826	42	237	611:40:32	N/A**	
SW88WB**	Kendall DR WB before SR 826	41	233	593:53:38	N/A**	
SR 826 Arterial Subtotal			1455	5561	9881:26:13	99.99%
I-195 Arterial	38	Alton Rd SB before I-195	41	108	119:16:47	51.42%
	39	Arthur Godfrey WB before I-195	38	100	98:34:21	48.02%
	40	Alton Rd NB before I-195	93	315	469:58:01	96.36%
I-195 Arterial Subtotal			172	523	687:49:09	65.27%

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	308	803	968:40:38	99.96%
	45	US-1 SB before SW 80 St	44	247	692:35:05	100.00%
	47	US-1 SB at Florida's Turnpike	33	198	676:04:42	100.00%
	46	US-1 NB before Killian Dr	54	281	691:33:53	100.00%
	48	US-1 NB at Florida's Turnpike	36	205	681:29:01	100.00%
US-1 in Miami-Dade County Subtotal			475	1734	3710:23:19	99.99%
US-1 South of Florida City	62	US-1 NB at Mile Marker 126	33	198	675:38:11	99.90%
	64	US-1 NB at Mile Marker 106	24	197	666:40:37	99.62%
	66	US-1 NB at Mile Marker 91.5	38	218	774:02:15	99.88%
	68	US-1 NB at Mile Marker 39.5	40	294	804:55:48	99.41%
	71	US-1 NB at Mile Marker 7.5	22	203	893:38:53	60.68%
	61	US-1 SB at Mile Marker 126	56	331	1542:11:03	100.00%
	63	US-1 SB at Mile Marker 113	51	282	813:02:24	86.04%
	65	US-1 SB at Mile Marker 106	39	273	790:39:56	99.60%
	67	US-1 SB at Mile Marker 91.5	48	265	805:29:06	99.43%
	69	US-1 SB at Mile Marker 39.5	22	193	659:20:20	99.46%
70	US-1 SB at Mile Marker 7.5	16	179	640:01:55	99.96%	
US-1 South of Florida City Subtotal			389	2633	9065:40:28	94.91%
Arterials Subtotal			3946	15050	29348:20:21	95.19%
Limited Access Facilities Subtotal			5615	18254	30125:26:06	97.90%
Grand Total			9561	33304	59473:46:27	96.34%

*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 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			464	158	376	150	61	61	44	94	296	53	237	492
Safety Messaging			1,586	709	1,295	405	270	265	474	580	1,902	123	671	1,437
District 6	Miami-Dade	I-95	2,105	273	400	1	205	385	1,160	791	10	260	159	0
	Miami-Dade	Express Lanes	1,497	755	339	0	4	360	0	586	0	0	378	0
	Miami-Dade	I-195	151	1	0	0	70	16	114	0	0	61	22	0
	Miami-Dade	I-395	27	6	1	0	0	399	10	0	6	0	3	0
	Miami-Dade	MacArthur Causeway	72	20	0	0	21	31	22	0	0	21	9	0
	Miami-Dade	SR-886/Port Boulevard	0	0	0	0	0	0	0	0	0	0	0	0
	Miami-Dade	SR-826	180	69	1,790	691	2	12	56	246	2,907	0	67	5
	Miami-Dade	I-75	0	0	130	122	0	0	0	0	13	0	0	0
	Miami-Dade	US-1	36	6	0	0	1	18	7	0	30	1	93	4
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	520
	Monroe	Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	21
	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	83	56	65	56	25	12	0	0	0	0	42	134
	Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	20
MDX	Miami-Dade	SR-836	336	16	219	0	3	278	50	0	309	0	13	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	66	16	0	0	28	11	27	1	0	4	7	0
	Miami-Dade	SR-874	0	0	4	0	0	0	0	0	88	0	14	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	0	0
District 4	Miami-Dade	SR-924	0	0	54	44	0	0	0	0	0	0	0	0
	Broward	I-95	172	139	103	0	0	0	77	202	0	0	0	0
	Broward	Express Lanes	107	116	55	0	0	0	0	0	0	0	0	0
	Broward	I-75	0	0	42	30	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	Floridas Turnpike	4	2	2	0	0	0	2	3	0	0	0	0
	Miami-Dade	Floridas Turnpike Spur	0	0	0	0	0	0	0	0	0	0	0	0
	Broward	Floridas Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
	Palm Beach	Floridas Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
	Martin	Floridas Turnpike	0	0	0	0	0	0	0	0	0	0	0	0
St. Lucie	Floridas Turnpike	0	0	0	0	0	0	0	0	0	0	0	0	
Port	Miami-Dade	Port Miami Tunnel	76	38	0	0	0	0	53	0	0	0	19	0
Subtotal of On Route			2,105	755	1,790	122	70	399	1,160	791	2,907	61	93	520
Subtotal of Off Route			4,857	1,625	3,085	1,377	620	1,449	936	1,712	2,654	462	1,641	2,113
Total District 6			6,201	2,053	4,396	1,425	659	1,559	1,887	2,297	5,164	519	1,681	2,633
Other Agencies			761	327	479	74	31	289	209	206	397	4	53	0
Total			6,962	2,380	4,875	1,499	690	1,848	2,096	2,503	5,561	523	1,734	2,633

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

