

DMS Usage Report – August 2017

Summary of Monthly Operations

In the month of August, there were 54,262 messages posted with 12,232 DMS activations for 1,764 events. The DMS efficiency was 99.89% (1,762 of the 1,764 signable events had DMS messages posted) for all roadways. There was an average of 6.93 DMSs activated per each signable event and an average of 4.44 DMS messages were posted per each DMS activation. This resulted in an average of 30.76 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

- $$\frac{12,232 \text{ DMS Activations}}{1,764 \text{ Events}} = \underline{6.93} \text{ Average DMS Activations per Event}$$

An average of 6.93 DMSs were activated per each signable event

- $$\frac{54,262 \text{ DMS Messages}}{12,232 \text{ DMS Activations}} = \underline{4.44} \text{ Average DMS Messages per Activation}$$

An average of 4.44 DMS messages were posted per each DMS activation

- $$6.93 \frac{\text{DMS Activations}}{\text{Events}} \times 4.44 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \underline{30.76^*} \text{ DMS Messages per Event}$$

An average of 30.76 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	240
FDOT District 4	1167
Florida's Turnpike Enterprise	47
Miami-Dade Expressway Authority	1698
Total	3152

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	22092
Other Districts' Incidents	2155
Construction	11222
Safety	16417
Vehicle Alert	2376
Total	54262

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	983	2400:47:45	99.59%
	22	I-95 NB south of NW 62 St	137	602	1067:55:55	98.18%
	75	I-95 NB before SR 112	350	1392	2302:41:41	98.93%
	77	I-95 NB beyond SW 8 St	431	1751	2366:28:03	98.78%
	2	I-95 SB north of Ives Dairy Rd	286	1100	2061:01:02	100.00%
	3	I-95 SB north of Miami Gardens Dr	308	1242	2006:51:00	100.00%
	095NB013.5LL	I-95 NB north of NW 173 St	103	612	1237:24:12	99.37%
	20	I-95 SB south of NW 119 St	140	710	1274:08:47	100.00%
	21	I-95 SB south of NW 62 St	117	589	1073:35:15	98.18%
	74	I-95 SB beyond of SR 112	181	709	1323:22:42	98.95%
	76	I-95 SB before Rickenbacker Cswy	38	293	874:07:19	100.00%
I-95 Mainline Subtotal			2300	9983	17988:23:41	99.27%
I-95 Express	95X40	95X NB at NW 62nd St	191	680	1129:41:51	99.77%
	95X45	95X NB at NW 125th St	199	925	1622:25:17	99.71%
	95XSB45	95X SB at NW 62nd St	113	527	1135:02:29	100.00%
	95XSB50	95X SB at NW 125th St	113	529	1053:07:16	99.77%
	095SB014.6-EL	95X SB at Miami Gardens Dr	296	1167	2123:44:07	99.46%
	095NB014.8-EL	95X SB north of Miami Gardens Dr	66	399	991:48:34	99.63%
I-95 Express Subtotal			978	4227	8055:49:34	99.72%
SR 826	4	SR 826 EB east of NW 67 Ave	133	564	985:50:48	100.00%
	5	SR 826 EB east of NW 37 Ave	339	1427	2166:33:27	99.53%
	14***	SR 826 NB beyond NW 122 St	70	410	888:13:00	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	106	549	1199:33:46	100.00%
	19	SR 826 WB beyond NW 67 Ave	167	728	1374:58:59	98.77%
	826NB58	SR 826 NB before NW 58 St	7	87	320:57:23	50.43%
	826SB103***	SR 826 SB before NW 103 St	93	428	1139:57:12	N/A****
	826SB58	SR 826 SB before NW 58 St	28	154	550:21:32	24.45%
	826NB1.3-LL	SR 826 NB before SW 72 St	106	417	1370:52:41	100.00%
	826NB4.8-LL**	SR 826 NB at SW 24 St	251	662	1654:24:05	99.91%
	826SB8.8-LL**	SR 826 SB at NW 36 St	73	218	450:40:18	47.52%
SR 826 Subtotal			1373	5644	12102:23:11	80.07%
I-75	43	I-75 NB before Miami Gardens Dr	46	383	1686:44:34	100.00%
	44	I-75 SB before Miami Gardens Dr	174	749	1611:12:20	99.49%
	42	I-75 SB ramp from NW 138 St	171	758	1609:19:10	100.00%
I-75 Subtotal			391	1890	4907:16:04	99.83%
I-195 Mainline	57	I-195 EB before North Miami Ave	53	287	915:33:01	100.00%
	105	I-195 WB before Alton Rd	202	988	1711:26:11	99.62%
I-195 Mainline Subtotal			255	1275	2626:59:12	99.81%
I-395	886WB	Port Blvd WB before US-1	306	1343	2141:40:36	99.94%
	104	I-395 WB at Watson Island	430	1600	2197:35:40	98.16%
I-395 Subtotal			736	2943	4339:16:16	99.05%
Limited Access Facilities Subtotal			6033	25962	50020:07:58	94.19%

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	187	812	979:41:47	99.20%
	113	Ives Dairy Rd WB before I-95	143	610	789:02:46	95.44%
	110	Miami Gardens Dr EB before I-95	190	927	1119:27:51	78.82%
	111	Miami Gardens Dr WB before I-95	202	981	1203:47:23	97.24%
	112*	NW 103 St EB before I-95	0	0	0:00:00	N/A*
	106	NW 79 St EB before I-95	175	715	1167:15:56	99.14%
	107	NW 54 St EB before I-95	187	717	1217:54:29	98.52%
	108	SW 8 St EB before I-95	180	993	1432:53:30	98.38%
I-95 Arterial Subtotal			1264	5755	7910:03:42	95.25%
Golden Glades Interchange	6	SR 826 WB west of NE 2nd Ave	365	1610	2427:14:06	100.00%
	7	Turnpike SB to Golden Glades	318	1506	2341:18:57	100.00%
	9	US-441 NB at TRI-Rail	101	711	1424:39:01	100.00%
	10	SR 9 NB before Park & Ride	97	692	1395:16:11	95.20%
	8	US-441 SB at NW 179 St	258	1146	1921:06:59	99.95%
Golden Glades Interchange Subtotal			1139	5665	9509:35:14	99.03%
SR 826 Arterial	SW24EB	SW 24 St EB before SR 826	153	529	1450:25:50	100.00%
	SW24WB	SW 24 St WB before SR 826	153	529	1450:25:39	100.00%
	SW40EB	SW 40 St EB before SR 826	132	472	1402:43:34	100.00%
	SW40WB	SW 40 St WB before SR 826	131	473	1402:34:56	99.95%
	SW56EB	SW 56 St EB before SR 826	107	429	1360:45:02	99.95%
	SW56WB	SW 56 St WB before SR 826	107	429	1360:45:00	100.00%
	SW72EB	SW 72 St EB before SR 826	97	407	1338:33:21	99.95%
	SW72WB	SW 72 St WB before SR 826	99	415	1339:37:43	100.00%
	WFLAGLEREB**	W Flagler ST EB before SR 826	157	501	1406:19:10	100.00%
	WFLAGLERWB**	W Flagler ST WB before SR 826	157	503	1406:50:59	99.91%
	NW25EB**	NW 25 ST EB before SR 826	182	629	1501:11:32	99.96%
	NW25WB**	NW 25 ST WB before SR 826	182	629	1501:11:34	100.00%
	NW36EB**	NW 36 ST EB before SR 826	3	63	248:41:59	100.00%
	NW36WB**	NW 36 ST WB before SR 826	183	623	1466:41:47	100.00%
	SW8EB**	SW 8 ST EB before SR 826	156	479	1317:13:46	99.96%
	SW8WB**	SW 8 ST WB before SR 826	155	478	1316:56:56	100.00%
	SW88EB**	Kendall DR EB before SR 826	80	384	1258:25:06	99.70%
	SW88WB**	Kendall DR WB before SR 826	80	375	1234:24:12	99.96%
SR 826 Arterial Subtotal			2314	8347	23763:48:06	99.96%
I-195 Arterial	38	Alton Rd SB before I-195	164	877	1595:04:36	100.00%
	39	Arthur Godfrey WB before I-195	163	867	1594:42:19	99.96%
	40	Alton Rd NB before I-195	162	872	1589:07:18	99.82%
I-195 Arterial Subtotal			489	2616	4778:54:13	99.93%

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	318	1381	2079:36:37	100.00%
	45	US-1 SB before SW 80 St	47	284	907:23:04	99.16%
	47	US-1 SB at Florida's Turnpike	41	255	911:27:28	99.93%
	46	US-1 NB before Killian Dr	67	331	909:47:28	99.99%
	48	US-1 NB at Florida's Turnpike	48	270	919:49:22	99.87%
US-1 in Miami-Dade County Subtotal			521	2521	5728:03:59	99.79%
US-1 South of Florida City	62	US-1 NB at Mile Marker 126	42	258	902:27:06	99.52%
	64	US-1 NB at Mile Marker 106	33	263	790:54:17	93.13%
	66	US-1 NB at Mile Marker 91.5	48	287	907:02:11	95.84%
	68	US-1 NB at Mile Marker 39.5	41	310	897:05:46	95.61%
	71	US-1 NB at Mile Marker 7.5	48	401	1731:29:17	99.81%
	61	US-1 SB at Mile Marker 126	68	468	1776:19:16	99.52%
	63	US-1 SB at Mile Marker 113	54	343	914:01:23	95.71%
	65	US-1 SB at Mile Marker 106	38	312	815:13:53	93.25%
	67	US-1 SB at Mile Marker 91.5	51	322	919:37:46	95.81%
	69	US-1 SB at Mile Marker 39.5	24	207	803:43:59	95.47%
	70	US-1 SB at Mile Marker 7.5	25	225	857:25:19	99.08%
US-1 South of Florida City Subtotal			472	3396	11315:20:13	96.61%
Arterials Subtotal			6199	28300	63005:45:27	98.03%
Limited Access Facilities Subtotal			6033	25962	50020:07:58	94.19%
Grand Total			12232	54262	113025:53:25	96.72%

*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.

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			396	163	259	119	60	61	95	132	390	104	193	404
Safety Messaging			2547	1429	1811	634	391	433	1201	1144	3160	589	980	2098
District 6	Miami-Dade	I-95	4132	1064	917	9	507	1348	3693	2573	55	1326	647	0
	Miami-Dade	Express Lanes	1494	1059	368	0	0	429	9	1038	0	0	412	0
	Miami-Dade	I-195	105	0	0	0	216	62	101	0	0	570	3	0
	Miami-Dade	I-395	9	3	0	0	0	109	6	0	0	0	3	0
	Miami-Dade	MacArthur Causeway	57	11	0	0	0	22	2	0	0	0	14	0
	Miami-Dade	SR-886/Port Boulevard	6	0	0	0	0	0	0	0	0	0	3	0
	Miami-Dade	SR-826	214	149	1675	820	0	1	216	436	4379	0	82	0
	Miami-Dade	I-75	0	0	90	188	0	0	0	0	0	0	0	0
	Miami-Dade	US-1	54	7	3	0	0	14	25	0	178	0	58	10
	Monroe	US-1	0	0	0	0	0	0	0	0	0	0	0	542
	Monroe	Card Sound Road	0	0	0	0	0	0	0	0	0	0	0	252
	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	105	71	96	18	36	18	36	18	0	0	54	90
	Monroe	OTHER	0	0	0	0	0	0	0	0	0	0	0	0
MDX	Miami-Dade	SR-836	490	21	214	0	27	446	43	0	61	18	18	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	78	39	0	0	38	0	11	0	0	9	0	0
	Miami-Dade	SR-874	0	0	3	0	0	0	0	0	124	0	20	0
	Miami-Dade	SR-878	0	0	0	0	0	0	0	0	0	0	10	0
	Miami-Dade	SR-924	0	0	11	17	0	0	0	0	0	0	0	0
District 4	Broward	I-95	128	126	73	0	0	0	237	272	0	0	0	0
	Broward	Express Lanes	60	32	29	0	0	0	0	35	0	0	0	0
	Broward	I-75	0	0	90	85	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	12	5	5	0	0	0	8	17	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
Tunnel	Miami-Dade	Port Miami Tunnel	96	48	0	0	0	0	72	0	0	0	24	0
Subtotal of On Route			4132	1059	1675	188	216	109	3693	2573	4379	570	58	542
Subtotal of Off Route			5851	3168	3969	1702	1059	2834	2062	3092	3968	2046	2463	2854
Total District 6			9119	3956	5219	1788	1210	2497	5384	5341	8162	2589	2449	3396
Other Agencies			864	271	425	102	65	446	371	324	185	27	72	0
Total			9983	4227	5644	1890	1275	2943	5755	5665	8347	2616	2521	3396

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

