

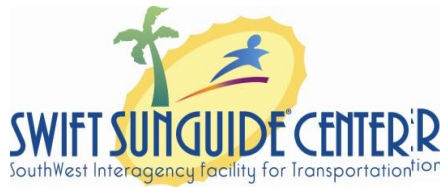
This is the FDOT District 1 SWIFT SunGuide Center Quarterly Operations Report, for Fourth Quarter, 2016.

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

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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:	
	14722

2. Number of Lane Blocking Events:	
	1360

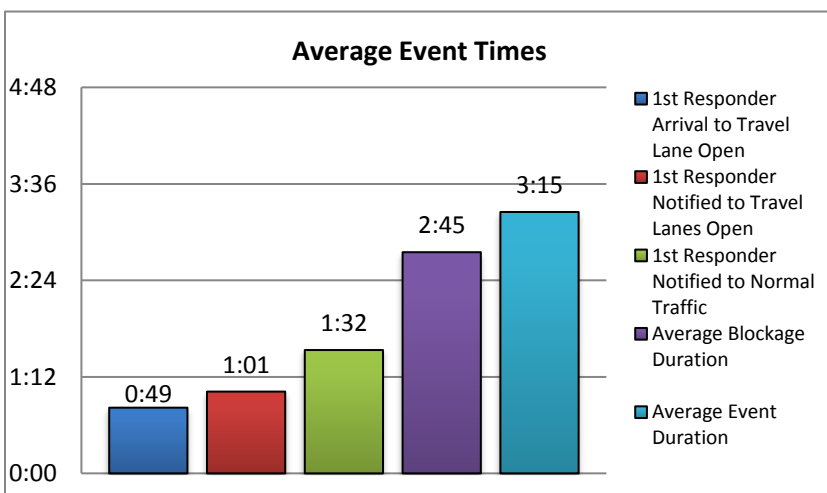
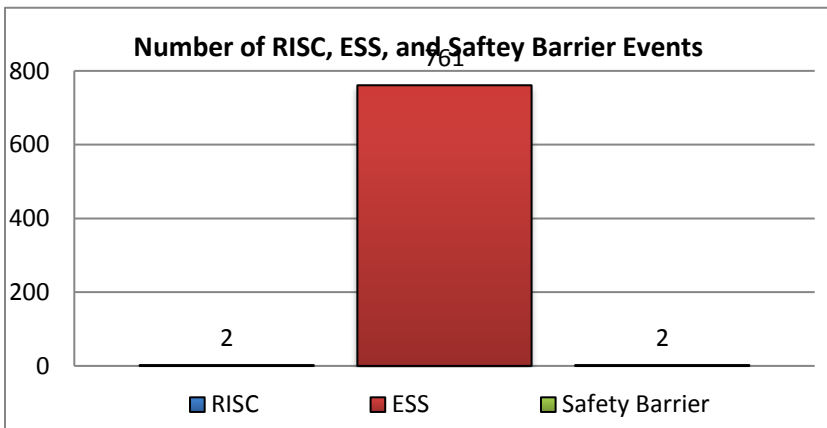
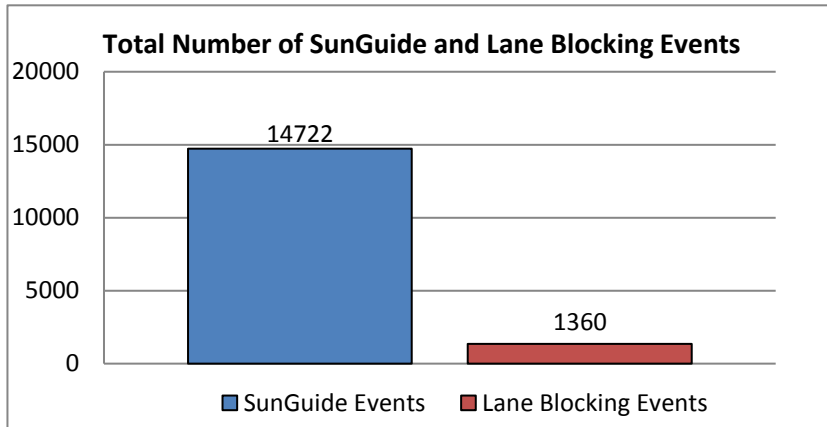
3. Number of RISC Events:	
	2

4. Number of ESS Events:	
	761

5. Events from a Safety Barrier Alert:	
	2

6. Average Open Roads Policy & Normal Traffic Times for I-75 Incidents	
Average Incident Duration From First Responder Arrival to Travel Lane Open	0:49
Average Incident Duration From First Responder Notified to Travel Lane Open	1:01
Average Incident Duration From First Responder Notified to Normal Traffic	1:32

7. Average Blockage/Event Duration - For All Lane Blocking Events	
Number of Events	14722
Number of Lane Blocking Events	1360
Number of Secondary Incidents	270
Average Blockage Duration	2:45
Average Event Duration	3:15



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.



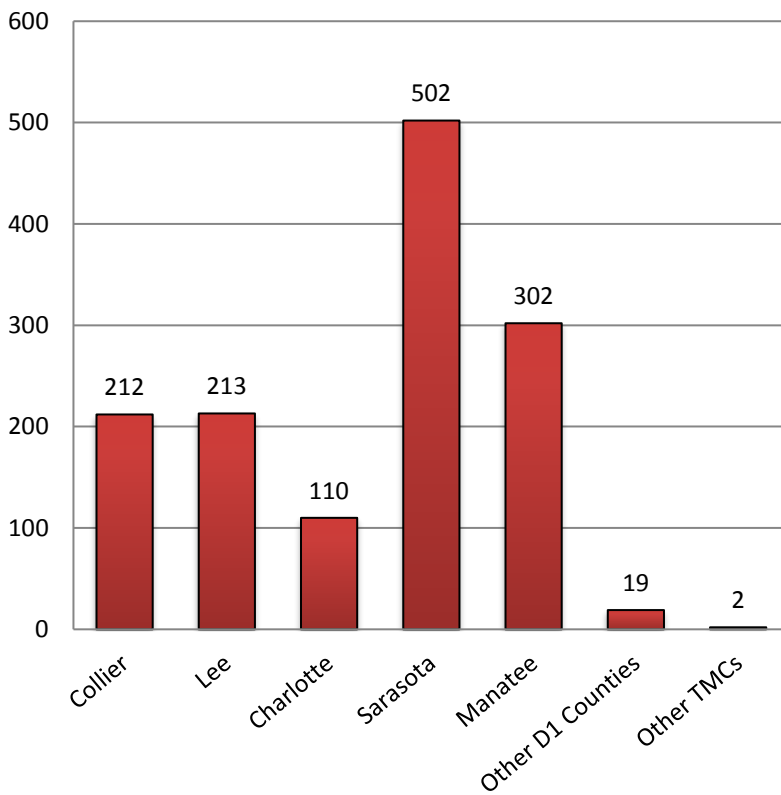
8. Lane Blocking Incidents - By County and Roadway:

Roadways	Collier County	Lee County	Charlotte County	Sarasota County	Manatee County	Other Dist 1 Counties
I-75	184	114	61	322	221	-
US-41	9	47	30	74	59	-
I-275	-	-	-	-	0	-
Arterials	19	52	19	106	22	19
Total Incidents	212	213	110	502	302	19

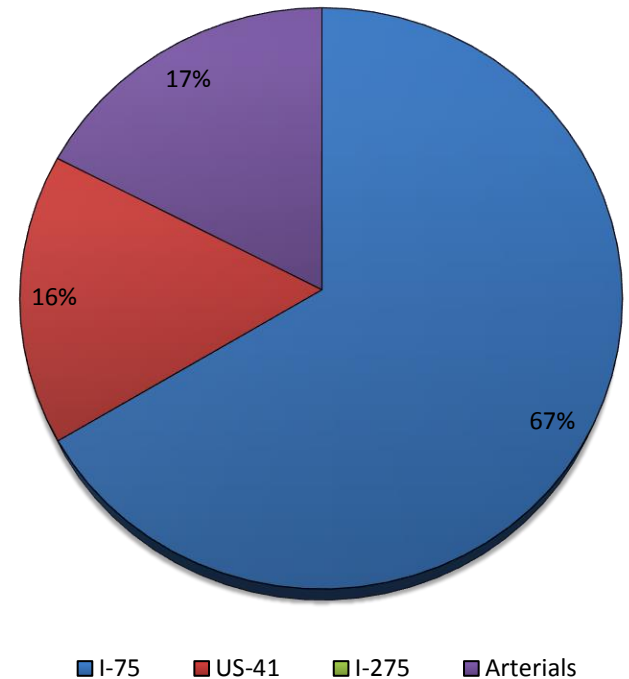
Roadways	District 7* TMC	District 6* TMC	District 4* TMC	FL Turnpike* TMC	Total Incidents By Roadway
I-75	0	0	2	-	904
US-41	0	0	-	-	219
I-275	0	-	-	-	0
Arterials	0	0	0	0	237
Total Incidents	0	0	2	0	1360

*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



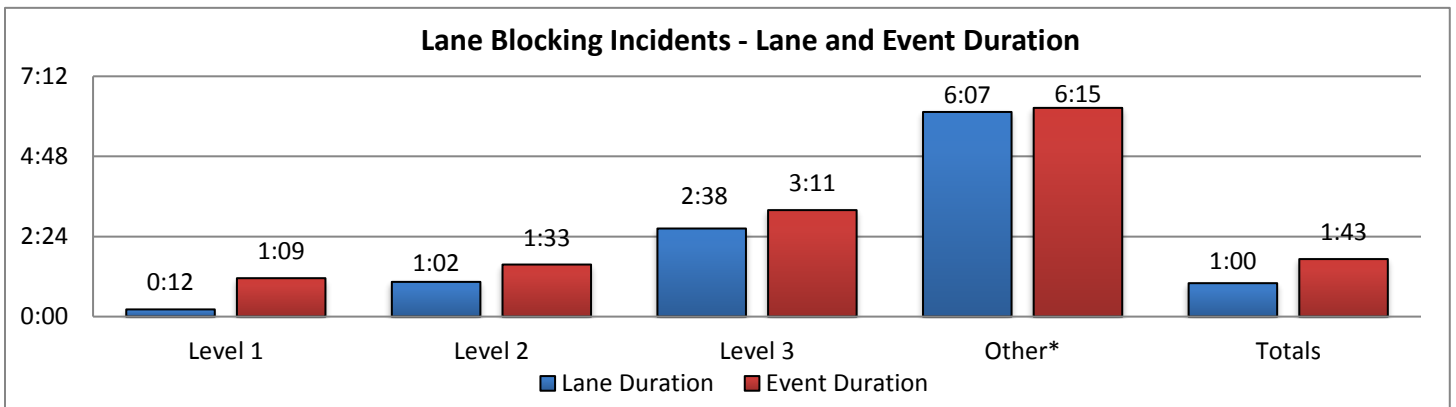
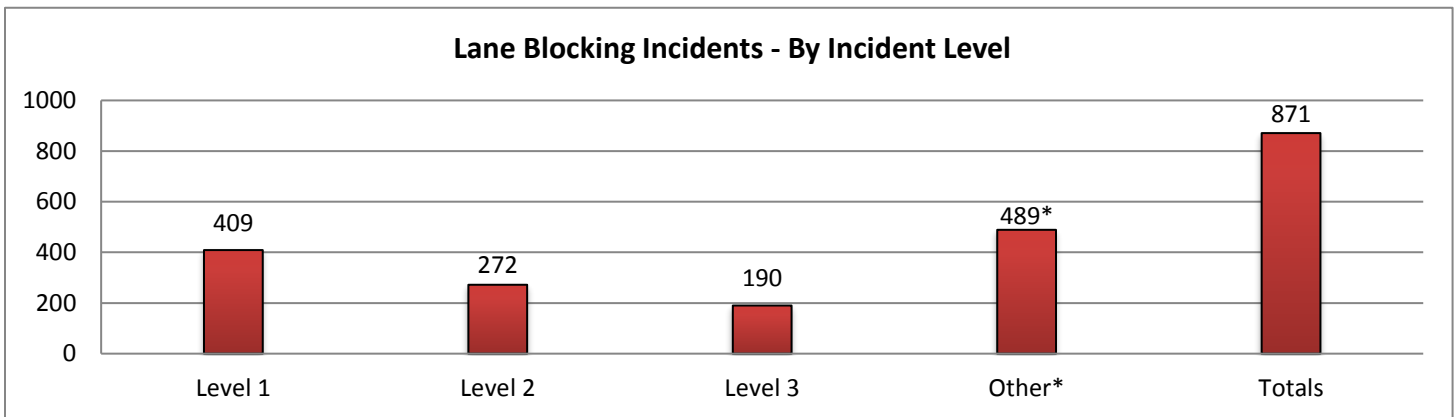


9. LANE BLOCKING INCIDENTS - By Incident Level:

	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	68	0:12	1:32	96	0:14	1:03	30	0:13	0:46	117	0:14	1:12
Level 2	38	1:04	1:51	63	1:04	1:24	26	1:06	1:33	88	1:02	1:29
Level 3	37	1:31	2:14	36	2:02	2:22	20	1:57	2:28	46	2:00	2:30
Other*	69*	7:20	7:29	18*	6:11	6:27	34*	5:20	5:37	251*	6:08	6:14
Totals	143	0:46	1:47	195	0:50	1:24	76	0:58	1:28	251	0:50	1:32

	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	97	0:11	1:03	0	0:00	0:00	1	0:31	0:34	409	0:12	1:09
Level 2	56	0:59	1:41	0	0:00	0:00	1	0:40	0:42	272	1:02	1:33
Level 3	36	2:50	3:26	15	9:17	10:02	0	0:00	0:00	190	2:38	3:11
Other*	113*	5:34	5:39	4*	7:53	7:56	0*	0:00	0:00	489*	6:07	6:15
Totals	189	0:55	1:41	15	9:17	10:02	2	0:35	0:38	871	1:00	1:43

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

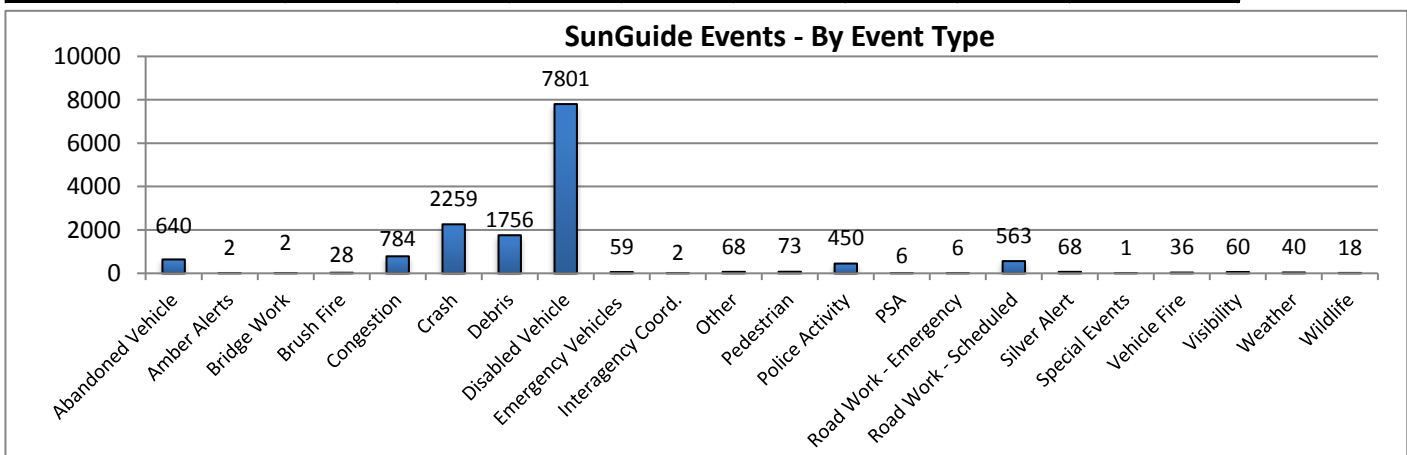




10. SunGuide Events - by Event Type:

Incidents	Collier County	Lee County	Charlotte County	Sarasota County	Manatee County	Other D-1 Counties	Other Dist. TMCs	Total # of Events
Abandoned Vehicle	134	178	64	154	109	0	1	640
Amber Alerts	0	2	0	0	0	0	0	2
Bridge Work	0	0	2	0	0	0	0	2
Brush Fire	2	7	7	9	3	0	0	28
Congestion	77	127	10	193	377	0	0	784
Crash	213	537	108	690	692	16	3	2259
Debris	235	368	238	491	419	1	4	1756
Disabled Vehicle	2614	2250	632	1269	1016	0	20	7801
Emergency Vehicles	3	14	7	24	11	0	0	59
Evacuation	0	0	0	0	0	0	0	0
Flooding	0	0	0	0	0	0	0	0
Interagency Coord.	0	0	0	0	1	0	1	2
LEO Alerts	0	0	0	0	0	0	0	0
Other	9	39	9	6	2	1	2	68
Pedestrian	13	19	7	14	19	0	1	73
Police Activity	166	174	53	34	23	0	0	450
PSA	1	1	1	1	2	0	0	6
Road Work - Emergency	1	0	0	4	1	0	0	6
Road Work - Scheduled	76	23	73	259	125	7	0	563
Silver Alert	0	68	0	0	0	0	0	68
Special Events	0	0	0	0	1	0	0	1
Vehicle Fire	8	8	2	10	7	1	0	36
Visibility	15	11	12	14	8	0	0	60
Weather	13	9	5	6	7	0	0	40
Wildlife	6	2	1	6	3	0	0	18
Total Incidents	3586	3837	1231	3184	2826	26	32	14722

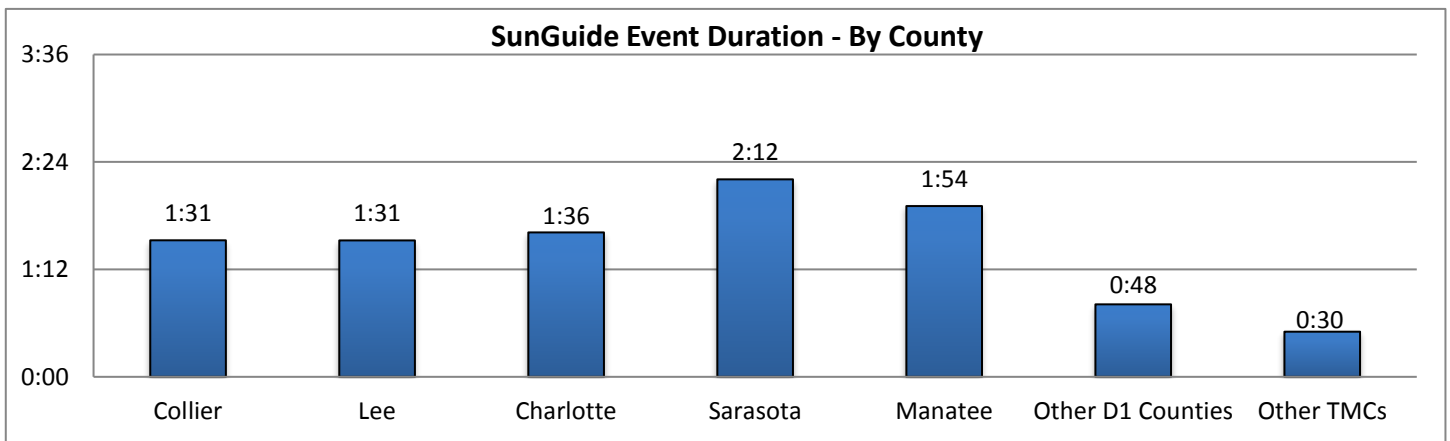
Note: Incident categories that are listed as zero are not included in the chart below.





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	10:29	11:04	9:15	10:16	9:43	0:00	12:18	10:20
Amber Alerts	0:00	6:18	0:00	0:00	0:00	0:00	0:00	6:18
Bridge Work	0:00	0:00	1:12	0:00	0:00	0:00	0:00	1:12
Brush Fire	0:59	0:30	0:15	0:26	0:21	0:00	0:00	0:26
Congestion	0:57	0:47	0:49	1:15	1:22	0:00	0:00	1:11
Crash	1:25	1:10	1:14	1:23	1:32	0:34	0:22	1:22
Debris	0:20	0:21	0:17	0:25	0:17	0:11	0:01	0:20
Disabled Vehicle	1:04	1:03	1:21	1:49	1:34	0:00	0:02	1:16
Emergency Vehicles	1:07	0:53	1:42	0:50	3:21	0:00	0:00	1:25
Evacuation	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
Flooding	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
Interagency Coord.	0:00	0:00	0:00	0:00	2:20	0:00	0:34	1:27
LEO Alerts	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
Other	0:48	0:43	0:08	0:09	1:49	0:02	0:15	0:36
Pedestrian	0:41	0:27	0:20	0:41	0:21	0:00	0:47	0:30
Police Activity	0:27	0:29	0:35	0:28	0:37	0:00	0:00	0:29
PSA	89:28	19:15	17:34	15:45	121:11	0:00	0:00	64:04
Road Work - Emergency	2:50	0:00	0:00	1:21	8:27	0:00	0:00	2:46
Road Work - Scheduled	6:49	5:03	2:41	6:06	5:23	1:19	0:00	5:29
Silver Alert	0:00	4:32	0:00	0:00	0:00	0:00	0:00	4:32
Special Events	0:00	0:00	0:00	0:00	0:54	0:00	0:00	0:54
Vehicle Fire	1:51	0:47	3:29	1:37	1:58	2:24	0:00	1:40
Visibility	3:46	3:58	4:15	3:52	3:51	0:00	0:00	3:56
Weather	2:55	1:43	1:27	1:42	1:19	0:00	0:00	2:00
Wildlife	1:05	0:26	2:27	0:46	0:30	0:00	0:00	0:53
Total Incidents	1:31	1:31	1:36	2:12	1:54	0:48	0:30	1:44





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
8894	1083	8	2:49

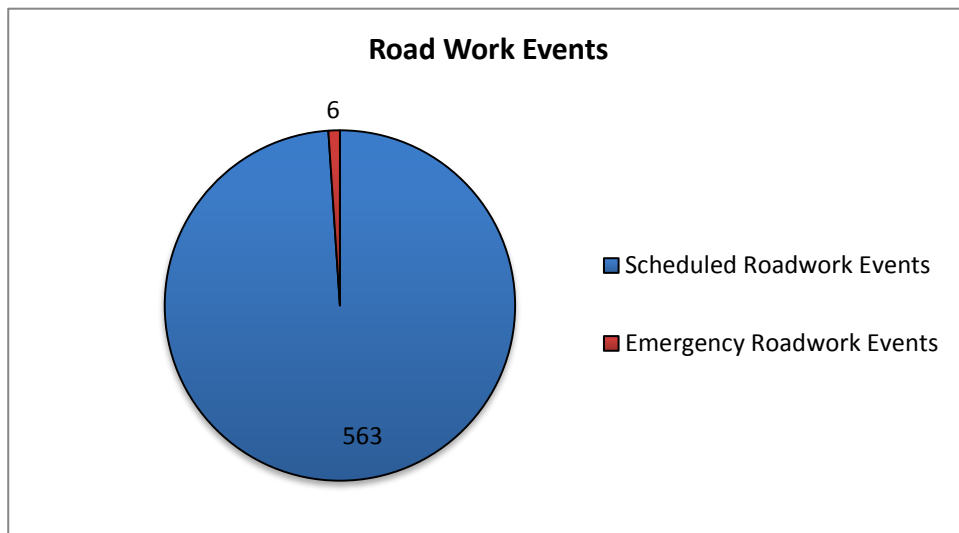
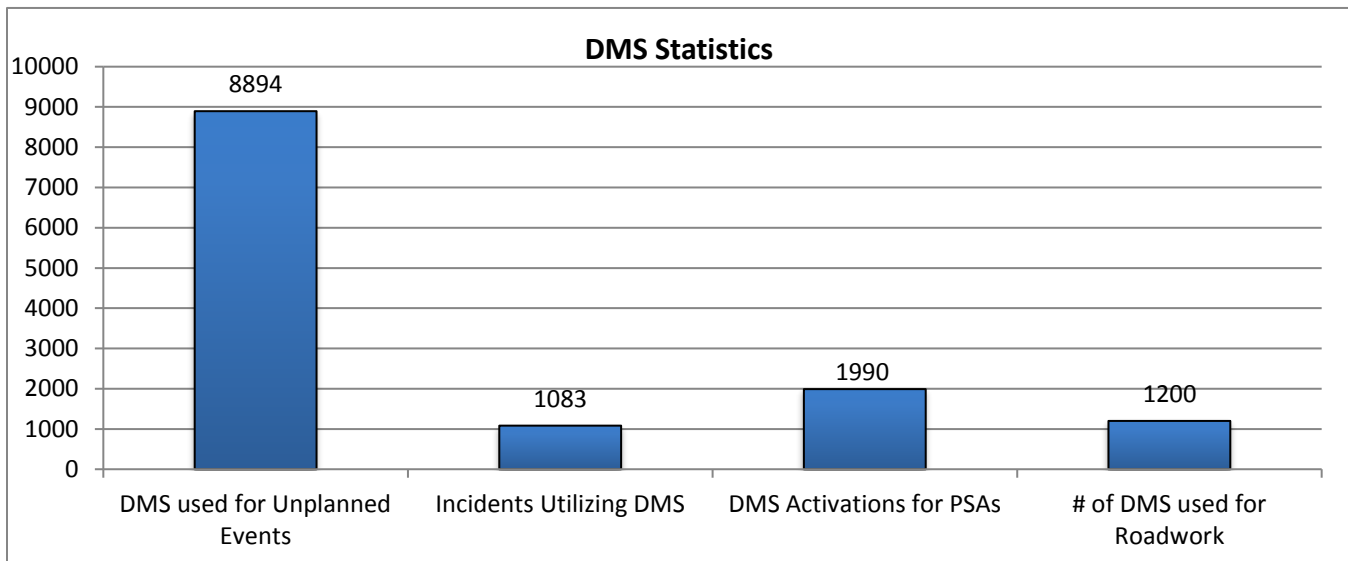
13. PSA - DMS Activations:

Number of Public Service Announcement DMS Activations
1990

14. Road Work - DMS Statistics:

Scheduled Road Work	Emergency Road Work	Total # Road Work Patterns
563	6	569
# DMS Used for Road Work		Average # of DMS/Pattern
1200		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	8	Mile <49	0
Mile 49-79.9	582	Mile 49-79.9	711
Mile 80-100.9	658	Mile 80-100.9	551
Mile 101-104.9	87	Mile 101-104.9	69
Mile 105-106.9	95	Mile 105-106.9	88
Mile 107-110.9	185	Mile 107-110.9	193
Mile 111-115.9	186	Mile 111-115.9	149
Mile 116-122.9	329	Mile 116-122.9	345
Mile 123-127.9	366	Mile 123-127.9	251
Mile 128-130.9	193	Mile 128-130.9	152
Mile 131-135.9	297	Mile 131-135.9	281
Mile 136 -137.9	109	Mile 136 -137.9	76
Mile 138 -138.9	111	Mile 138 -138.9	53
Mile 139 - 140.9	199	Mile 139 - 140.9	61
Mile 141 - 142.9	104	Mile 141 - 142.9	77
Mile 143 - 157.9	479	Mile 143 - 157.9	403
Mile 158 - 160.9	74	Mile 158 - 160.9	62
Mile 161 - 163.9	88	Mile 161 - 163.9	95
Mile 164 - 166.9	63	Mile 164 - 166.9	84
Mile 167 -169.9	65	Mile 167 -169.9	62
Mile 170 - 178.9	133	Mile 170 - 178.9	161
Mile 179 - 181.9	65	Mile 179 - 181.9	60
Mile 182 - 190.9	223	Mile 182 - 190.9	263
Mile 191 - 192.9	94	Mile 191 - 192.9	96
Mile 193 - 194.9	67	Mile 193 - 194.9	74
Mile 195 -199.9	169	Mile 195 -199.9	132
Mile 200 - 204.9	209	Mile 200 - 204.9	207
Mile 205 - 206.9	124	Mile 205 - 206.9	101
Mile 207 - 209.9	139	Mile 207 - 209.9	110
Mile 210 -212.9	208	Mile 210 -212.9	158
Mile 213 - 216.9	384	Mile 213 - 216.9	324
Mile 217 - 219.9	229	Mile 217 - 219.9	224
Mile 220 - 223.9	242	Mile 220 - 223.9	224
Mile 224 -227.9	213	Mile 224 -227.9	172
Mile 228 - 228.9	67	Mile 228 - 228.9	45
Mile 229 -229.9	5	Mile 229 -229.9	5
Mile 230 - 239.9	6	Mile 230 - 239.9	1
> Mile 240	0	> Mile 240	0
North Total	6855	South Total	6120

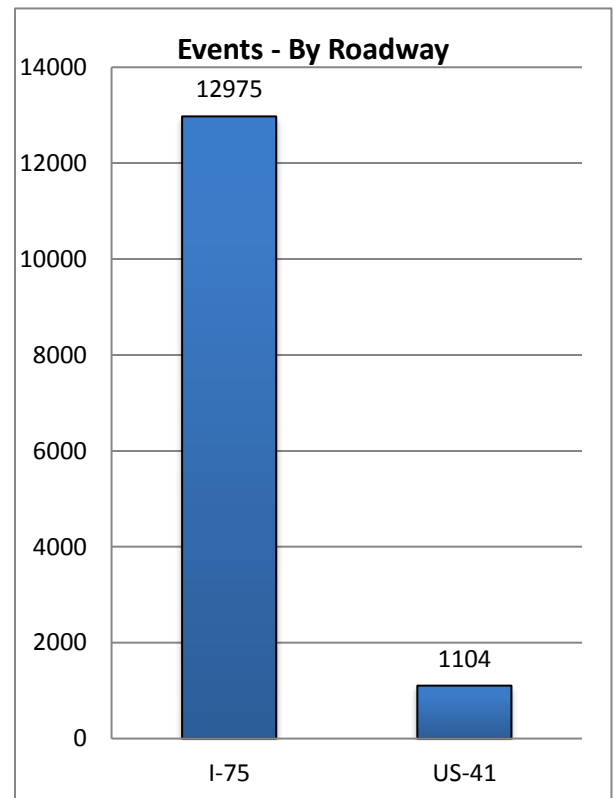
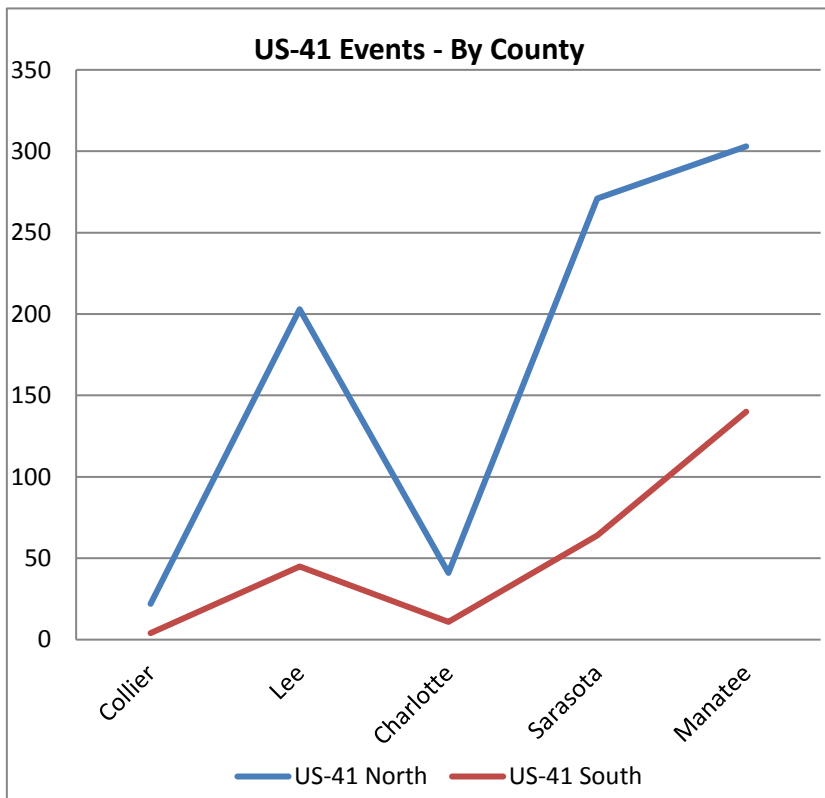
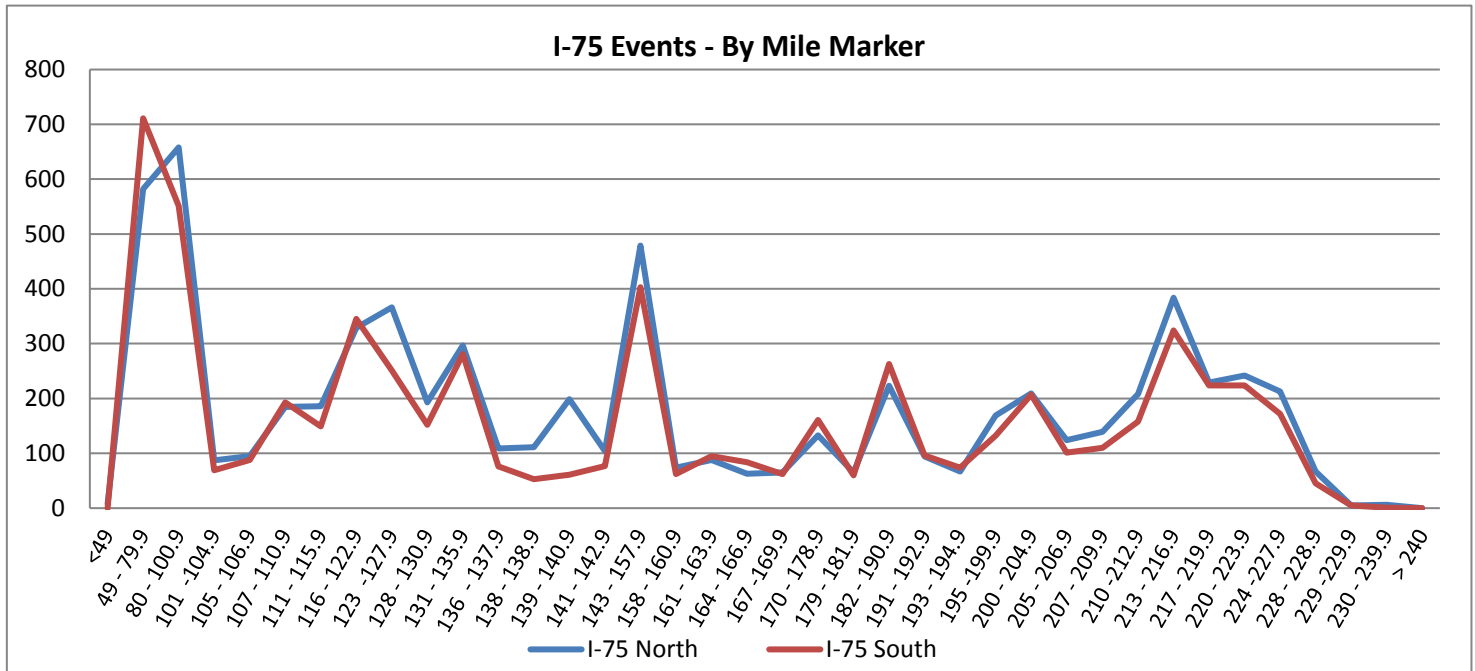
US-41 Northbound	
Collier	22
Lee	203
Charlotte	41
Sarasota	271
Manatee	303
North Total	840

US-41 Southbound	
Collier	4
Lee	45
Charlotte	11
Sarasota	64
Manatee	140
South Total	264

Total Events on US-41
1104

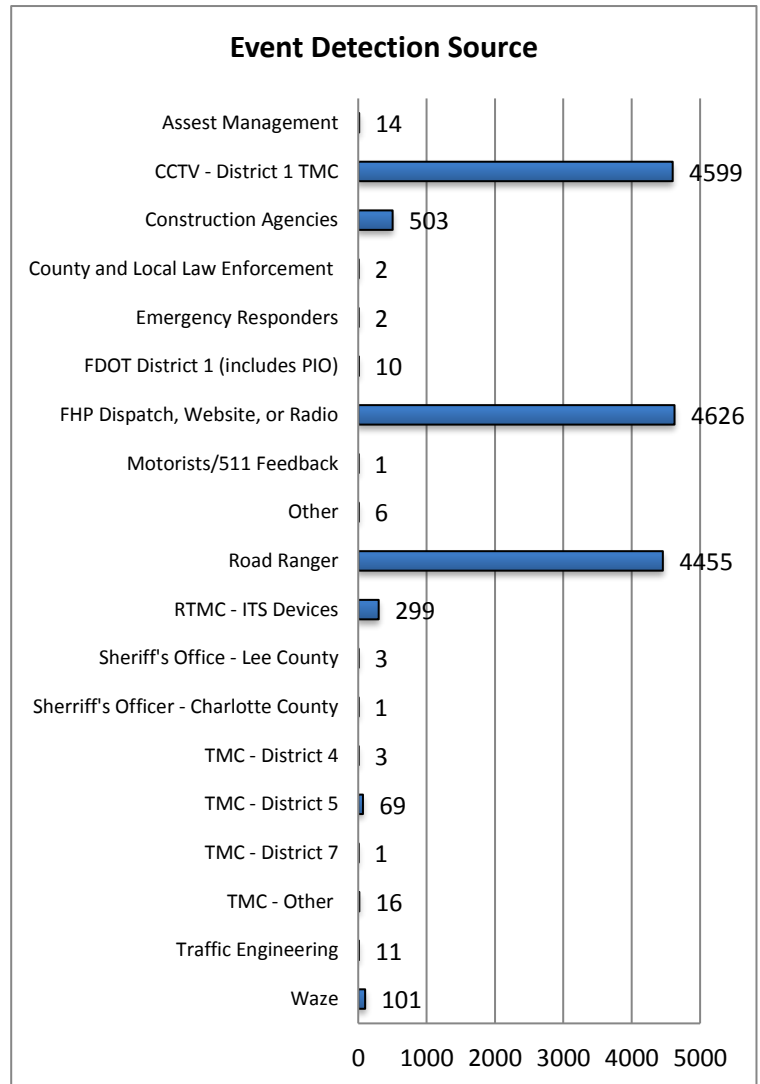
Total Events on I-75
12975

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





16. Event Detection Source:		
Assest Management (includes Dbi & ICA)	14	0.1%
CCTV - District 1 TMC	4599	31.2%
CCTV - Other	0	0.0%
Construction Agencies	503	3.4%
County and Local Law Enforcement	2	0.0%
Emergency Operations Centers	0	0.0%
Emergency Responders	2	0.0%
FDOT District 1 ITS Managers	0	0.0%
FDOT District 1 (includes PIO)	10	0.1%
FDOT Maintenance	0	0.0%
FHP Dispatch, Website, or Radio	4626	31.4%
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	1	0.0%
Other	6	0.0%
Other Airport	0	0.0%
Other Field Personnel	0	0.0%
Road Ranger	4455	30.3%
RTMC - ITS Devices (TSS & Safety Barrier)	299	2.0%
RTMC Scanner	0	0.0%
RTMC Staff (On Scene)	0	0.0%
Sherriff's Officer - Charlotte County	1	0.0%
Sheriff's Office - Collier County	0	0.0%
Sheriff's Office - Lee County	3	0.0%
Sheriff's Office - Manatee County	0	0.0%
Sheriff's Office - Sarasota County	0	0.0%
SW Florida Internantion Airport	0	0.0%
TMC - District 4	3	0.0%
TMC - District 5	69	0.5%
TMC - District 7	1	0.0%
TMC - Other	16	0.1%
Tow Truck Companies	0	0.0%
Traffic Engineering	11	0.1%
Waze	101	0.7%
Total Number of Incidents	14722	100.0%

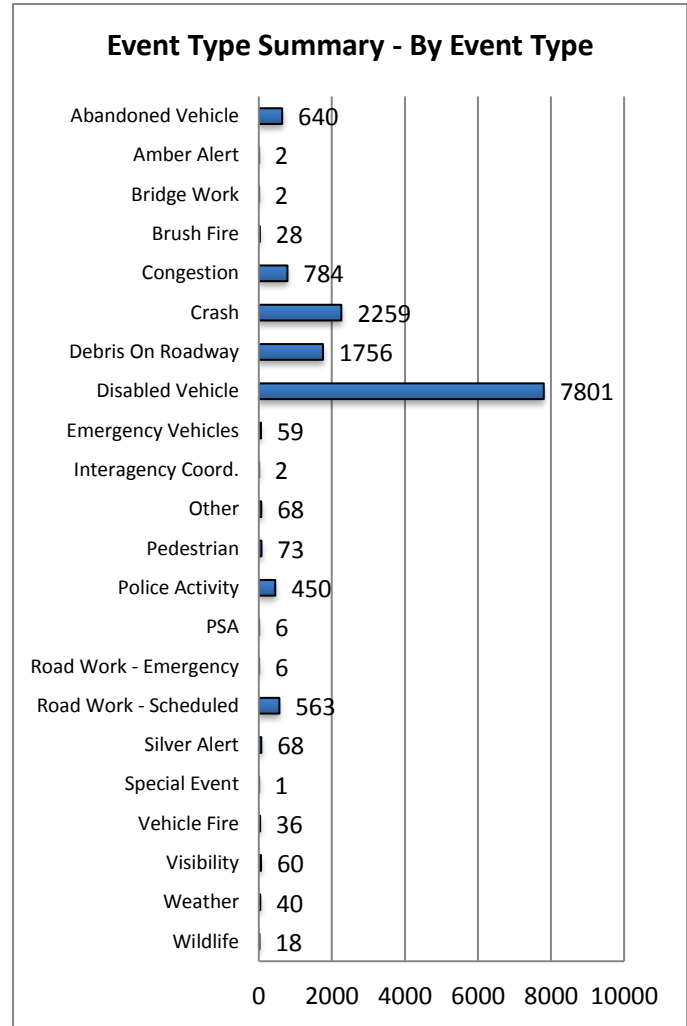


Note: Event Detection Source Categories listed as zero are not included in the above chart.



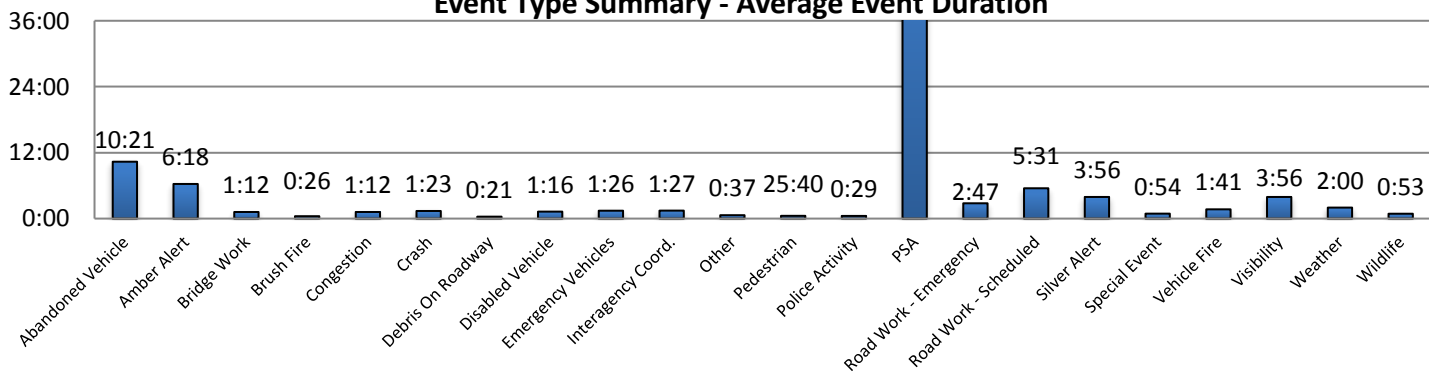
17. Event Type Summary

Event Types	# of Events	Average On Scene Time	Average Event Duration
Abandoned Vehicle	640	3:06	10:21
Amber Alert	2	0:00	6:18
Bridge Work	2	0:00	1:12
Brush Fire	28	0:20	0:26
Congestion	784	0:00	1:12
Crash	2259	0:56	1:23
Debris On Roadway	1756	0:12	0:21
Disabled Vehicle	7801	0:22	1:16
Emergency Vehicles	59	0:46	1:26
Evacuation	0	0:00	0:00
Flooding	0	0:00	0:00
Interagency Coord.	2	0:00	1:27
LEO Alert	0	0:00	0:00
Other	68	0:05	0:37
Pedestrian	73	0:08	0:30
Police Activity	450	0:22	0:29
PSA	6	0:00	64:04
Road Work - Emergency	6	2:26	2:47
Road Work - Scheduled	563	0:08	5:31
Silver Alert	68	0:02	3:56
Special Event	1	0:54	0:54
Vehicle Fire	36	1:04	1:41
Visibility	60	0:02	3:56
Weather	40	0:00	2:00
Wildlife	18	0:43	0:53
Total Events	14722	0:43	5:07



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

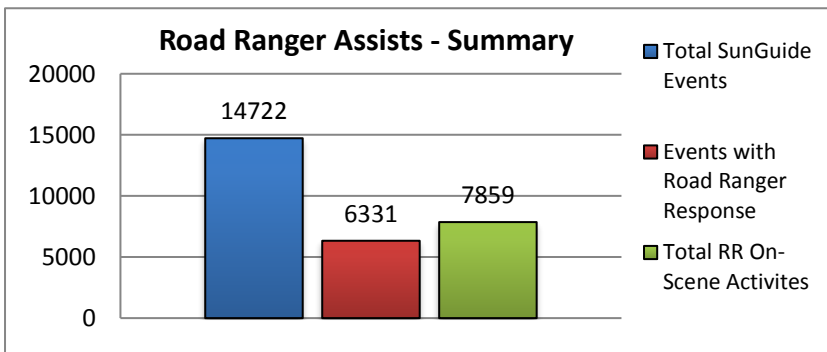
Saturday Road Rangers			
RR104	MM 49-80	RR111	MM 167-193
RR103	MM 80-105	RR113	MM 210-230
RR105	(Spare Truck)	RR112	MM 224-230
RR106	MM 105-123		I-275 MM 0-13
RR109	MM 143-170	*RR113	I-275 MM 0-13

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

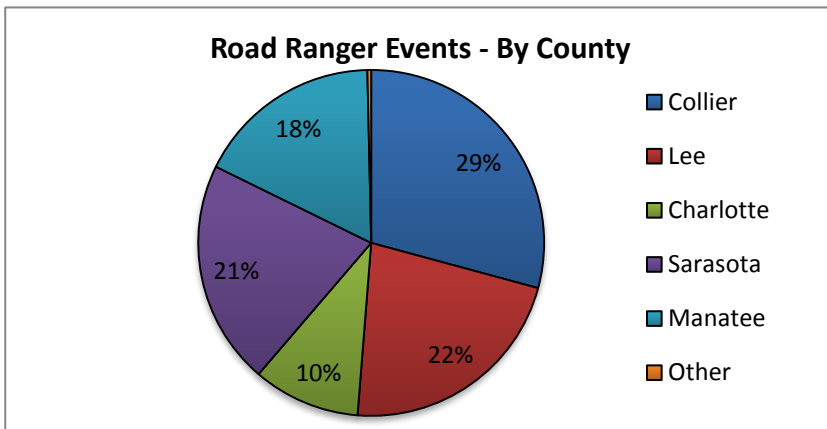
Sunday Road Rangers			
RR103	MM 49-80	RR111	MM 167-193
RR104	MM 80-105	RR113	MM 210-230
RR105	(Spare Truck)	RR112	MM 224-230
RR106	MM 105-123		I-275 MM 0-13
RR109	MM 143-170	*RR113	I-275 MM 0-13

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

18. Road Ranger Assists Summary	
Total SunGuide Events	14722
Events with Road Ranger Response	6331
Total RR On-Scene Activities	7859
Average Activities/Assisted Event	1.24
% of Events Assisted	43.00%



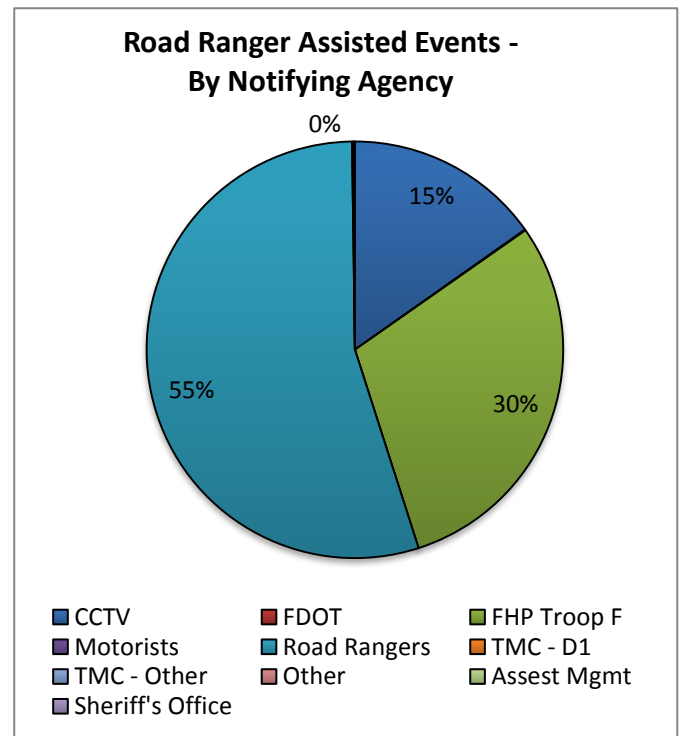
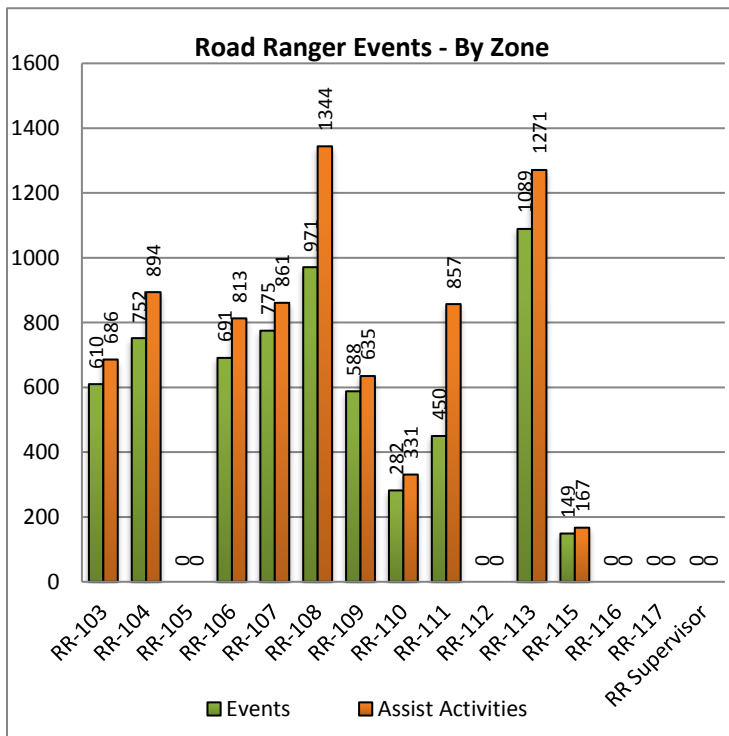
19. Road Ranger Events By County:	
District 1 Counties	Road Ranger Events
Collier	2386
Lee	1801
Charlotte	819
Sarasota	1713
Manatee	1420
Other	29
Totals	8168





20. Road Ranger Events - By Zone:		
Road Ranger Zones	Road Ranger Events	Assist Activities
RR-103	610	686
RR-104	752	894
RR-105	0	0
RR-106	691	813
RR-107	775	861
RR-108	971	1344
RR-109	588	635
RR-110	282	331
RR-111	450	857
RR-112	0	0
RR-113	1089	1271
RR-115	149	167
RR-116	0	0
RR-117	0	0
RR Supervisor	0	0
Totals	6357	7859

21. Road Ranger Assisted Events - By Notifying Agency:		
Notifying Agency	Number of Events	% of Events
CCTV	1236	15.1%
FDOT	5	0.1%
FHP Troop F	2420	29.6%
Motorists	0	0.0%
Road Rangers	4446	54.4%
TMC - D1	13	0.2%
TMC - Other	1	0.0%
Other	0	0.0%
Assesst Mgmt	4	0.0%
Sheriff's Office	0	0.0%
Waze	43	0.5%
Totals	8168	100.0%

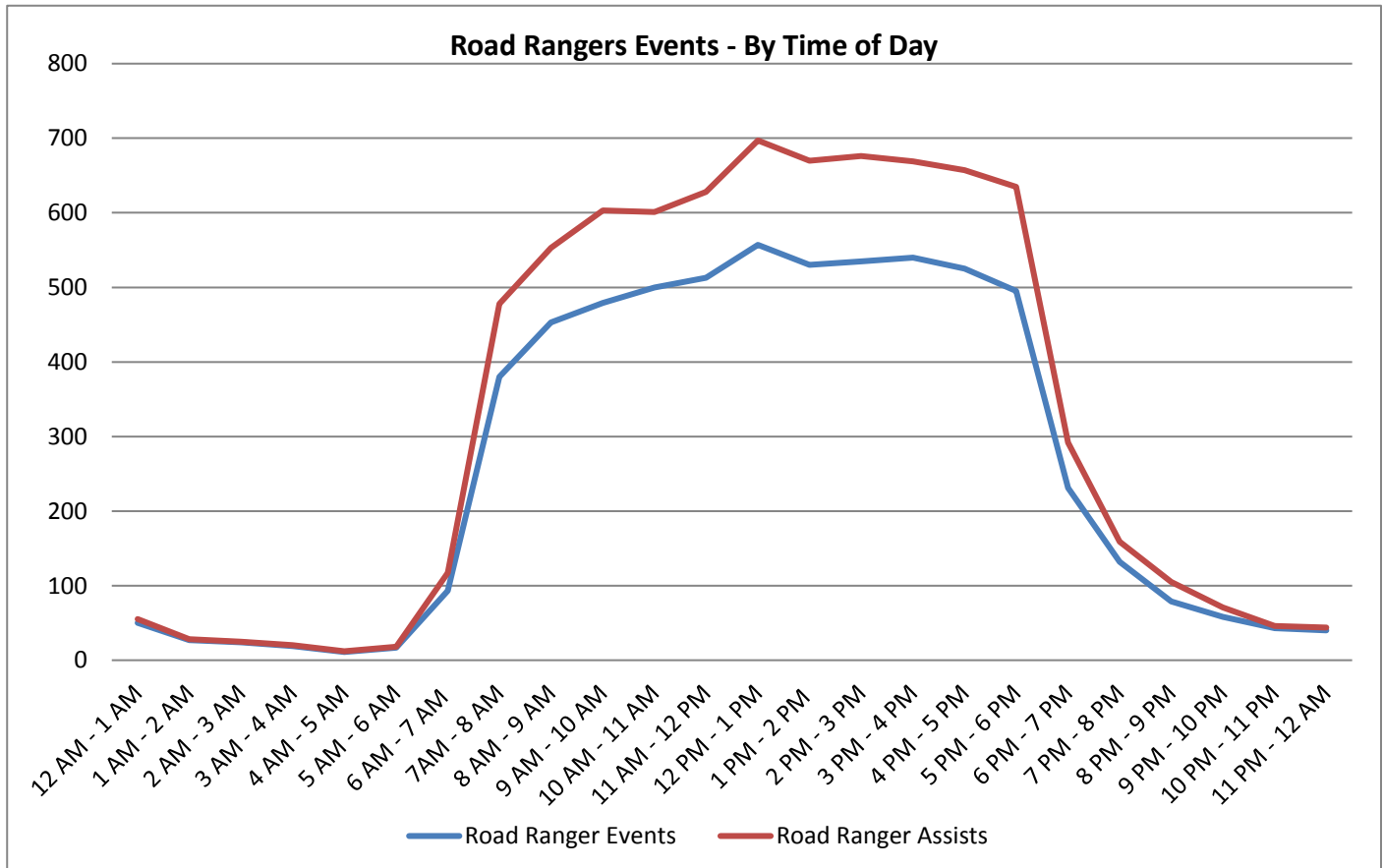




**22. Road Ranger Assisted Events -
By Time of Day:**

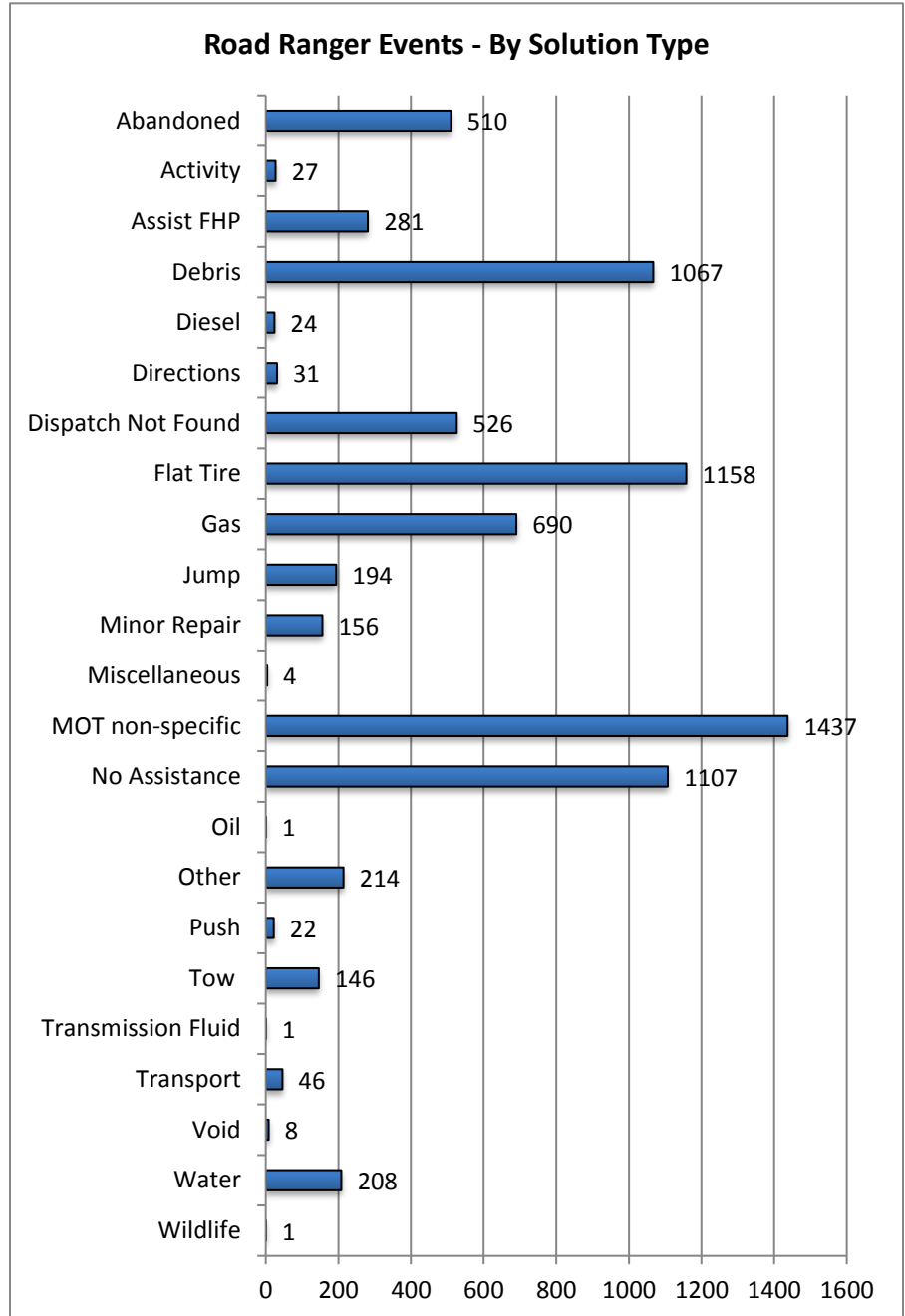
Time of Day	RR Events	RR Assists
12 AM - 1 AM	50	55
1 AM - 2 AM	27	28
2 AM - 3 AM	24	25
3 AM - 4 AM	19	20
4 AM - 5 AM	11	12
5 AM - 6 AM	17	18
6 AM - 7 AM	93	117
7 AM - 8 AM	380	478
8 AM - 9 AM	453	553
9 AM - 10 AM	479	603
10 AM - 11 AM	500	601
11 AM - 12 PM	513	628

Time of Day	RR Events	RR Assists
12 PM - 1 PM	557	697
1 PM - 2 PM	530	670
2 PM - 3 PM	535	676
3 PM - 4 PM	540	669
4 PM - 5 PM	525	657
5 PM - 6 PM	495	635
6 PM - 7 PM	231	292
7 PM - 8 PM	132	159
8 PM - 9 PM	79	105
9 PM - 10 PM	58	71
10 PM - 11 PM	43	46
11 PM - 12 AM	40	44
Totals	6331	7859





23. Road Ranger Events - By Solution Type:	
Problem Type	# of Assists
Abandoned	510
Absorbant	0
Activity	27
Assist FHP	281
Bleach	0
Cold Patch Asphalt	0
Debris	1067
Deploy Cones	0
Diesel	24
Directions	31
Dispatch Not Found	526
Flare	0
Flat Tire	1158
Flood Lamp	0
Gas	690
Jump	194
Livestock	0
Lockout	0
Minor Repair	156
Miscellaneous	4
MOT non-specific	1437
No Assistance	1107
Oil	1
Other	214
Phone	0
Portland Cement	0
Push	22
Radio	0
Tow	146
Translate	0
Transmission Fluid	1
Transport	46
Turbo Flare	0
Unsuccessful Repair	0
Void	8
Water	208
Wildlife	1
Total Assist Activities	7859



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