

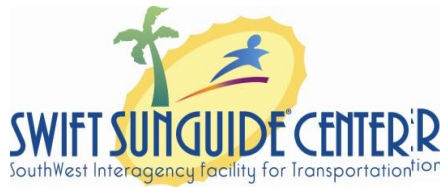
This is the FDOT District 1 SWIFT SunGuide Center Quarterly Operations Report, for 2016.

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:	
	60257

2. Number of Lane Blocking Events:	
	5692

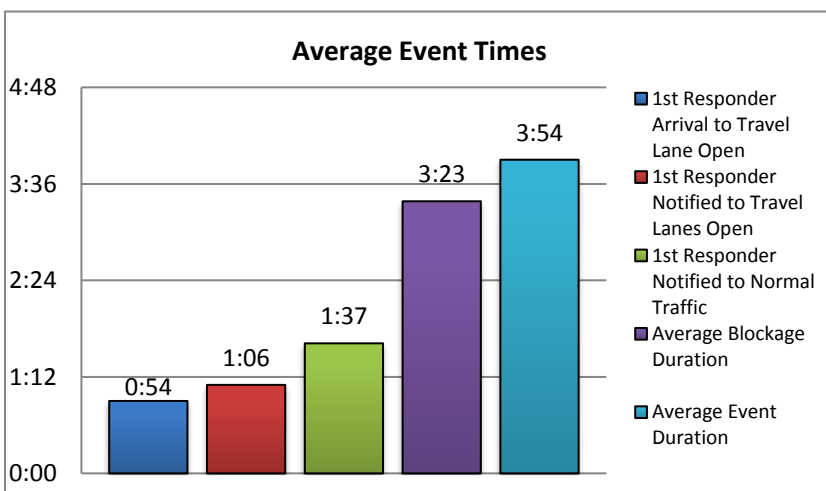
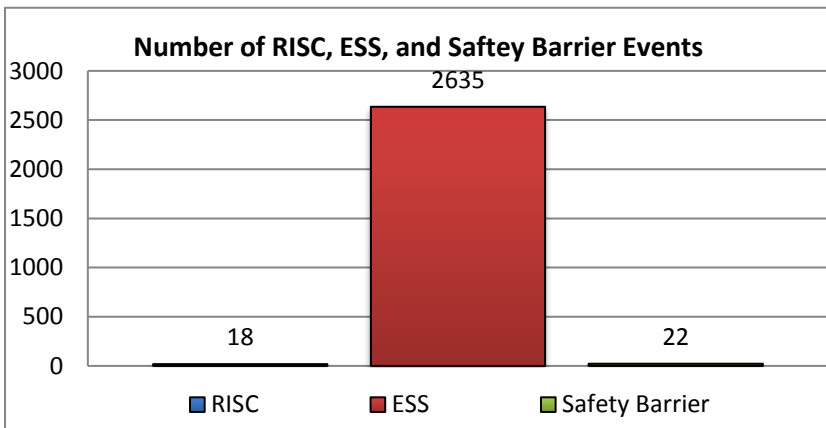
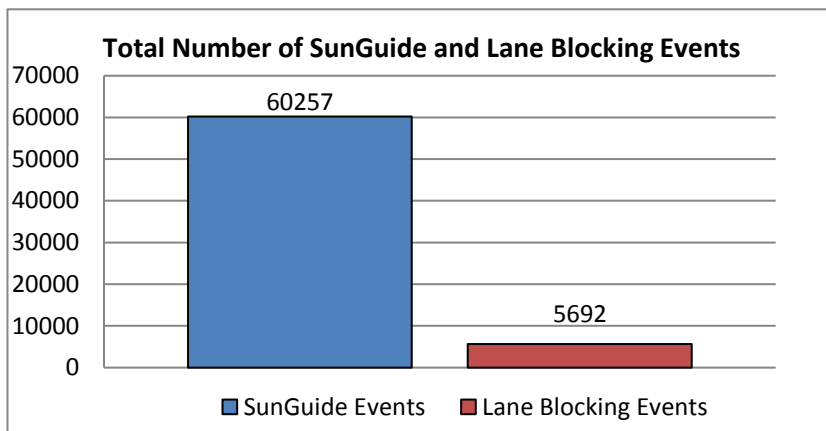
3. Number of RISC Events:	
	18

4. Number of ESS Events:	
	2635

5. Events from a Safety Barrier Alert:	
	22

6. Average Open Roads Policy & Normal Traffic Times for I-75 Incidents	
Average Incident Duration From First Responder Arrival to Travel Lane Open	0:54
Average Incident Duration From First Responder Notified to Travel Lane Open	1:06
Average Incident Duration From First Responder Notified to Normal Traffic	1:37

7. Average Blockage/Event Duration - For All Lane Blocking Events	
Number of Events	60257
Number of Lane Blocking Events	5692
Number of Secondary Incidents	1043
Average Blockage Duration	3:23
Average Event Duration	3:54



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.



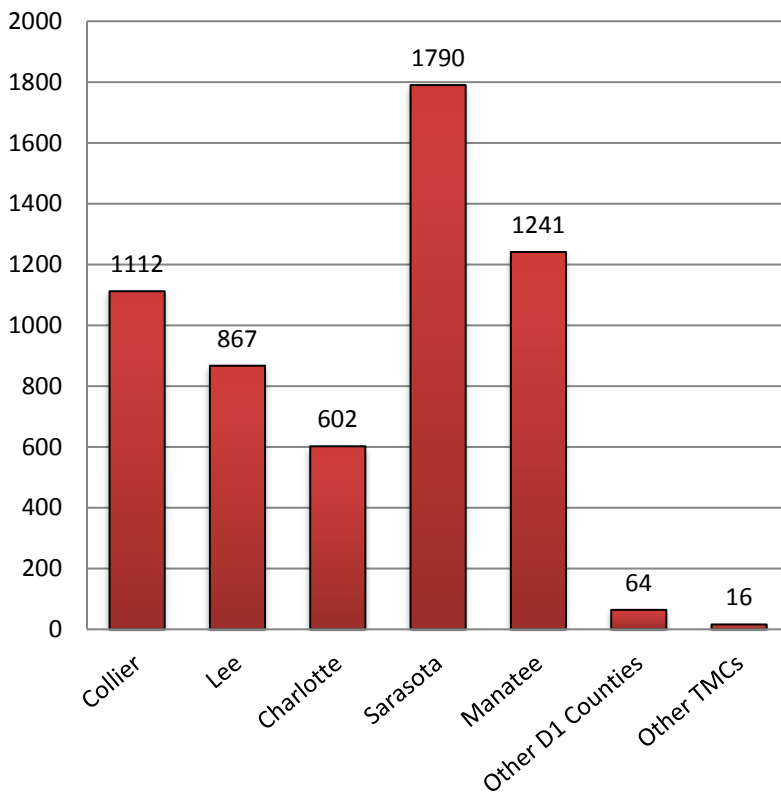
8. Lane Blocking Incidents - By County and Roadway:

Roadways	Collier County	Lee County	Charlotte County	Sarasota County	Manatee County	Other Dist 1 Counties
I-75	963	488	375	1147	906	-
US-41	56	200	185	243	257	-
I-275	-	-	-	-	4	-
Arterials	93	179	42	400	74	64
Total Incidents	1112	867	602	1790	1241	64

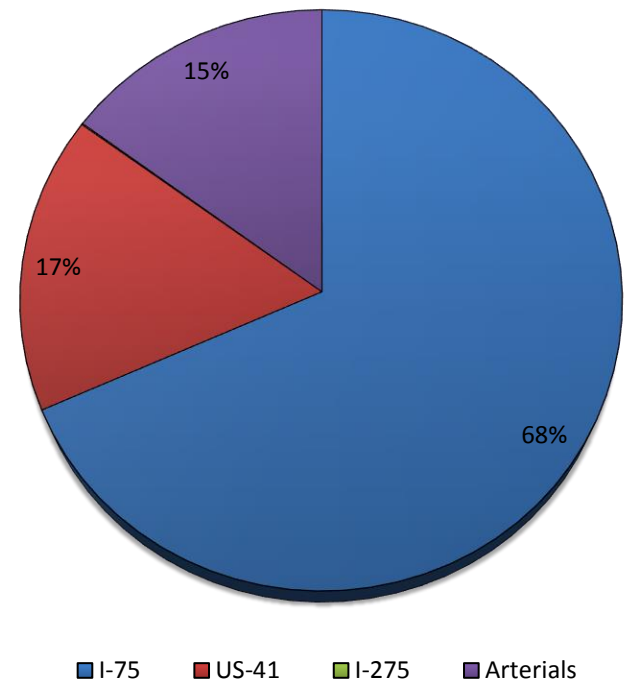
Roadways	District 7* TMC	District 6* TMC	District 4* TMC	FL Turnpike* TMC	Total Incidents By Roadway
I-75	0	0	16	-	3895
US-41	0	0	-	-	941
I-275	0	-	-	-	4
Arterials	0	0	0	0	852
Total Incidents	0	0	16	0	5692

*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



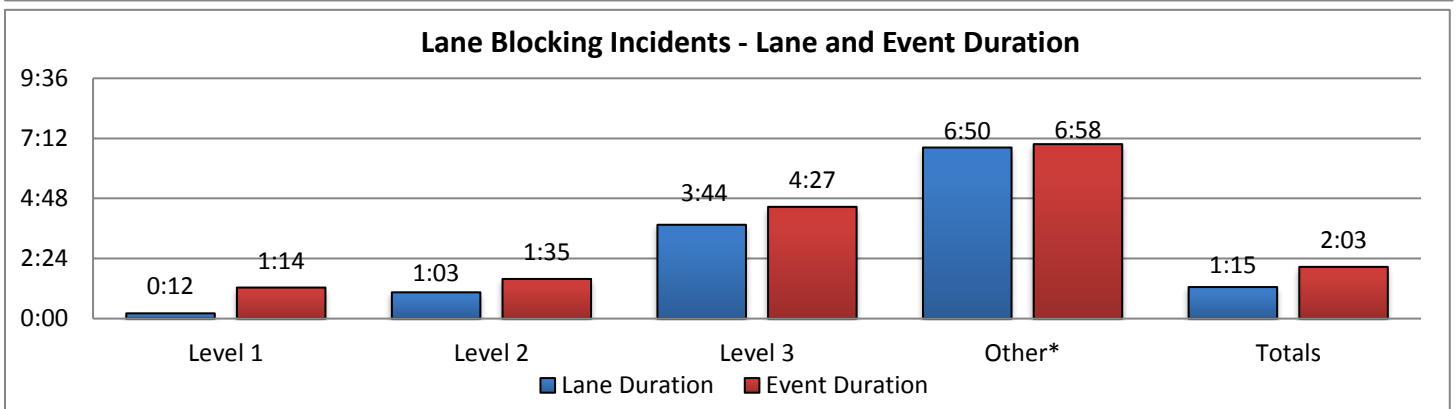
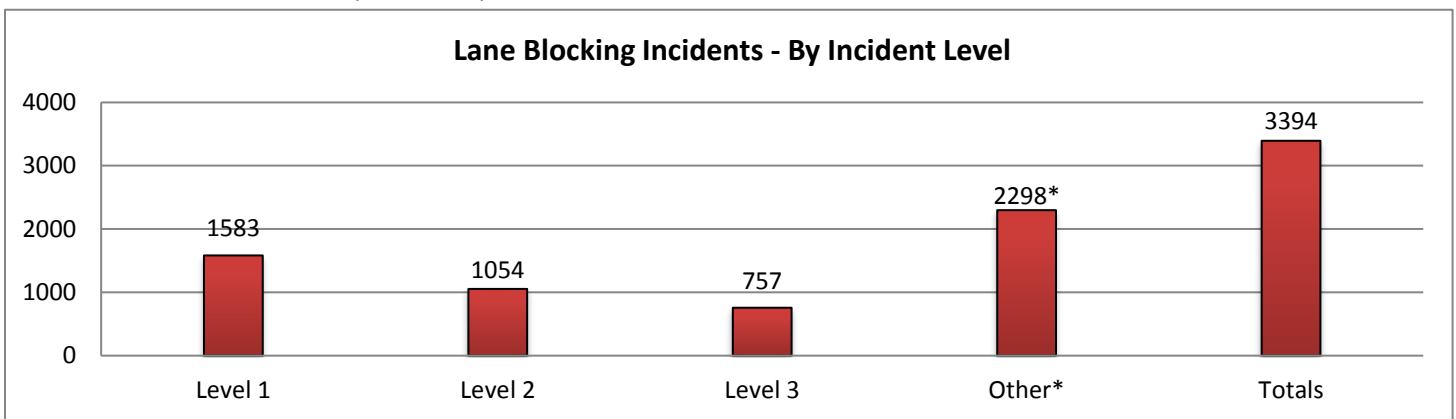


9. LANE BLOCKING INCIDENTS - By Incident Level:

	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	225	0:12	1:19	366	0:15	1:10	141	0:11	0:56	471	0:12	1:26
Level 2	112	1:02	1:35	245	1:03	1:28	114	1:05	1:29	348	1:03	1:37
Level 3	131	1:43	2:44	135	2:36	3:00	71	2:00	2:36	173	4:41	5:30
Other*	644*	7:46	7:55	121*	12:21	12:39	276*	6:46	6:56	798*	5:58	6:05
Totals	468	0:49	1:46	746	0:56	1:35	326	0:53	1:29	992	1:16	2:12

	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	376	0:12	1:09	0	0:00	0:00	4	0:18	0:21	1583	0:12	1:14
Level 2	232	1:03	1:43	1	0:00	0:00	2	1:00	1:03	1054	1:03	1:35
Level 3	186	2:24	3:03	51	16:31	17:29	10	2:06	2:10	757	3:44	4:27
Other*	447*	5:34	5:39	12*	7:53	7:56	0*	0:00	0:00	2298*	6:50	6:58
Totals	794	0:57	1:45	52	16:11	17:08	16	1:30	1:34	3394	1:15	2:03

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

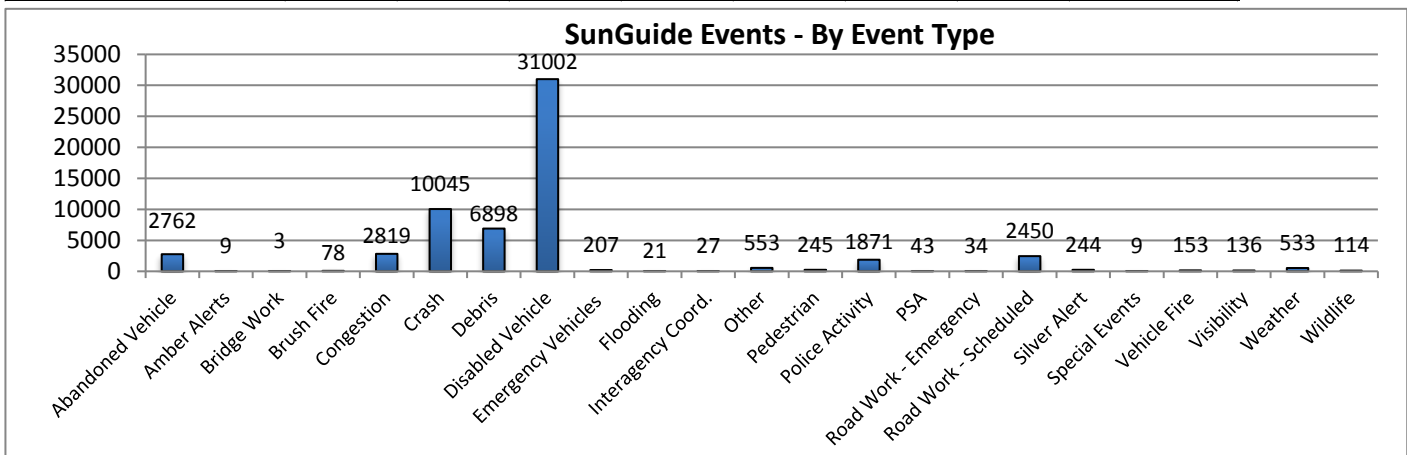




10. SunGuide Events - by Event Type:

Incidents	Collier County	Lee County	Charlotte County	Sarasota County	Manatee County	Other D-1 Counties	Other Dist. TMCs	Total # of Events
Abandoned Vehicle	535	825	248	727	425	0	2	2762
Amber Alerts	0	9	0	0	0	0	0	9
Bridge Work	0	1	2	0	0	0	0	3
Brush Fire	20	15	15	23	5	0	0	78
Congestion	220	526	64	770	1239	0	0	2819
Crash	839	2324	596	3223	2973	81	9	10045
Debris	1020	1589	845	1863	1572	3	6	6898
Disabled Vehicle	10245	8624	2406	5496	4165	0	66	31002
Emergency Vehicles	27	41	20	69	50	0	0	207
Evacuation	0	0	0	0	0	0	0	0
Flooding	0	3	0	12	6	0	0	21
Interagency Coord.	0	0	0	0	11	0	16	27
LEO Alerts	0	0	0	0	0	0	0	0
Other	70	199	73	149	54	6	2	553
Pedestrian	40	58	20	58	68	0	1	245
Police Activity	676	645	180	230	140	0	0	1871
PSA	2	1	1	19	20	0	0	43
Road Work - Emergency	10	5	2	13	4	0	0	34
Road Work - Scheduled	662	136	342	818	473	19	0	2450
Silver Alert	0	243	0	0	0	1	0	244
Special Events	2	3	0	1	2	1	0	9
Vehicle Fire	34	34	10	48	26	1	0	153
Visibility	42	24	23	29	18	0	0	136
Weather	143	116	68	115	91	0	0	533
Wildlife	44	15	9	29	17	0	0	114
Total Incidents	14631	15436	4924	13692	11359	112	102	60257

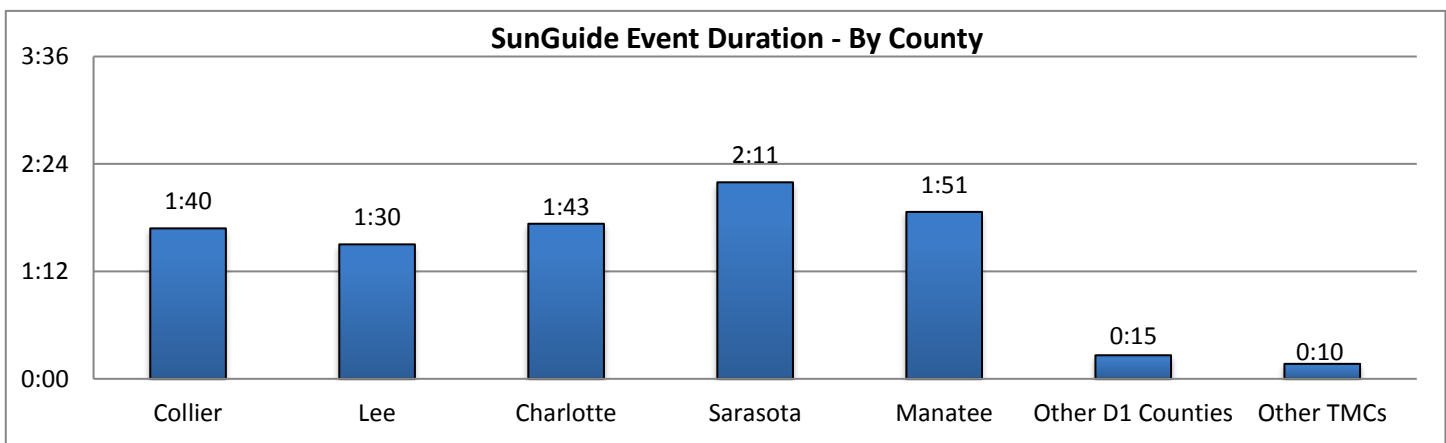
Note: Incident categories that are listed as zero are not included in the chart below.





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	10:44	8:46	8:43	10:41	8:47	0:00	5:48	9:38
Amber Alerts	0:00	4:00	0:00	0:00	0:00	0:00	0:00	3:48
Bridge Work	0:00	0:17	1:12	0:00	0:00	0:00	0:00	0:53
Brush Fire	1:48	0:25	0:26	0:24	0:19	0:00	0:00	0:45
Congestion	0:53	0:51	0:35	1:24	1:21	0:00	0:00	1:13
Crash	1:27	1:14	1:19	1:20	1:32	0:09	0:10	1:22
Debris	0:19	0:19	0:16	0:25	0:18	0:16	0:01	0:20
Disabled Vehicle	1:03	0:58	1:11	1:45	1:40	0:00	0:00	1:14
Emergency Vehicles	0:47	1:07	1:54	1:49	1:31	0:00	0:00	1:28
Evacuation	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
Flooding	0:00	0:16	0:00	2:04	5:55	0:00	0:00	2:54
Interagency Coord.	0:00	0:00	0:00	0:00	7:16	0:00	0:06	3:01
LEO Alerts	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
Other	0:37	0:20	0:18	0:16	0:25	0:03	0:15	0:21
Pedestrian	0:35	0:34	0:24	0:37	0:26	0:00	0:47	0:31
Police Activity	0:24	0:26	0:30	0:27	0:28	0:00	0:00	0:25
PSA	46:20	19:15	17:34	10:57	23:43	0:00	0:00	18:52
Road Work - Emergency	3:10	2:09	1:02	29:57	4:54	0:00	0:00	13:20
Road Work - Scheduled	7:50	12:03	5:45	6:01	5:34	0:33	0:00	6:40
Silver Alert	0:00	4:41	0:00	0:00	0:00	0:12	0:00	4:39
Special Events	7:48	13:06	0:00	0:20	8:59	2:32	0:00	8:24
Vehicle Fire	1:58	1:03	1:40	2:12	2:07	2:24	0:00	1:50
Visibility	3:39	3:56	4:05	3:55	3:42	0:00	0:00	3:50
Weather	2:38	2:59	3:00	3:36	2:19	0:00	0:00	2:54
Wildlife	0:52	0:36	0:41	0:58	0:41	0:00	0:00	0:48
Total Incidents	1:40	1:30	1:43	2:11	1:51	0:15	0:10	1:47





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
28946	4262	7	2:43

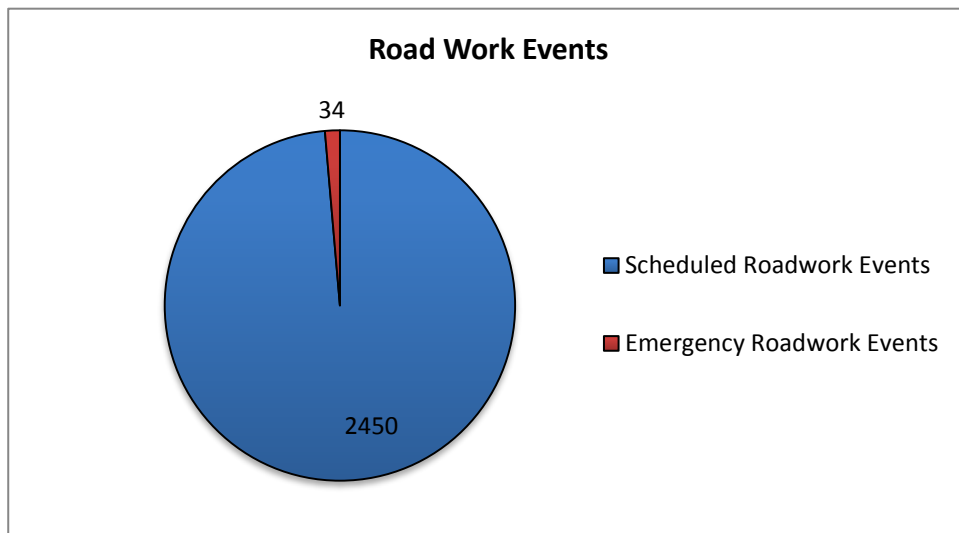
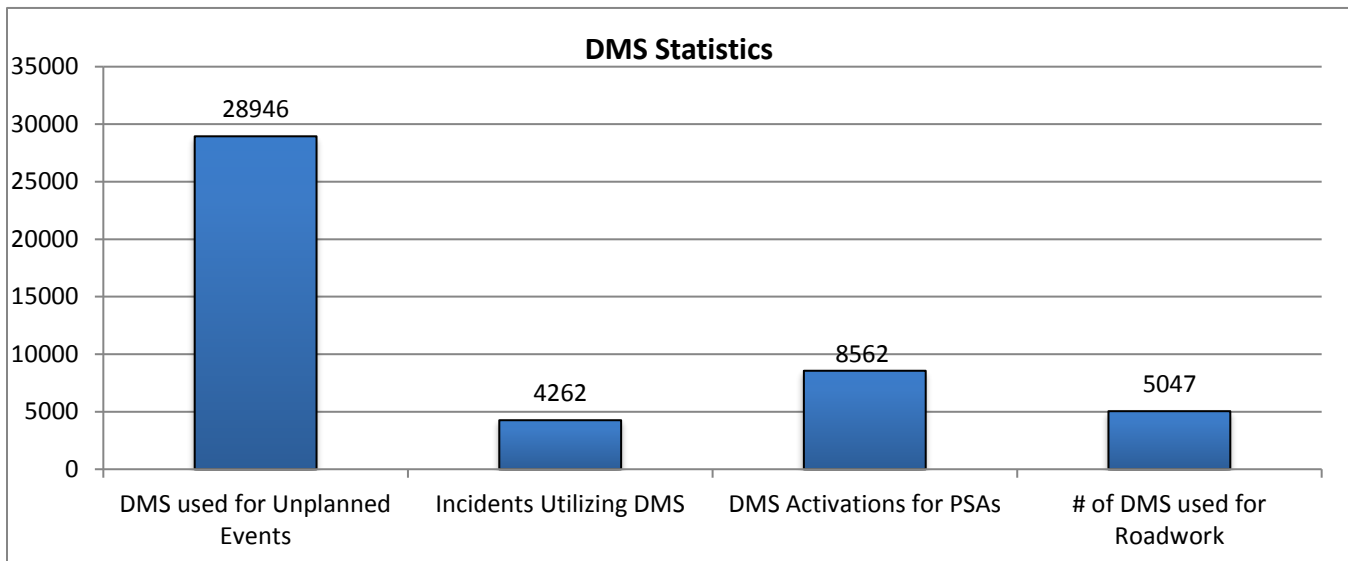
13. PSA - DMS Activations:

Number of Public Service Announcement DMS Activations
8562

14. Road Work - DMS Statistics:

Scheduled Road Work	Emergency Road Work	Total # Road Work Patterns
2450	34	2484
# DMS Used for Road Work		Average # of DMS/Pattern
5047		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	30	Mile <49	0
Mile 49-79.9	2270	Mile 49-79.9	2910
Mile 80-100.9	2730	Mile 80-100.9	2255
Mile 101-104.9	352	Mile 101-104.9	300
Mile 105-106.9	396	Mile 105-106.9	449
Mile 107-110.9	741	Mile 107-110.9	705
Mile 111-115.9	728	Mile 111-115.9	597
Mile 116-122.9	1598	Mile 116-122.9	1498
Mile 123-127.9	1362	Mile 123-127.9	962
Mile 128-130.9	679	Mile 128-130.9	638
Mile 131-135.9	1158	Mile 131-135.9	1033
Mile 136 -137.9	367	Mile 136 -137.9	255
Mile 138 -138.9	381	Mile 138 -138.9	228
Mile 139 - 140.9	743	Mile 139 - 140.9	260
Mile 141 - 142.9	432	Mile 141 - 142.9	341
Mile 143 - 157.9	1838	Mile 143 - 157.9	1460
Mile 158 - 160.9	343	Mile 158 - 160.9	269
Mile 161 - 163.9	419	Mile 161 - 163.9	317
Mile 164 - 166.9	296	Mile 164 - 166.9	330
Mile 167 -169.9	258	Mile 167 -169.9	281
Mile 170 - 178.9	705	Mile 170 - 178.9	706
Mile 179 - 181.9	359	Mile 179 - 181.9	248
Mile 182 - 190.9	1031	Mile 182 - 190.9	1015
Mile 191 - 192.9	390	Mile 191 - 192.9	405
Mile 193 - 194.9	321	Mile 193 - 194.9	320
Mile 195 -199.9	688	Mile 195 -199.9	524
Mile 200 - 204.9	830	Mile 200 - 204.9	888
Mile 205 - 206.9	607	Mile 205 - 206.9	355
Mile 207 - 209.9	521	Mile 207 - 209.9	455
Mile 210 -212.9	1056	Mile 210 -212.9	662
Mile 213 - 216.9	1407	Mile 213 - 216.9	1279
Mile 217 - 219.9	899	Mile 217 - 219.9	849
Mile 220 - 223.9	973	Mile 220 - 223.9	869
Mile 224 -227.9	835	Mile 224 -227.9	753
Mile 228 - 228.9	221	Mile 228 - 228.9	206
Mile 229 -229.9	18	Mile 229 -229.9	23
Mile 230 - 239.9	26	Mile 230 - 239.9	13
> Mile 240	0	> Mile 240	0
North Total	28008	South Total	24658

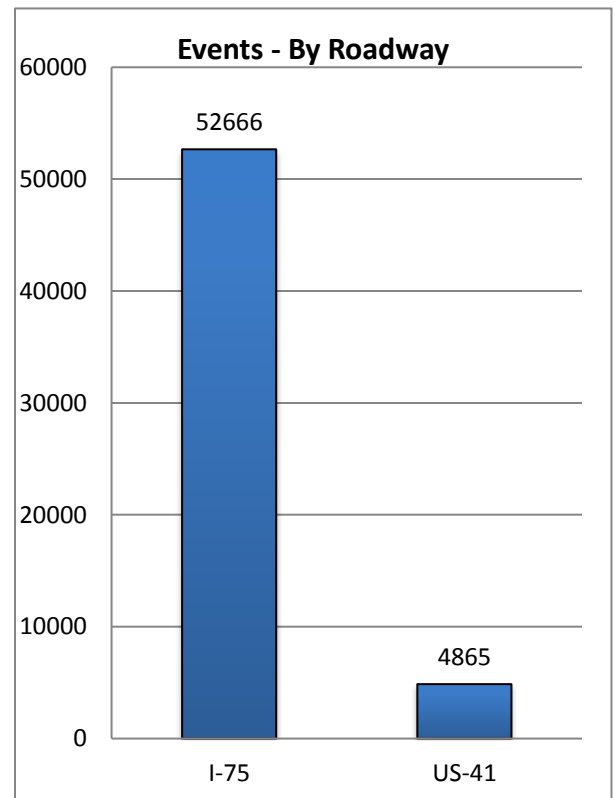
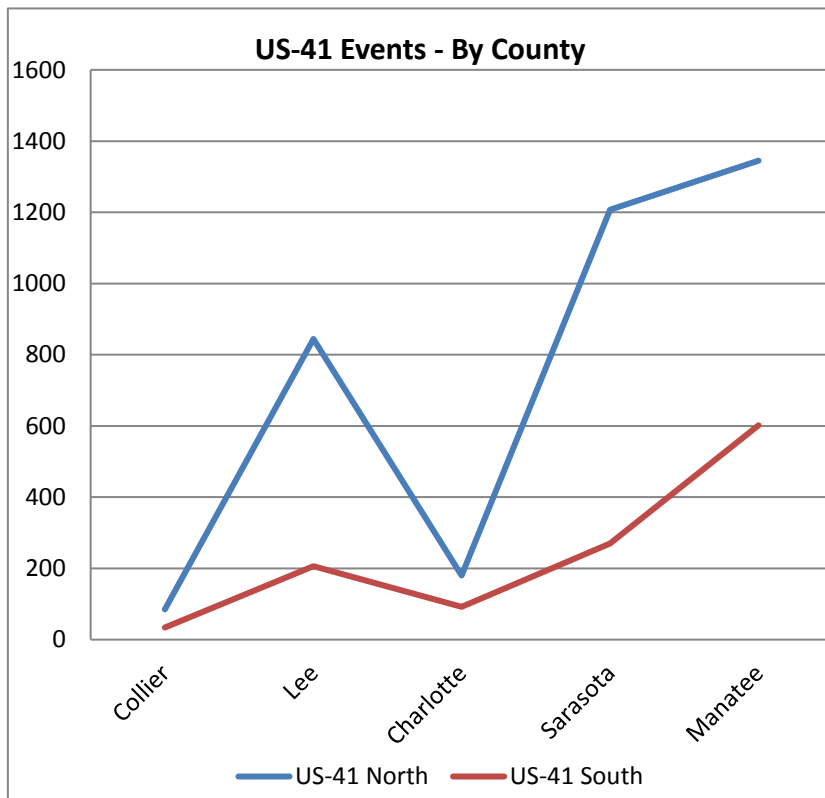
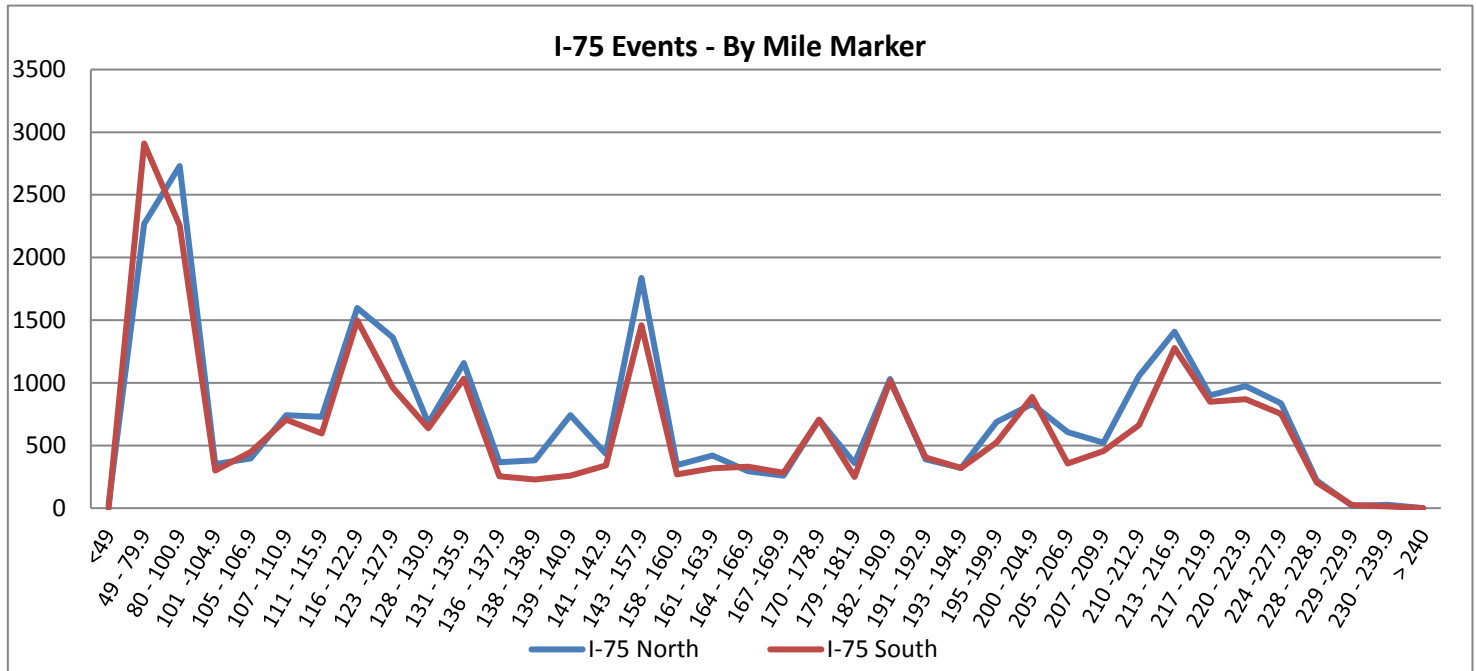
US-41 Northbound	
Collier	85
Lee	844
Charlotte	180
Sarasota	1207
Manatee	1345
North Total	3661

US-41 Southbound	
Collier	34
Lee	206
Charlotte	92
Sarasota	270
Manatee	602
South Total	1204

Total Events on US-41
4865

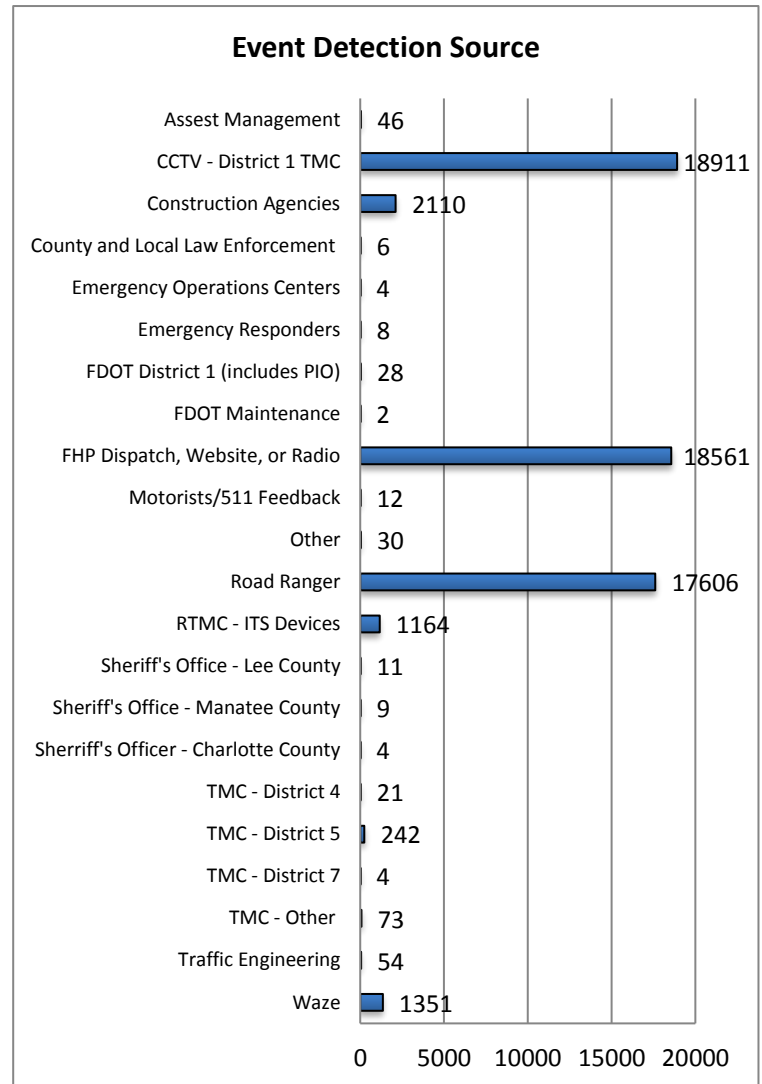
Total Events on I-75
52666

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





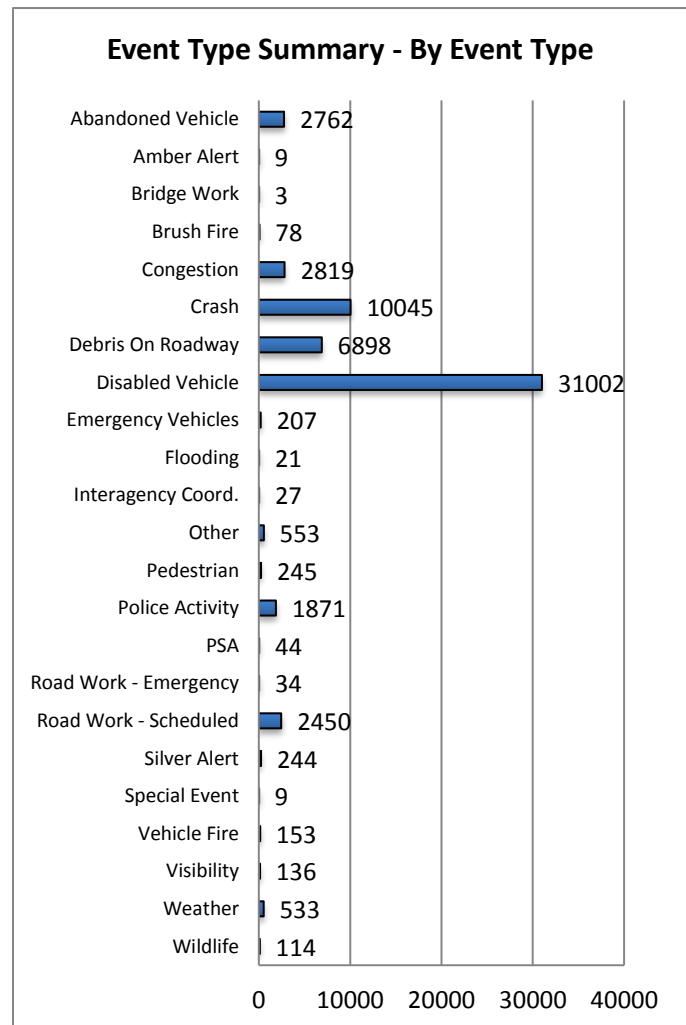
16. Event Detection Source:		
Assest Management (includes Dbi & ICA)	46	0.1%
CCTV - District 1 TMC	18911	31.4%
CCTV - Other	0	0.0%
Construction Agencies	2110	3.5%
County and Local Law Enforcement	6	0.0%
Emergency Operations Centers	4	0.0%
Emergency Responders	8	0.0%
FDOT District 1 ITS Managers	0	0.0%
FDOT District 1 (includes PIO)	28	0.0%
FDOT Maintenance	2	0.0%
FHP Dispatch, Website, or Radio	18561	30.8%
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	12	0.0%
Other	30	0.0%
Other Airport	0	0.0%
Other Field Personnel	0	0.0%
Road Ranger	17606	29.2%
RTMC - ITS Devices (TSS & Safety Barrier)	1164	1.9%
RTMC Scanner	0	0.0%
RTMC Staff (On Scene)	0	0.0%
Sherriff's Officer - Charlotte County	4	0.0%
Sheriff's Office - Collier County	0	0.0%
Sheriff's Office - Lee County	11	0.0%
Sheriff's Office - Manatee County	9	0.0%
Sheriff's Office - Sarasota County	0	0.0%
SW Florida Internantion Airport	0	0.0%
TMC - District 4	21	0.0%
TMC - District 5	242	0.4%
TMC - District 7	4	0.0%
TMC - Other	73	0.1%
Tow Truck Companies	0	0.0%
Traffic Engineering	54	0.1%
Waze	1351	2.2%
Total Number of Incidents	60257	100.0%



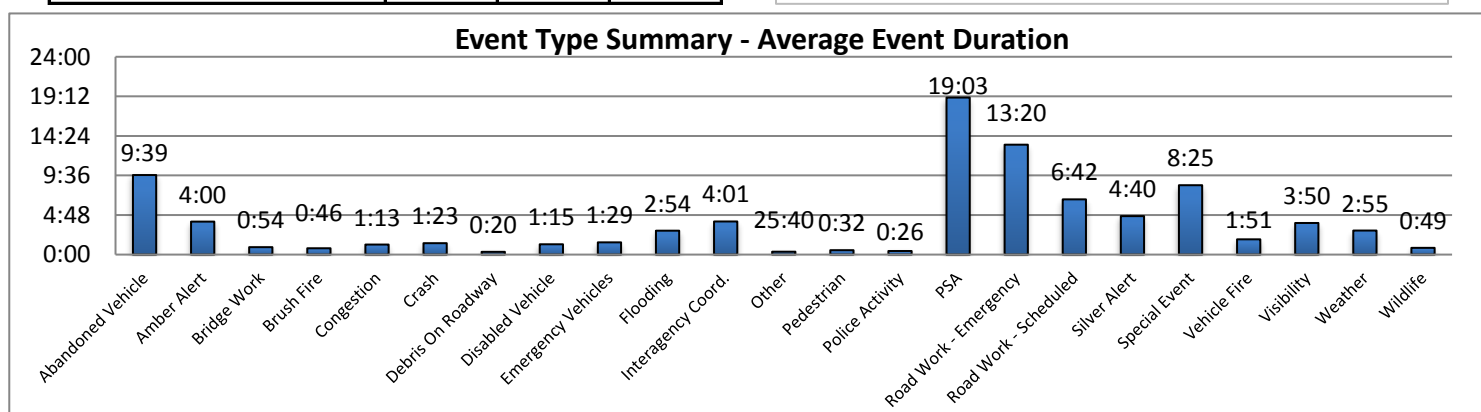
Note: Event Detection Source Categories listed as zero are not included in the above chart.



17. Event Type Summary			
Event Types	# of Events	Average On Scene Time	Average Event Duration
Abandoned Vehicle	2762	2:37	9:39
Amber Alert	9	0:00	4:00
Bridge Work	3	0:00	0:54
Brush Fire	78	0:33	0:46
Congestion	2819	0:00	1:13
Crash	10045	0:59	1:23
Debris On Roadway	6898	0:12	0:20
Disabled Vehicle	31002	0:22	1:15
Emergency Vehicles	207	0:58	1:29
Evacuation	0	0:00	0:00
Flooding	21	0:27	2:54
Interagency Coord.	27	0:04	4:01
LEO Alert	0	0:00	0:00
Other	553	0:06	0:21
Pedestrian	245	0:08	0:32
Police Activity	1871	0:19	0:26
PSA	44	0:00	19:03
Road Work - Emergency	34	1:10	13:20
Road Work - Scheduled	2450	0:09	6:42
Silver Alert	244	0:05	4:40
Special Event	9	0:06	8:25
Vehicle Fire	153	1:17	1:51
Visibility	136	0:04	3:50
Weather	533	0:03	2:55
Wildlife	114	0:31	0:49
Total Events	60257	0:32	3:56



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





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 & I-275 MM 0-13
RR107	MM 116-138		
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

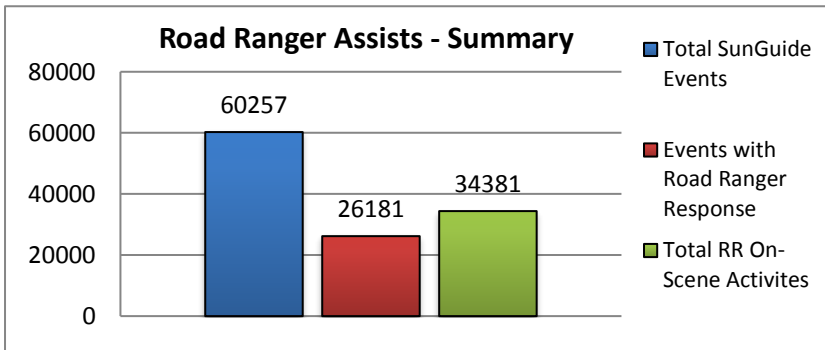
Saturday Road Rangers			
RR104	MM 49-80	RR111	MM 167-193
RR103	MM 80-105	RR113	MM 210-230
RR105	(Spare Truck)	RR112	MM 224-230
RR106	MM 105-123		I-275 MM 0-13
RR109	MM 143-170	*RR113	I-275 MM 0-13

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

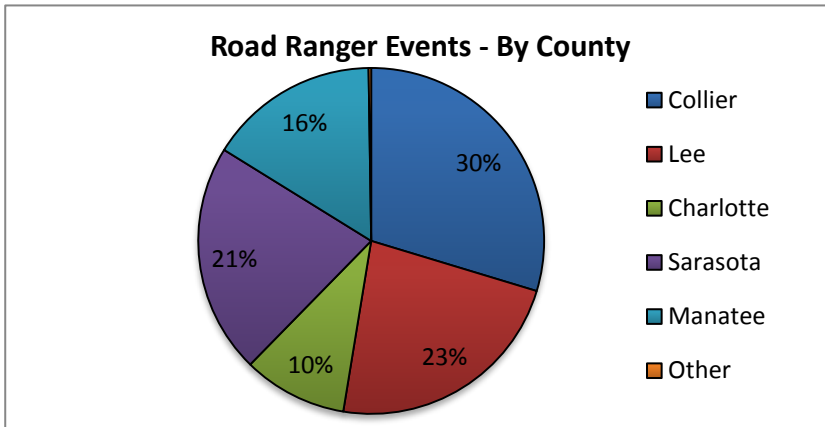
Sunday Road Rangers			
RR103	MM 49-80	RR111	MM 167-193
RR104	MM 80-105	RR113	MM 210-230
RR105	(Spare Truck)	RR112	MM 224-230
RR106	MM 105-123		I-275 MM 0-13
RR109	MM 143-170	*RR113	I-275 MM 0-13

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

18. Road Ranger Assists Summary	
Total SunGuide Events	60257
Events with Road Ranger Response	26181
Total RR On-Scene Activities	34381
Average Activities/Assisted Event	1.31
% of Events Assisted	43.45%



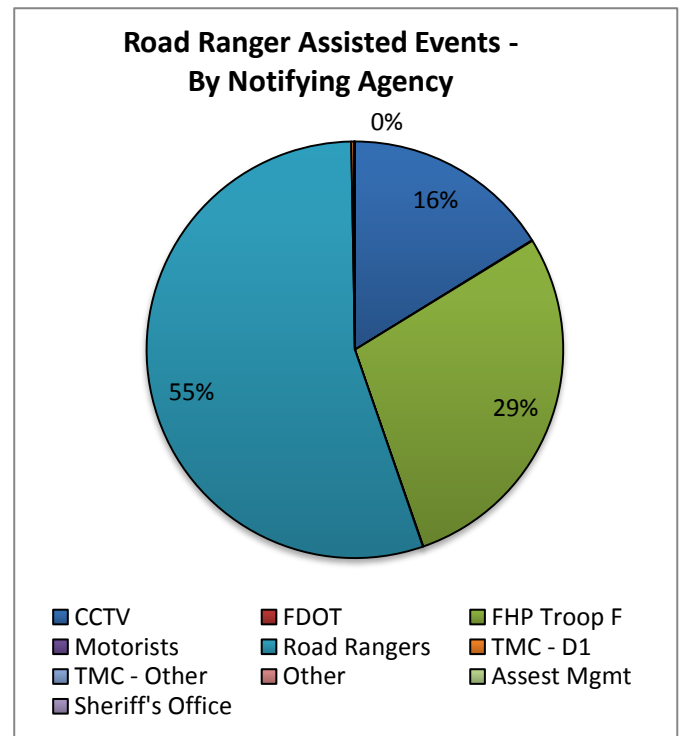
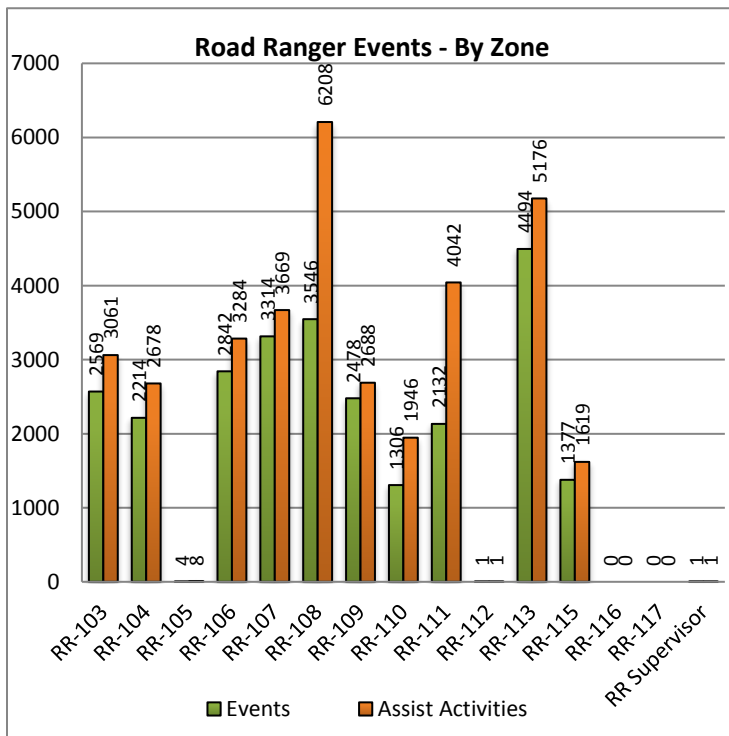
19. Road Ranger Events By County:	
District 1 Counties	Road Ranger Events
Collier	9648
Lee	7446
Charlotte	3167
Sarasota	6986
Manatee	5180
Other	79
Totals	32506





20. Road Ranger Events - By Zone:		
Road Ranger Zones	Road Ranger Events	Assist Activities
RR-103	2569	3061
RR-104	2214	2678
RR-105	4	8
RR-106	2842	3284
RR-107	3314	3669
RR-108	3546	6208
RR-109	2478	2688
RR-110	1306	1946
RR-111	2132	4042
RR-112	1	1
RR-113	4494	5176
RR-115	1377	1619
RR-116	0	0
RR-117	0	0
RR Supervisor	1	1
Totals	26278	34381

21. Road Ranger Assisted Events - By Notifying Agency:		
Notifying Agency	Number of Events	% of Events
CCTV	5173	15.9%
FDOT	16	0.0%
FHP Troop F	9087	28.0%
Motorists	9	0.0%
Road Rangers	17577	54.1%
TMC - D1	71	0.2%
TMC - Other	3	0.0%
Other	5	0.0%
Assesst Mgmt	10	0.0%
Sheriff's Office	1	0.0%
Waze	554	1.7%
Totals	32506	100.0%

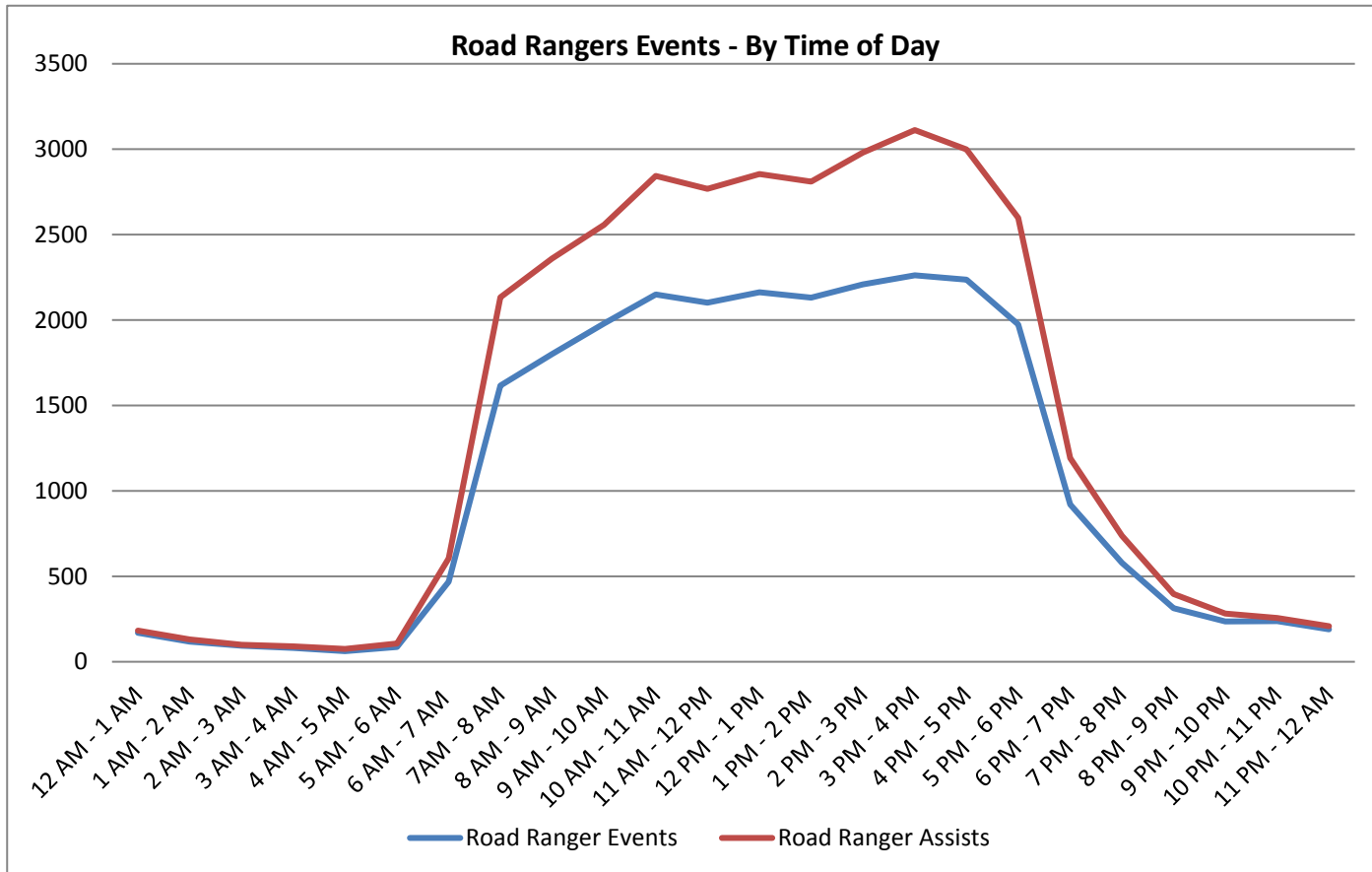




**22. Road Ranger Assisted Events -
By Time of Day:**

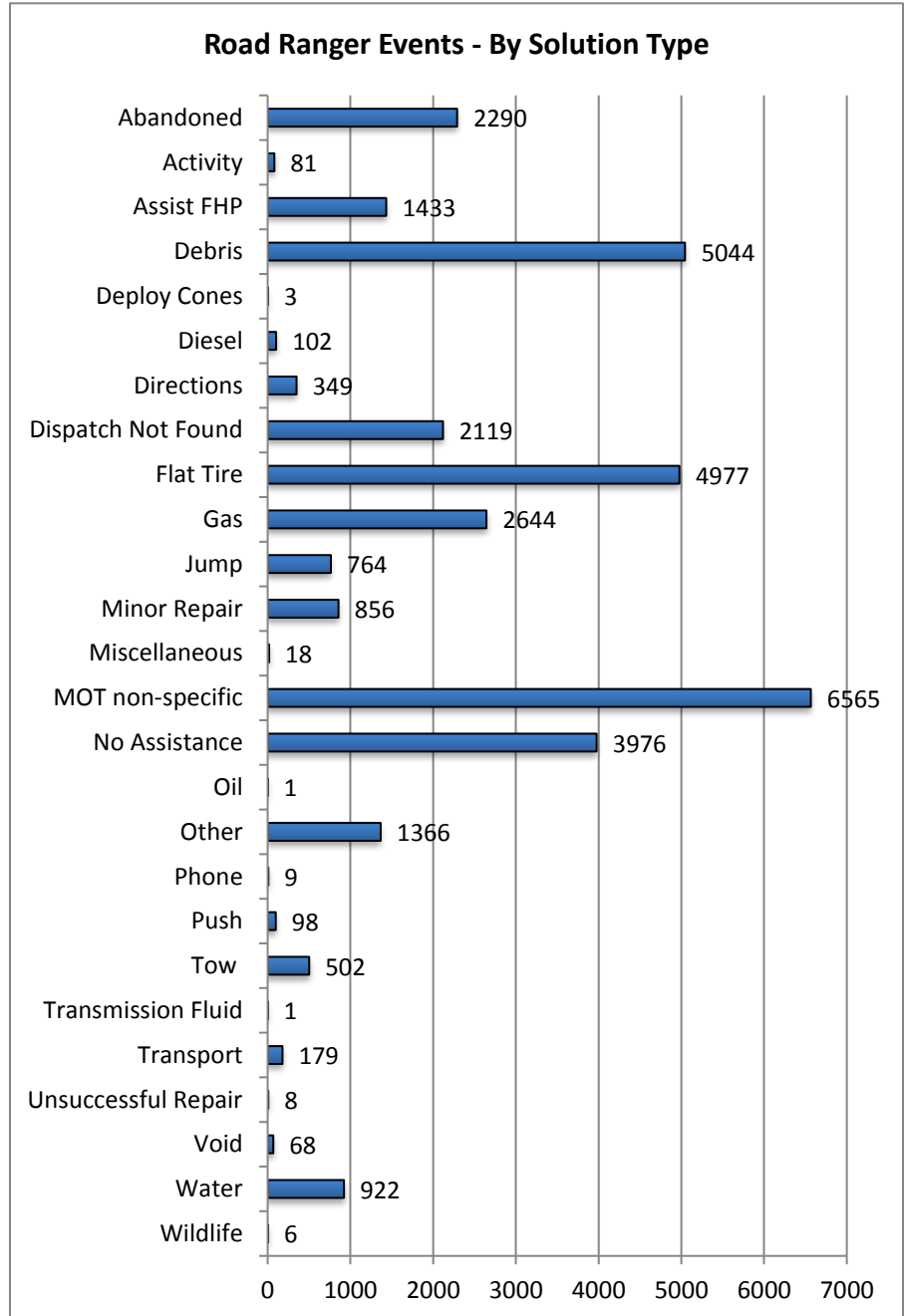
Time of Day	RR Events	RR Assists
12 AM - 1 AM	170	183
1 AM - 2 AM	118	131
2 AM - 3 AM	93	100
3 AM - 4 AM	81	91
4 AM - 5 AM	62	75
5 AM - 6 AM	86	107
6 AM - 7 AM	468	605
7 AM - 8 AM	1617	2134
8 AM - 9 AM	1801	2360
9 AM - 10 AM	1980	2558
10 AM - 11 AM	2149	2843
11 AM - 12 PM	2102	2768

Time of Day	RR Events	RR Assists
12 PM - 1 PM	2163	2854
1 PM - 2 PM	2132	2811
2 PM - 3 PM	2209	2980
3 PM - 4 PM	2262	3112
4 PM - 5 PM	2237	2998
5 PM - 6 PM	1975	2599
6 PM - 7 PM	921	1191
7 PM - 8 PM	580	737
8 PM - 9 PM	313	396
9 PM - 10 PM	236	282
10 PM - 11 PM	237	257
11 PM - 12 AM	189	209
Totals	26181	34381





23. Road Ranger Events - By Solution Type:	
Problem Type	# of Assists
Abandoned	2290
Absorbant	0
Activity	81
Assist FHP	1433
Bleach	0
Cold Patch Asphalt	0
Debris	5044
Deploy Cones	3
Diesel	102
Directions	349
Dispatch Not Found	2119
Flare	0
Flat Tire	4977
Flood Lamp	0
Gas	2644
Jump	764
Livestock	0
Lockout	0
Minor Repair	856
Miscellaneous	18
MOT non-specific	6565
No Assistance	3976
Oil	1
Other	1366
Phone	9
Portland Cement	0
Push	98
Radio	0
Tow	502
Translate	0
Transmission Fluid	1
Transport	179
Turbo Flare	0
Unsuccessful Repair	8
Void	68
Water	922
Wildlife	6
Total Assist Activities	34381



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