

This is the FDOT District 1 SWIFT SunGuide Center Quarterly Operations Report, for Second Quarter, 2016.

This Report contains the numerical data and counts that were derived from the SunGuide System events created by the operations staff.

Table Of Contents

- 1 Number Of SunGuide Events**
- 2 Number of Lane Closing Events**
- 3 Number of Rapid Incident Scene Clearance (RISC) Events**
- 4 Number of Emergency Stopping Site (ESS) events.**
- 5 Number of Events from a Safety Barrier Alert.**
- 6 Average Open Roads Policy & Normal Traffic Times for I-75 Incidents**
- 7 Average Blockage/Event Duration - Lane Blocking Events**
- 8 Lane Blocking Events- By County and Roadway**
- 9 Lane Blocking Incidents - By Incident Level**
- 10 SunGuide Events - By Event Type**
- 11 SunGuide Event Duration (Average) - By Event Type**
- 12 Event - DMS Statistics**
- 13 Public Service Announcements - DMS Activations**
- 14 Road Work - DMS Statistics**
- 15 Event Location Summary- By Mile Marker**
- 16 Event Detection Source**
- 17 Event Type Summary**
- 18 Road Ranger Assist Summary**
- 19 Road Ranger Assist Activities - By County**
- 20 Road Ranger Events - By Zone**
- 21 Road Ranger Assisted Events - By Notifying Agency**
- 22 Road Ranger Assisted Events - By Time of Day**
- 23 Road Ranger Assisted Events - By Solution Type**

Please note that all times in this report are HH:MM format except where specifically noted.



Definitions

- RISC -** RISC is an acronym for "Rapid Incident Scene Clearance". This is an innovative program developed by FDOT that helps the incident response community to meet the Florida's Open Roads Policy goal of safely clearing major highway incidents and truck crashes in 90 minutes or less. It is an incentive-based towing service program that requires specialized equipment and trained operators to quickly remove wreckage from the roadway.
- ESS -** ESS is an acronym for "Emergency Stopping Site". ESS are improved areas located on the state right-of-way near the freeway mainline that are used by motorists, Road Rangers, law enforcement, fire rescue, and other public service vehicles as a safe location to temporarily relocate from the interstate.
- SBCS -** The Safety Barrier Cable System is a continuous string of instrumented cables along the right-of-way fence on Alligator Alley on I-75. If a vehicle runs off the roadway and hits the cable, an alert is sent to the RTMC which allows for quick response to that incident.
- Incident -** An incident is an unplanned traffic occurrence that blocks lanes of travel, causes an abnormal traffic disturbance, or requires DMS activation. Examples of incidents include crashes, abnormal delays, emergency road work, road closures, flooding, police activity, child abduction alerts, etc.
*** Please note that pre-planned road work and normal rush hour delays are not considered incidents.*
- Event -** An event is any roadway activity that is recorded by the SWIFT SunGuide Center including lane blocking incidents, congestion, scheduled construction, emergency road work, shoulder lane closures, disabled vehicles, abandoned vehicles, etc.
- Emergency Road Work -** This is an event type that describes situations where non-scheduled road work is necessary or whenever normally scheduled road work remains active past 6 AM or 4 PM on weekdays (into the potential rush hour time frame).
- Road Ranger Events -** Number of events in which a Road Ranger was dispatched and/or arrived on scene.
- Road Ranger Assists -** Number of activities performed by the Road Rangers when on the scene of an event.

Incident Levels:

- Level 1 -** Incidents of any duration that do not close travel lanes (shoulder incidents, delays, event delays, etc.) or the "Start Time" to "Clear Time" duration of a lane closing (not road closing) incident is estimated to be < 30 minutes.
- Level 2 -** The "Start Time" to "Clear Time" duration of a lane closing incident is estimated to be 30 minutes or greater but less than 2 hours. This does not include a full closure of the roadway.
- Level 3 -** The "Start Time" to "Clear Time" duration of a lane closing incident is estimated to be 2 hours or greater or all travel lanes are blocked on any roadway or ramp. Significant area-wide congestion is expected (but not necessary).

Please note that all times in this report are in HH:MM format except where specifically noted.



1. Total Number of SunGuide Events:	
	15493

2. Number of Lane Blocking Events:	
	1502

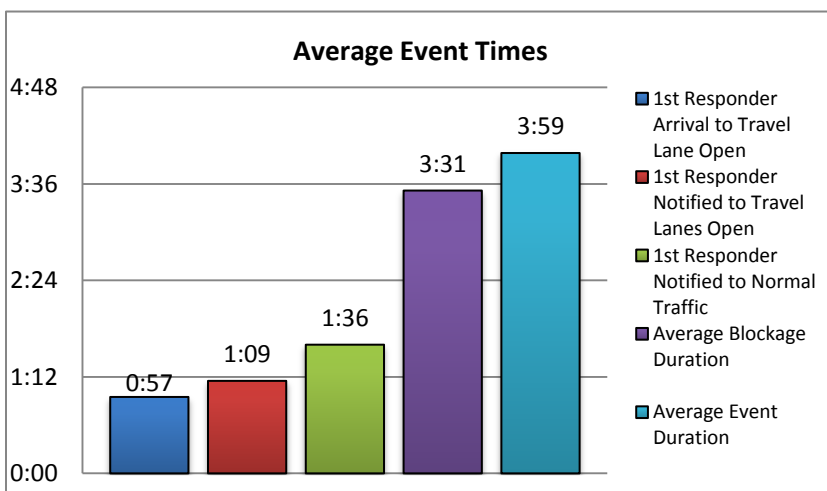
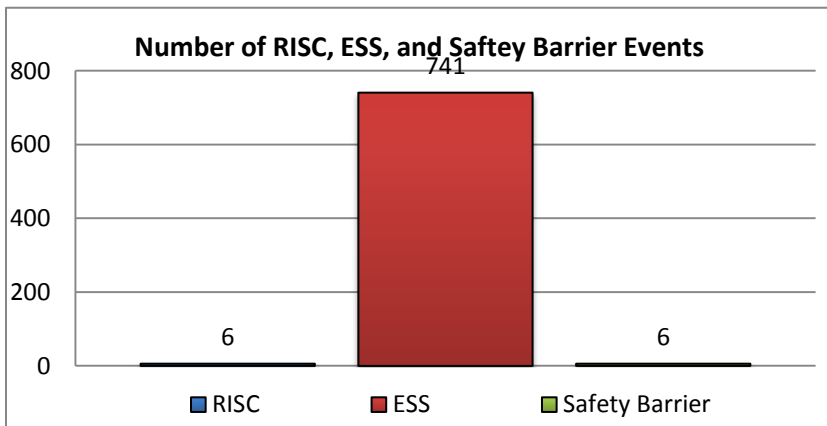
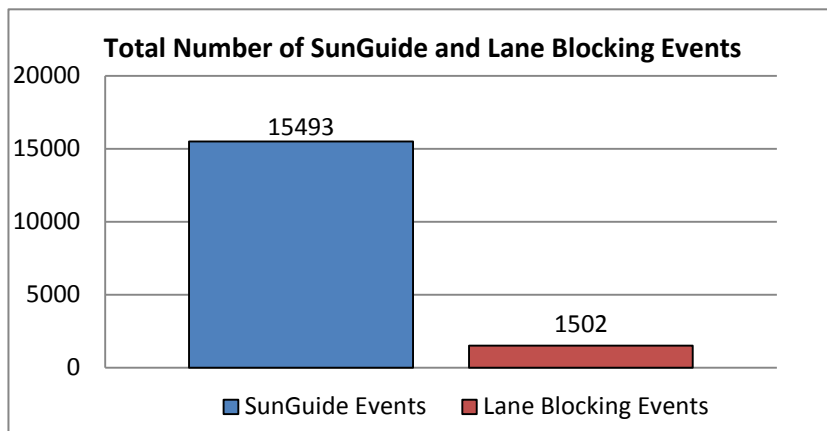
3. Number of RISC Events:	
	6

4. Number of ESS Events:	
	741

5. Events from a Safety Barrier Alert:	
	6

6. Average Open Roads Policy & Normal Traffic Times for I-75 Incidents	
Average Incident Duration From First Responder Arrival to Travel Lane Open	0:57
Average Incident Duration From First Responder Notified to Travel Lane Open	1:09
Average Incident Duration From First Responder Notified to Normal Traffic	1:36

7. Average Blockage/Event Duration - For All Lane Blocking Events	
Number of Events	15493
Number of Lane Blocking Events	1502
Number of Secondary Incidents	231
Average Blockage Duration	3:31
Average Event Duration	3:59



Note: Table 6 includes lane blocking incidents for I-75 and only includes Crash, Debris on Roadway, Disabled Vehicles, Emergency Vehicles, Flooding, Other, Pedestrian, Police Activity, and Vehicle Fire Events.



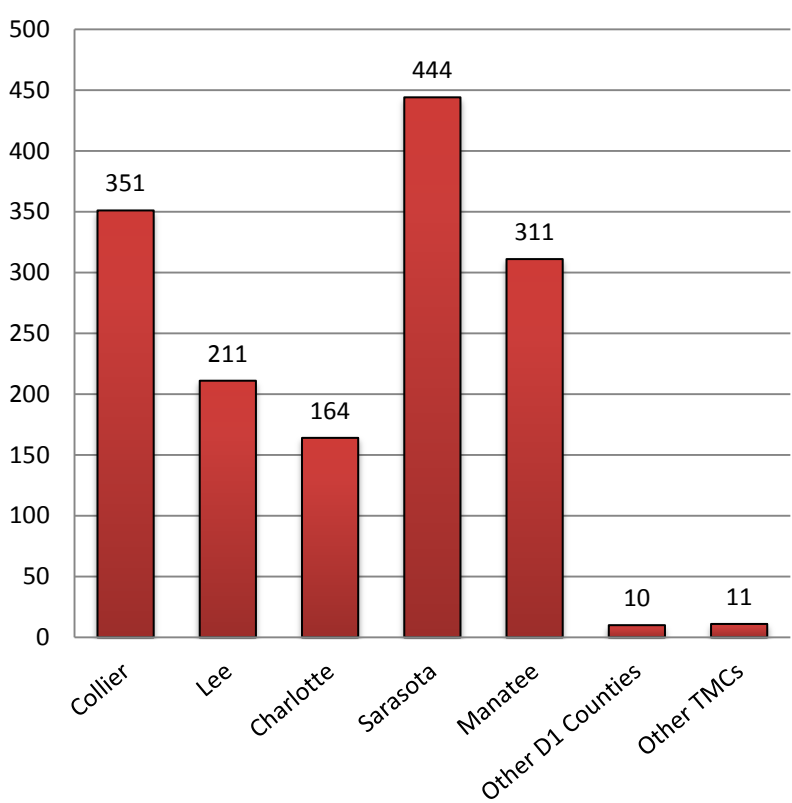
8. Lane Blocking Incidents - By County and Roadway:

Roadways	Collier County	Lee County	Charlotte County	Sarasota County	Manatee County	Other Dist 1 Counties
I-75	317	131	111	289	239	-
US-41	19	45	49	50	55	-
I-275	-	-	-	-	0	-
Arterials	15	35	4	105	17	10
Total Incidents	351	211	164	444	311	10

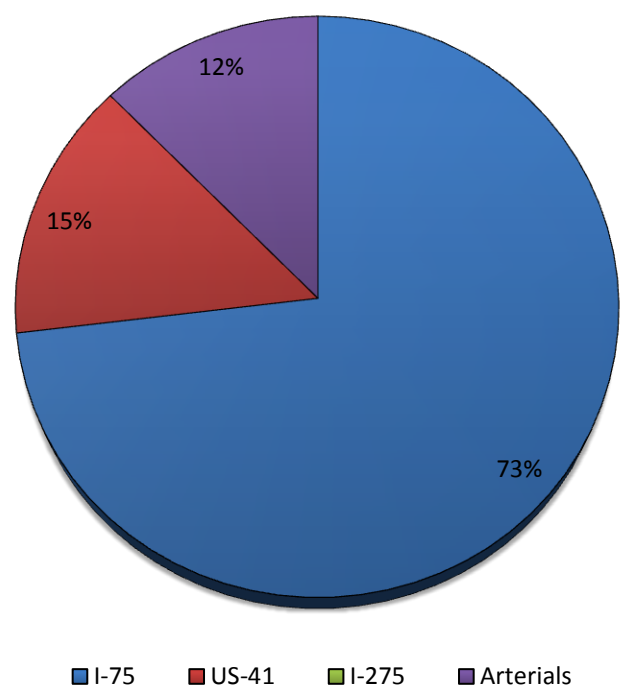
Roadways	District 7* TMC	District 6* TMC	District 4* TMC	FL Turnpike* TMC	Total Incidents By Roadway
I-75	0	0	11	-	1098
US-41	0	0	-	-	218
I-275	0	-	-	-	0
Arterials	0	0	0	0	186
Total Incidents	0	0	11	0	1502

*These are incidents that occurred outside of the District 1 coverage area but requires SWIFT SunGuide assistance.

Lane Blocking Incidents - By County



Lane Blocking Incidents - By Roadway



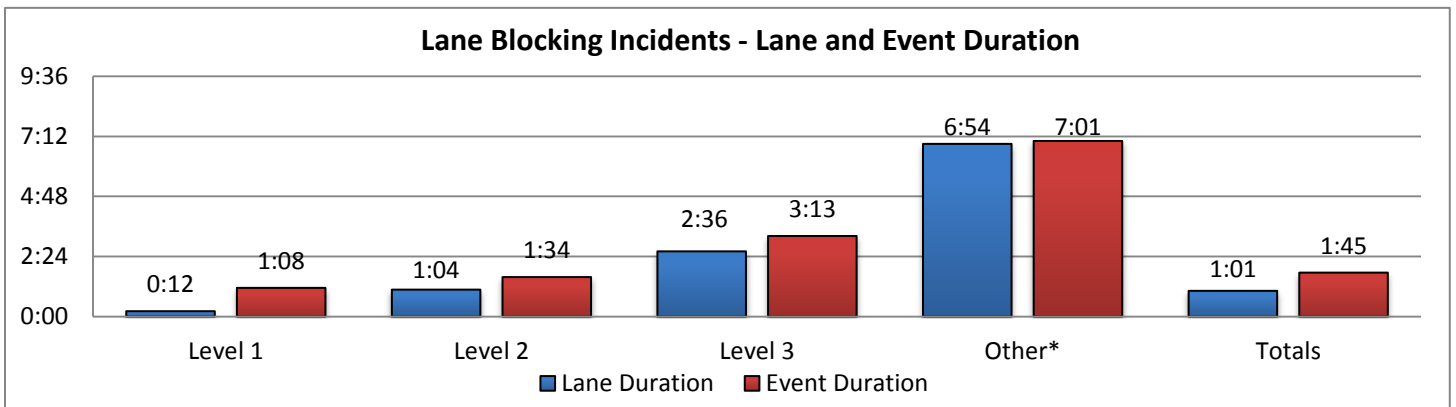
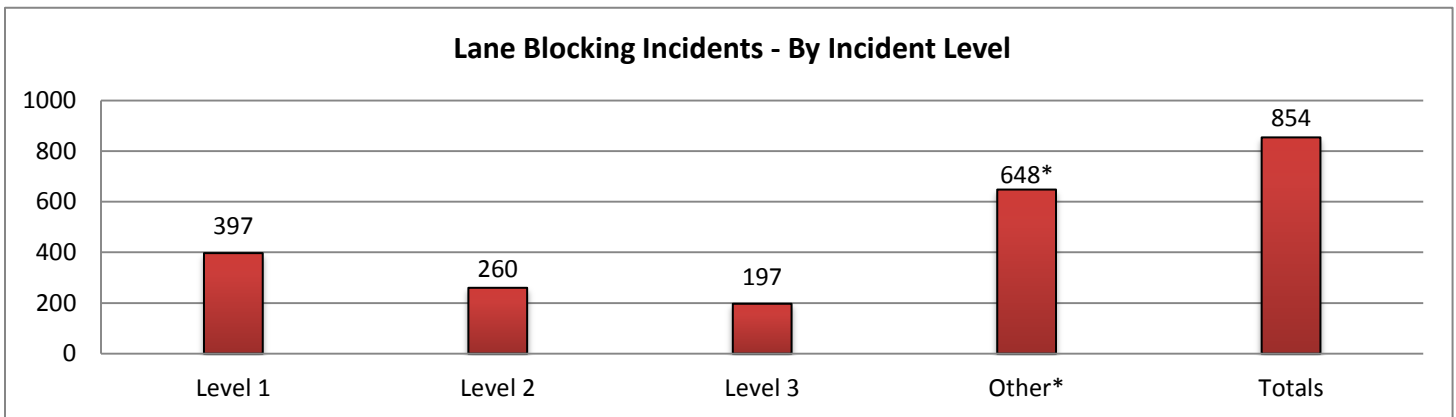


9. LANE BLOCKING INCIDENTS - By Incident Level:

	Collier County			Lee County			Charlotte County			Sarasota County		
	Events	Lane Duration	Event Duration	Events	Lane Duration	Event Duration	Events	Lane Duration	Event Duration	Events	Lane Duration	Event Duration
Level 1	59	0:11	1:14	86	0:14	1:16	40	0:15	1:05	127	0:13	1:15
Level 2	30	1:03	1:27	61	1:06	1:37	25	1:05	1:28	91	1:04	1:34
Level 3	31	2:02	2:49	33	2:28	2:55	24	2:19	3:00	45	2:09	3:02
Other*	231*	7:31	7:38	31*	5:10	5:16	75*	9:06	9:13	181*	6:35	6:43
Totals	120	0:52	1:41	180	0:56	1:41	89	1:02	1:42	263	0:50	1:39

	Manatee County			Other Dist 1 Counties			Other District TMCs			Total		
	Events	Lane Duration	Event Duration	Events	Lane Duration	Event Duration	Events	Lane Duration	Event Duration	Events	Lane Duration	Event Duration
Level 1	82	0:12	0:52	0	0:00	0:00	3	0:14	0:17	397	0:12	1:08
Level 2	53	1:05	1:41	0	0:00	0:00	0	0:00	0:00	260	1:04	1:34
Level 3	47	2:09	2:34	9	11:37	12:13	8	1:23	1:27	197	2:36	3:13
Other*	129*	5:26	5:32	1*	0:00	0:00	0*	0:00	0:00	648*	6:54	7:01
Totals	182	0:57	1:32	9	11:37	12:13	11	1:04	1:07	854	1:01	1:45

*Incidents classified as "Other" are police activity or scheduled road work, and are not included in the Level 1, 2, & 3 totals.

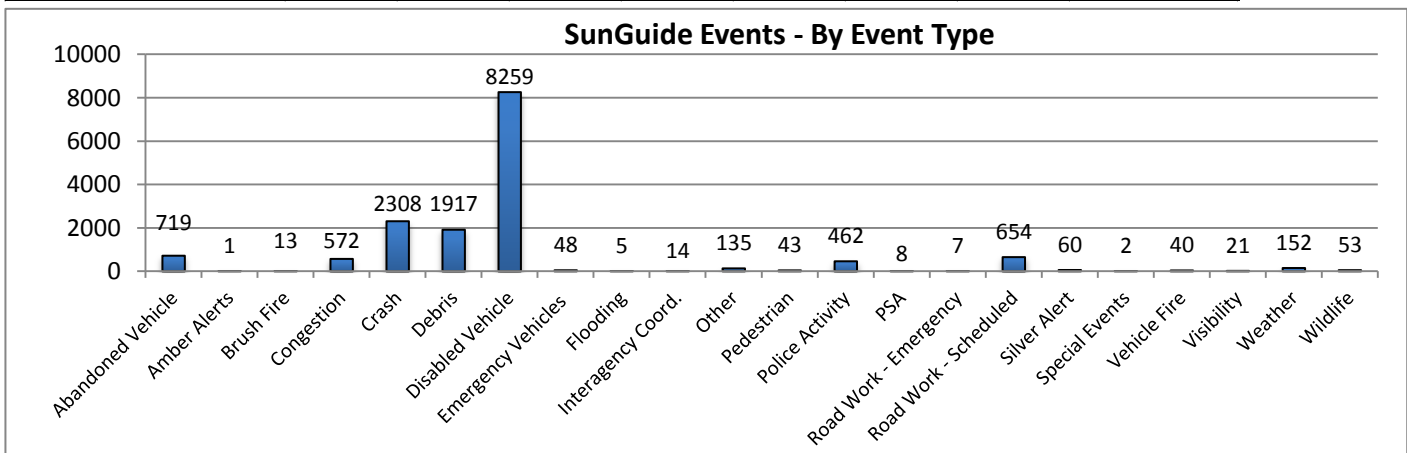




10. SunGuide Events - by Event Type:

Incidents	Collier County	Lee County	Charlotte County	Sarasota County	Manatee County	Other D-1 Counties	Other Dist. TMCs	Total # of Events
Abandoned Vehicle	127	215	61	218	98	0	0	719
Amber Alerts	0	1	0	0	0	0	0	1
Bridge Work	0	0	0	0	0	0	0	0
Brush Fire	8	1	2	1	1	0	0	13
Congestion	33	90	14	180	255	0	0	572
Crash	196	531	160	756	646	18	1	2308
Debris	299	432	192	493	501	0	0	1917
Disabled Vehicle	2576	2292	584	1603	1183	0	21	8259
Emergency Vehicles	6	12	5	13	12	0	0	48
Evacuation	0	0	0	0	0	0	0	0
Flooding	0	0	0	5	0	0	0	5
Interagency Coord.	0	0	0	0	2	0	12	14
LEO Alerts	0	0	0	0	0	0	0	0
Other	18	43	13	44	15	2	0	135
Pedestrian	7	12	3	6	15	0	0	43
Police Activity	173	155	29	74	31	0	0	462
PSA	0	0	0	2	6	0	0	8
Road Work - Emergency	4	1	0	0	2	0	0	7
Road Work - Scheduled	235	37	72	178	130	2	0	654
Silver Alert	0	59	0	0	0	1	0	60
Special Events	1	0	0	1	0	0	0	2
Vehicle Fire	6	11	0	17	6	0	0	40
Visibility	7	4	3	6	1	0	0	21
Weather	40	30	21	33	28	0	0	152
Wildlife	25	6	2	13	7	0	0	53
Total Incidents	3761.4	3932	1161	3643	2939	23	34	15493

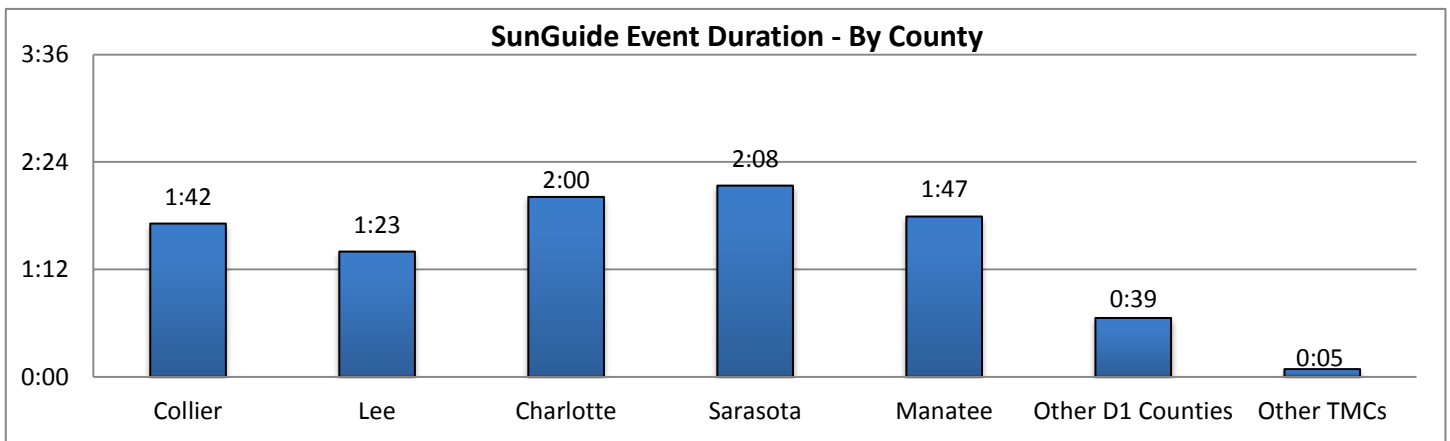
Note: Incident categories that are listed as zero are not included in the chart below.





11. SunGuide Event Duration (Average) - by Event Type:

	Collier County	Lee County	Charlotte County	Sarasota County	Manatee County	Other D-1 Counties	Other Dist. TMCs	All Counties
Abandoned Vehicle	10:32	7:51	8:59	9:44	9:49	0:00	0:00	9:15
Amber Alerts	0:00	6:02	0:00	0:00	0:00	0:00	0:00	4:11
Bridge Work	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
Brush Fire	1:51	1:02	0:46	0:16	0:11	0:00	0:00	1:22
Congestion	0:53	0:53	1:19	1:23	1:02	0:00	0:00	1:07
Crash	1:28	1:16	1:21	1:18	1:29	0:38	0:41	1:21
Debris	0:16	0:18	0:16	0:28	0:16	0:00	0:00	0:19
Disabled Vehicle	1:02	0:56	1:12	1:44	1:42	0:00	0:02	1:14
Emergency Vehicles	0:48	1:41	3:40	0:47	0:24	0:00	0:00	1:12
Evacuation	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
Flooding	0:00	0:00	0:00	2:07	0:00	0:00	0:00	2:07
Interagency Coord.	0:00	0:00	0:00	0:00	12:53	0:00	0:06	1:56
LEO Alerts	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
Other	0:44	0:12	0:09	0:14	0:17	0:08	0:00	0:17
Pedestrian	0:17	0:51	0:32	0:31	0:25	0:00	0:00	0:32
Police Activity	0:21	0:21	0:26	0:26	0:31	0:00	0:00	0:22
PSA	0:00	0:00	0:00	8:02	10:30	0:00	0:00	9:53
Road Work - Emergency	3:44	1:08	0:00	0:00	3:25	0:00	0:00	3:16
Road Work - Scheduled	7:38	5:05	9:34	6:48	5:32	1:37	0:00	7:02
Silver Alert	0:00	6:22	0:00	0:00	0:00	0:12	0:00	6:15
Special Events	2:29	0:00	0:00	0:20	0:00	0:00	0:00	1:24
Vehicle Fire	1:41	0:54	0:00	1:47	2:30	0:00	0:00	1:37
Visibility	2:19	2:13	1:43	1:58	3:34	0:00	0:00	2:10
Weather	2:13	3:29	3:14	2:07	2:20	0:00	0:00	2:36
Wildlife	0:52	0:39	0:17	1:02	0:32	0:00	0:00	0:49
Total Incidents	1:42	1:23	2:00	2:08	1:47	0:39	0:05	1:45





12. Event DMS Statistics:

Number of DMS Used for Unplanned Events*:	Number of Incidents Utilizing DMS	Average Number of DMS per Incident	Average DMS Message Duration
8043	1035	8	2:43

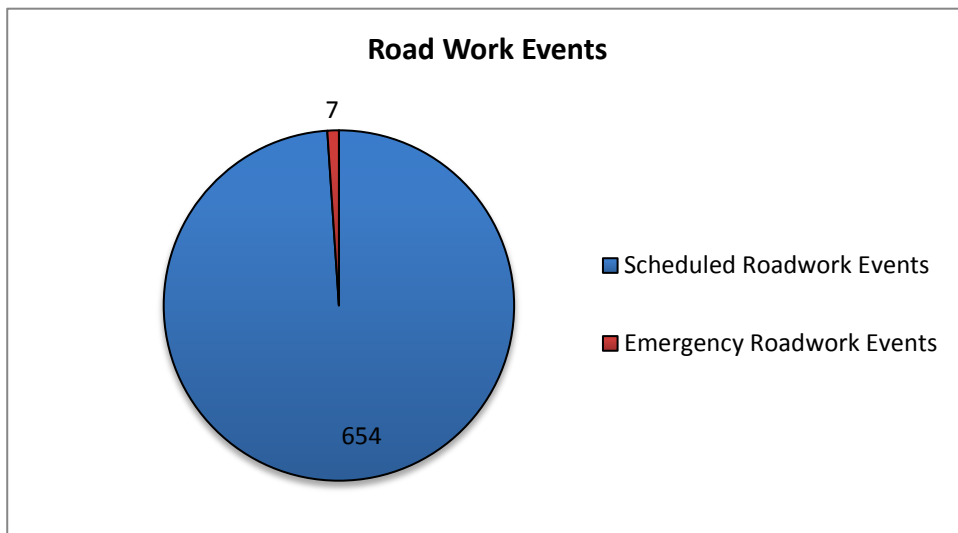
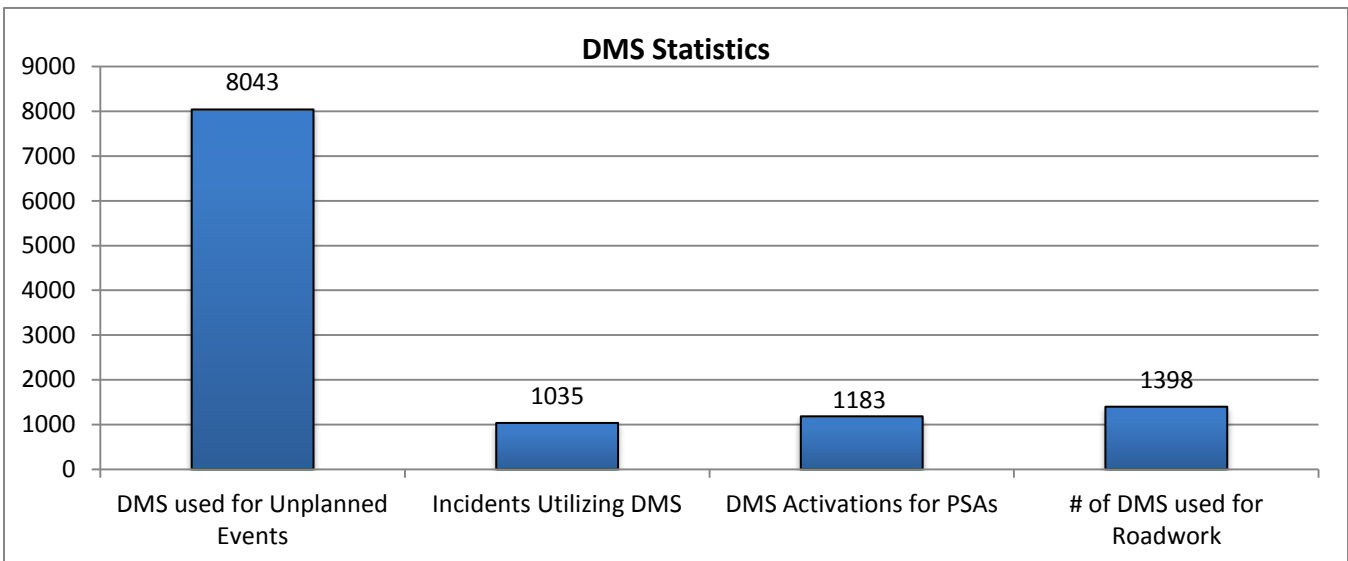
13. PSA - DMS Activations:

Number of Public Service Announcement DMS Activations
1183

14. Road Work - DMS Statistics:

Scheduled Road Work	Emergency Road Work	Total # Road Work Patterns
654	7	661
# DMS Used for Road Work		Average # of DMS/Pattern
1398		2

* The DMS used for "Unplanned Events" includes crashes, congestion, visibility, silver alerts, etc.





15. Event Location - Summary By Exit Reference:

I-75 Northbound		I-75 Southbound	
Mile <49	10	Mile <49	0
Mile 49-79.9	556	Mile 49-79.9	762
Mile 80-100.9	675	Mile 80-100.9	573
Mile 101-104.9	85	Mile 101-104.9	91
Mile 105-106.9	114	Mile 105-106.9	135
Mile 107-110.9	199	Mile 107-110.9	184
Mile 111-115.9	146	Mile 111-115.9	155
Mile 116-122.9	437	Mile 116-122.9	417
Mile 123-127.9	360	Mile 123-127.9	269
Mile 128-130.9	176	Mile 128-130.9	185
Mile 131-135.9	271	Mile 131-135.9	229
Mile 136 -137.9	79	Mile 136 -137.9	51
Mile 138 -138.9	89	Mile 138 -138.9	61
Mile 139 - 140.9	252	Mile 139 - 140.9	64
Mile 141 - 142.9	103	Mile 141 - 142.9	82
Mile 143 - 157.9	433	Mile 143 - 157.9	340
Mile 158 - 160.9	97	Mile 158 - 160.9	69
Mile 161 - 163.9	105	Mile 161 - 163.9	86
Mile 164 - 166.9	75	Mile 164 - 166.9	78
Mile 167 -169.9	49	Mile 167 -169.9	64
Mile 170 - 178.9	178	Mile 170 - 178.9	176
Mile 179 - 181.9	87	Mile 179 - 181.9	58
Mile 182 - 190.9	323	Mile 182 - 190.9	269
Mile 191 - 192.9	103	Mile 191 - 192.9	102
Mile 193 - 194.9	95	Mile 193 - 194.9	81
Mile 195 -199.9	195	Mile 195 -199.9	148
Mile 200 - 204.9	245	Mile 200 - 204.9	234
Mile 205 - 206.9	183	Mile 205 - 206.9	103
Mile 207 - 209.9	134	Mile 207 - 209.9	122
Mile 210 -212.9	316	Mile 210 -212.9	167
Mile 213 - 216.9	347	Mile 213 - 216.9	306
Mile 217 - 219.9	246	Mile 217 - 219.9	221
Mile 220 - 223.9	286	Mile 220 - 223.9	216
Mile 224 -227.9	212	Mile 224 -227.9	218
Mile 228 - 228.9	62	Mile 228 - 228.9	58
Mile 229 -229.9	6	Mile 229 -229.9	6
Mile 230 - 239.9	10	Mile 230 - 239.9	7
> Mile 240	0	> Mile 240	0
North Total	7339	South Total	6387

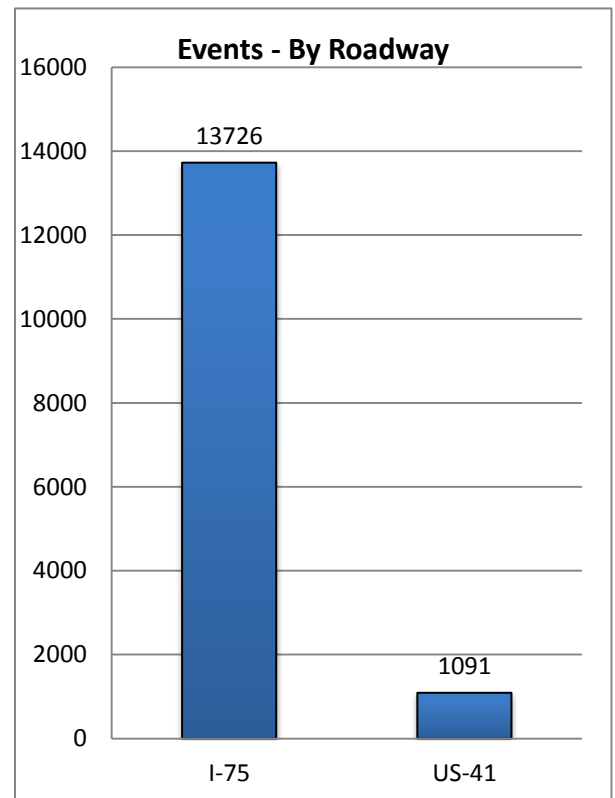
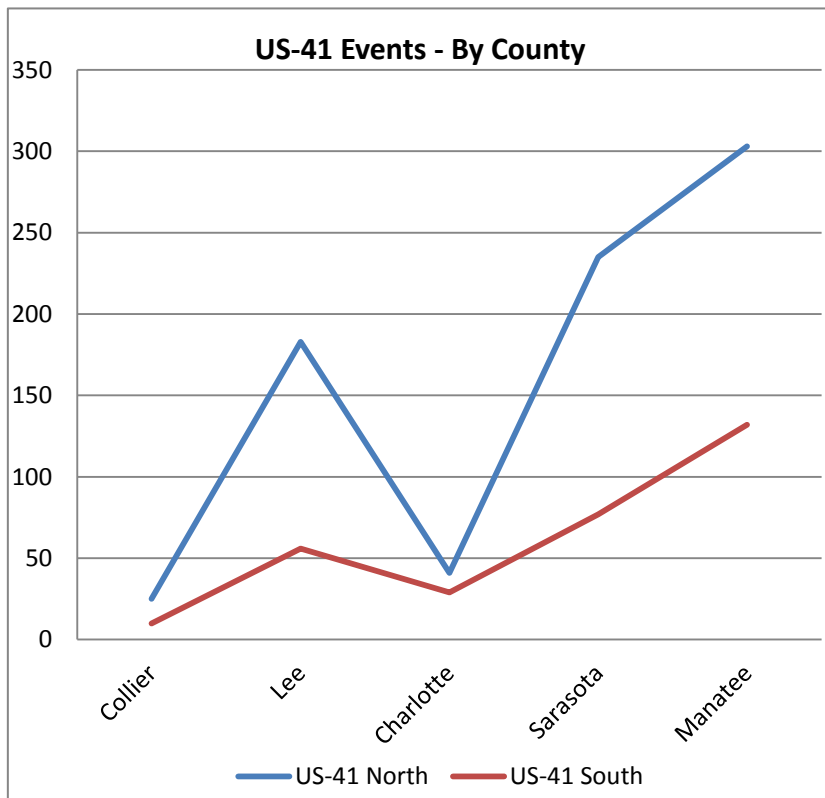
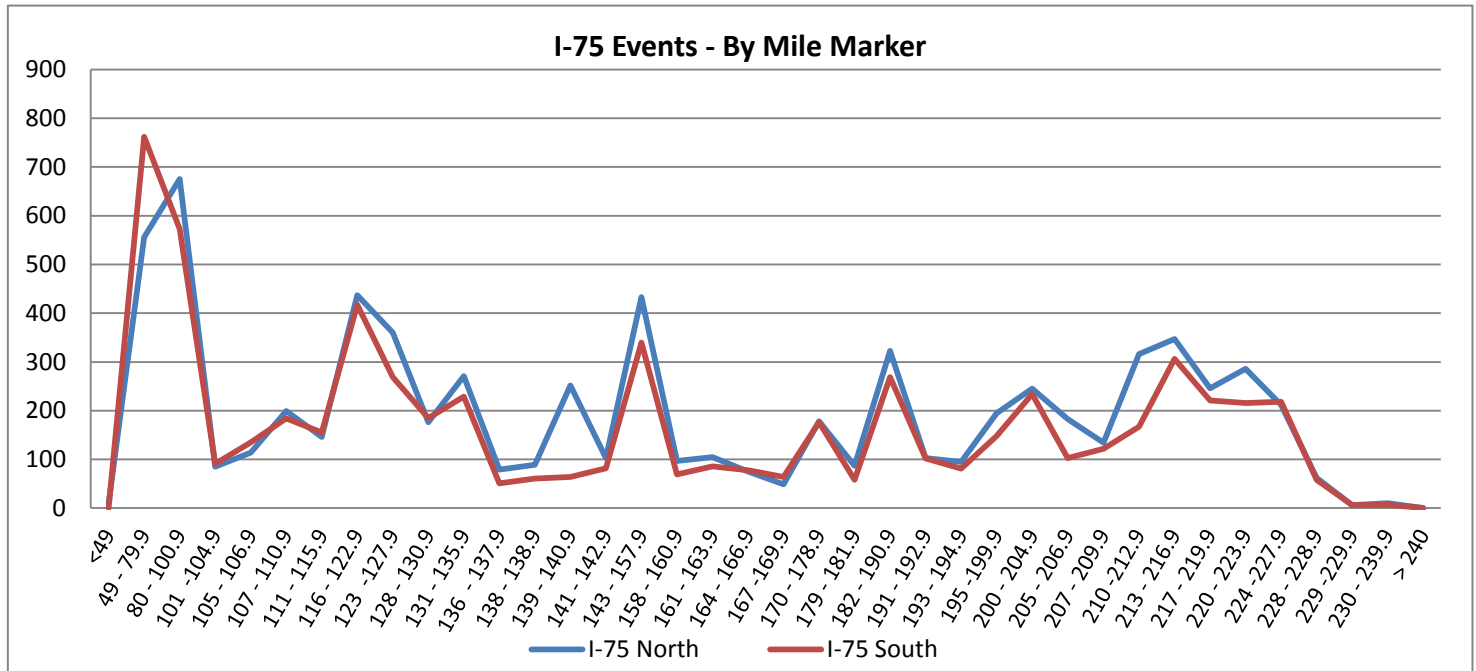
US-41 Northbound	
Collier	25
Lee	183
Charlotte	41
Sarasota	235
Manatee	303
North Total	787

US-41 Southbound	
Collier	10
Lee	56
Charlotte	29
Sarasota	77
Manatee	132
South Total	304

Total Events on US-41
1091

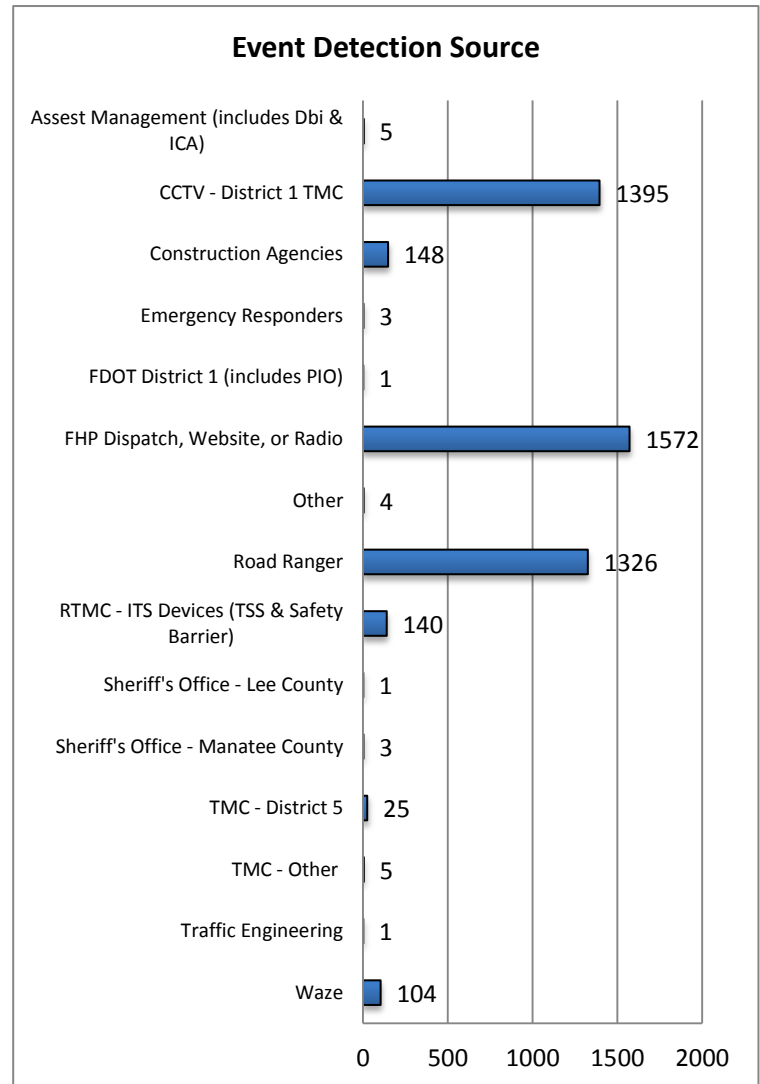
Total Events on I-75
13726

Note: The charts for these tables appear on the following page.





16. Event Detection Source:		
Assest Management (includes Dbi & ICA)	11	0.1%
CCTV - District 1 TMC	5011	32.3%
CCTV - Other	0	0.0%
Construction Agencies	535	3.5%
County and Local Law Enforcement	2	0.0%
Emergency Operations Centers	0	0.0%
Emergency Responders	1	0.0%
FDOT District 1 ITS Managers	0	0.0%
FDOT District 1 (includes PIO)	5	0.0%
FDOT Maintenance	0	0.0%
FHP Dispatch, Website, or Radio	4312	27.8%
FHP Incident Alerts	0	0.0%
Fire Department	0	0.0%
HazMat/DEP	0	0.0%
MCCO	0	0.0%
Media	0	0.0%
Motorists/511 Feedback	8	0.1%
Other	7	0.0%
Other Airport	0	0.0%
Other Field Personnel	0	0.0%
Road Ranger	4563	29.5%
RTMC - ITS Devices (TSS & Safety Barrier)	286	1.8%
RTMC Scanner	0	0.0%
RTMC Staff (On Scene)	0	0.0%
Sherriff's Officer - Charlotte County	0	0.0%
Sheriff's Office - Collier County	0	0.0%
Sheriff's Office - Lee County	3	0.0%
Sheriff's Office - Manatee County	1	0.0%
Sheriff's Office - Sarasota County	0	0.0%
SW Florida Internantion Airport	0	0.0%
TMC - District 4	13	0.1%
TMC - District 5	60	0.4%
TMC - District 7	0	0.0%
TMC - Other	28	0.2%
Tow Truck Companies	0	0.0%
Traffic Engineering	14	0.1%
Waze	633	4.1%
Total Number of Incidents	15493	100.0%

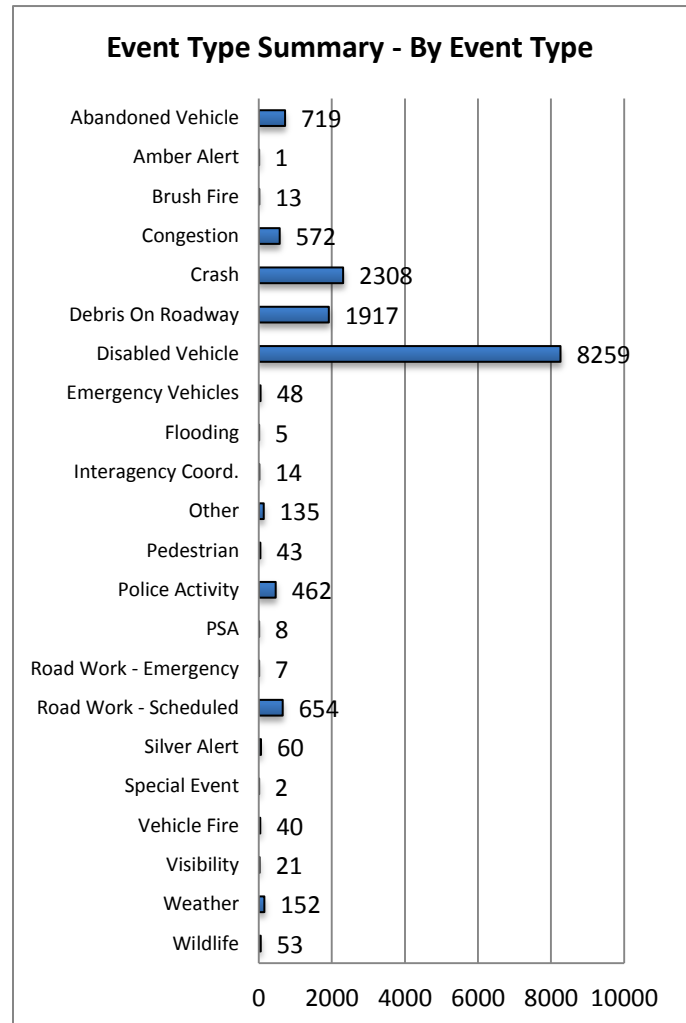


Note: Event Detection Source Categories listed as zero are not included in the above chart.



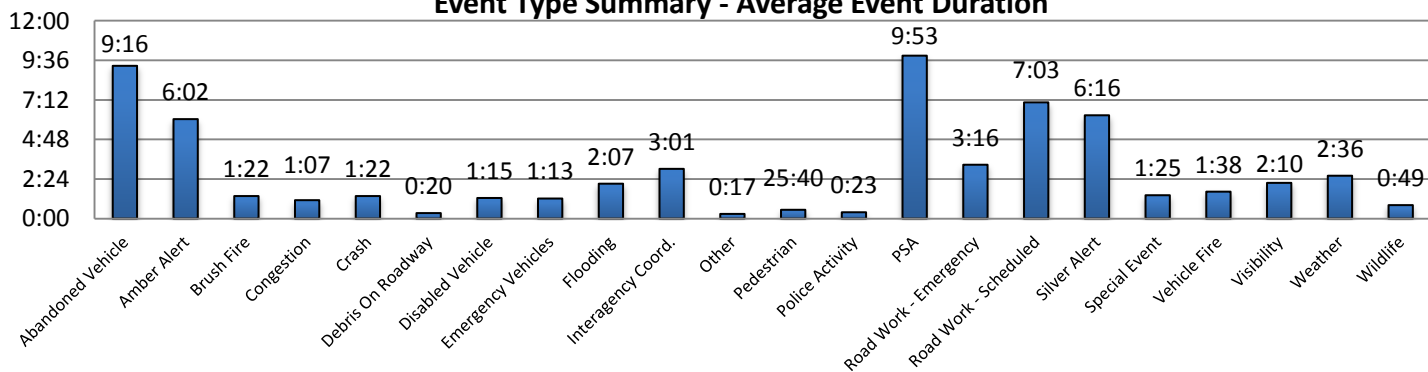
17. Event Type Summary

Event Types	# of Events	Average On Scene Time	Average Event Duration
Abandoned Vehicle	719	2:36	9:16
Amber Alert	1	0:00	6:02
Bridge Work	0	0:00	0:00
Brush Fire	13	0:58	1:22
Congestion	572	0:00	1:07
Crash	2308	1:01	1:22
Debris On Roadway	1917	0:12	0:20
Disabled Vehicle	8259	0:22	1:15
Emergency Vehicles	48	1:07	1:13
Evacuation	0	0:00	0:00
Flooding	5	0:26	2:07
Interagency Coord.	14	0:08	3:01
LEO Alert	0	0:00	0:00
Other	135	0:05	0:17
Pedestrian	43	0:05	0:32
Police Activity	462	0:17	0:23
PSA	8	0:00	9:53
Road Work - Emergency	7	1:33	3:16
Road Work - Scheduled	654	0:10	7:03
Silver Alert	60	0:03	6:16
Special Event	2	0:00	1:25
Vehicle Fire	40	1:07	1:38
Visibility	21	0:11	2:10
Weather	152	0:05	2:36
Wildlife	53	0:31	0:49
Total Events	15493	0:36	2:52



Note: Event Type Categories listed as zero are not included in these charts.

Event Type Summary - Average Event Duration





Road Ranger Information

Weekday Road Rangers			
RR104	MM 49-80	RR111	MM 167-193
RR103	MM 80-105	RR108	MM 191-213
RR105	(Spare Truck)	RR113	MM 210-230
RR106	MM 105-123	*RR112	MM 224-230 &
RR107	MM 116-138		I-275 MM 0-13
RR110	MM 136-158	RR115	(Spare Truck)
RR109	MM 143-170		

*RR112 is primarily dispatched from the District 7 RTMC

County Limits	
Collier County	Mile 50-115
Lee County	Mile 115-149
Charlotte County	Mile 149-172
Sarasota County	Mile 172-213
Manatee County	Mile 213-232

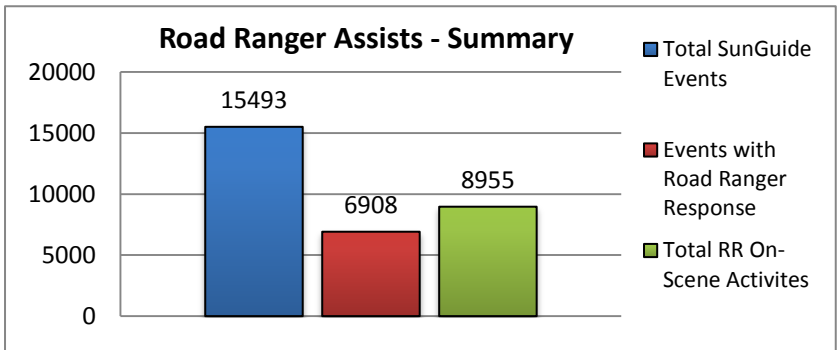
Saturday Road Rangers			
RR104	MM 49-80	RR111	MM 167-193
RR103	MM 80-105	RR113	MM 210-230
RR105	(Spare Truck)	RR112	MM 224-230
RR106	MM 105-123		I-275 MM 0-13
RR109	MM 143-170	*RR113	I-275 MM 0-13

*RR 113 covers I-275 until 11 AM when RR112 arrives for District 7

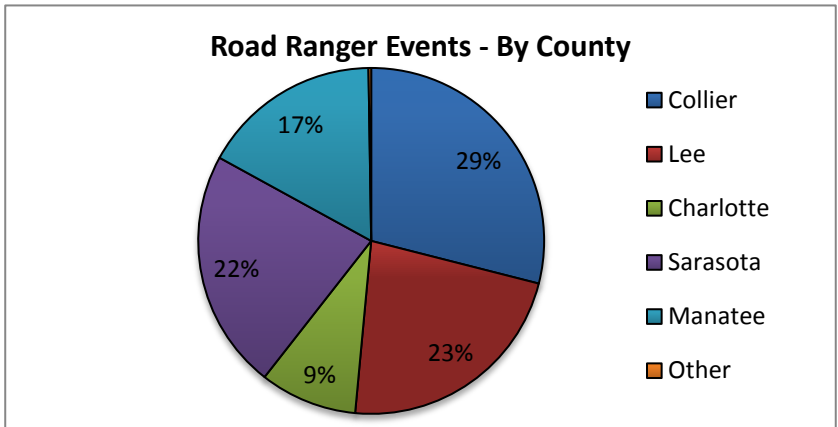
Sunday Road Rangers			
RR103	MM 49-80	RR111	MM 167-193
RR104	MM 80-105	RR113	MM 210-230
RR105	(Spare Truck)	RR112	MM 224-230
RR106	MM 105-123		I-275 MM 0-13
RR109	MM 143-170	*RR113	I-275 MM 0-13

*RR 113 covers I-275 until 11 AM when RR112 arrives for District 7

18. Road Ranger Assists Summary	
Total SunGuide Events	15493
Events with Road Ranger Response	6908
Total RR On-Scene Activities	8955
Average Activities/Assisted Event	1.30
% of Events Assisted	44.59%



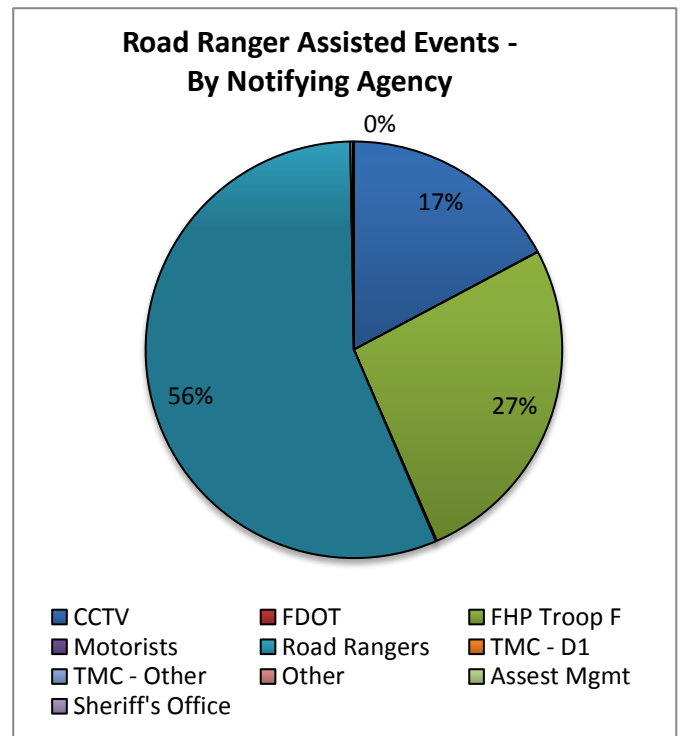
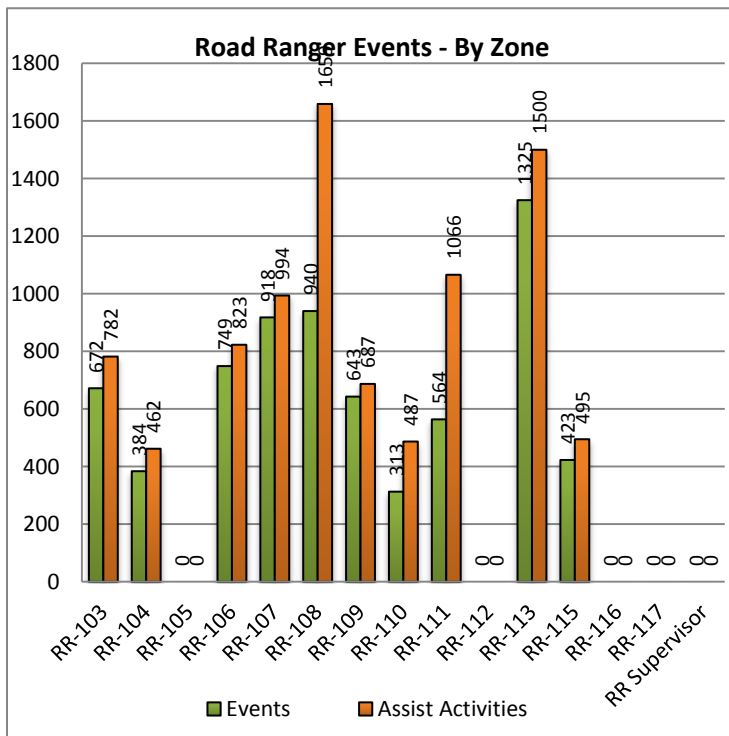
19. Road Ranger Events By County:	
District 1 Counties	Road Ranger Events
Collier	2424
Lee	1884
Charlotte	761
Sarasota	1875
Manatee	1403
Other	21
Totals	8368





20. Road Ranger Events - By Zone:		
Road Ranger Zones	Road Ranger Events	Assist Activities
RR-103	672	782
RR-104	384	462
RR-105	0	0
RR-106	749	823
RR-107	918	994
RR-108	940	1659
RR-109	643	687
RR-110	313	487
RR-111	564	1066
RR-112	0	0
RR-113	1325	1500
RR-115	423	495
RR-116	0	0
RR-117	0	0
RR Supervisor	0	0
Totals	6931	8955

21. Road Ranger Assisted Events - By Notifying Agency:		
Notifying Agency	Number of Events	% of Events
CCTV	1397	16.7%
FDOT	2	0.0%
FHP Troop F	2132	25.5%
Motorists	7	0.1%
Road Rangers	4559	54.5%
TMC - D1	18	0.2%
TMC - Other	0	0.0%
Other	0	0.0%
Assesst Mgmt	5	0.1%
Sheriff's Office	0	0.0%
Waze	248	3.0%
Totals	8368	100.0%

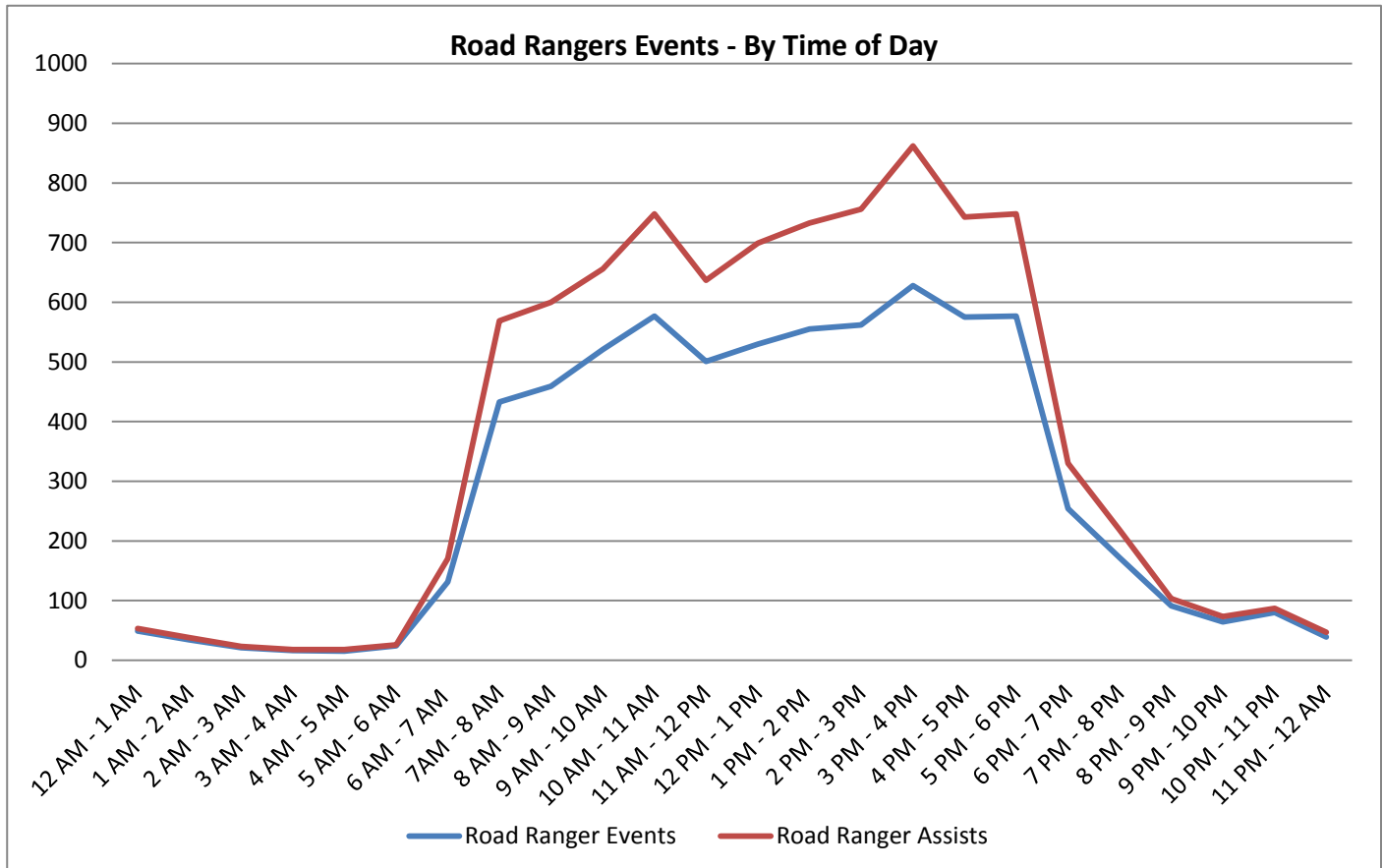




**22. Road Ranger Assisted Events -
By Time of Day:**

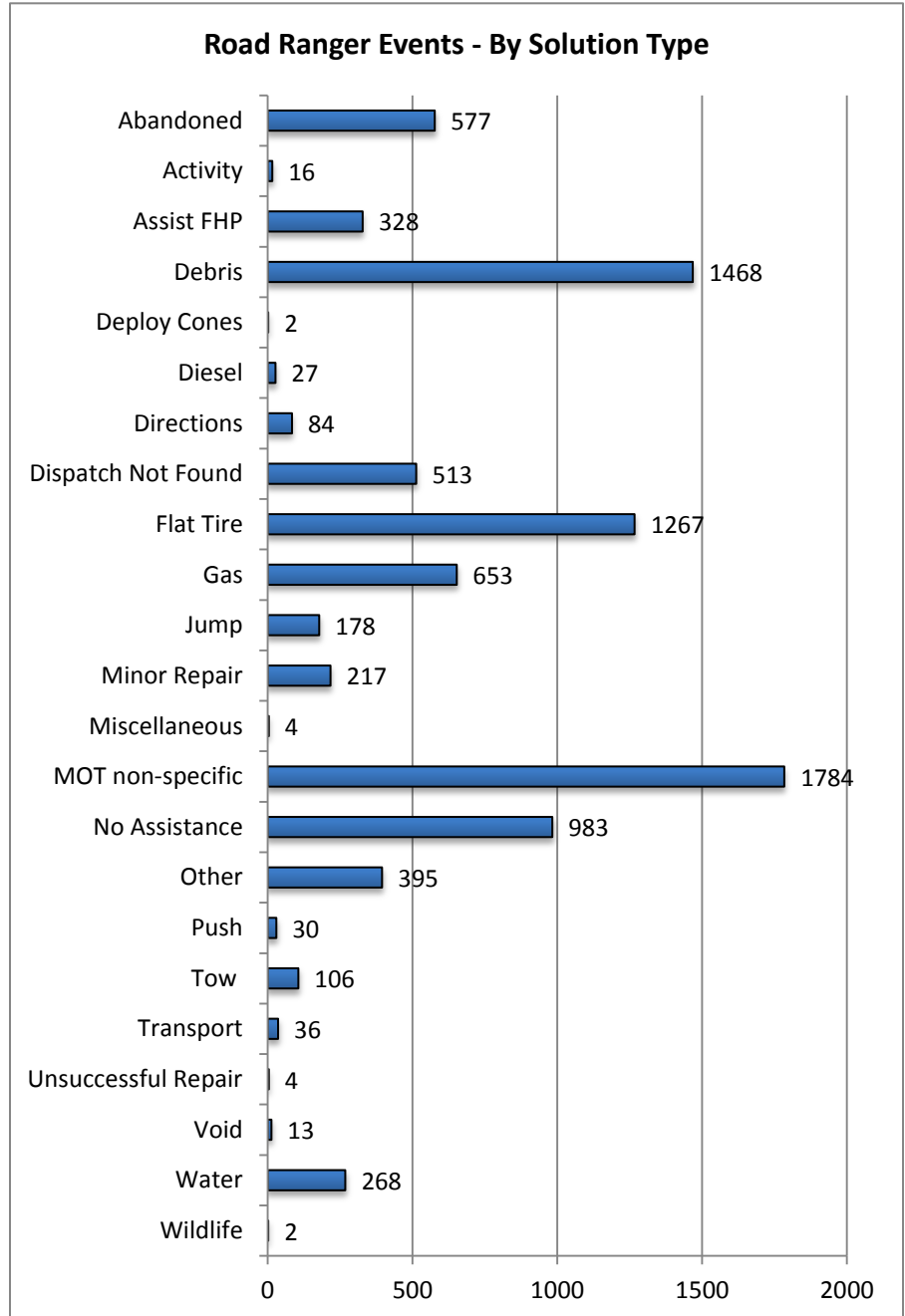
Time of Day	RR Events	RR Assists
12 AM - 1 AM	49	53
1 AM - 2 AM	34	38
2 AM - 3 AM	21	23
3 AM - 4 AM	16	18
4 AM - 5 AM	15	18
5 AM - 6 AM	24	26
6 AM - 7 AM	131	170
7 AM - 8 AM	433	569
8 AM - 9 AM	459	600
9 AM - 10 AM	521	656
10 AM - 11 AM	577	748
11 AM - 12 PM	501	637

Time of Day	RR Events	RR Assists
12 PM - 1 PM	530	699
1 PM - 2 PM	555	733
2 PM - 3 PM	562	756
3 PM - 4 PM	628	862
4 PM - 5 PM	575	743
5 PM - 6 PM	577	748
6 PM - 7 PM	254	330
7 PM - 8 PM	172	218
8 PM - 9 PM	91	103
9 PM - 10 PM	64	73
10 PM - 11 PM	80	87
11 PM - 12 AM	39	47
Totals	6908	8955





23. Road Ranger Events - By Solution Type:	
Problem Type	# of Assists
Abandoned	577
Absorbant	0
Activity	16
Assist FHP	328
Bleach	0
Cold Patch Asphalt	0
Debris	1468
Deploy Cones	2
Diesel	27
Directions	84
Dispatch Not Found	513
Flare	0
Flat Tire	1267
Flood Lamp	0
Gas	653
Jump	178
Livestock	0
Lockout	0
Minor Repair	217
Miscellaneous	4
MOT non-specific	1784
No Assistance	983
Oil	0
Other	395
Phone	0
Portland Cement	0
Push	30
Radio	0
Tow	106
Translate	0
Transmission Fluid	0
Transport	36
Turbo Flare	0
Unsuccessful Repair	4
Void	13
Water	268
Wildlife	2
Total Assist Activities	8955



Note: Problem Type categories listed as zero are not included in the above chart.