FDOT

SWIFT SunGuide Center
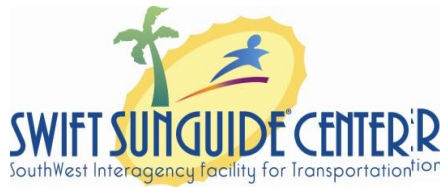SouthWest Interagency facility for Transportation

511

This is the FDOT District 1 SWIFT SunGuide Center Monthly Operations Report, for October 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

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:
5000

Total Number of SunGuide and Lane Blocking Events

2. Number of Lane Blocking Events:
411

3. Number of RISC Events:
0

Number of RISC, ESS, and Saftey Barrier Events

4. Number of ESS Events:
272

5. Events from a Safety Barrier Alert:
1

6. Average Open Roads Policy & Normal Traffic Times for I-75 Incidents	
Average Incident Duration From First Responder Arrival to Travel Lane Open	0:45
Average Incident Duration From First Responder Notified to Travel Lane Open	0:58
Average Incident Duration From First Responder Notified to Normal Traffic	1:27

Average Event Times

7. Average Blockage/Event Duration - For All Lane Blocking Events	
Number of Events	5000
Number of Lane Blocking Events	411
Number of Secondary Incidents	87
Average Blockage Duration	2:25
Average Event Duration	2:57
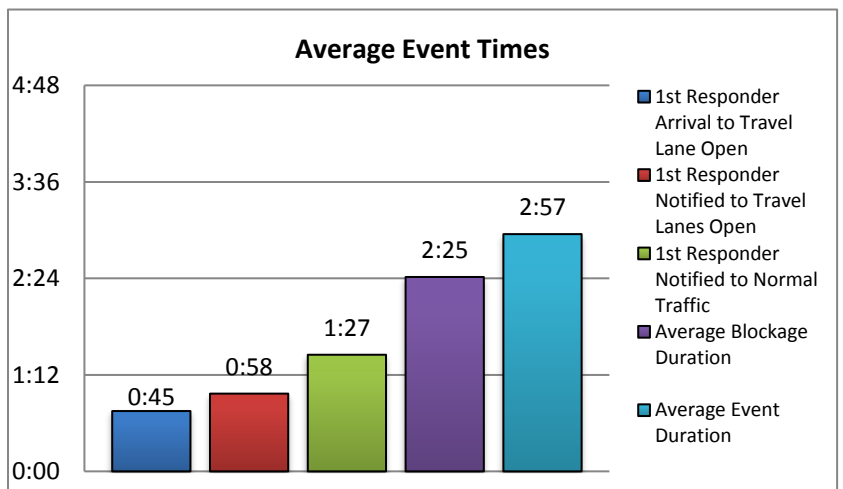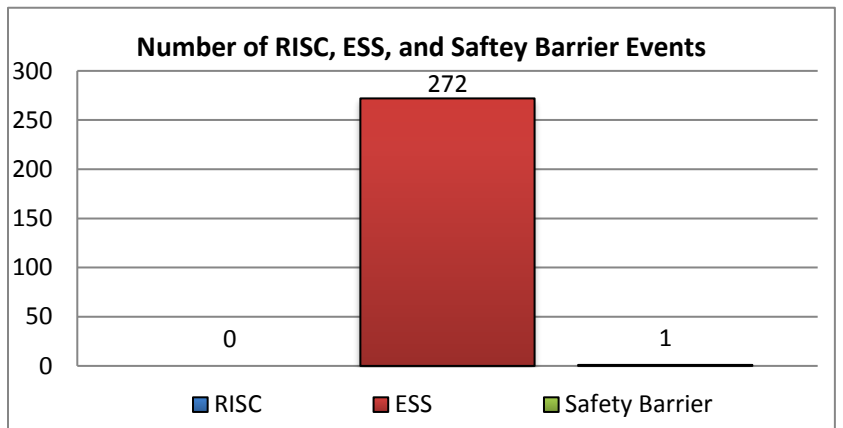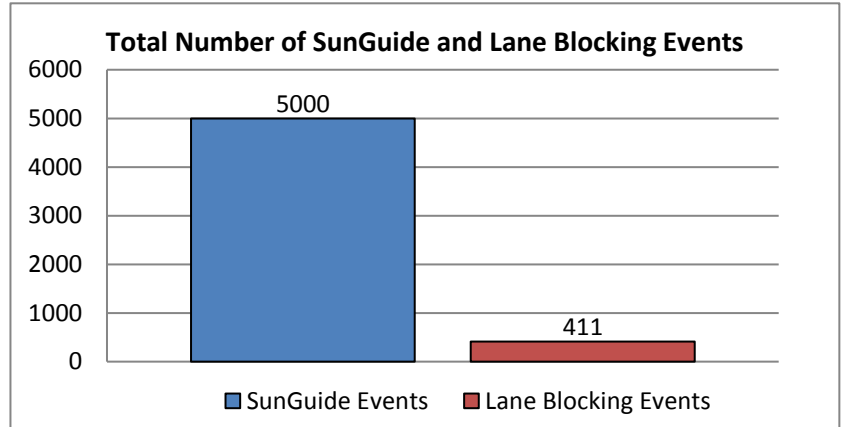
Note: Table 6 includes lane blocking incidents for I-75 and only includes Crash, Debris on Roadway, Disabled Vehicles, Emergency Vehicles, Flooding, Other, Pedestrian, Police Activity, and Vehicle Fire Events.

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	56	36	17	94	61	-
US-41	1	11	13	22	23	-
I-275	-	-	-	-	0	-
Arterials	9	13	11	33	7	4
Total Incidents	66	60	41	149	91	4

Roadways	District 7* TMC	District 6* TMC	District 4* TMC	FL Turnpike* TMC	Total Incidents By Roadway
I-75	0	0	0	-	264
US-41	0	0	-	-	70
I-275	0	-	-	-	0
Arterials	0	0	0	0	77
Total Incidents	0	0	0	0	411

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

Lane Blocking Incidents - By County
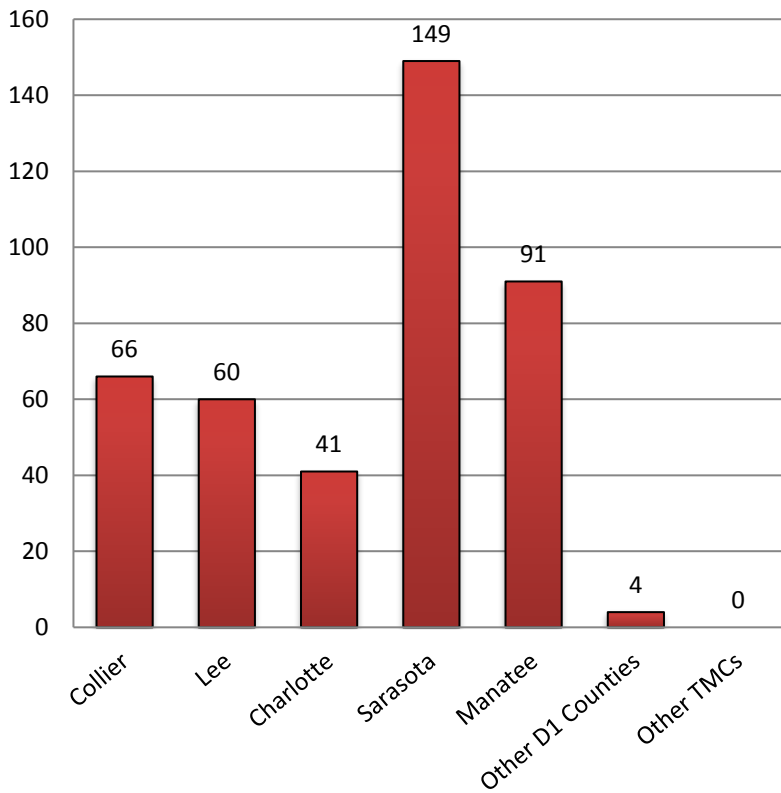
Lane Blocking Incidents - By Roadway
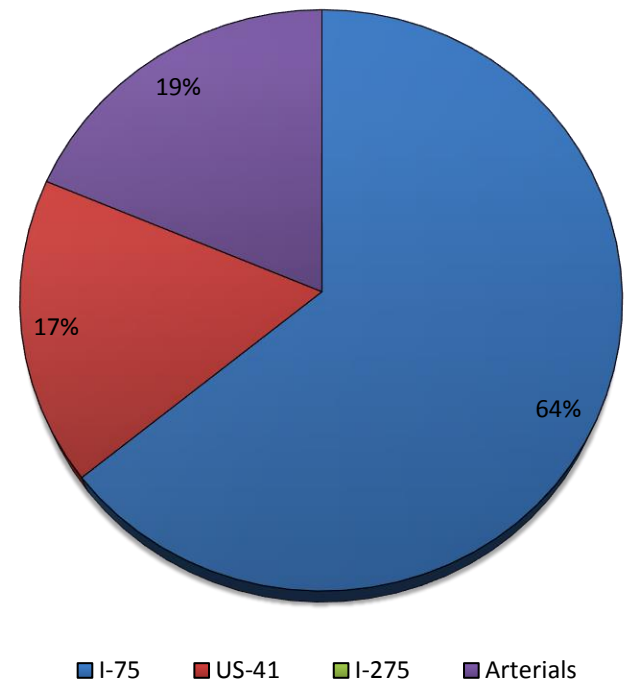
9. LANE BLOCKING INCIDENTS - By Incident Level:

	Collier County			Lee County			Charlotte County			Sarasota County		
	Events	Lane Duration	Event Duration	Events	Lane Duration	Event Duration	Events	Lane Duration	Event Duration	Evevnts	Lane Duration	Event Duration
Level 1	17	0:11	1:38	31	0:15	0:57	12	0:14	0:42	38	0:14	1:11
Level 2	11	0:39	1:39	17	0:59	1:20	9	0:55	1:06	29	1:07	1:33
Level 3	12	1:45	2:09	10	2:25	2:36	9	1:47	2:34	17	2:10	2:38
Other*	26*	6:56	7:09	2*	2:11	2:44	11*	4:27	5:08	65*	5:53	5:58
Totals	40	0:46	1:47	58	0:50	1:20	30	0:54	1:22	84	0:55	1:36

	Manatee County			Other Dist 1 Counties			Other Distrcit TMCs			Total		
	Events	Lane Duration	Event Duration	Events	Lane Duration	Event Duration	Events	Lane Duration	Event Duration	Evevnts	Lane Duration	Event Duration
Level 1	33	0:11	1:00	0	0:00	0:00	0	0:00	0:00	131	0:13	1:05
Level 2	23	0:55	1:37	0	0:00	0:00	0	0:00	0:00	89	0:57	1:29
Level 3	11	1:43	2:54	4	16:26	17:19	0	0:00	0:00	63	2:53	3:30
Other*	24*	5:17	5:24	0*	0:00	0:00	0*	0:00	0:00	128*	5:48	5:58
Totals	67	0:41	1:31	4	16:26	17:19	0	0:00	0:00	283	1:02	1:45

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

Lane Blocking Incidents - By Incident Level

Lane Blocking Incidents - Lane and Event Duration
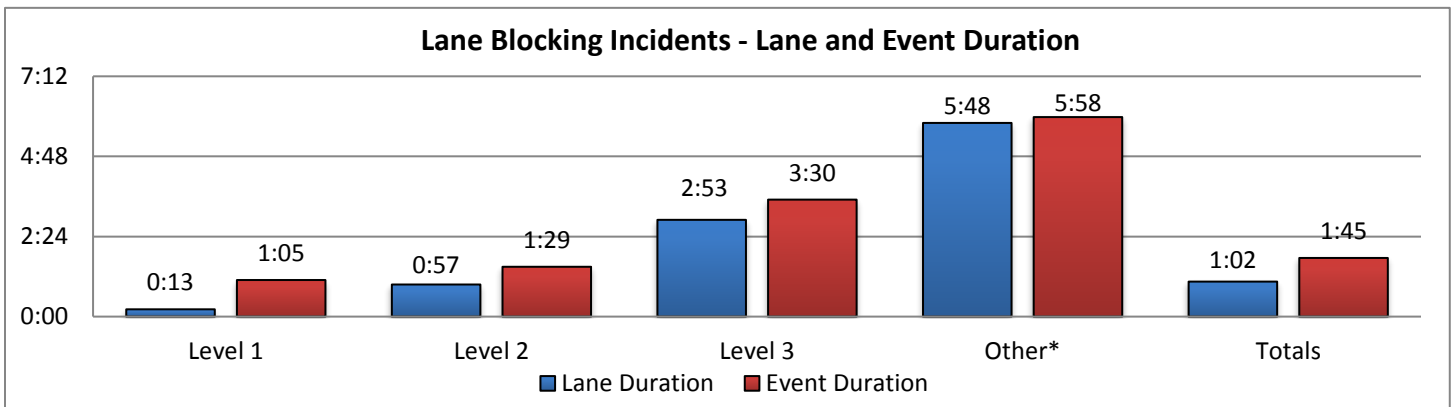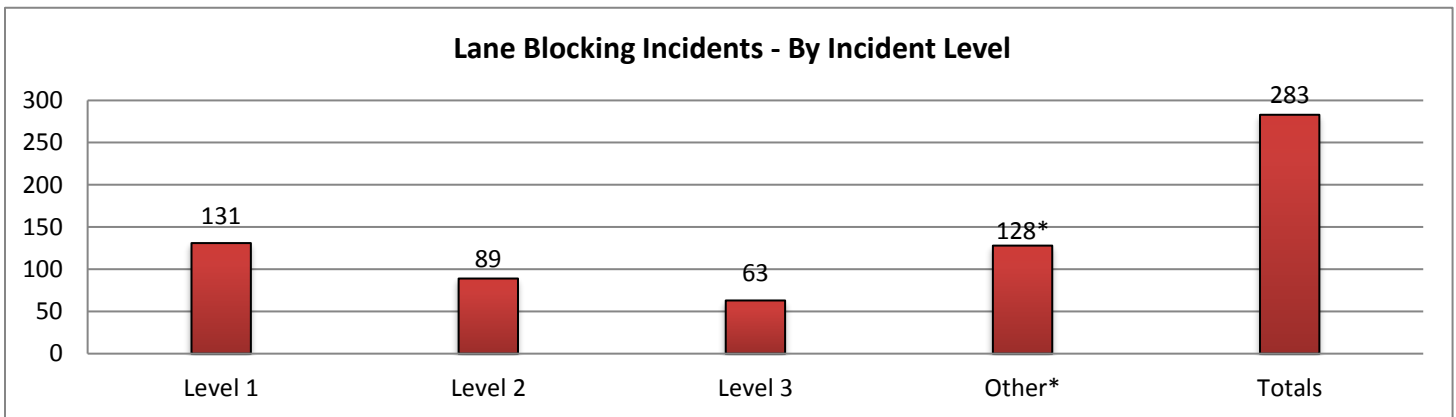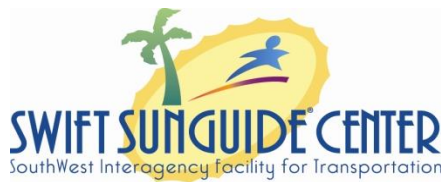
10. SunGuide Events - by Event Type:

Incidents	Collier County	Lee County	Charlotte County	Sarasota County	Manatee County	Other D-1 Counties	Other Dist. TMCs	Total # of Events
Abandoned Vehicle	43	61	18	55	31	0	1	209
Amber Alerts	0	1	0	0	0	0	0	1
Bridge Work	0	0	1	0	0	0	0	1
Brush Fire	0	1	2	4	0	0	0	7
Congestion	21	32	3	61	73	0	0	190
Crash	74	181	38	246	242	4	0	785
Debris	91	121	77	188	171	0	1	649
Disabled Vehicle	883	755	211	467	361	0	5	2682
Emergency Vehicles	0	3	3	6	2	0	0	14
Evacuation	0	0	0	0	0	0	0	0
Flooding	0	0	0	0	0	0	0	0
Interagency Coord.	0	0	0	0	0	0	0	0
LEO Alerts	0	0	0	0	0	0	0	0
Other	4	10	2	2	2	0	1	21
Pedestrian	6	6	2	4	5	0	1	24
Police Activity	53	71	16	16	10	0	0	166
PSA	1	1	1	1	1	0	0	5
Road Work - Emergency	1	0	0	2	1	0	0	4
Road Work - Scheduled	29	3	35	66	28	2	0	163
Silver Alert	0	28	0	0	0	0	0	28
Special Events	0	0	0	0	0	0	0	0
Vehicle Fire	3	2	2	4	5	0	0	16
Visibility	2	1	0	0	0	0	0	3
Weather	9	5	2	4	4	0	0	24
Wildlife	0	0	1	6	1	0	0	8
Total Incidents	1220	1282	414	1132	937	6	9	5000

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

SunGuide Events - By Event Type
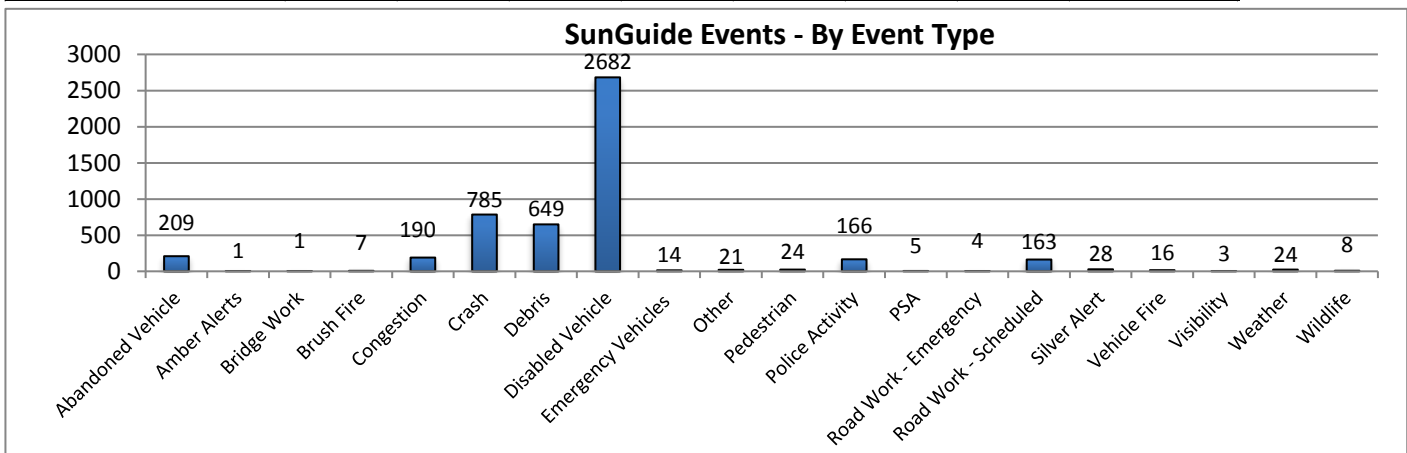
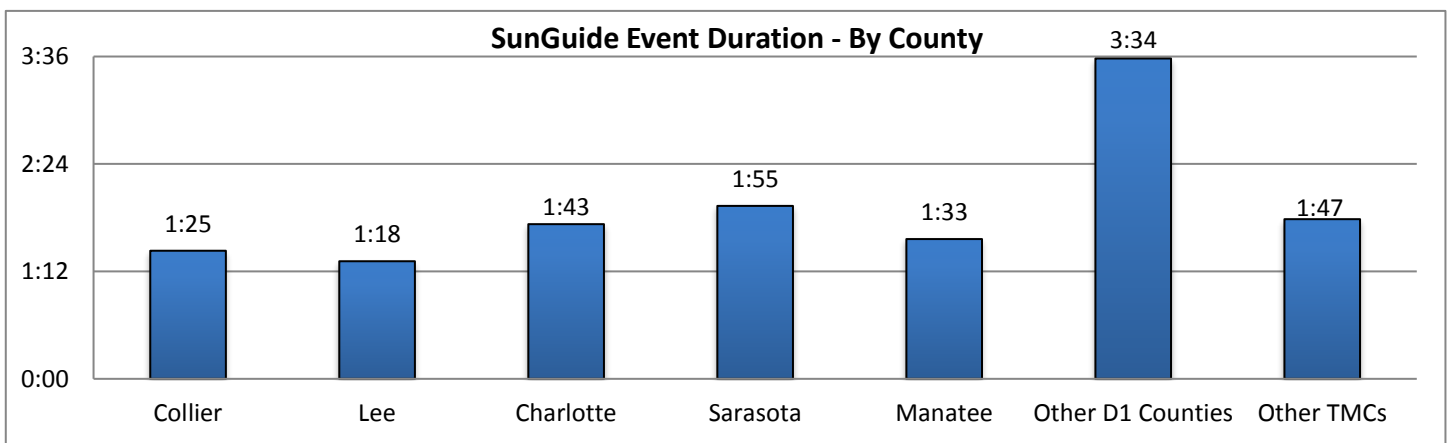| 11. SunGuide Event Duration (Average) - by Event Type:							
Incidents	Collier County	Lee County	Charlotte County	Sarasota County	Manatee County	Other D-1 Counties	Other Dist. TMCs	All Counties
Abandoned Vehicle	6:50	6:47	10:52	8:44	10:16	0:00	12:18	8:12
Amber Alerts	0:00	6:12	0:00	0:00	0:00	0:00	0:00	6:12
Bridge Work	0:00	0:00	2:07	0:00	0:00	0:00	0:00	2:07
Brush Fire	0:00	0:22	0:11	0:25	0:00	0:00	0:00	0:20
Congestion	1:10	0:38	0:26	1:02	1:12	0:00	0:00	1:02
Crash	1:23	1:04	1:13	1:21	1:23	4:21	0:00	1:18
Debris	0:21	0:27	0:16	0:20	0:13	0:00	0:04	0:19
Disabled Vehicle	1:04	1:02	1:38	1:44	1:22	0:00	0:23	1:15
Emergency Vehicles	0:00	1:40	0:39	0:46	0:28	0:00	0:00	0:53
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	0:00	0:00	0:00	0:00
LEO Alerts	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
Other	0:49	1:26	0:03	0:08	1:49	0:00	0:56	1:04
Pedestrian	0:54	0:40	0:19	0:32	0:26	0:00	0:47	0:37
Police Activity	0:28	0:29	0:52	0:26	0:31	0:00	0:00	0:30
PSA	89:28	19:15	17:34	15:45	16:18	0:00	0:00	31:40
Road Work - Emergency	2:50	0:00	0:00	1:00	8:27	0:00	0:00	3:19
Road Work - Scheduled	6:30	1:33	1:40	5:53	4:54	2:00	0:00	4:47
Silver Alert	0:00	4:21	0:00	0:00	0:00	0:00	0:00	4:21
Special Events	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00
Vehicle Fire	1:22	0:37	3:29	1:21	2:19	0:00	0:00	1:49
Visibility	1:42	1:38	0:00	0:00	0:00	0:00	0:00	1:40
Weather	3:16	1:51	1:18	1:49	1:28	0:00	0:00	2:15
Wildlife	0:00	0:00	2:27	0:46	0:28	0:00	0:00	0:56
Total Incidents	1:25	1:18	1:43	1:55	1:33	3:34	1:47	1:33

SunGuide Event Duration - By County

Collier	Lee	Charlotte	Sarasota	Manatee	Other D1 Counties	Other TMCs
1:25	1:18	1:43	1:55	1:33	3:34	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
2919	289	10	2:56

13. PSA - DMS Activations:
Number of Public Service Announcement DMS Activations
223

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

14. Road Work - DMS Statistics:		
Scheduled Road Work	Emergency Road Work	Total # Road Work Patterns
163	4	167
# DMS Used for Road Work	Average # of DMS/Pattern	
263	2	

DMS Statistics

Road Work Events
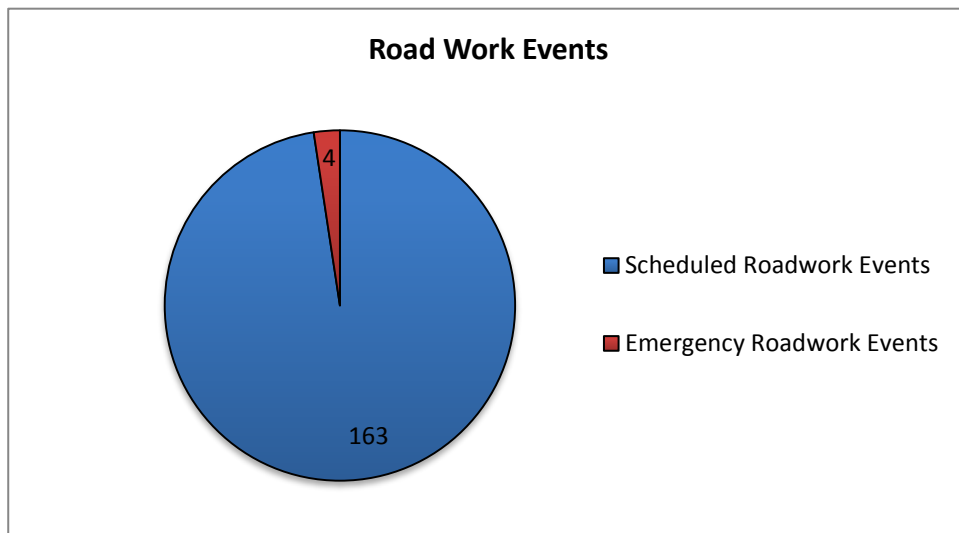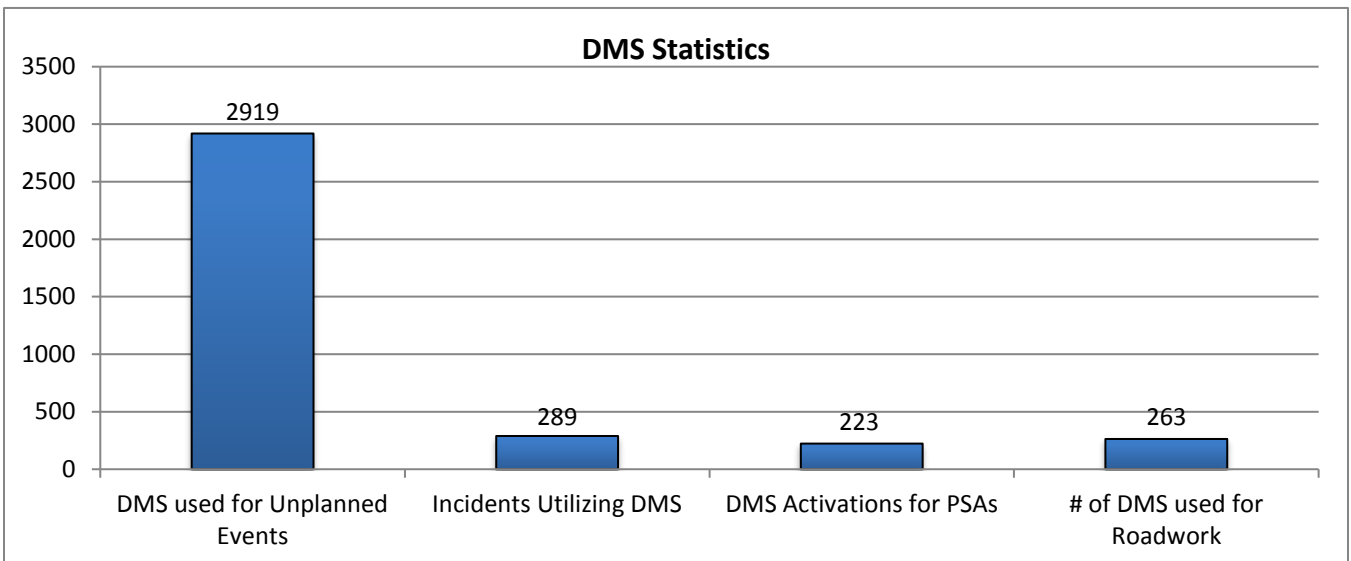
15. Event Location - Summary By Exit Reference:		

I-75 Northbound		I-75 Southbound	
Mile <49	0	Mile <49	0
Mile 49-79.9	221	Mile 49-79.9	236
Mile 80-100.9	220	Mile 80-100.9	177
Mile 101-104.9	23	Mile 101-104.9	18
Mile 105-106.9	30	Mile 105-106.9	29
Mile 107-110.9	65	Mile 107-110.9	67
Mile 111-115.9	55	Mile 111-115.9	68
Mile 116-122.9	120	Mile 116-122.9	106
Mile 123-127.9	124	Mile 123-127.9	100
Mile 128-130.9	58	Mile 128-130.9	46
Mile 131-135.9	109	Mile 131-135.9	88
Mile 136 -137.9	43	Mile 136 -137.9	20
Mile 138 -138.9	33	Mile 138 -138.9	21
Mile 139 - 140.9	70	Mile 139 - 140.9	17
Mile 141 - 142.9	36	Mile 141 - 142.9	21
Mile 143 - 157.9	157	Mile 143 - 157.9	141
Mile 158 - 160.9	22	Mile 158 - 160.9	19
Mile 161 - 163.9	27	Mile 161 - 163.9	37
Mile 164 - 166.9	21	Mile 164 - 166.9	28
Mile 167 -169.9	14	Mile 167 -169.9	13
Mile 170 - 178.9	40	Mile 170 - 178.9	51
Mile 179 - 181.9	25	Mile 179 - 181.9	17
Mile 182 - 190.9	85	Mile 182 - 190.9	79
Mile 191 - 192.9	32	Mile 191 - 192.9	32
Mile 193 - 194.9	29	Mile 193 - 194.9	33
Mile 195 -199.9	70	Mile 195 -199.9	53
Mile 200 - 204.9	82	Mile 200 - 204.9	85
Mile 205 - 206.9	35	Mile 205 - 206.9	24
Mile 207 - 209.9	53	Mile 207 - 209.9	31
Mile 210 -212.9	75	Mile 210 -212.9	61
Mile 213 - 216.9	111	Mile 213 - 216.9	83
Mile 217 - 219.9	89	Mile 217 - 219.9	82
Mile 220 - 223.9	81	Mile 220 - 223.9	73
Mile 224 -227.9	77	Mile 224 -227.9	52
Mile 228 - 228.9	26	Mile 228 - 228.9	29
Mile 229 -229.9	2	Mile 229 -229.9	5
Mile 230 - 239.9	4	Mile 230 - 239.9	1
> Mile 240	0	> Mile 240	0
North Total	2364	South Total	2043

US-41 Northbound	
Collier	12
Lee	75
Charlotte	19
Sarasota	102
Manatee	105
North Total	313

US-41 Southbound	
Collier	0
Lee	13
Charlotte	4
Sarasota	17
Manatee	48
South Total	82

Total Events on US-41
395

Total Events on I-75
4407

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

I-75 Events - By Mile Marker

Legend: I-75 North, I-75 South

US-41 Events - By County

Legend: US-41 North, US-41 South

X-axis: Collier, Lee, Charlotte, Sarasota, Manatee

Events - By Roadway

Roadway	Events
I-75	4407
US-41	395
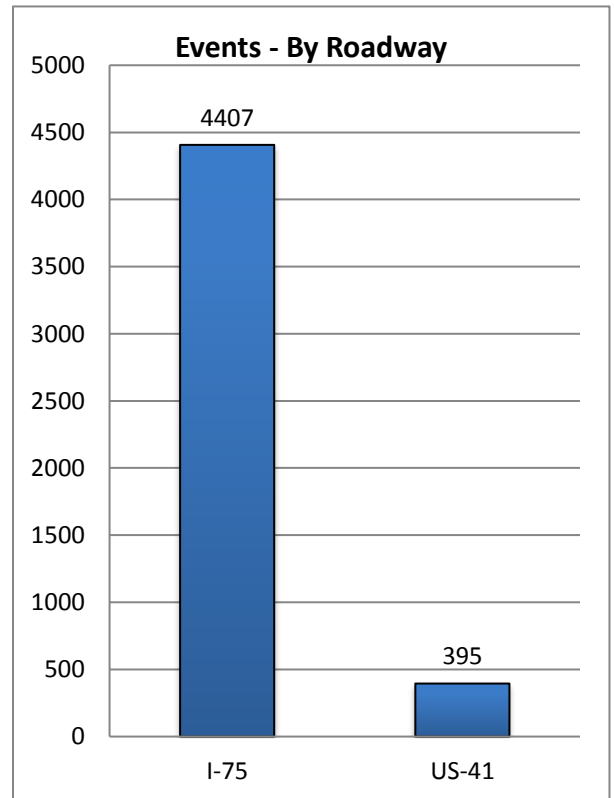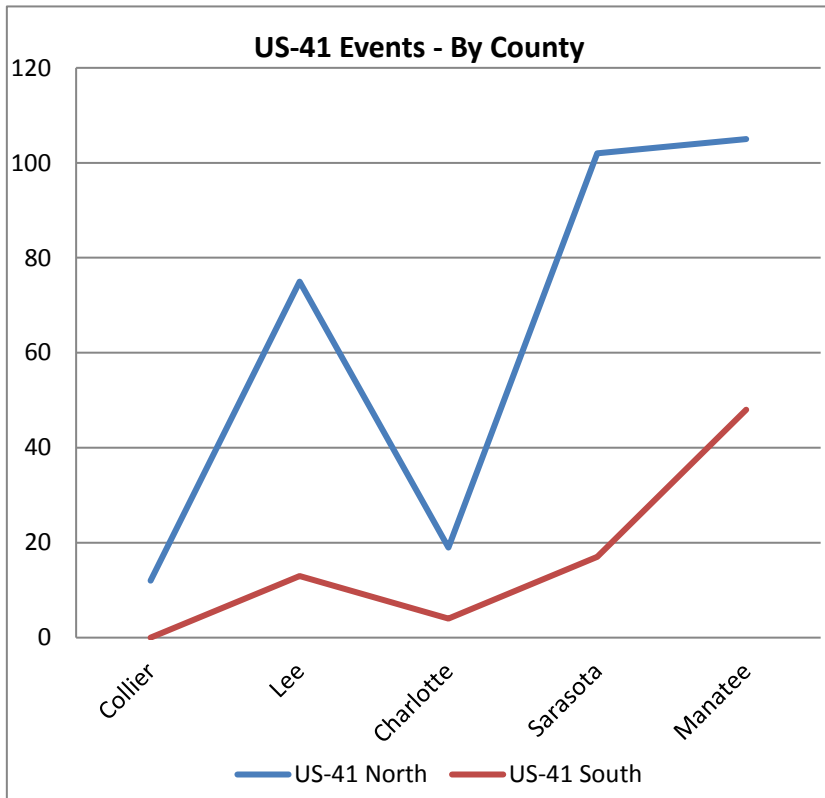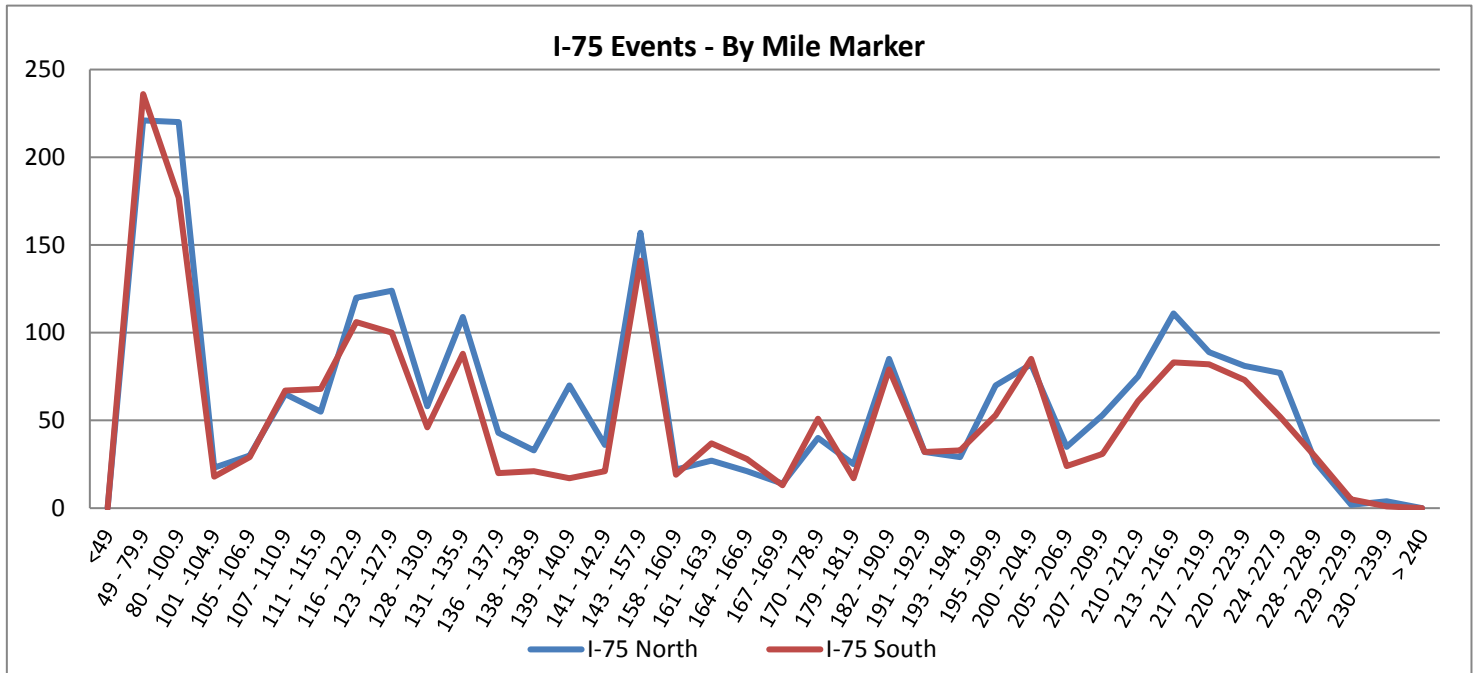
16. Event Detection Source:		
Assest Management (includes Dbi & ICA)	10	0.2%
CCTV - District 1 TMC	1587	31.7%
CCTV - Other	0	0.0%
Construction Agencies	137	2.7%
County and Local Law Enforcement	1	0.0%
Emergency Operations Centers	0	0.0%
Emergency Responders	2	0.0%
FDOT District 1 ITS Managers	0	0.0%
FDOT District 1 (includes PIO)	7	0.1%
FDOT Maintenance	0	0.0%
FHP Dispatch, Website, or Radio	1588	31.8%
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	0	0.0%
Other	1	0.0%
Other Airport	0	0.0%
Other Field Personnel	0	0.0%
Road Ranger	1542	30.8%
RTMC - ITS Devices (TSS & Safety Barrier)	74	1.5%
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	2	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	0	0.0%
TMC - District 5	28	0.6%
TMC - District 7	0	0.0%
TMC - Other	4	0.1%
Tow Truck Companies	0	0.0%
Traffic Engineering	2	0.0%
Waze	15	0.3%
Total Number of Incidents	5000	100.0%

Event Detection Source

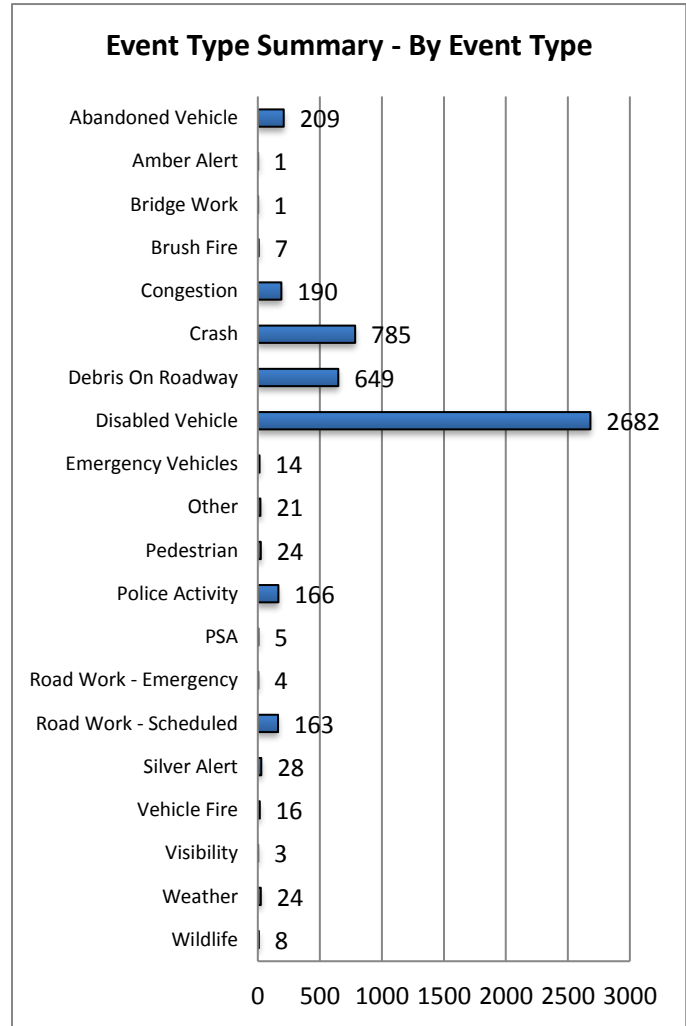| Source	Value
Assest Management (includes Dbi & ICA)	10
CCTV - District 1 TMC	1587
Construction Agencies	137
County and Local Law Enforcement	1
Emergency Responders	2
FDOT District 1 (includes PIO)	7
FHP Dispatch, Website, or Radio	1588
Other	1
Road Ranger	1542
RTMC - ITS Devices (TSS & Safety Barrier)	74
Sheriff's Office - Lee County	2
TMC - District 5	28
TMC - Other	4
Traffic Engineering	2
Waze	15

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	209	1:55	8:12
Amber Alert	1	0:00	6:12
Bridge Work	1	0:00	2:07
Brush Fire	7	0:15	0:21
Congestion	190	0:00	1:02
Crash	785	0:58	1:19
Debris On Roadway	649	0:11	0:19
Disabled Vehicle	2682	0:23	1:15
Emergency Vehicles	14	0:49	0:54
Evacuation	0	0:00	0:00
Flooding	0	0:00	0:00
Interagency Coord.	0	0:00	0:00
LEO Alert	0	0:00	0:00
Other	21	0:01	1:05
Pedestrian	24	0:11	0:38
Police Activity	166	0:23	0:31
PSA	5	0:00	31:40
Road Work - Emergency	4	2:49	3:19
Road Work - Scheduled	163	0:15	4:49
Silver Alert	28	0:04	4:21
Special Event	0	0:00	0:00
Vehicle Fire	16	1:18	1:50
Visibility	3	0:00	1:40
Weather	24	0:00	2:16
Wildlife	8	0:48	0:56
Total Events	5000	0:44	3:44

Event Type Summary - By Event Type

Event Type	Count
Abandoned Vehicle	209
Amber Alert	1
Bridge Work	1
Brush Fire	7
Congestion	190
Crash	785
Debris On Roadway	649
Disabled Vehicle	2682
Emergency Vehicles	14
Other	21
Pedestrian	24
Police Activity	166
PSA	5
Road Work - Emergency	4
Road Work - Scheduled	163
Silver Alert	28
Vehicle Fire	16
Visibility	3
Weather	24
Wildlife	8

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

Event Type Summary - Average Event Duration

Abandoned Vehicle 8:12, Amber Alert 6:12, Bridge Work 2:07, Brush Fire 0:21, Congestion 1:02, Crash 1:19, Debris On Roadway 0:19, Disabled Vehicle 1:15, Emergency Vehicles 0:54, Other 1:05, Pedestrian 0:38, Police Activity 0:31, PSA 31:40, Road Work - Emergency 3:19, Road Work - Scheduled 60:48, Silver Alert 4:21, Vehicle Fire 1:50, Visibility 1:40, Weather 2:16, Wildlife 0:56
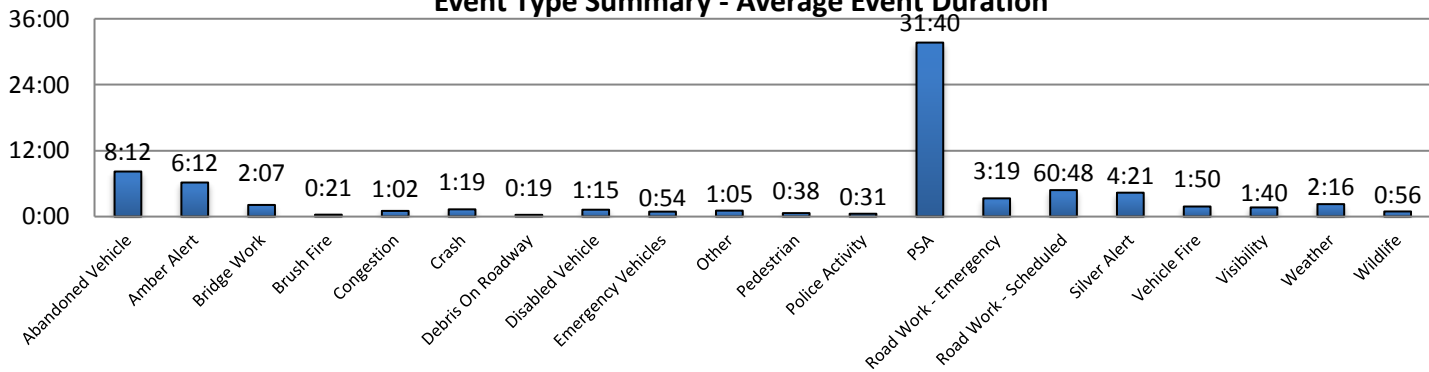
Road Ranger Information

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	5000
Events with Road Ranger Response	2157
Total RR On-Scene Activites	2674
Average Activities/Assisted Event	1.24
% of Events Assisted	43.14%

Road Ranger Assists - Summary
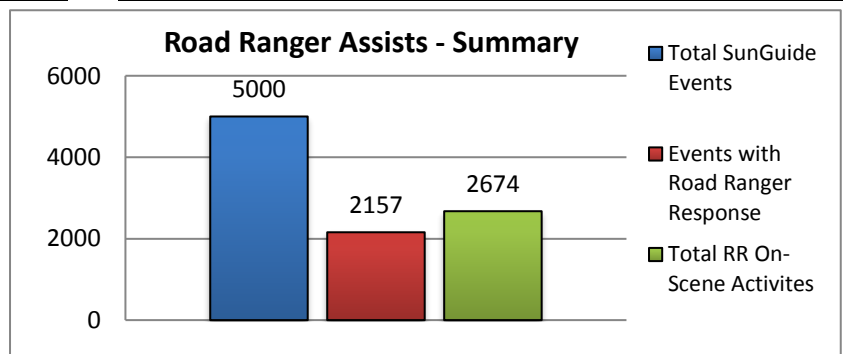
19. Road Ranger Events By County:	
District 1 Counties	Road Ranger Events
Collier	806
Lee	590
Charlotte	261
Sarasota	615
Manatee	502
Other	8
Totals	2782

Road Ranger Events - By County

Collier 29%, Lee 21%, Charlotte 10%, Sarasota 22%, Manatee 18%
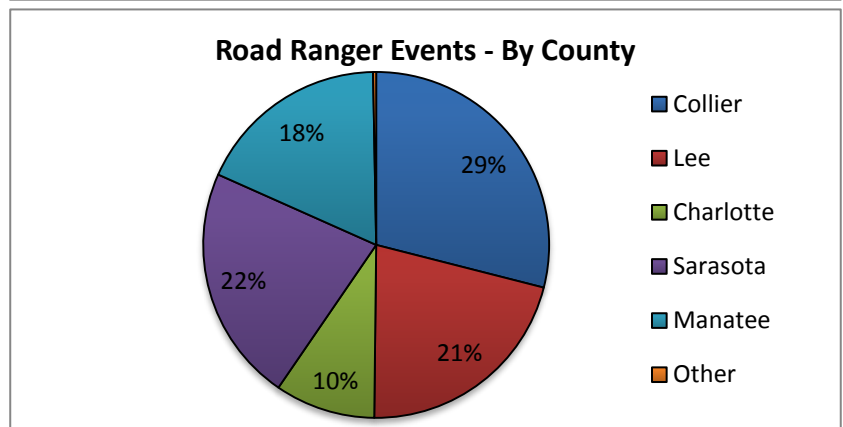
20. Road Ranger Events - By Zone:		
Road Ranger Zones	Road Ranger Events	Assist Activities
RR-103	240	267
RR-104	250	301
RR-105	0	0
RR-106	236	284
RR-107	270	301
RR-108	346	440
RR-109	206	220
RR-110	94	109
RR-111	146	268
RR-112	0	0
RR-113	380	484
RR-115	0	0
RR-116	0	0
RR-117	0	0
RR Supervisor	0	0
Totals	2168	2674

21. Road Ranger Assisted Events - By Notifying Agency:		
Notifying Agency	Number of Events	% of Events
CCTV	452	16.2%
FDOT	3	0.1%
FHP Troop F	783	28.1%
Motorists	0	0.0%
Road Rangers	1537	55.2%
TMC - D1	3	0.1%
TMC - Other	0	0.0%
Other	0	0.0%
Assest Mgmt	1	0.0%
Sheriff's Office	0	0.0%
Waze	3	0.1%
Totals	2782	100.0%

Road Ranger Events - By Zone

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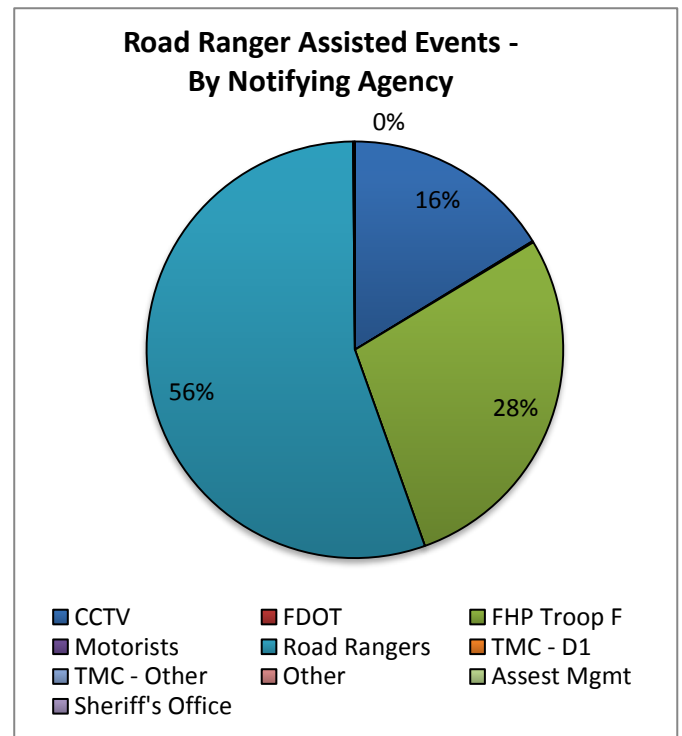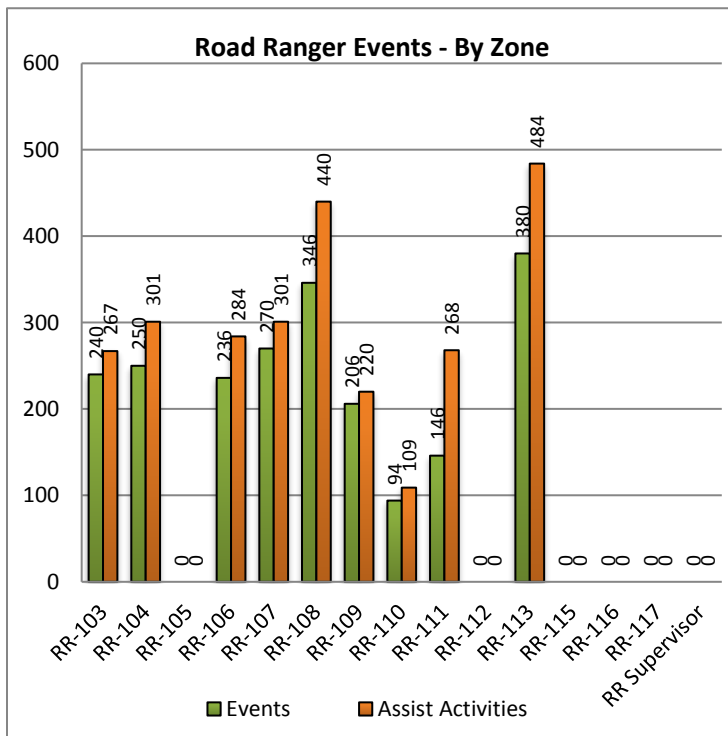
22. Road Ranger Assisted Events - By Time of Day:

Time of Day	RR Events	RR Assists	Time of Day	RR Events	RR Assists
12 AM - 1 AM	11	12	12 PM - 1 PM	188	233
1 AM - 2 AM	6	6	1 PM - 2 PM	187	226
2 AM - 3 AM	6	6	2 PM - 3 PM	170	215
3 AM - 4 AM	7	7	3 PM - 4 PM	183	224
4 AM - 5 AM	3	3	4 PM - 5 PM	180	222
5 AM - 6 AM	6	7	5 PM - 6 PM	181	238
6 AM - 7 AM	29	41	6 PM - 7 PM	93	110
7AM - 8 AM	129	170	7 PM - 8 PM	44	51
8 AM - 9 AM	171	211	8 PM - 9 PM	28	43
9 AM - 10 AM	148	186	9 PM - 10 PM	22	25
10 AM - 11 AM	178	220	10 PM - 11 PM	16	18
11 AM - 12 PM	156	185	11 PM - 12 AM	15	15
			Totals	2157	2674

Road Rangers Events - By Time of Day
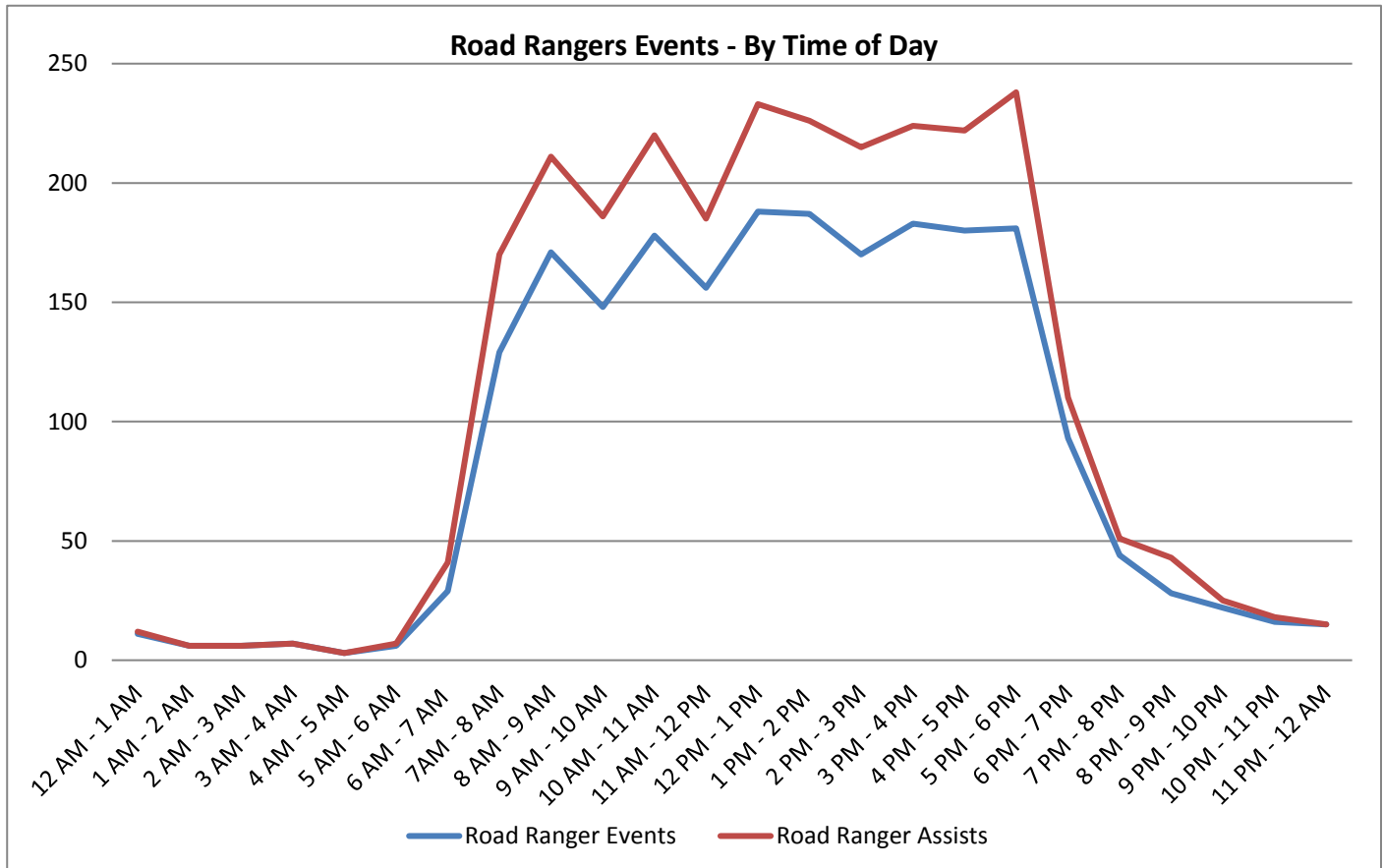
23. Road Ranger Events - By Solution Type:	
Problem Type	# of Assists
Abandoned	176
Absorbant	0
Activity	8
Assist FHP	104
Bleach	0
Cold Patch Asphalt	0
Debris	396
Deploy Cones	0
Diesel	7
Directions	8
Dispatch Not Found	170
Flare	0
Flat Tire	385
Flood Lamp	0
Gas	213
Jump	69
Livestock	0
Lockout	0
Minor Repair	52
Miscellaneous	2
MOT non-specific	513
No Assistance	365
Oil	0
Other	74
Phone	0
Portland Cement	0
Push	6
Radio	0
Tow	45
Translate	0
Transmission Fluid	0
Transport	14
Turbo Flare	0
Unsuccessful Repair	0
Void	3
Water	64
Wildlife	0
Total Assist Activities	2674

Road Ranger Events - By Solution Type

Category	Value
Abandoned	176
Activity	8
Assist FHP	104
Debris	396
Diesel	7
Directions	8
Dispatch Not Found	170
Flat Tire	385
Gas	213
Jump	69
Minor Repair	52
Miscellaneous	2
MOT non-specific	513
No Assistance	365
Other	74
Push	6
Tow	45
Transport	14
Void	3
Water	64
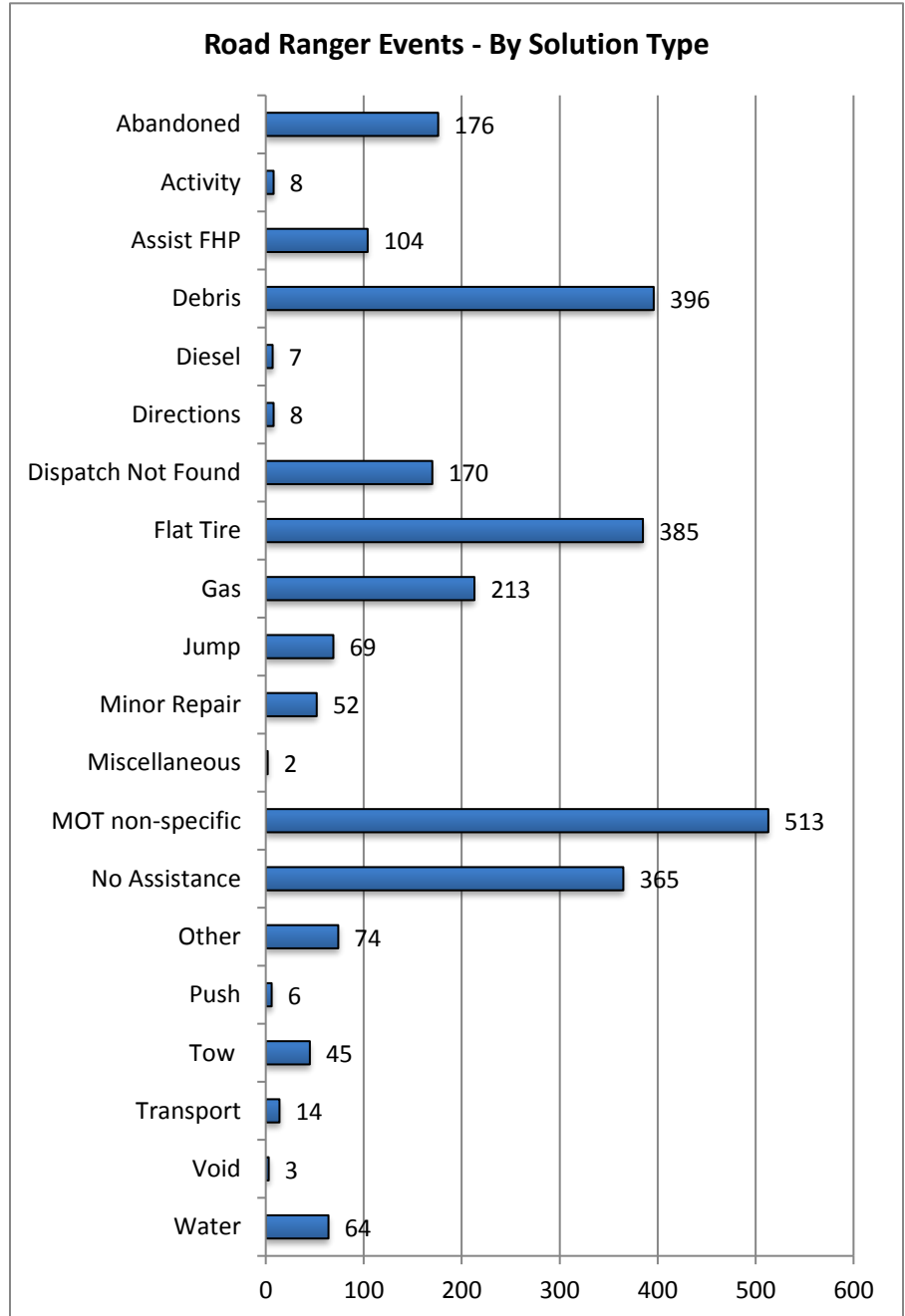
Note: Problem Type categories listed as zero are not included in the above chart.