



SEPTEMBER 2010
DMS Usage Report



Summary of Monthly Operations

In the month of September, there were 4,847 messages posted with 3,064 DMS activations for 635 events. The DMS efficiency was 99.69% (633 of the 635 signable events had a DMS messages posted). There was an average of 4.83 DMSs activated per each signable event and an average of 1.58 DMS messages were posted per each DMS activation. This resulted in an average of 7.63 DMS messages being posted per each signable event.

Note: DMS messages not associated with an event are not included because the SunGuide Software requirement to associate message does not function properly at this time.

Summary of Average Monthly Operations

- $$\frac{3064 \text{ DMS Activations}}{635 \text{ Events}} = \mathbf{4.83} \text{ Average DMS Activations per Event}$$

An average of 4.83 DMSs were activated per each signable event

- $$\frac{4847 \text{ DMS Messages}}{3064 \text{ DMS Activations}} = \mathbf{1.58} \text{ Average DMS Messages per Activation}$$

An average of 1.58 DMS messages were posted per each DMS activation

- $$4.83 \frac{\text{DMS Activations}}{\text{Events}} \times 1.58 \frac{\text{DMS Messages}}{\text{DMS Activations}} = \mathbf{7.63^*} \text{ DMS Messages per Event}$$

An average of 7.63 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
FDOT District 4	274
Florida's Turnpike Enterprise	0
Miami-Dade Expressway Authority	434
Total	708

Table 2 DMS Usage by Event Type

Event Type Message	Number of Messages
FDOT District 6 Incidents	2478
Other Districts' Incidents	431
Construction	924
Safety	675
Vehicle Alert	339
Total	4847

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Table 3a DMS Usage by Roadway (Limited Access Facilities)

Roadway	ID	Location	# of Activations	# of Messages	Duration (Hr:Min)	Availability
I-95 Mainline	1*	NB I-95 n/ of NW 103 ST	36	61	135:32	N/A
	22*	NB I-95 s/ of NW 62 ST	25	40	116:10	N/A
	75	NB I-95 s/ of SR 112	104	142	262:54	100.00%
	77	NB I-95 n/ of SW 8 ST	105	140	237:38	98.83%
	2*	SB I-95 n/ Ives Dairy RD	70	111	285:52	N/A
	3*	SB I-95 n/ of Miami Gardens DR	0	0	0:00	N/A
	20*	SB I_95 s/ of NW 119 ST	62	88	163:30	N/A
	21*	SB I-95 s/ of NW 62 ST	28	33	82:59	N/A
	74	SB I_95 s/ of SR 112	41	61	75:04	100.00%
	76	SB I-95 n/ of Rickenbacker CSWY	11	24	27:36	96.36%
I-95 Mainline Subtotal			482	700	1387:19	98.80%
I-95 Express	95X40	NB 95X at NW 62nd St	19	39	124:12	100.00%
	95X45	NB 95X at NW 125th St	53	95	157:42	98.13%
	95XSB45	SB 95X at NW 62nd St	49	69	169:52	100.00%
	95XSB50	SB 95X at NW 125th St	16	31	41:44	100.00%
I-95 Express Subtotal			137	234	493:32	99.53%
SR-826	14	NB SR 826 n/ of NW 122 ST	44	79	102:27	100.00%
	4*	EB SR 826 e/ of NW 67 AVE	51	90	164:09	N/A
	5*	EB SR 826 e/ of NW 37 AVE	70	113	298:36	N/A
	15	WB SR 826 w/ of NW 17 AVE	16	42	70:08	50.79%
	17	WB SR 826 w/ of NW 47 AVE	43	75	222:09	100.00%
	19	WB SR 826 w/ of NW 67 AVE	70	119	371:27	99.24%
	826NB58	NB SR 826 s/ of NW 58 ST	34	65	91:38	100.00%
	826SB58	SB SR 826 n/ of NW 58 ST	109	158	416:37	100.00%
	826SB103	SB SR 826 s/ of NW 103 ST	97	138	363:40	100.00%
SR-826 Subtotal			534	879	2100:54	92.86%
I-75	43	NB I-75 s/ of Miami Gardens DR	20	37	77:42	100.00%
	44	SB I-75 s/ of Miami Gardens DR	73	124	372:58	100.00%
	42	SB I-75 s/ of NW 138 ST	90	147	417:58	100.00%
I-75 Subtotal			183	308	868:39	100.00%
I-195 Mainline	57	EB I-195 w/ of North Miami AVE	11	22	52:29	74.70%
	103	EB SR 112 e/ of Toll Plaza	94	129	158:06	100.00%
	105	WB I-195 e/ of Alton RD	86	127	262:47	100.00%
I-195 Mainline Subtotal			191	278	473:23	91.57%
I-395	886WB	Port Blvd WB before US-1	67	98	145:20	100.00%
	104	WB I-395 @ Watson Island	106	145	224:06	100.00%
I-395 Subtotal			173	243	369:26	100.00%
Limited Access Facilities Subtotal			1700	2642	5693:16	97.13%

* DMS 1-10, and 20-23 are undergoing testing and are used periodically. System availability is not measured for these devices.

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Table 3b DMS Usage by Roadway (Arterials)

Roadway	ID	Location	# of Activations	# of Messages	Duration (Hr:Min)	Availability
I-95 Arterial	109	EB Ives Dairy RD W/ of I-95	6	7	15:38	5.43%
	113	WB Ives Dairy RD e/ of I-95	71	116	93:12	100.00%
	110	EB Miami Gardens DR w/ of I-95	93	145	96:52	100.00%
	111	WB Miami Gardens DR e/ of I-95	0	0	0:00	1.15%
	112	EB NW 103 ST w/ of I-95	67	93	84:56	92.84%
	106	EB NW 79 ST w/ of I-95	67	92	88:04	100.00%
	107	EB NW 54 ST w/ of I-95	90	116	139:35	100.00%
	108	EB SW 8 ST w/ of I-95	58	82	104:56	100.00%
I-95 Arterial Subtotal			452	651	623:15	74.93%
Golden Glades Interchange	6*	WB SR 826 w/ of NE 2nd AVE	130	203	399:33	N/A
	7*	SB Turnpike to the Golden Glades	114	175	296:56	N/A
	9*	NB US-441@TRI-Rail	57	123	881:02	N/A
	10*	NB SR 9 @ the Detention Center	91	162	901:51	N/A
	8*	SB US-441 @NW 179 ST	112	176	390:09	N/A
Golden Glades Interchange Subtotal			504	839	2869:34	N/A
I-195 Arterial	38	SB Alton RD to WB I-195	43	70	83:59	84.78%
	39	WB 41 ST to WB I-195	41	69	94:25	99.49%
	40	NB Alton RD to WB I-195	42	66	89:06	93.76%
I-195 Arterial Subtotal			126	205	267:30	92.68%
US 1 in Miami-Dade County	23*	NB US-1 n/ of SW 17 AVE	19	26	32:33	N/A
	45	SB US 1 @ SW 62 AVE & 80 ST	38	54	94:51	100.00%
	47	SB US 1 @ TURNPIKE SB	5	17	29:14	100.00%
	46	NB US 1 @ Killian DR	78	128	194:11	100.00%
	48	NB US 1 @ TURNPIKE NB	10	27	50:36	100.00%
US 1 in Miami-Dade County Subtotal			150	252	401:27	100.00%
US 1 South of Florida City	62	NB US-1 @ Florida City	3	4	12:50	99.65%
	64	NB US_1 @ Mile Marker 106	19	36	96:18	100.00%
	66	NB US_1 @ Mile Marker 91.5	11	27	61:36	98.39%
	68	NB US_1 @ Mile Marker 39.5	23	34	88:04	89.37%
	71	NB US_1 @ Mile Marker 7.5	16	33	64:37	94.81%
	61	SB US-1 @ Florida City	6	11	14:45	100.00%
	63	SB US-1 @ Mile Marker 113	9	20	29:50	96.03%
	65	SB US-1 @ Mile Marker 106	20	35	76:43	100.00%
	67	SB US-1 @ Mile Marker 91.5	6	16	25:43	94.44%
	69	SB US-1 @ Mile Marker 39.5	15	26	64:46	94.10%
	70	SB US-1 @ Mile Marker 7.5	4	16	28:53	95.87%
US 1 South of Florida City Subtotal			132	258	564:08	96.61%
Arterials Subtotal			1364	2205	4725:57	91.05%
Limited Access Facilities Subtotal			1700	2642	5693:16	97.13%
Grand Total			3064	4847	10419:13	93.02%

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Table 4 Number of Messages by Roadway

Sign For Events On	DMS Located Along								
	I-95** Mainline	Golden Glades	I-95 Arterial	SR-826	I-75	I-195	I-395	US 1 in Miami-Dade County	US 1 South of Florida City
Vehicle Alert*	49	15	0	76	37	36	6	40	80
Safety Messaging*	155	85	30	116	41	65	20	52	111
I-95**	463	456	445	74	0	257	126	21	0
I-75	0	0	0	4	5	0	0	0	0
I-195	0	0	0	0	0	49	0	0	0
I-395	15	0	10	0	0	4	36	2	0
SR 826	50	166	22	456	187	0	0	79	0
M-CSWY	6	0	4	0	0	1	7	0	0
US 1 in Miami-Dade County	27	4	17	0	0	20	11	42	0
US 1 South of Florida City	0	0	0	0	0	0	0	0	59
MDX	SR 112	102	0	43	0	0	48	22	0
	SR 836	22	0	9	75	0	3	17	10
	SR 874	0	0	0	7	0	0	0	5
	SR 878	0	0	0	0	0	0	0	3
	SR 924	0	0	0	36	32	0	0	0
District 4	43	103	65	34	4	0	0	0	0
Florida's Turnpike	0	0	0	0	0	0	0	0	0
Subtotal of On Route	45	113	74	36	6	0	0	0	0
Subtotal of Off Route	0	0	0	0	0	0	0	0	0
Total District 6	463	456	445	456	5	49	36	42	59
Other Agencies	471	383	209	424	303	434	209	212	191
Total	765	726	528	726	270	432	206	236	250

Note: *Vehicle Alert messages are signed for entire Miami-Dade and Monroe Counties, thus is not location-specific event.

*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

** Includes I-95 Express Lanes

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DMS Messages by Time of Day

