# DMS Usage Report – December 2017

## Summary of Monthly Operations

In the month of December, there were 23,215 messages posted with 7,765 DMS activations for 1,340 events. The DMS efficiency was 99.85% (1,338 of the 1,340 signable events had DMS messages posted) for all roadways. There was an average of 5.79 DMSs activated per each signable event and an average of 2.99 DMS messages were posted per each DMS activation. This resulted in an average of 17.32 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

- $\frac{7{,}765\ DMS\ Activations}{1{,}340\ Events}$ **5.79** *Average DMS Activations per Event*

  *An average of 5.79 DMSs were activated per each signable event*

- $\frac{23{,}215\ DMS\ Messages}{7{,}765\ DMS\ Activations}$ **2.99** *Average DMS Messages per Activation*

  *An average of 2.99 DMS messages were posted per each DMS activation*

- $5.79\frac{DMS\ Activations}{Events} \times 2.99\frac{DMS\ Messages}{DMS\ Activations} =$ **17.32*** *DMS Messages per Event*

  *An average of 17.32* 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 | 71 |
| FDOT District 4 | 804 |
| Florida's Turnpike Enterprise | 38 |
| Miami-Dade Expressway Authority | 1432 |
| **Total** | **2345** |

**Table 2 DMS Usage by Event Type**

| Event Type Message | Number of Messages |
|---|---|
| FDOT District 6 Incidents | 10566 |
| Other Districts' Incidents | 1734 |
| Construction | 4935 |
| Safety | 4990 |
| Vehicle Alert | 990 |
| **Total** | **23215** |

**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 | 58 | 179 | 606:31:41 | N/A**** |
| | 22 | I-95 NB south of NW 62 St | 141 | 427 | 1247:21:03 | 99.57% |
| | 75 | I-95 NB before SR 112 | 269 | 779 | 1602:51:40 | 100.00% |
| | 77 | I-95 NB beyond SW 8 St | 354 | 942 | 1840:32:46 | 99.59% |
| | 2 | I-95 SB north of Ives Dairy Rd | 216 | 617 | 1770:13:20 | 99.84% |
| | 3 | I-95 SB north of Miami Gardens Dr | 239 | 713 | 1773:49:59 | 99.71% |
| | 095NB013.5LL | I-95 NB north of NW 173 St | 89 | 298 | 972:53:15 | 99.85% |
| | 20 | I-95 SB south of NW 119 St | 122 | 301 | 893:42:09 | 99.02% |
| | 21 | I-95 SB south of NW 62 St | 127 | 384 | 1008:23:24 | 100.00% |
| | 74 | I-95 SB beyond of SR 112 | 178 | 463 | 1182:09:17 | 99.94% |
| | 76 | I-95 SB before Rickenbacker Cswy | 33 | 107 | 720:36:08 | 94.96% |
| | | ***I-95 Mainline Subtotal*** | ***1826*** | ***5210*** | ***13619:04:42*** | ***99.25%*** |
| I-95 Express | 95X40 | 95X NB at NW 62nd St | 178 | 504 | 1417:36:05 | 99.34% |
| | 95X45 | 95X NB at NW 125th St | 187 | 538 | 1453:43:04 | 99.69% |
| | 95XSB45 | 95X SB at NW 62nd St | 112 | 399 | 1070:21:08 | 99.97% |
| | 95XSB50 | 95X SB at NW 125th St | 107 | 358 | 1076:55:31 | 99.93% |
| | 095SB014.6-EL | 95X SB at Miami Gardens Dr | 241 | 764 | 1900:45:08 | 99.84% |
| | 095NB014.8-EL | 95X SB north of Miami Gardens Dr | 68 | 257 | 961:51:51 | 99.68% |
| | | ***I-95 Express Subtotal*** | ***893*** | ***2820*** | ***7881:12:47*** | ***99.74%*** |
| SR 826 | 4 | SR 826 EB east of NW 67 Ave | 50 | 160 | 525:38:47 | 43.22% |
| | 5 | SR 826 EB east of NW 37 Ave | 292 | 807 | 1833:16:35 | 99.30% |
| | 14*** | SR 826 NB beyond NW 122 St | 77 | 260 | 546:35:01 | 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 | 92 | 305 | 1227:33:14 | 99.28% |
| | 19 | SR 826 WB beyond NW 67 Ave | 52 | 206 | 607:48:57 | 55.10% |
| | 826NB58 | SR 826 NB before NW 58 St | 74 | 323 | 1088:12:48 | 77.57% |
| | 826SB103*** | SR 826 SB before NW 103 St | 45 | 170 | 499:41:20 | N/A*** |
| | 826SB58 | SR 826 SB before NW 58 St | 14 | 59 | 172:22:41 | 24.49% |
| | 826NB1.3-LL | SR 826 NB before SW 72 St | 59 | 200 | 925:26:27 | 99.91% |
| | 826NB4.8-LL** | SR 826 NB at SW 24 St | 153 | 447 | 1474:24:29 | 99.87% |
| | 826SB8.8-LL** | SR 826 SB at NW 36 St | 113 | 334 | 944:52:35 | 100.00% |
| | | ***SR 826 Subtotal*** | ***1021*** | ***3271*** | ***9845:52:54*** | ***77.64%*** |
| I-75 | 43 | I-75 NB before Miami Gardens Dr | 31 | 117 | 645:16:16 | 39.77% |
| | 44 | I-75 SB before Miami Gardens Dr | 136 | 441 | 1386:29:23 | 0.21% |
| | 42 | I-75 SB ramp from NW 138 St | 95 | 304 | 805:02:58 | 49.65% |
| | | ***I-75 Subtotal*** | ***262*** | ***862*** | ***2836:48:37*** | ***29.88%*** |
| I-195 Mainline | 57 | I-195 EB before North Miami Ave | 35 | 138 | 834:10:20 | 100.00% |
| | 105 | I-195 WB before Alton Rd | 119 | 309 | 850:22:02 | 100.00% |
| | | ***I-195 Mainline Subtotal*** | ***154*** | ***447*** | ***1684:32:22*** | ***100.00%*** |
| I-395 | 886WB | Port Blvd WB before US-1 | 219 | 556 | 1322:40:53 | 100.00% |
| | 104 | I-395 WB at Watson Island | 314 | 778 | 1499:23:18 | 95.55% |
| | | ***I-395 Subtotal*** | ***533*** | ***1334*** | ***2822:04:11*** | ***97.78%*** |
| | | ***Limited Access Facilities Subtotal*** | ***4689*** | ***13944*** | ***38689:35:33*** | ***85.09%*** |

**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 | 74 | 180 | 388:18:31 | 42.99% |
| | 113**** | Ives Dairy Rd WB before I-95 | 40 | 148 | 420:43:45 | N/A**** |
| | 110 | Miami Gardens Dr EB before I-95 | 159 | 440 | 906:00:20 | 98.88% |
| | 111**** | Miami Gardens Dr WB before I-95 | 79 | 226 | 521:22:32 | 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 | 170 | 456 | 816:01:54 | 97.57% |
| | 107**** | NW 54 St EB before I-95 | 90 | 244 | 484:37:17 | N/A**** |
| | 108 | SW 8 St EB before I-95 | 37 | 90 | 283:15:59 | 36.83% |
| | | ***I-95 Arterial Subtotal*** | ***649*** | ***1784*** | ***3820:20:18*** | ***69.07%*** |
| 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 | 0 | 0 | 0:00:00 | N/A**** |
| | 9 | US-441 NB at TRI-Rail | 84 | 268 | 1042:31:28 | 99.93% |
| | 10**** | SR 9 NB before Park & Ride | 26 | 89 | 388:57:00 | N/A**** |
| | 8**** | US-441 SB at NW 179 St | 0 | 0 | 0:00:00 | N/A**** |
| | | ***Golden Glades Interchange Subtotal*** | ***110*** | ***357*** | ***1431:28:28*** | ***99.93%*** |
| SR 826 Arterial | SW24EB**** | SW 24 St EB before SR 826 | 112 | 342 | 1132:15:20 | N/A**** |
| | SW24WB | SW 24 St WB before SR 826 | 114 | 345 | 1139:39:33 | 100.00% |
| | SW40EB | SW 40 St EB before SR 826 | 98 | 280 | 1038:33:37 | 99.92% |
| | SW40WB | SW 40 St WB before SR 826 | 98 | 279 | 1038:25:33 | 99.86% |
| | SW56EB**** | SW 56 St EB before SR 826 | 77 | 233 | 1003:53:51 | N/A**** |
| | SW56WB | SW 56 St WB before SR 826 | 33 | 99 | 439:17:02 | 55.83% |
| | SW72EB | SW 72 St EB before SR 826 | 66 | 224 | 995:47:02 | 99.95% |
| | SW72WB | SW 72 St WB before SR 826 | 60 | 194 | 881:55:16 | 94.15% |
| | WFLAGLEREB | W Flagler ST EB before SR 826 | 114 | 345 | 1135:49:05 | 99.94% |
| | WFLAGLERWB** | W Flagler ST WB before SR 826 | 109 | 317 | 1035:15:53 | 94.83% |
| | NW25EB** | NW 25 ST EB before SR 826 | 127 | 388 | 1158:42:08 | 99.91% |
| | NW25WB** | NW 25 ST WB before SR 826 | 128 | 389 | 1158:43:17 | 91.72% |
| | NW36EB** | NW 36 ST EB before SR 826 | 75 | 241 | 703:37:33 | 14.95% |
| | NW36WB** | NW 36 ST WB before SR 826 | 114 | 394 | 1060:21:54 | 100.00% |
| | SW8EB** | SW 8 ST EB before SR 826 | 110 | 333 | 1138:10:48 | 99.94% |
| | SW8WB** | SW 8 ST WB before SR 826 | 110 | 333 | 1138:10:43 | 99.96% |
| | SW88EB** | Kendall DR EB before SR 826 | 53 | 186 | 949:30:09 | 99.65% |
| | SW88WB** | Kendall DR WB before SR 826 | 53 | 187 | 965:34:00 | 99.87% |
| | | ***SR 826 Arterial Subtotal*** | ***1651*** | ***5109*** | ***18113:42:44*** | ***90.66%*** |
| I-195 Arterial | 38 | Alton Rd SB before I-195 | 98 | 264 | 877:18:46 | 100.00% |
| | 39 | Arthur Godfrey WB before I-195 | 96 | 260 | 876:22:28 | 100.00% |
| | 40**** | Alton Rd NB before I-195 | 95 | 258 | 861:48:50 | N/A**** |
| | | ***I-195 Arterial Subtotal*** | ***289*** | ***782*** | ***2615:30:04*** | ***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 | 227 | 612 | 1480:32:29 | 100.00% |
| | 45 | US-1 SB before SW 80 St | 47 | 142 | 851:17:06 | 100.00% |
| | 47 | US-1 SB at Florida's Turnpike | 27 | 104 | 836:57:31 | 100.00% |
| | 46 | US-1 NB before Killian Dr | 50 | 280 | 970:56:42 | 100.00% |
| | 48 | US-1 NB at Florida's Turnpike | 26 | 101 | 830:09:20 | 100.00% |
| ***US-1 in Miami-Dade County Subtotal*** | | | ***377*** | ***1239*** | ***4969:53:08*** | ***100.00%*** |
| US-1 South of Florida City | 62**** | US-1 NB at Mile Marker 126 | 0 | 0 | 0:00:00 | N/A**** |
| | 64**** | US-1 NB at Mile Marker 106 | 0 | 0 | 0:00:00 | N/A**** |
| | 66**** | US-1 NB at Mile Marker 91.5 | 0 | 0 | 0:00:00 | N/A**** |
| | 68**** | US-1 NB at Mile Marker 39.5 | 0 | 0 | 0:00:00 | N/A**** |
| | 71**** | US-1 NB at Mile Marker 7.5 | 0 | 0 | 0:00:00 | N/A**** |
| | 61**** | US-1 SB at Mile Marker 126 | 0 | 0 | 0:00:00 | N/A**** |
| | 63**** | US-1 SB at Mile Marker 113 | 0 | 0 | 0:00:00 | N/A**** |
| | 65**** | US-1 SB at Mile Marker 106 | 0 | 0 | 0:00:00 | N/A**** |
| | 67**** | US-1 SB at Mile Marker 91.5 | 0 | 0 | 0:00:00 | N/A**** |
| | 69**** | US-1 SB at Mile Marker 39.5 | 0 | 0 | 0:00:00 | N/A**** |
| | 70**** | US-1 SB at Mile Marker 7.5 | 0 | 0 | 0:00:00 | N/A**** |
| ***US-1 South of Florida City Subtotal*** | | | ***0*** | ***0*** | ***0:00:00*** | **N/A**** |
| ***Arterials Subtotal*** | | | ***3076*** | ***9271*** | ***30950:54:42*** | ***90.33%*** |
| ***Limited Access Facilities Subtotal*** | | | ***4689*** | ***13944*** | ***38689:35:33*** | ***86.71%*** |
| ***Grand Total*** | | | ***7765*** | ***23215*** | ***69640:30:15*** | ***88.36%*** |

**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.*

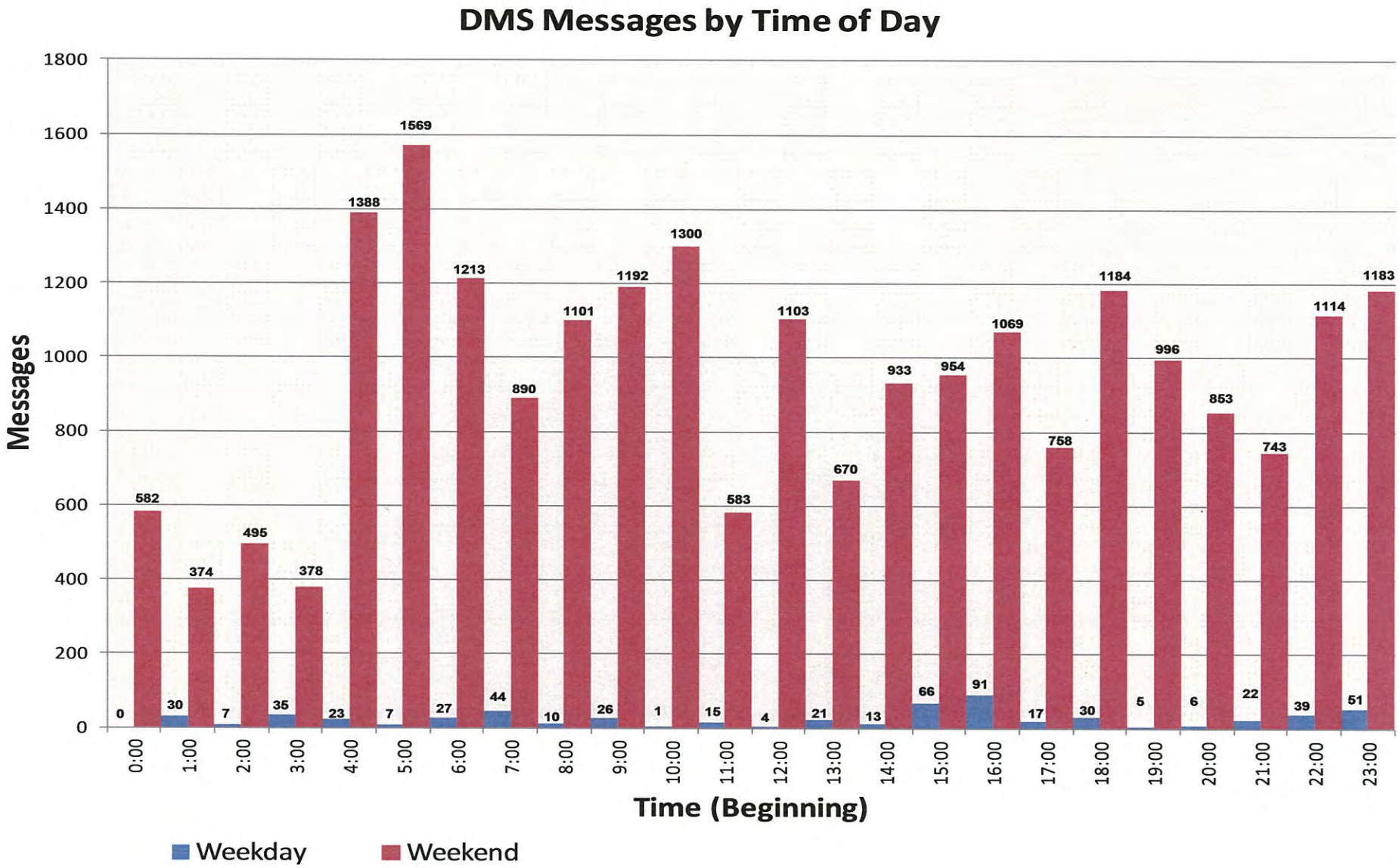
****DMS 826SBNW103ST0 and 14 are under the SR-826/I-75 Express Lanes Contractor; thus, system availability is not measured for this devices.*

*****These DMS were not totally operational due to the damages caused by Hurricane Irma.*

## 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 | | | 251 | 82 | 138 | 60 | 32 | 30 | 52 | 7 | 145 | 61 | 132 | 0 |
| Safety Messaging | | | 1095 | 689 | 620 | 134 | 142 | 137 | 277 | 97 | 1230 | 209 | 360 | 0 |
| District 6 | Miami-Dade | I-95 | 1851 | 541 | 280 | 3 | 185 | 406 | 1097 | 121 | 0 | 401 | 147 | 0 |
| District 6 | Miami-Dade | Express Lanes | 1204 | 1234 | 325 | 0 | 0 | 325 | 0 | 0 | 0 | 0 | 330 | 0 |
| District 6 | Miami-Dade | I-195 | 116 | 0 | 0 | 0 | 70 | 30 | 48 | 0 | 0 | 93 | 6 | 0 |
| District 6 | Miami-Dade | I-395 | 34 | 5 | 0 | 0 | 1 | 82 | 9 | 0 | 0 | 3 | 11 | 0 |
| District 6 | Miami-Dade | MacArthur Causeway | 23 | 1 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 1 | 0 |
| District 6 | Miami-Dade | SR-886/Port Boulevard | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District 6 | Miami-Dade | SR-826 | 50 | 46 | 1352 | 498 | 0 | 0 | 54 | 30 | 3318 | 0 | 51 | 0 |
| District 6 | Miami-Dade | I-75 | 0 | 0 | 131 | 93 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 |
| District 6 | Miami-Dade | US-1 | 12 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 59 | 0 | 162 | 0 |
| District 6 | Monroe | US-1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District 6 | Monroe | Card Sound Road | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| District 6 | Miami-Dade | SR-997/ Krome Avenue | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District 6 | Miami-Dade | SR-9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District 6 | Miami-Dade | US-27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District 6 | Miami-Dade | US-441 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District 6 | Miami-Dade | OTHER | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District 6 | Monroe | OTHER | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MDX | Miami-Dade | SR-836 | 350 | 8 | 219 | 0 | 0 | 314 | 0 | 0 | 54 | 0 | 6 | 0 |
| MDX | Miami-Dade | SR-836 Extension to 137th Ave | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MDX | Miami-Dade | SR-112 | 38 | 17 | 0 | 0 | 17 | 0 | 1 | 0 | 0 | 15 | 0 | 0 |
| MDX | Miami-Dade | SR-874 | 0 | 0 | 37 | 0 | 0 | 0 | 0 | 0 | 291 | 0 | 21 | 0 |
| MDX | Miami-Dade | SR-878 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| MDX | Miami-Dade | SR-924 | 0 | 0 | 22 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District 4 | Broward | I-95 | 110 | 154 | 77 | 0 | 0 | 0 | 226 | 96 | 0 | 0 | 0 | 0 |
| District 4 | Broward | Express Lanes | 25 | 17 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District 4 | Broward | I-75 | 0 | 0 | 39 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District 4 | Broward | I-595 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District 4 | Palm Beach | I-95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District 4 | Indian River | I-95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District 4 | Broward | OTHER | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Turnpike | Miami-Dade | Florida's Turnpike | 8 | 10 | 7 | 0 | 0 | 0 | 5 | 6 | 0 | 0 | 2 | 0 |
| Turnpike | Miami-Dade | Florida's Turnpike Spur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Turnpike | Broward | Florida's Turnpike | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Turnpike | Palm Beach | Florida's Turnpike | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Turnpike | Martin | Florida's Turnpike | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Turnpike | St. Lucie | Florida's Turnpike | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tunnel | Miami-Dade | Port Miami Tunnel | 32 | 16 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 8 | 0 |
| Subtotal of On Route | | | 1851 | 1234 | 1352 | 93 | 70 | 82 | 1097 | 121 | 3318 | 93 | 162 | 0 |
| Subtotal of Off Route | | | 3359 | 1586 | 1919 | 769 | 377 | 1252 | 687 | 236 | 1791 | 689 | 1077 | 0 |
| Total District 6 | | | 4647 | 2598 | 2852 | 799 | 430 | 1020 | 1537 | 255 | 4764 | 767 | 1201 | 0 |
| Other Agencies | | | 563 | 222 | 419 | 63 | 17 | 314 | 247 | 102 | 345 | 15 | 38 | 0 |
| Total | | | 5210 | 2820 | 3271 | 862 | 447 | 1334 | 1784 | 357 | 5109 | 782 | 1239 | 0 |

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
Messages
1800
1600
1400
1200
1000
800
600
400
200
0
582
374
495
378
1388
1569
1213
890
1101
1192
1300
583
1103
670
933
954
1069
758
1184
996
853
743
1114
1183
0
30
7
35
23
7
27
44
10
26
1
15
4
21
13
66
91
17
30
5
6
22
39
51
0:00
1:00
2:00
3:00
4:00
5:00
6:00
7:00
8:00
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10:00
11:00
12:00
13:00
14:00
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18:00
19:00
20:00
21:00
22:00
23:00
Time (Beginning)
Weekday
Weekend