

APPENDIX B

Crash Analysis Module Tool Results



APPENDIX B

Crash Analysis Module Tool Results - US 42 at Middletown Road



US 42 at Middletown Road

	Number
Total	18

CRASH_SEVERITY	Number	%
Injury Crash	9	50.0%
Property Damage Crash	9	50.0%
Grand Total	18	100.0%

TRAFFIC_CRASH_YEAR	Number	%
2019	3	16.7%
2020	5	27.8%
2021	7	38.9%
2022	3	16.7%
Grand Total	18	100.0%

DAY_OF_WEEK	Number	%
(2) Monday	6	33.3%
(4) Wednesday	3	16.7%
(6) Friday	3	16.7%
(5) Thursday	3	16.7%
(7) Saturday	1	5.6%
(3) Tuesday	1	5.6%
(1) Sunday	1	5.6%
Grand Total	18	100.0%

HOUR_OF_DAY	Number	%
3	1	5.6%
8	4	22.2%
9	1	5.6%
10	2	11.1%
12	2	11.1%
13	2	11.1%
15	1	5.6%
16	1	5.6%
17	2	11.1%
18	1	5.6%
20	1	5.6%
Grand Total	18	100.0%

TYPE_OF_CRASH	Number	%
Angle	10	55.6%
Left Turn	5	27.8%
Rear End	2	11.1%
Fixed Object	1	5.6%
Grand Total	18	100.0%

US 42 at Middletown Road

WEATHER_CONDITION	Number	%
Clear	11	61.1%
Cloudy	4	22.2%
Rain	2	11.1%
Unknown	1	5.6%
Grand Total	18	100.0%

ROAD_CONDITION	Number	%
Dry	16	88.9%
Wet	2	11.1%
Grand Total	18	100.0%

LIGHT_CONDITION	Number	%
Daylight	15	83.3%
Dark - Roadway Not Lighted	2	11.1%
Other / Unknown	1	5.6%
Grand Total	18	100.0%

NUMBER_OF_VEHICLES	Number	%
1	1	5.6%
2	16	88.9%
3	1	5.6%
Grand Total	18	100.0%

LOCATION	Number	%
Four-Way Intersection	15	83.3%
Not An Intersection	2	11.1%
Data Not Valid or Not Provided	1	5.6%
Grand Total	18	100.0%

CRASH_MONTH_NBR	Number	%
1	1	5.6%
2	2	11.1%
3	4	22.2%
4	1	5.6%
5	1	5.6%
6	2	11.1%
7	1	5.6%
9	3	16.7%
10	1	5.6%
11	2	11.1%
Grand Total	18	100.0%

ROAD_CONTOUR	Number	%
Straight Level	17	94.4%
Straight Grade	1	5.6%
Grand Total	18	100.0%

SPECIAL_AREA	Number	%
(blank)	18	100.0%
Grand Total	18	100.0%

ANIMAL_TYPE	Number	%
(blank)	18	100.0%
Grand Total	18	100.0%

US 42 at Middletown Road

ACTION1	Number	%
Straight Ahead	10	55.6%
Making Left Turn	5	27.8%
Slowing or Stopped In Traffic	1	5.6%
Making Right Turn	1	5.6%
Entering Traffic Lane	1	5.6%
Grand Total	18	100.0%

CONTRIBUTING_FACTOR1	Number	%
Failure to Yield	14	77.8%
Following Too Closely/ACDA	2	11.1%
Ran Stop Sign	1	5.6%
Improper Turn	1	5.6%
Grand Total	18	100.0%

	Number	%
Total	18	100.0%

TRAFFIC_CONTROL1	Number	%
Stop Sign	12	66.7%
Flasher	4	22.2%
No Control	2	11.1%
Grand Total	18	100.0%

DRIVER_ALCOHOL1	Number	%
No	17	94.4%
Yes	1	5.6%
Grand Total	18	100.0%

DRIVER_DRUGS1	Number	%
No	17	94.4%
Yes	1	5.6%
Grand Total	18	100.0%

US 42 at Middletown Road

DIRECTION_FROM1	Number	%
West	10	55.6%
East	5	27.8%
Southwest	2	11.1%
Northeast	1	5.6%
Grand Total	18	100.0%

DIRECTION_TO1	Number	%
West	7	38.9%
East	6	33.3%
Northeast	3	16.7%
North	2	11.1%
Grand Total	18	100.0%

POSTED_SPEED1	Number	%
45	13	72.2%
55	5	27.8%
Grand Total	18	100.0%

ESTIMATED_SPEED1	Number	%
5	5	27.8%
10	5	27.8%
0	2	11.1%
1	1	5.6%
45	1	5.6%
30	1	5.6%
25	1	5.6%
2	1	5.6%
3	1	5.6%
Grand Total	18	100.0%

VEHICLE_TYPE1	Number	%
Passenger Car	7	38.9%
Sport Utility Vehicle	4	22.2%
Pick up	2	11.1%
Semi-Tractor	2	11.1%
Motorcycle 2 Wheeled	1	5.6%
Cargo Van	1	5.6%
Single Unit Truck	1	5.6%
Grand Total	18	100.0%

VEHICLE_TYPE2	Number	%
Sport Utility Vehicle	9	50.0%
Passenger Car	4	22.2%
Pick up	3	16.7%
Motorcycle 2 Wheeled	1	5.6%
	1	5.6%
Grand Total	18	100.0%

US 42 at Middletown Road

ACTION2	Number	%
Straight Ahead	15	83.3%
Slowing or Stopped In Traffic	2	11.1%
	1	5.6%
Grand Total	18	100.0%

CONTRIBUTING_FACTOR2	Number	%
None	15	83.3%
Swerving to Avoid	2	11.1%
	1	5.6%
Grand Total	18	100.0%

DIRECTION_FROM2	Number	%
North	6	33.3%
Northeast	6	33.3%
South	2	11.1%
Southwest	2	11.1%
East	1	5.6%
	1	5.6%
Grand Total	18	100.0%

DIRECTION_TO2	Number	%
South	6	33.3%
Southwest	6	33.3%
North	2	11.1%
Northeast	2	11.1%
West	1	5.6%
	1	5.6%
Grand Total	18	100.0%

DRIVER_ALCOHOL2	Number	%
(blank)	18	100.0%
Grand Total	18	100.0%

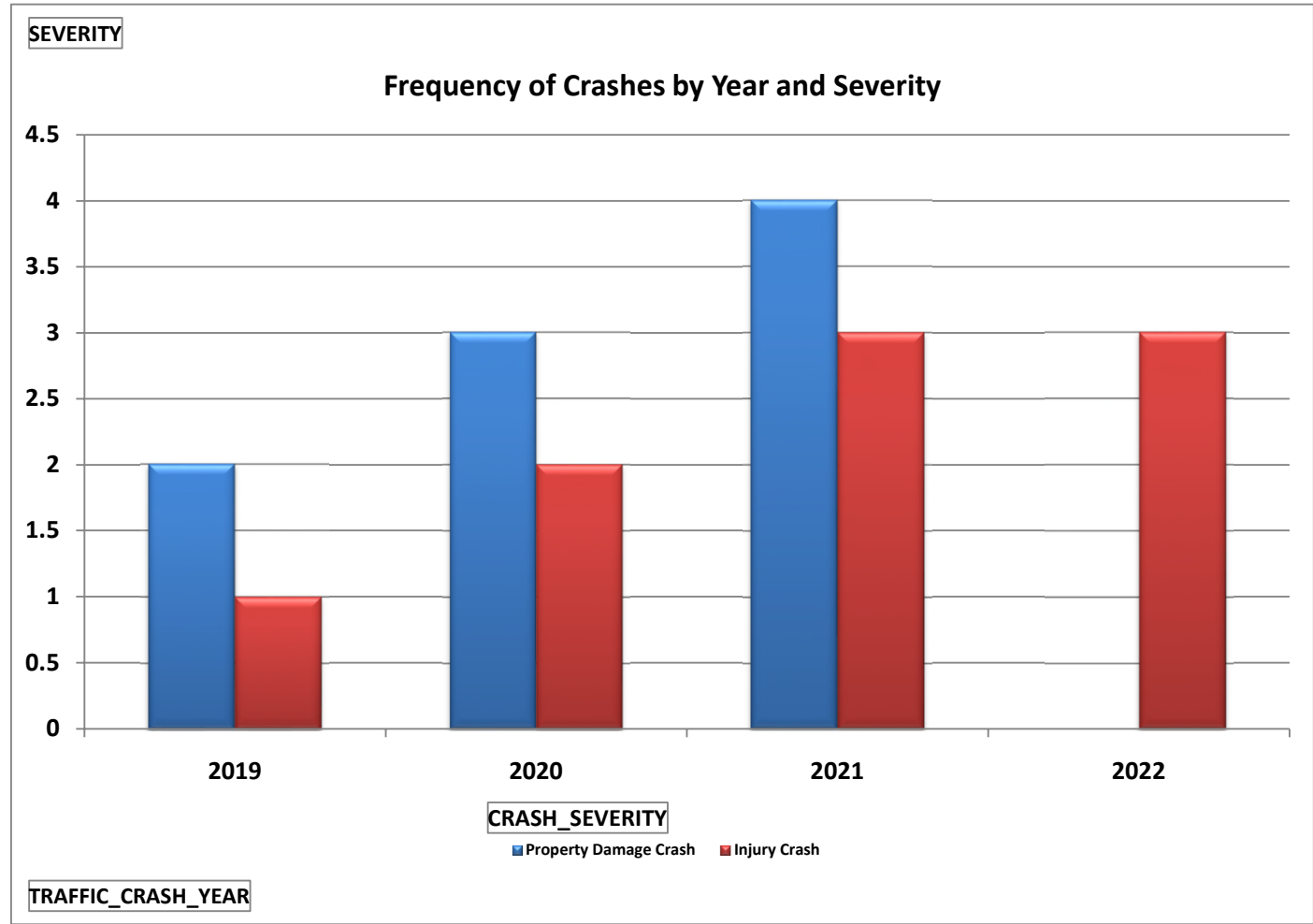
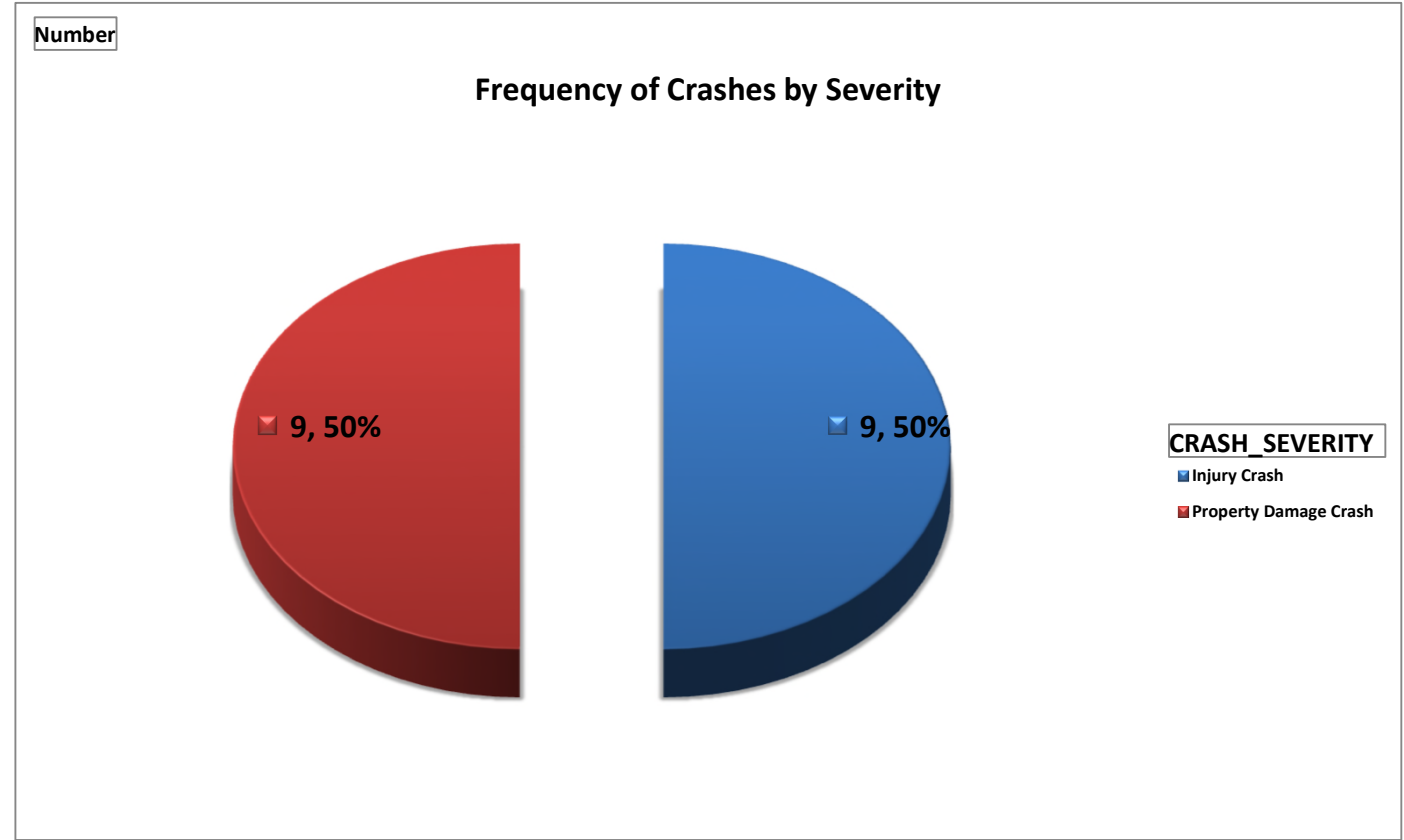
DRIVER_DRUGS2	Number	%
(blank)	18	100.0%
Grand Total	18	100.0%

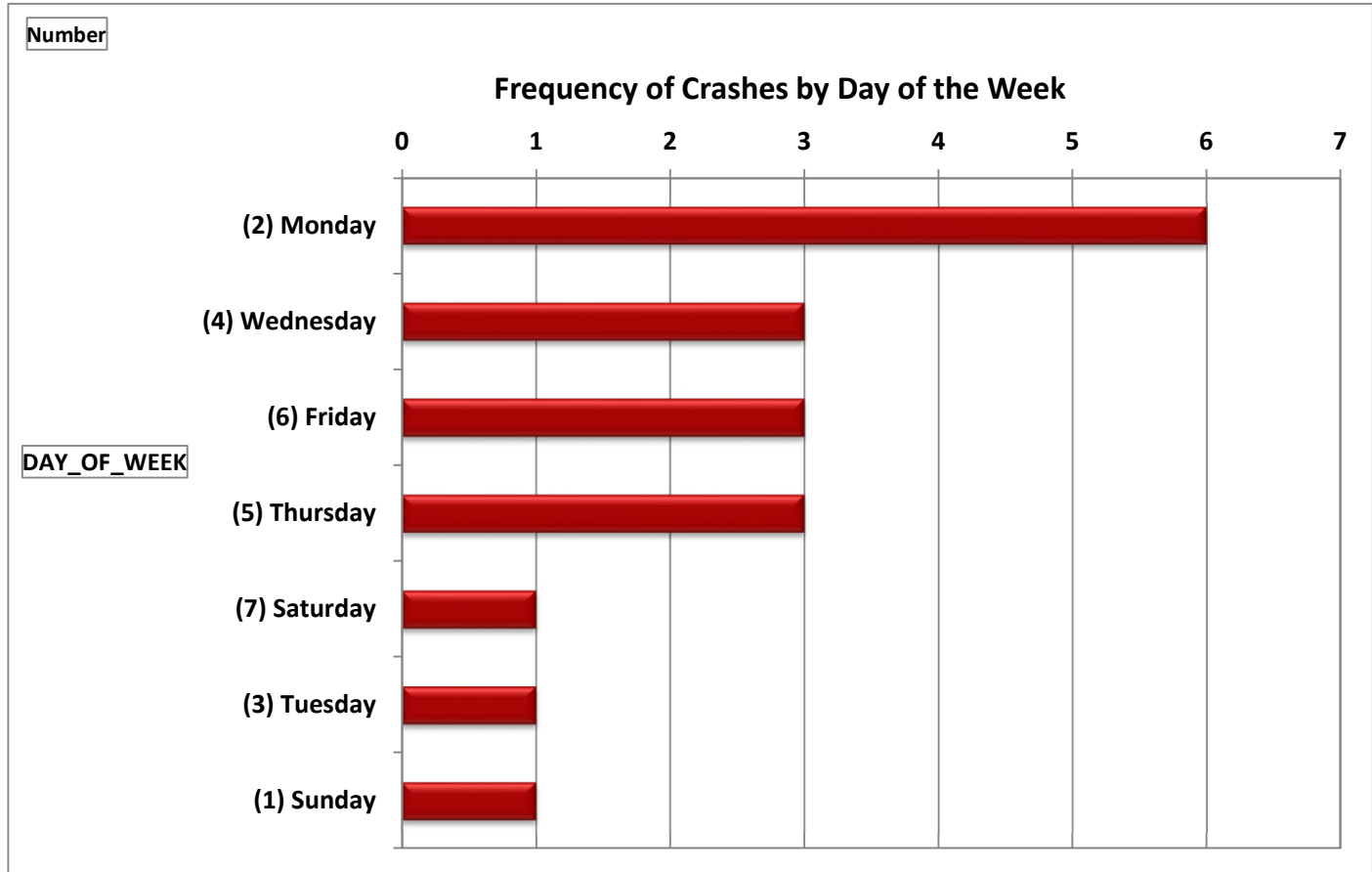
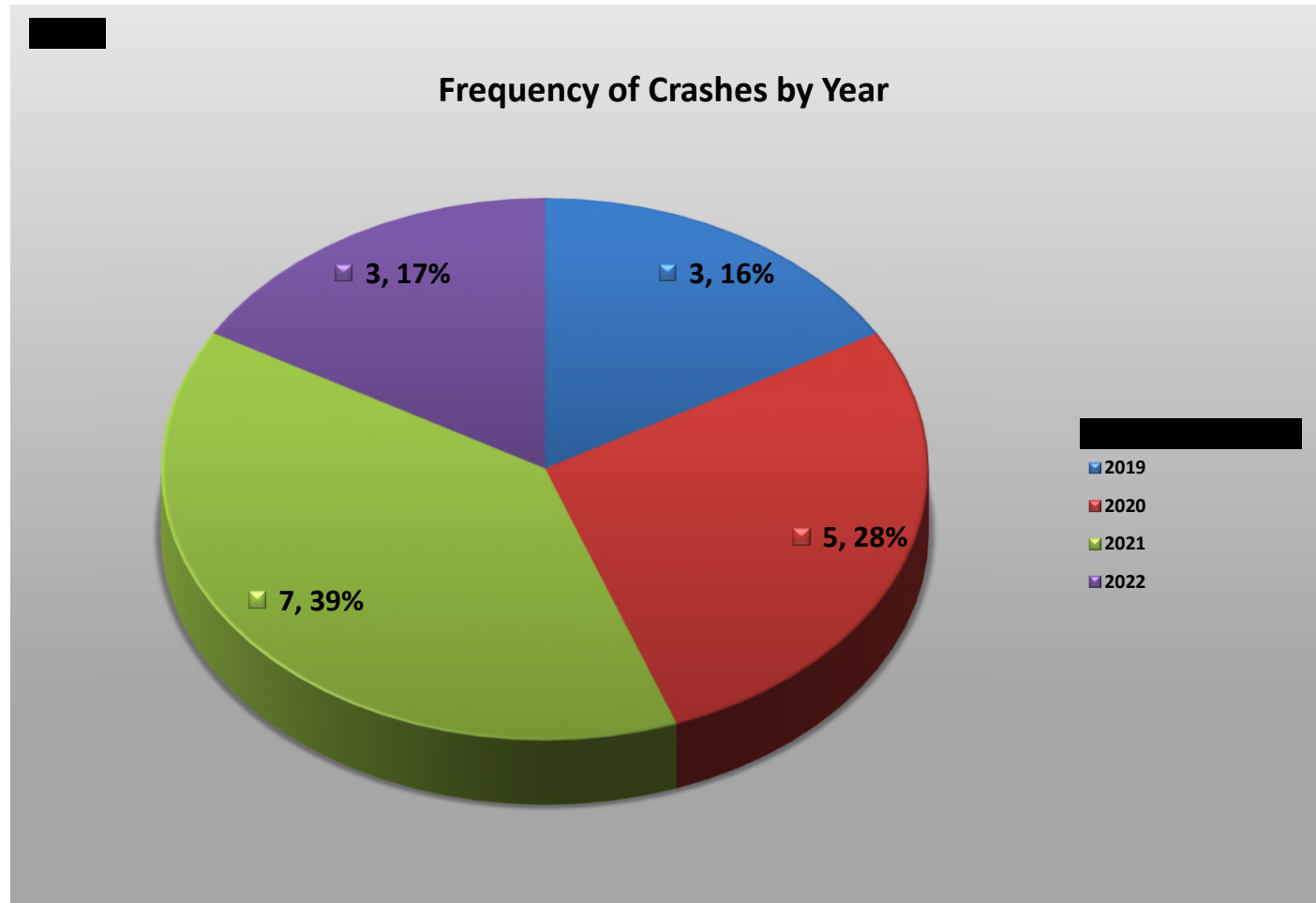
US 42 at Middletown Road

SEVERITY	CRASH_SEVERITY	
TRAFFIC_CRASH_YEAR	Property Damage Crash	Injury Crash
2019	2	1
2020	3	2
2021	4	3
2022	0	3
Grand Total	9	9

TRAFFIC_CRASH_YEAR	Fatalities	Incapacitating Injuries
2019	0	1
2020	0	0
2021	0	0
2022	0	1
Grand Total	0	2

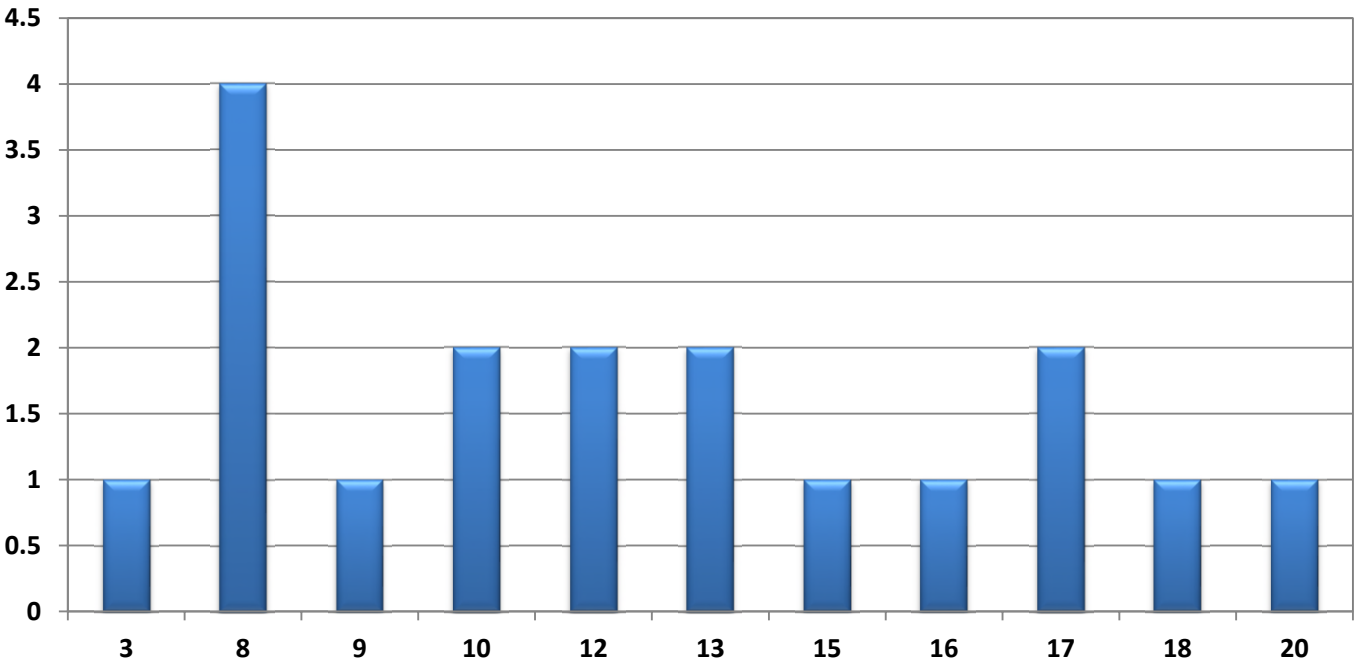
TRAFFIC_CRASH_YEAR	INJ_TYPE2_SERIOUS_VISIBLE	INJ_TYPE3_MINOR_VISIBLE	INJ_TYPE4_NO_VISIBLE
2019	1	0	1
2020	0	1	2
2021	0	5	1
2022	1	3	1
Grand Total	2	9	5





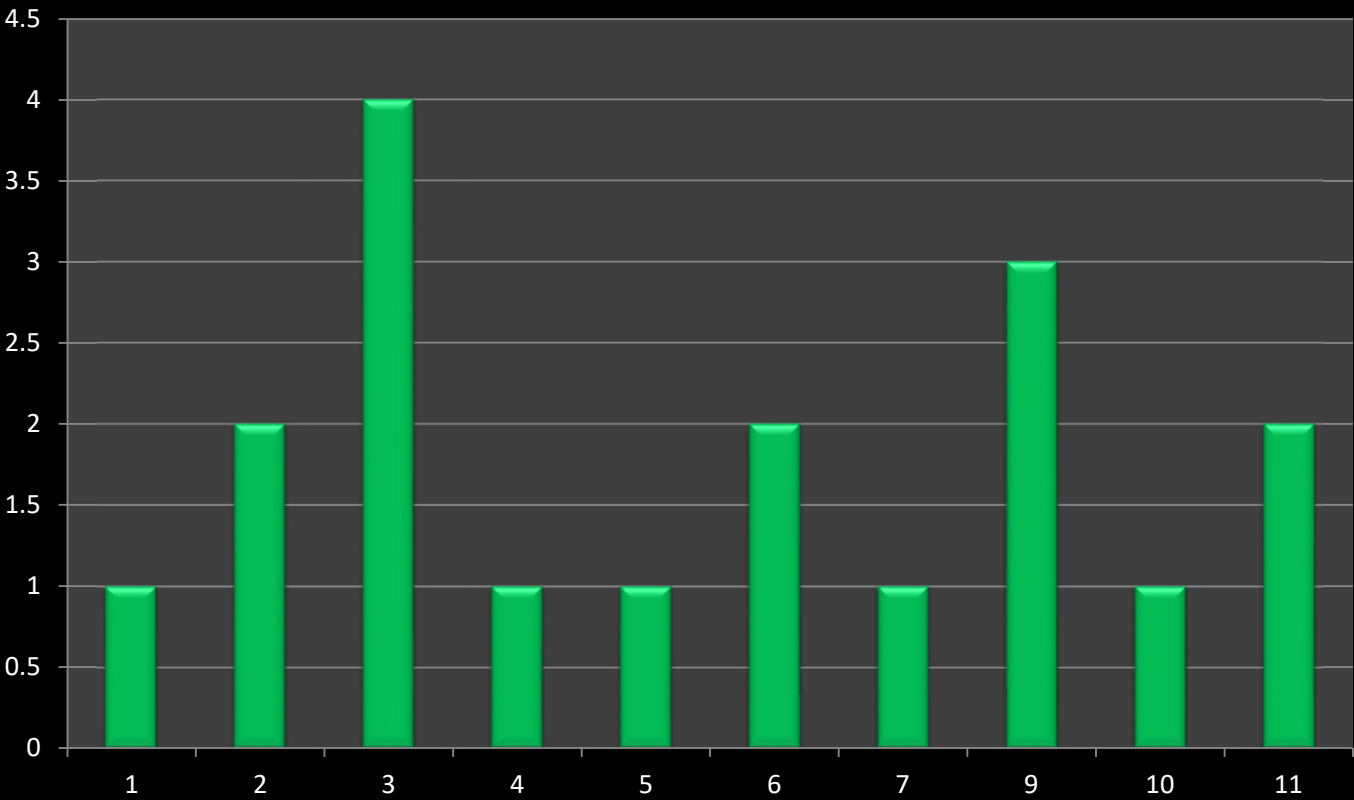


Frequency of Crashes by Hour



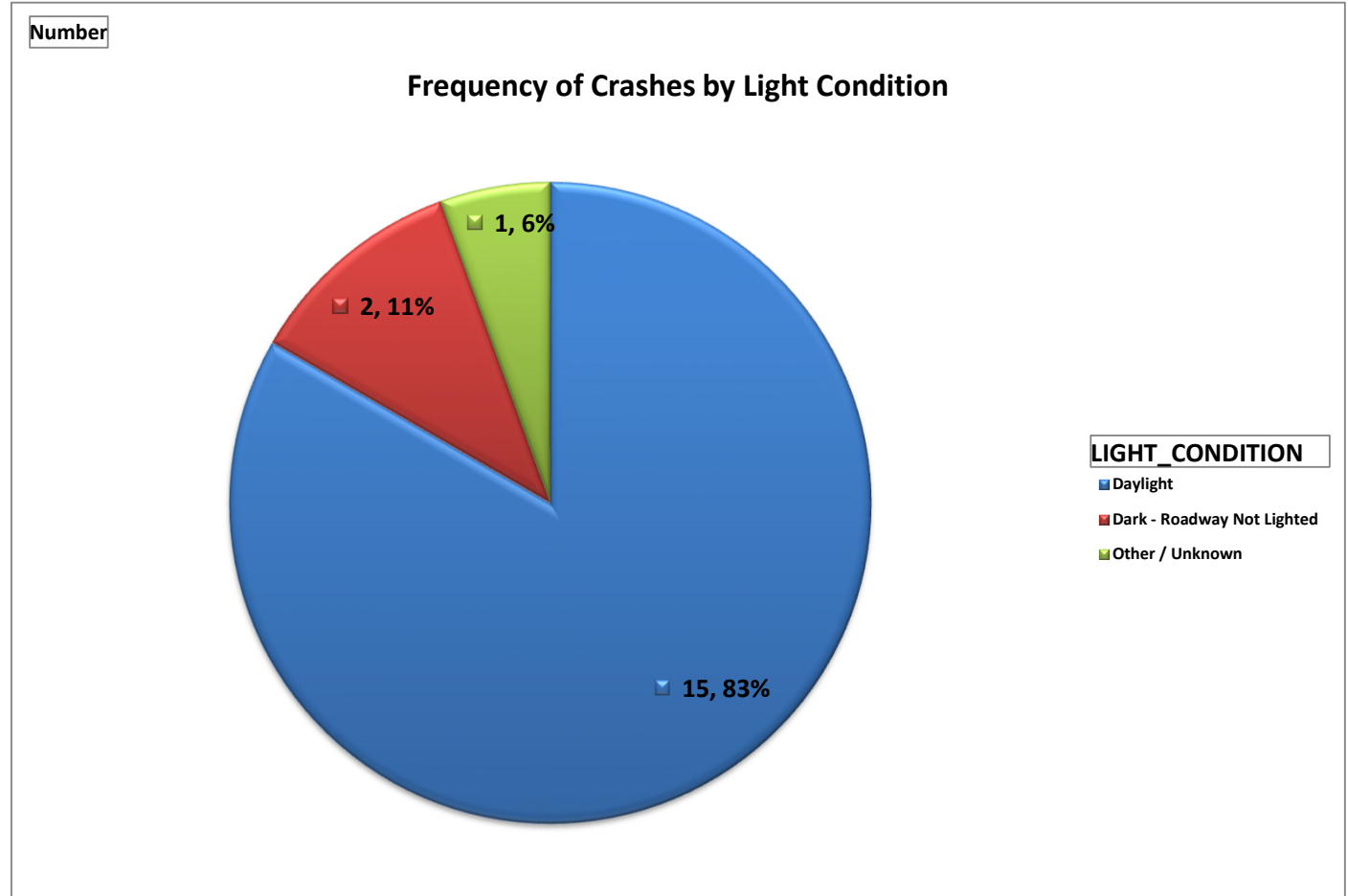
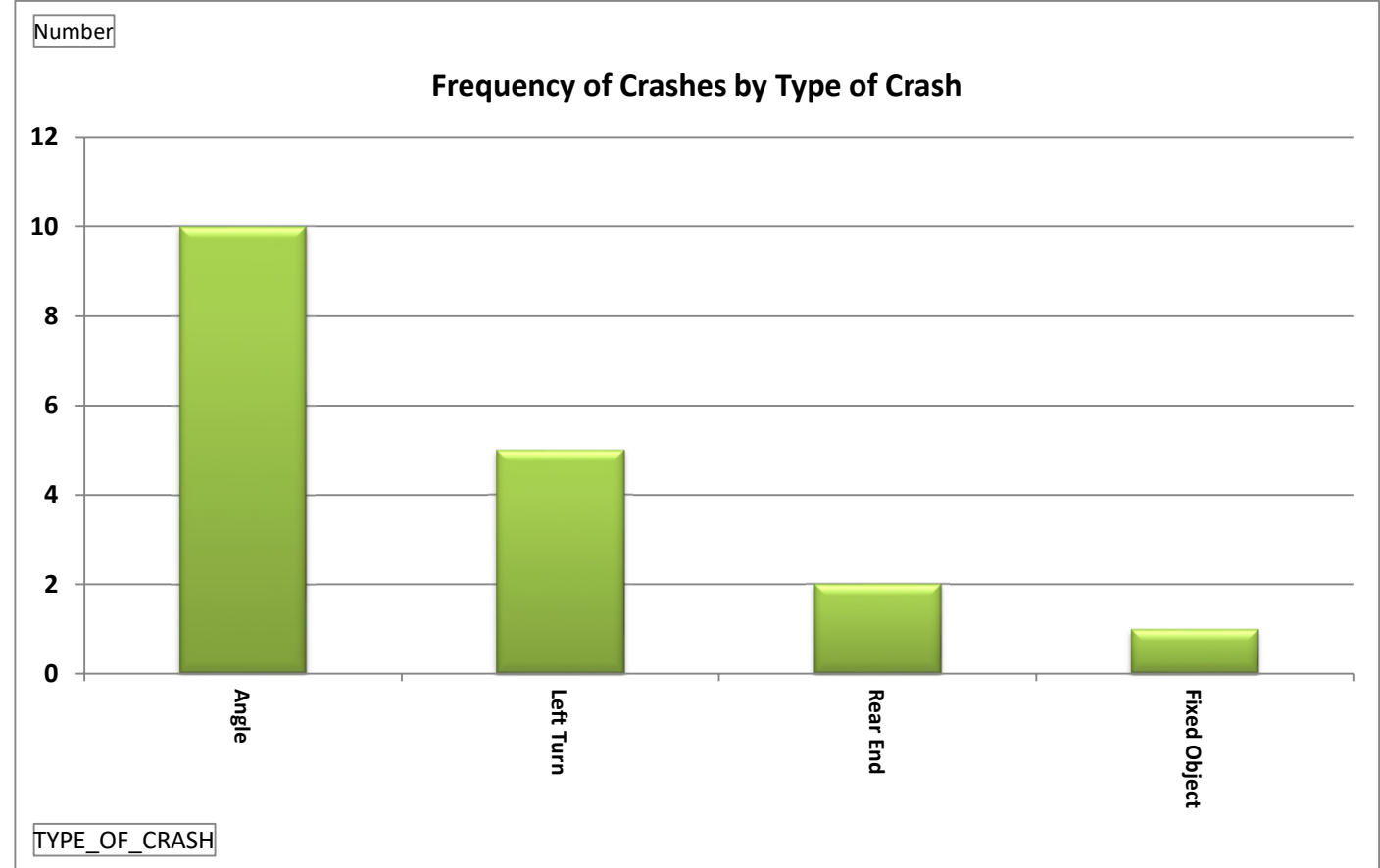
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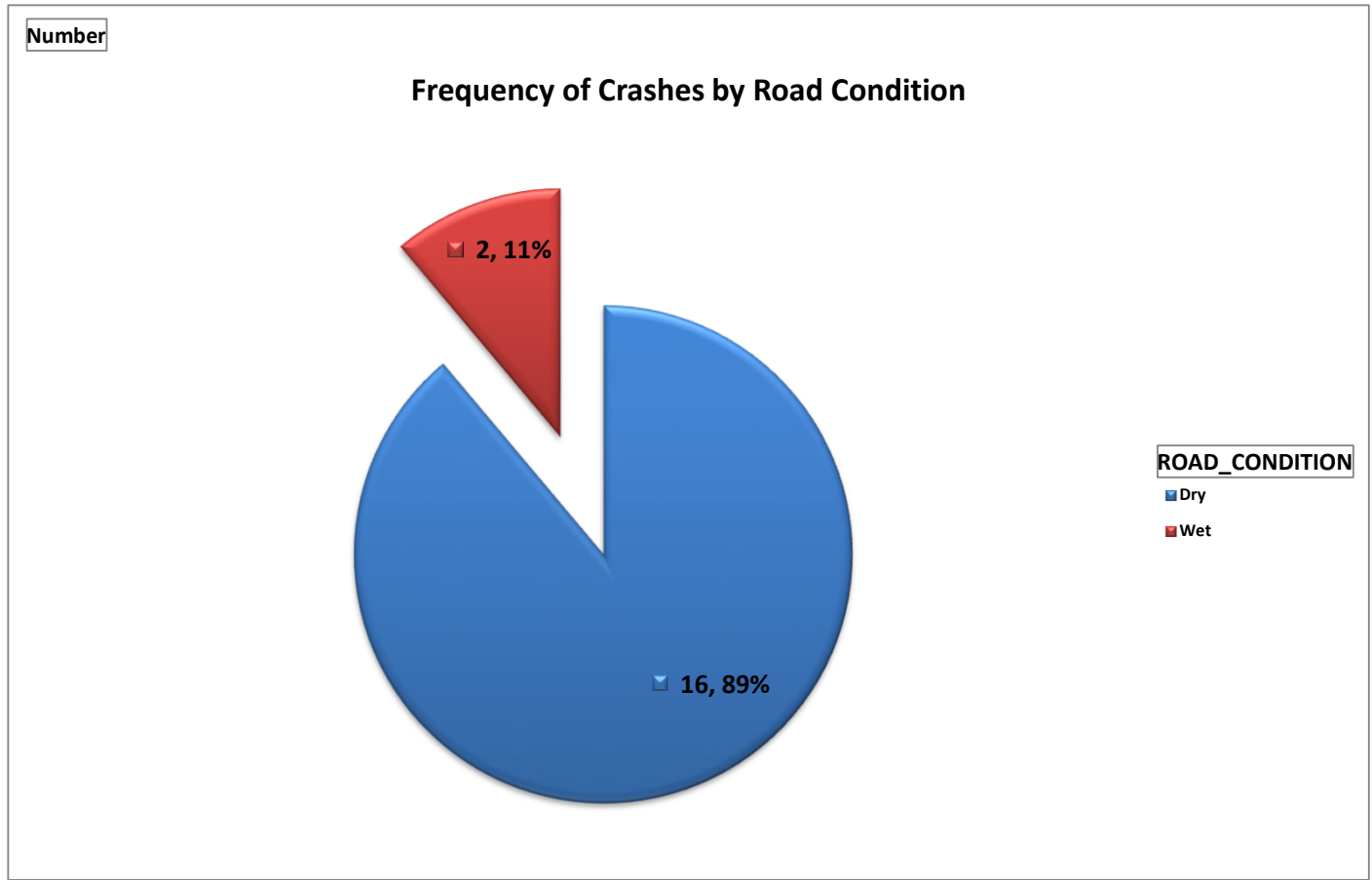
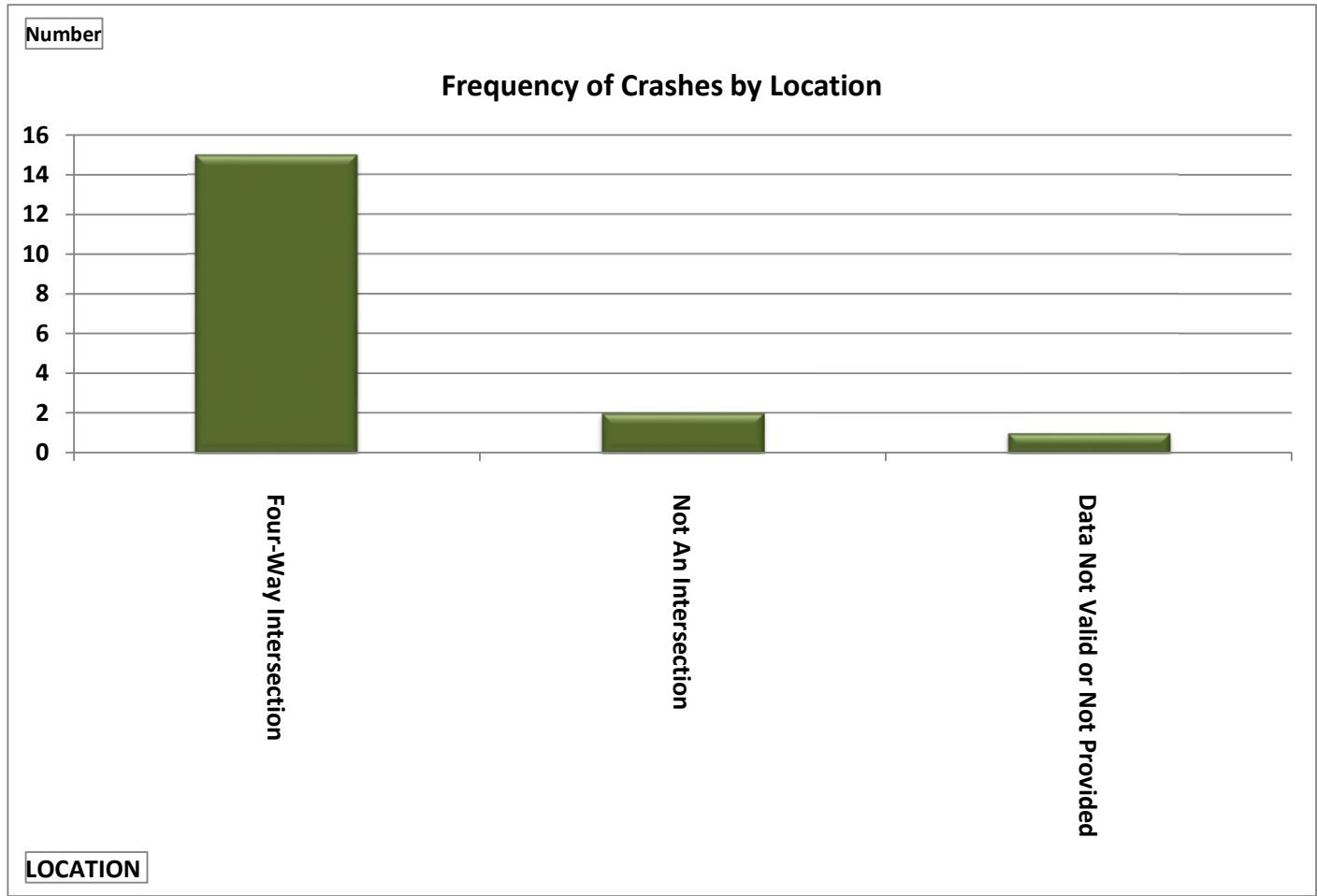
Frequency of Crashes by Month

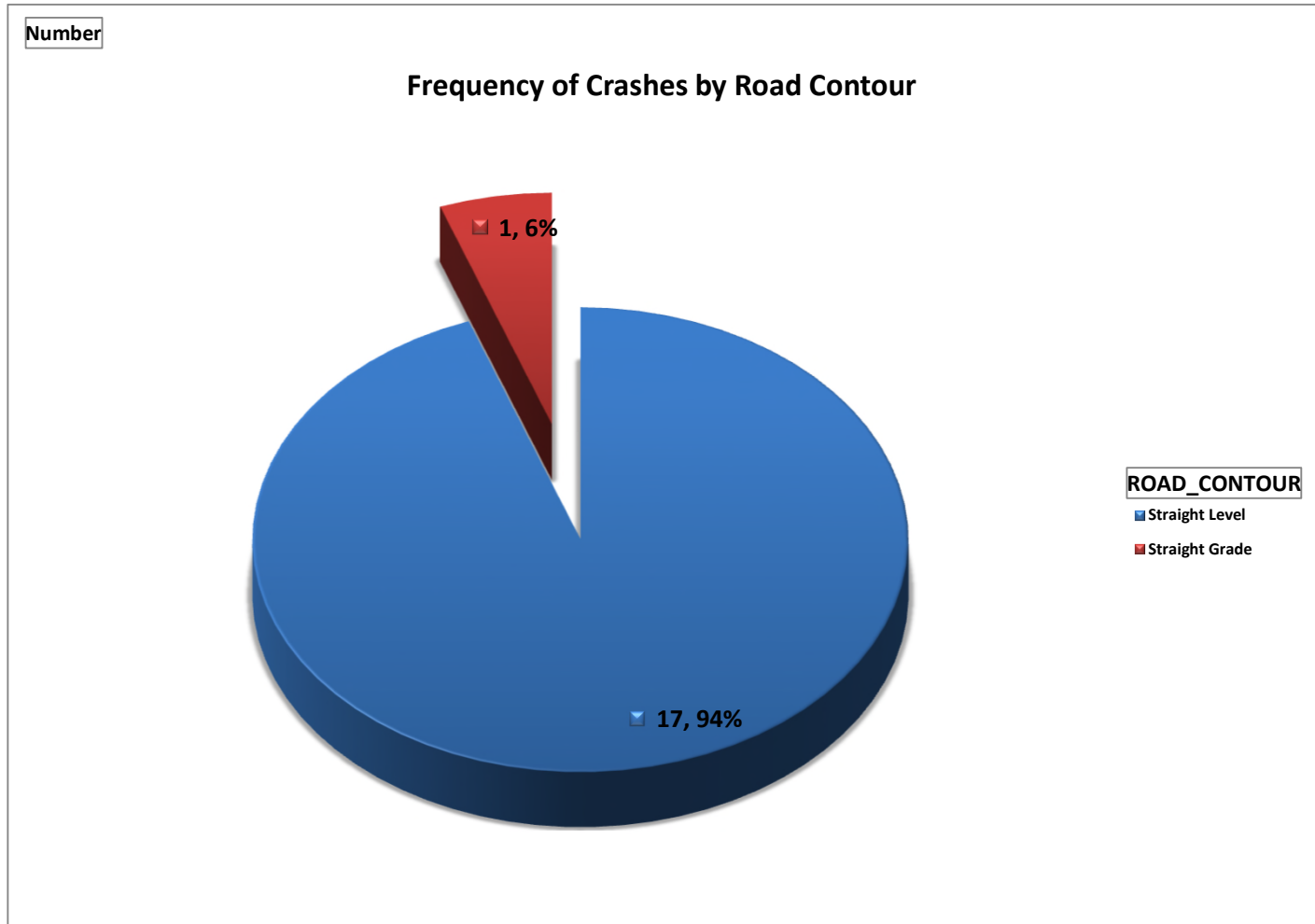
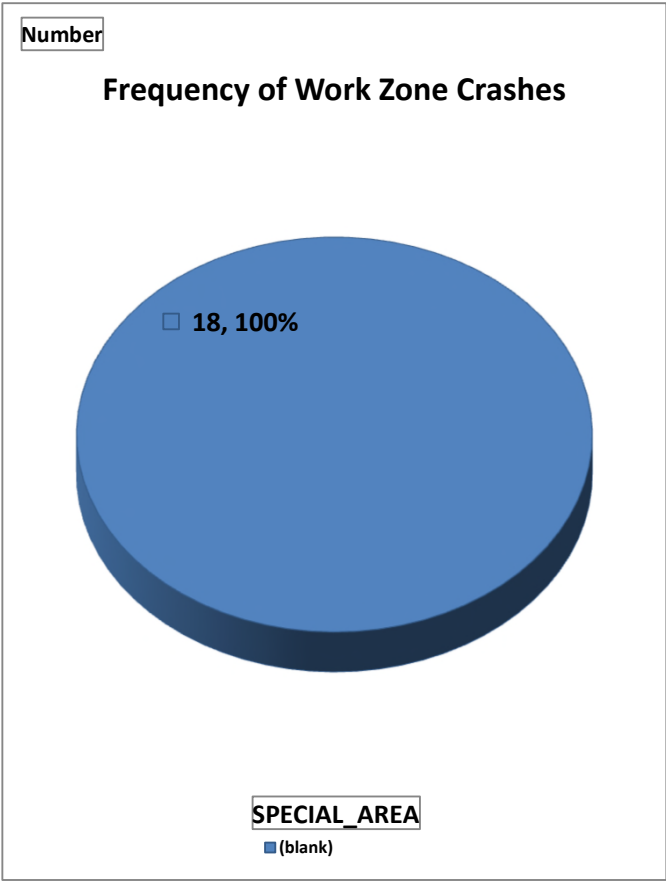
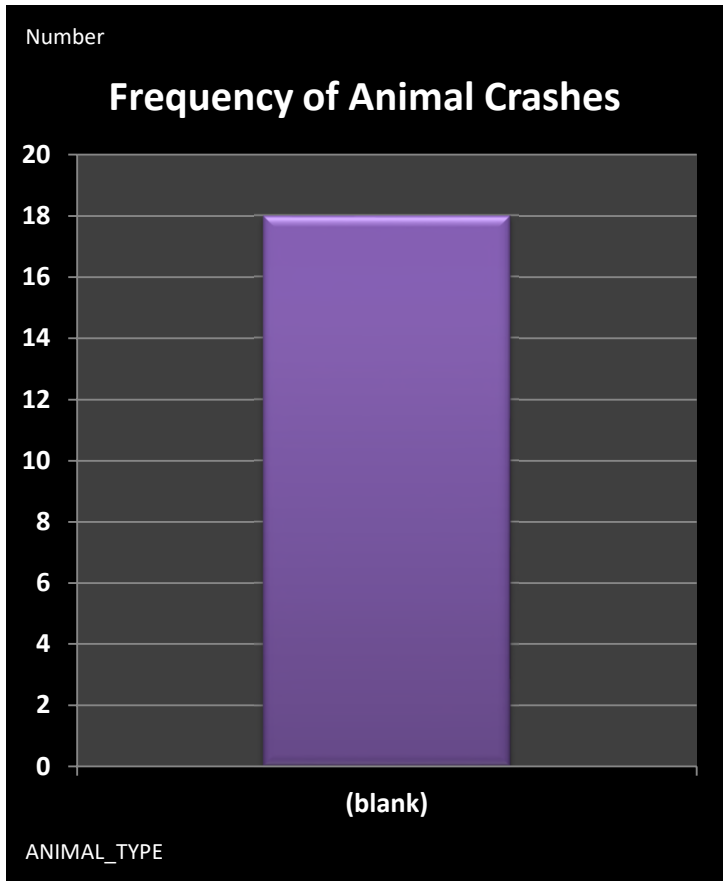


CRASH_MONTH_NBR

US 42 at Middletown Road



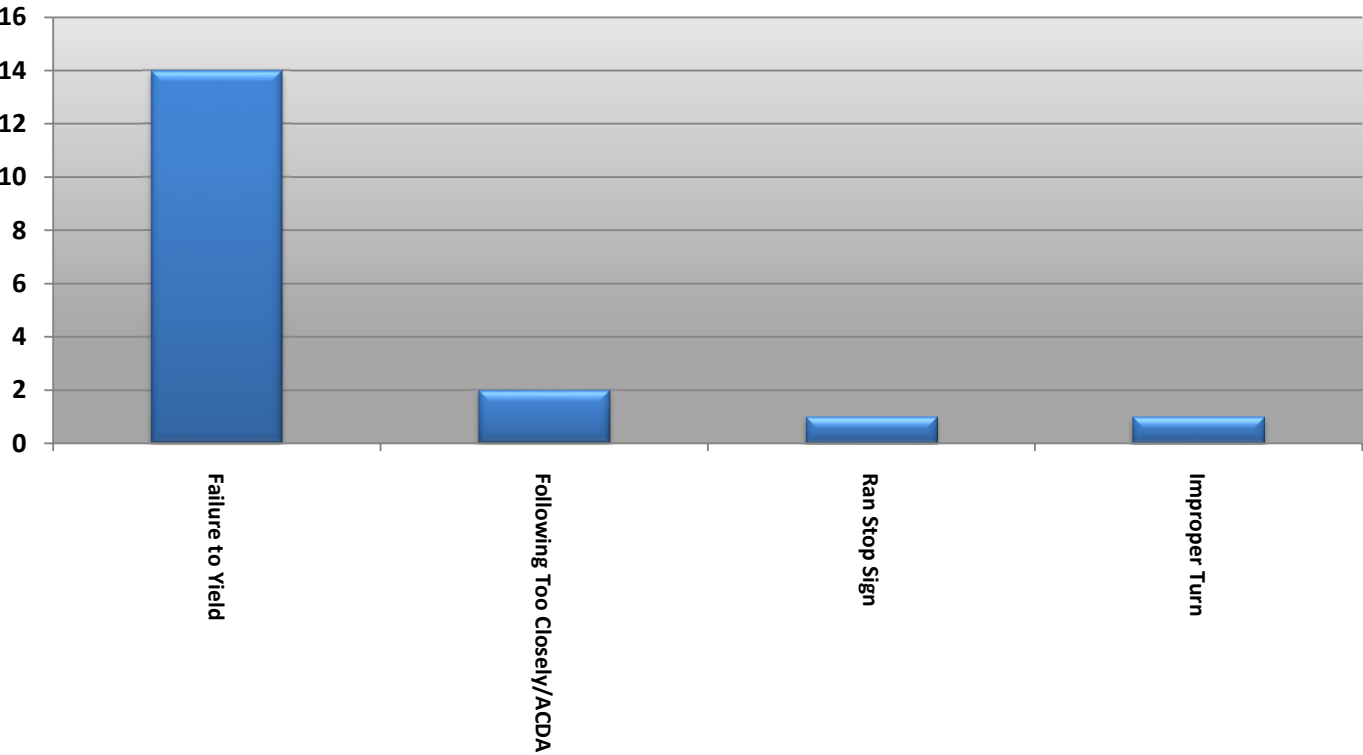




US 42 at Middletown Road

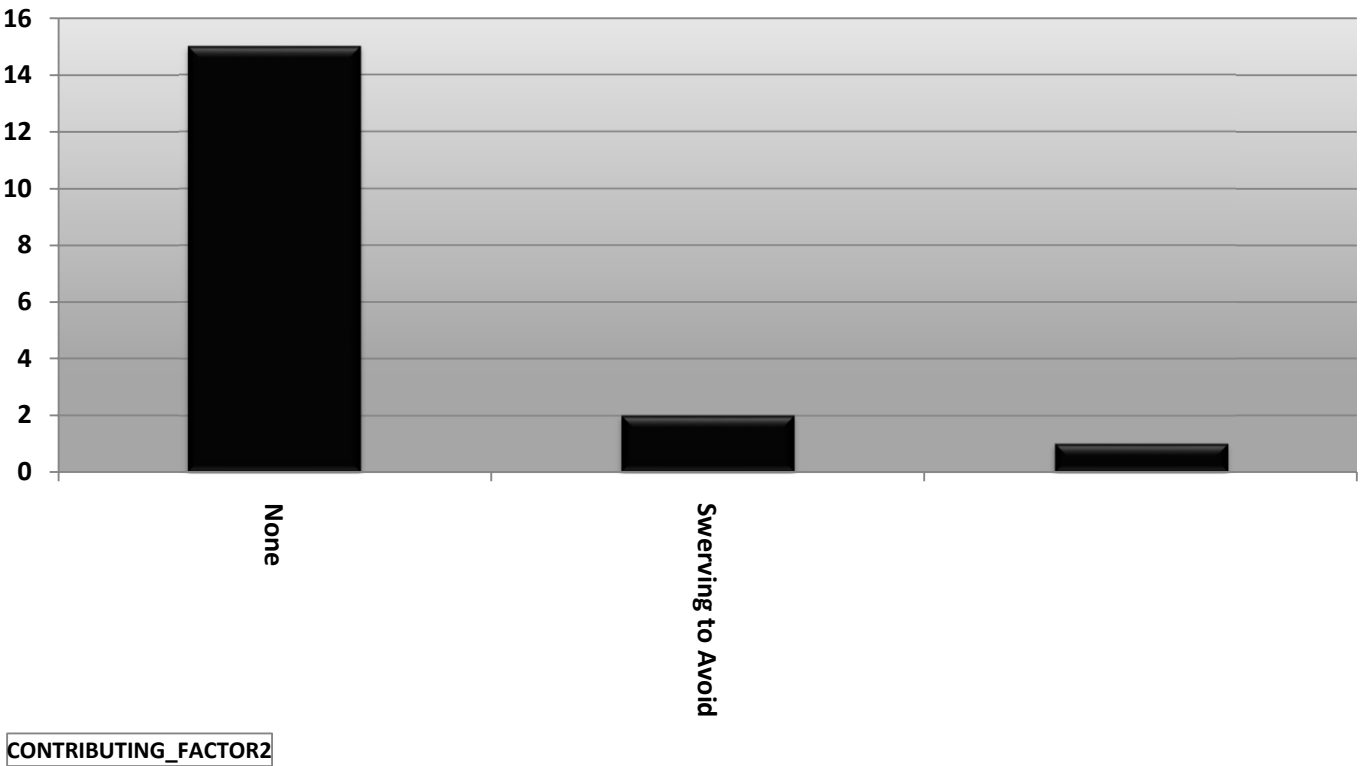


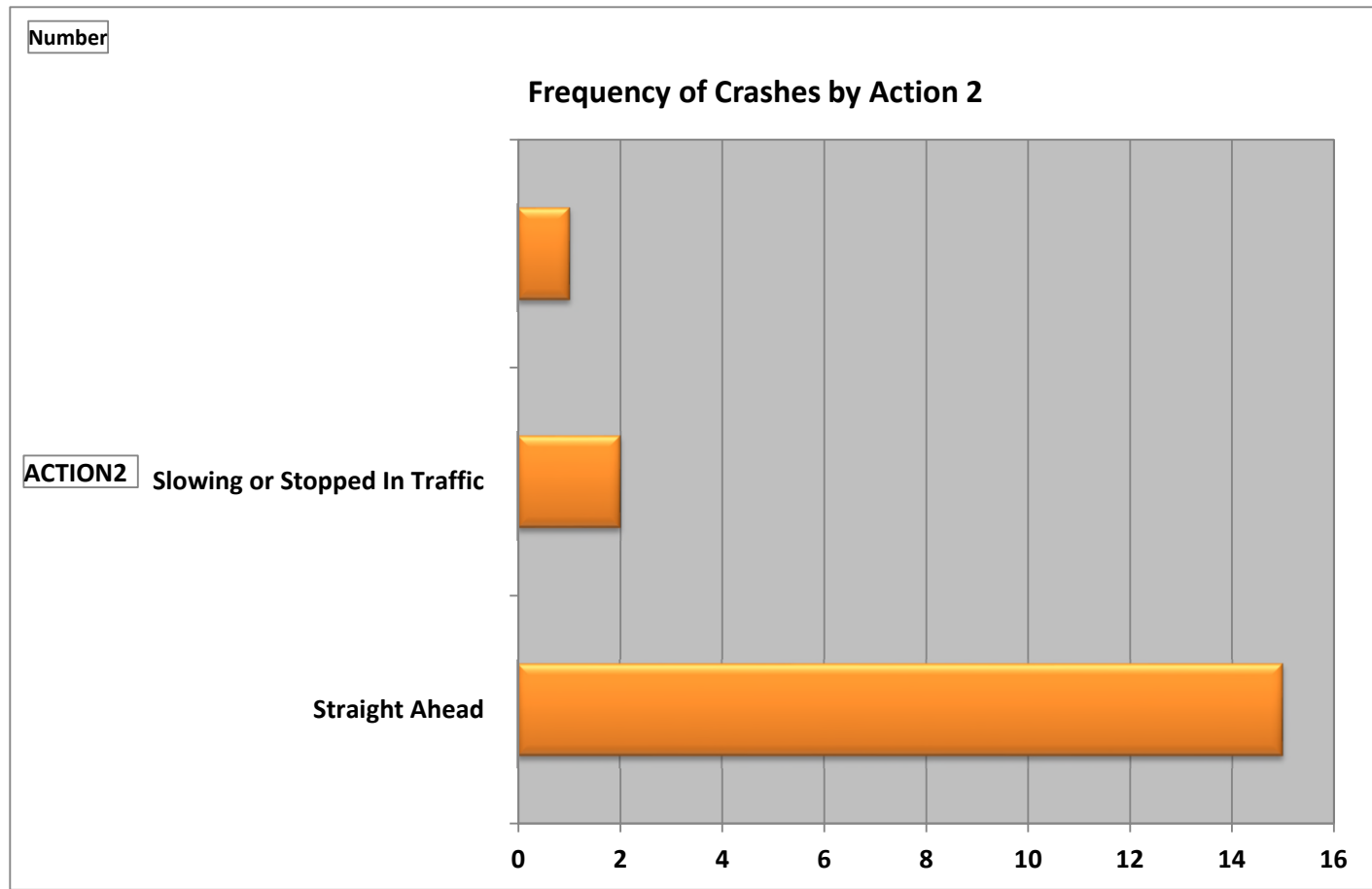
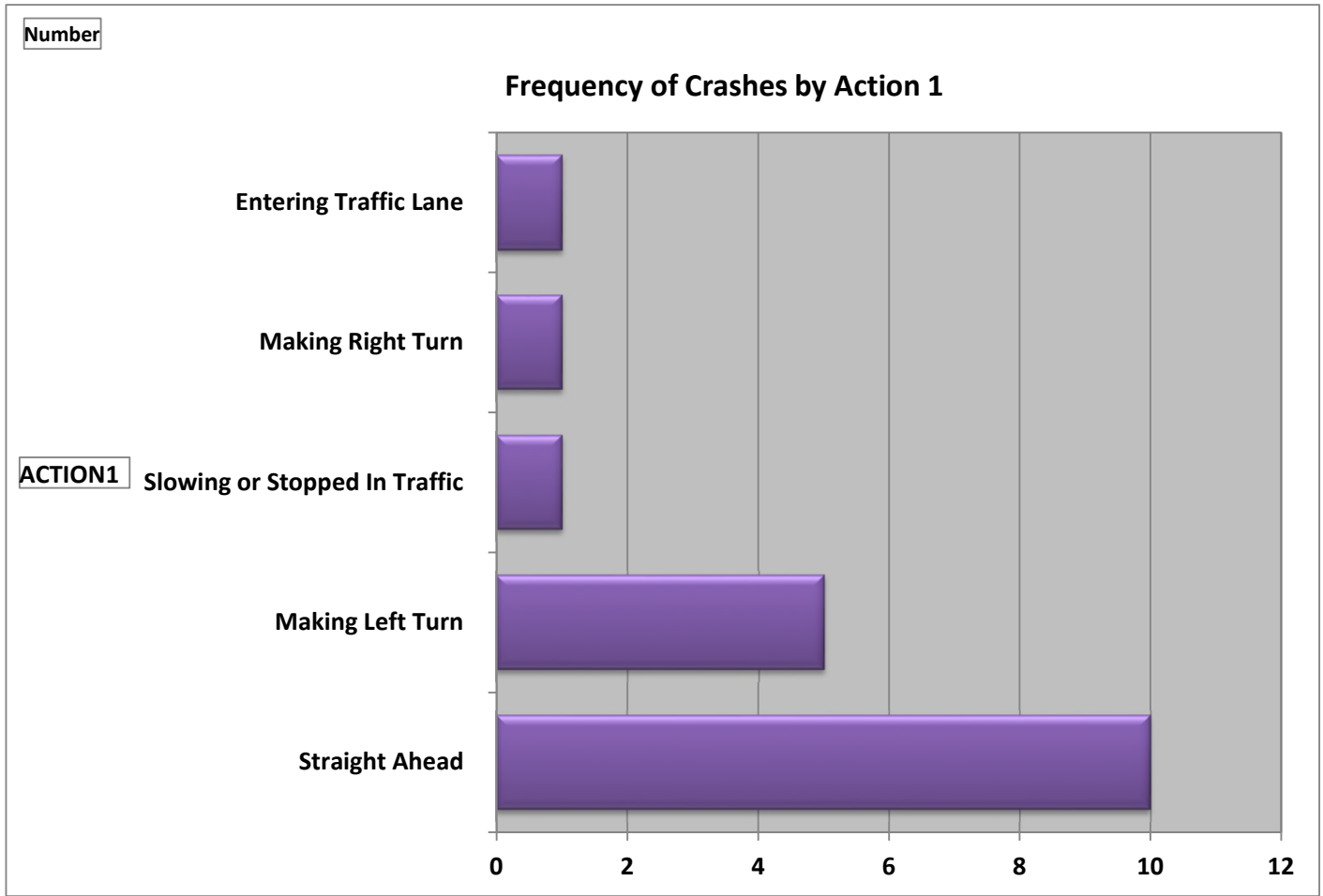
Frequency of Crashes by Contributing Factor 1

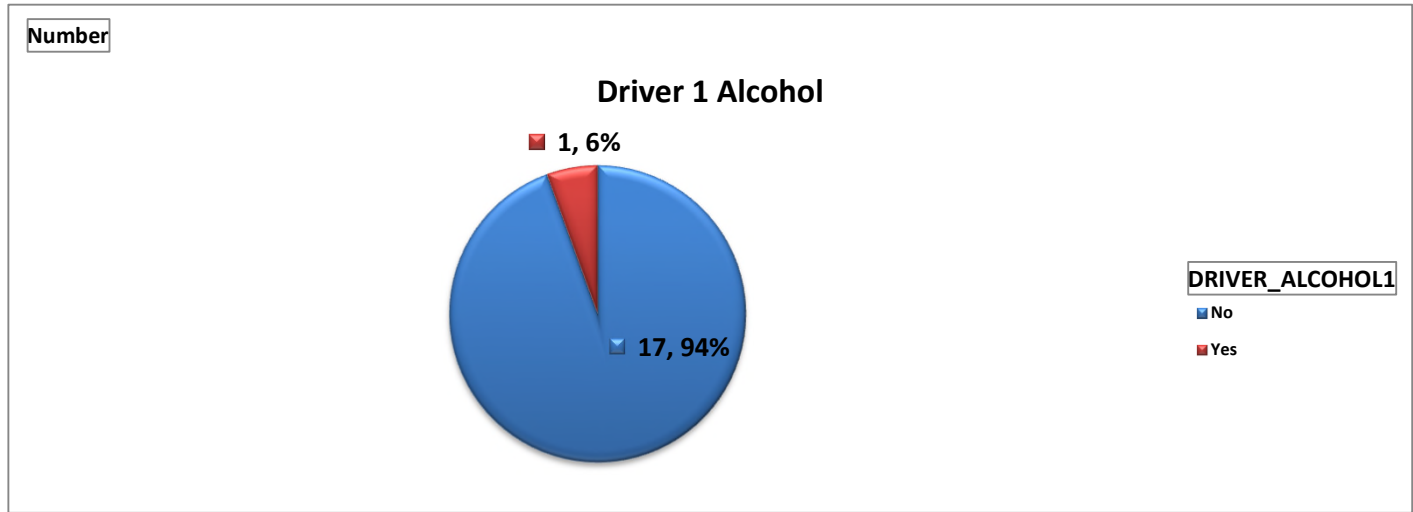
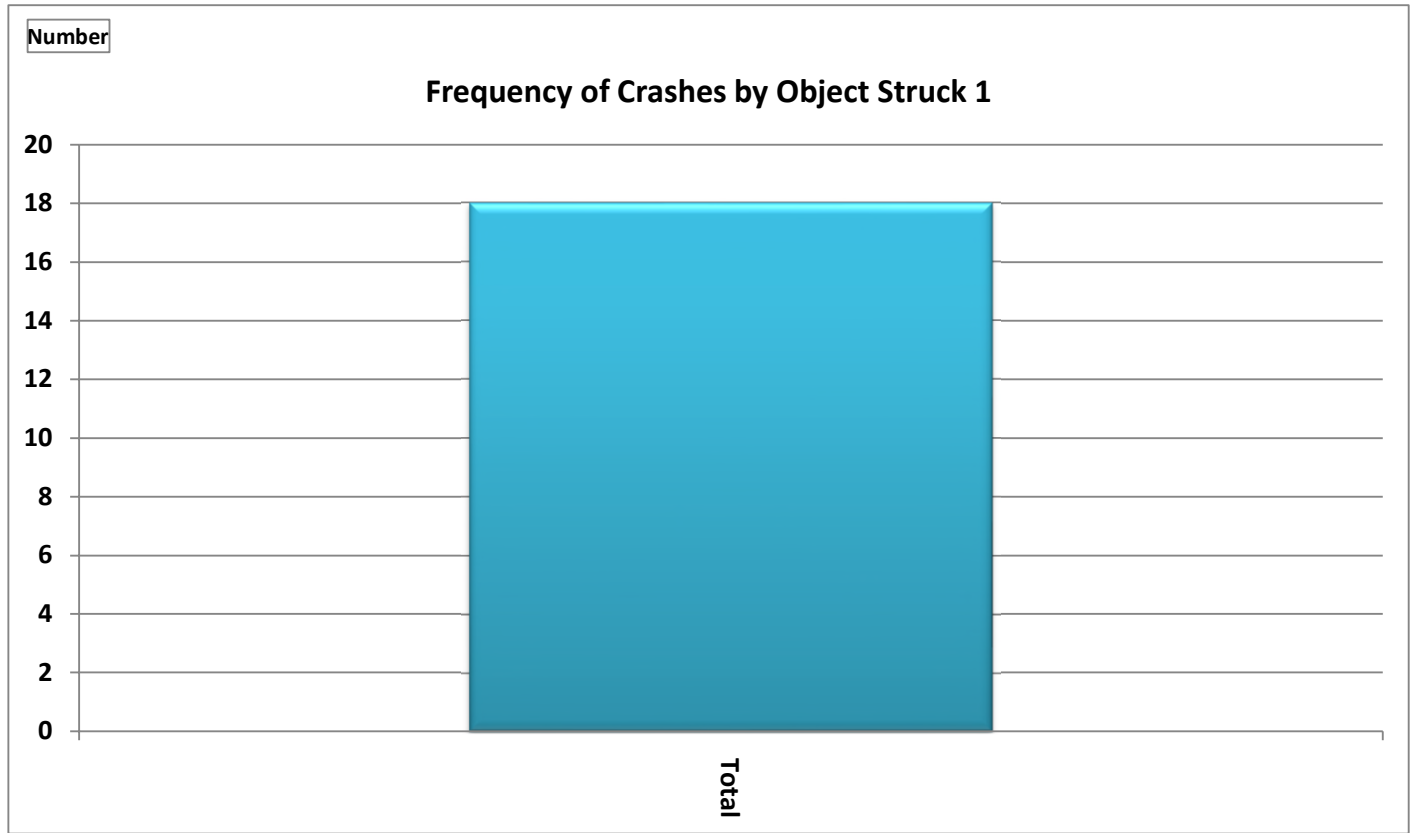


Number

Frequency of Crashes by Contributing Factor 2







Select Site Type	Int/Rur; 4-leg minor-rd STOP
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Crash Severity	Site Average		Statewide Average
	Total (2019-2022)	Total (%)	Total (%)
Fatal Crash	0	0.00%	1.26%
Serious Injury Suspected Crash	2	11.11%	5.86%
Minor Injury Suspected Crash	6	33.33%	20.07%
Injury Possible Crash	1	5.56%	10.65%
Property-Damage-Only	9	50.00%	62.17%
Total	18		

Crashes by Crash Type				
Crash Type	Total (%)		Fatal & All Injury (%)	
	Site Average	Statewide Average	Site Average	Statewide Average
Unknown	-0.01%	0.30%	-0.01%	0.10%
Head On	0.00%	1.71%	0.00%	2.19%
Rear End	11.11%	10.56%	11.11%	9.81%
Backing	0.00%	2.89%	0.00%	0.58%
Sideswipe - Meeting	0.00%	0.07%	0.00%	0.07%
Sideswipe - Passing	0.00%	7.19%	0.00%	6.31%
Angle	55.56%	38.55%	55.56%	57.45%
Parked Vehicle	0.00%	1.33%	0.00%	0.63%
Pedestrian	0.00%	0.25%	0.00%	0.66%
Animal	0.00%	11.89%	0.00%	1.13%
Train	0.00%	0.03%	0.00%	0.01%
Pedalcycles	0.00%	0.22%	0.00%	0.53%
Other Non-Vehicle	0.00%	0.00%	0.00%	0.00%
Fixed Object	5.56%	15.70%	5.56%	11.26%
Other Object	0.00%	0.39%	0.00%	0.11%
Falling From Or In Vehicle	0.00%	0.00%	0.00%	0.00%
Overturning	0.00%	1.18%	0.00%	2.00%
Other Non-Collision	0.00%	1.30%	0.00%	0.62%
Left Turn	27.78%	4.43%	27.78%	5.11%
Right Turn	0.00%	2.01%	0.00%	1.43%

Crashes by Light Conditions				
Light Conditions	Total (%)		Fatal & All Injury (%)	
	Site Average	Statewide Average	Site Average	Statewide Average
Daylight	88.24%	67.98%	88.24%	76.65%
Dawn/Dusk	0.00%	0.00%	0.00%	0.00%
Dark - Lighted Roadway	0.00%	3.65%	0.00%	2.92%
Dark - Roadway Not Lighted	11.76%	21.83%	11.76%	15.16%
Dark - Unknown Roadway Lighting	0.00%	0.36%	0.00%	0.19%
Other / Unknown	0.00%	6.18%	0.00%	5.08%

Crashes by Road Conditions				
Road Conditions	Total (%)		Fatal & All Injury (%)	
	Site Average	Statewide Average	Site Average	Statewide Average
Dry	84.21%	77.76%	84.21%	80.80%
Wet	10.53%	16.48%	10.53%	15.69%
Snow	0.00%	3.77%	0.00%	2.28%
Ice	0.00%	1.44%	0.00%	0.92%
Sand, Mud, Dirt, Oil, Gravel	0.00%	0.09%	0.00%	0.08%
Water (Standing, Moving)	0.00%	0.05%	0.00%	0.02%
Slush	0.00%	0.19%	0.00%	0.16%
Other / Unknown	5.26%	0.22%	5.26%	0.05%

APPENDIX B

Crash Analysis Module Tool Results - US 42 at Township Line Road



US 42 at Township Line Road

	Number
Total	16

CRASH_SEVERITY	Number	%
Injury Crash	5	31.3%
Property Damage Crash	11	68.8%
Grand Total	16	100.0%

TRAFFIC_CRASH_YEAR	Number	%
2019	2	12.5%
2020	7	43.8%
2021	6	37.5%
2022	1	6.3%
Grand Total	16	100.0%

DAY_OF_WEEK	Number	%
(4) Wednesday	4	25.0%
(6) Friday	4	25.0%
(1) Sunday	3	18.8%
(3) Tuesday	2	12.5%
(2) Monday	2	12.5%
(5) Thursday	1	6.3%
Grand Total	16	100.0%

HOUR_OF_DAY	Number	%
7	2	12.5%
8	1	6.3%
9	2	12.5%
10	1	6.3%
11	1	6.3%
13	1	6.3%
14	3	18.8%
15	1	6.3%
16	1	6.3%
17	1	6.3%
20	1	6.3%
21	1	6.3%
Grand Total	16	100.0%

TYPE_OF_CRASH	Number	%
Rear End	6	37.5%
Animal	3	18.8%
Angle	3	18.8%
Other Non-Collision	2	12.5%
Fixed Object	2	12.5%
Grand Total	16	100.0%

US 42 at Township Line Road

WEATHER_CONDITION	Number	%
Clear	7	43.8%
Cloudy	6	37.5%
Rain	3	18.8%
Grand Total	16	100.0%

ROAD_CONDITION	Number	%
Dry	12	75.0%
Wet	4	25.0%
Grand Total	16	100.0%

LIGHT_CONDITION	Number	%
Daylight	12	75.0%
Dawn/Dusk	3	18.8%
Dark - Roadway Not Lighted	1	6.3%
Grand Total	16	100.0%

NUMBER_OF_VEHICLES	Number	%
1	6	37.5%
2	9	56.3%
3	1	6.3%
Grand Total	16	100.0%

LOCATION	Number	%
Not An Intersection	8	50.0%
T-Intersection	7	43.8%
Data Not Valid or Not Provided	1	6.3%
Grand Total	16	100.0%

CRASH_MONTH_NBR	Number	%
1	1	6.3%
3	3	18.8%
5	1	6.3%
7	3	18.8%
8	1	6.3%
9	2	12.5%
10	3	18.8%
11	1	6.3%
12	1	6.3%
Grand Total	16	100.0%

ROAD_CONTOUR	Number	%
Straight Level	14	87.5%
Straight Grade	2	12.5%
Grand Total	16	100.0%

SPECIAL_AREA	Number	%
(blank)	16	100.0%
Grand Total	16	100.0%

ANIMAL_TYPE	Number	%
(blank)	16	100.0%
Grand Total	16	100.0%

US 42 at Township Line Road

ACTION1	Number	%
Straight Ahead	10	62.5%
Making Left Turn	4	25.0%
Making Right Turn	1	6.3%
Entering Traffic Lane	1	6.3%
Grand Total	16	100.0%

CONTRIBUTING_FACTOR1	Number	%
Following Too Closely/ACDA	6	37.5%
None	3	18.8%
Drove off Road	3	18.8%
Other Improper Action	1	6.3%
Improper Start From a Parked Position	1	6.3%
Ran Stop Sign	1	6.3%
Failure to Yield	1	6.3%
Grand Total	16	100.0%

	Number	%
Total	16	100.0%

TRAFFIC_CONTROL1	Number	%
No Control	11	68.8%
Stop Sign	5	31.3%
Grand Total	16	100.0%

DRIVER_ALCOHOL1	Number	%
No	16	100.0%
Grand Total	16	100.0%

DRIVER_DRUGS1	Number	%
No	16	100.0%
Grand Total	16	100.0%

US 42 at Township Line Road

DIRECTION_FROM1	Number	%
North	6	37.5%
Northeast	5	31.3%
Southwest	5	31.3%
Grand Total	16	100.0%

DIRECTION_TO1	Number	%
Southwest	6	37.5%
Northeast	6	37.5%
South	2	12.5%
North	1	6.3%
East	1	6.3%
Grand Total	16	100.0%

POSTED_SPEED1	Number	%
55	15	93.8%
50	1	6.3%
Grand Total	16	100.0%

ESTIMATED_SPEED1	Number	%
50	5	31.3%
45	2	12.5%
2	2	12.5%
35	2	12.5%
60	1	6.3%
40	1	6.3%
20	1	6.3%
10	1	6.3%
5	1	6.3%
Grand Total	16	100.0%

VEHICLE_TYPE1	Number	%
Pick up	4	25.0%
Sport Utility Vehicle	4	25.0%
Passenger Car	4	25.0%
Semi-Tractor	2	12.5%
Cargo Van	1	6.3%
Motorcycle 2 Wheeled	1	6.3%
Grand Total	16	100.0%

VEHICLE_TYPE2	Number	%
Sport Utility Vehicle	6	37.5%
Passenger Car	5	31.3%
Passenger Car	2	12.5%
Pick up	2	12.5%
Passenger Van (minivan)	1	6.3%
Grand Total	16	100.0%

US 42 at Township Line Road

ACTION2	Number	%
	6	37.5%
Slowing or Stopped In Traffic	4	25.0%
Straight Ahead	3	18.8%
Making Left Turn	2	12.5%
Making Right Turn	1	6.3%
Grand Total	16	100.0%

CONTRIBUTING_FACTOR2	Number	%
None	9	56.3%
	6	37.5%
Failure to Yield	1	6.3%
Grand Total	16	100.0%

DIRECTION_FROM2	Number	%
	6	37.5%
Southwest	4	25.0%
North	3	18.8%
Northeast	3	18.8%
Grand Total	16	100.0%

DIRECTION_TO2	Number	%
	6	37.5%
Northeast	4	25.0%
Southwest	3	18.8%
North	2	12.5%
South	1	6.3%
Grand Total	16	100.0%

DRIVER_ALCOHOL2	Number	%
(blank)	16	100.0%
Grand Total	16	100.0%

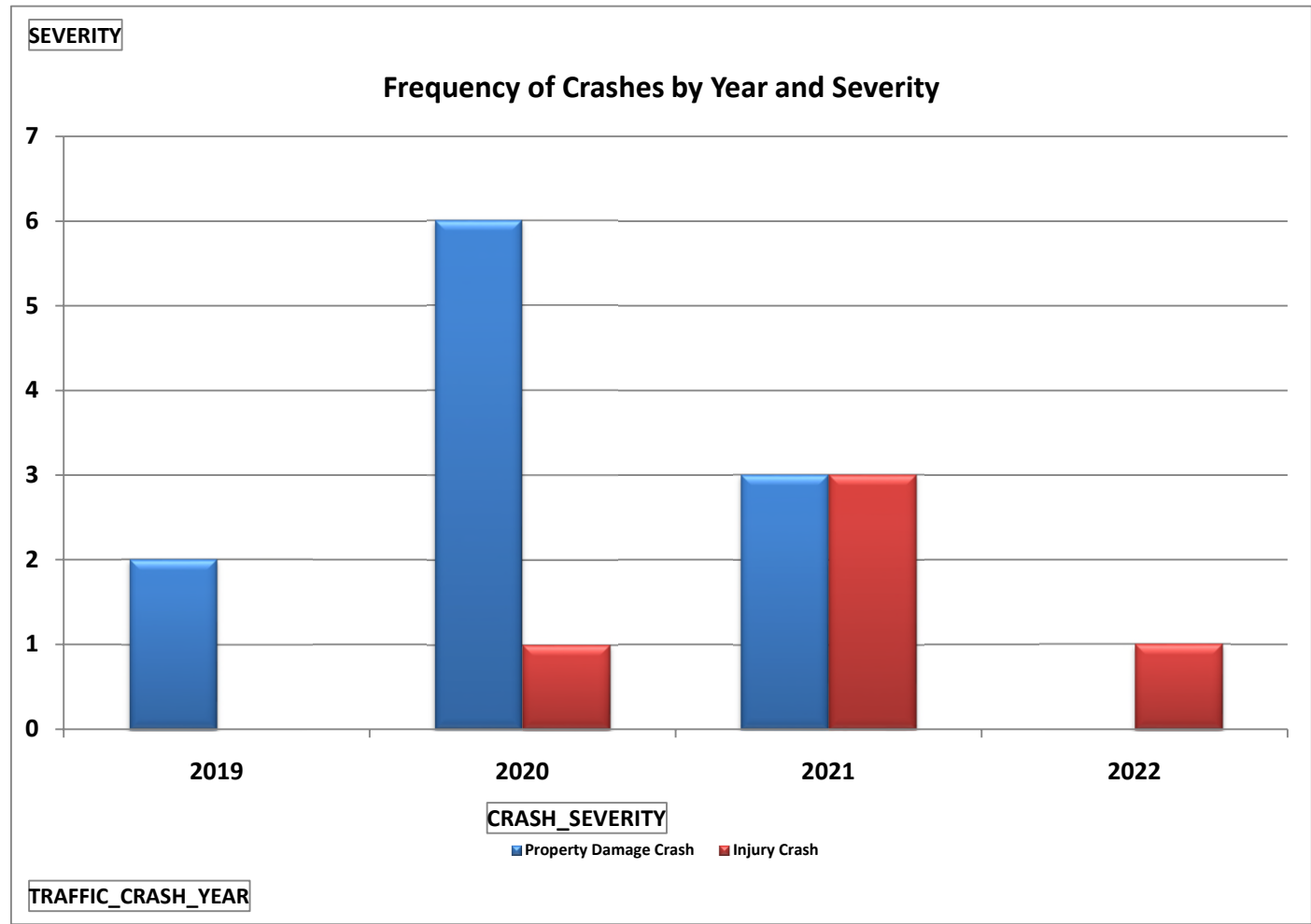
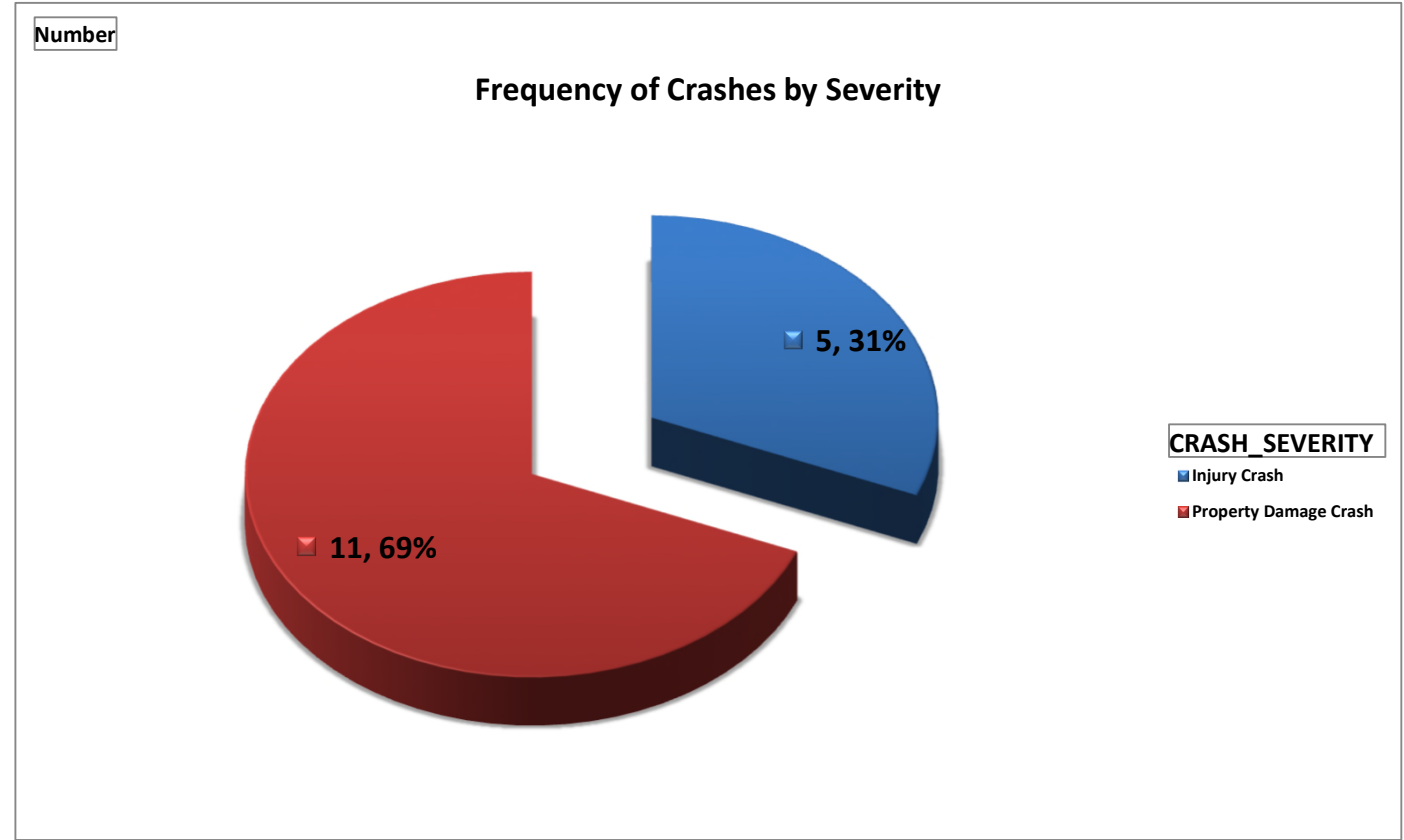
DRIVER_DRUGS2	Number	%
(blank)	16	100.0%
Grand Total	16	100.0%

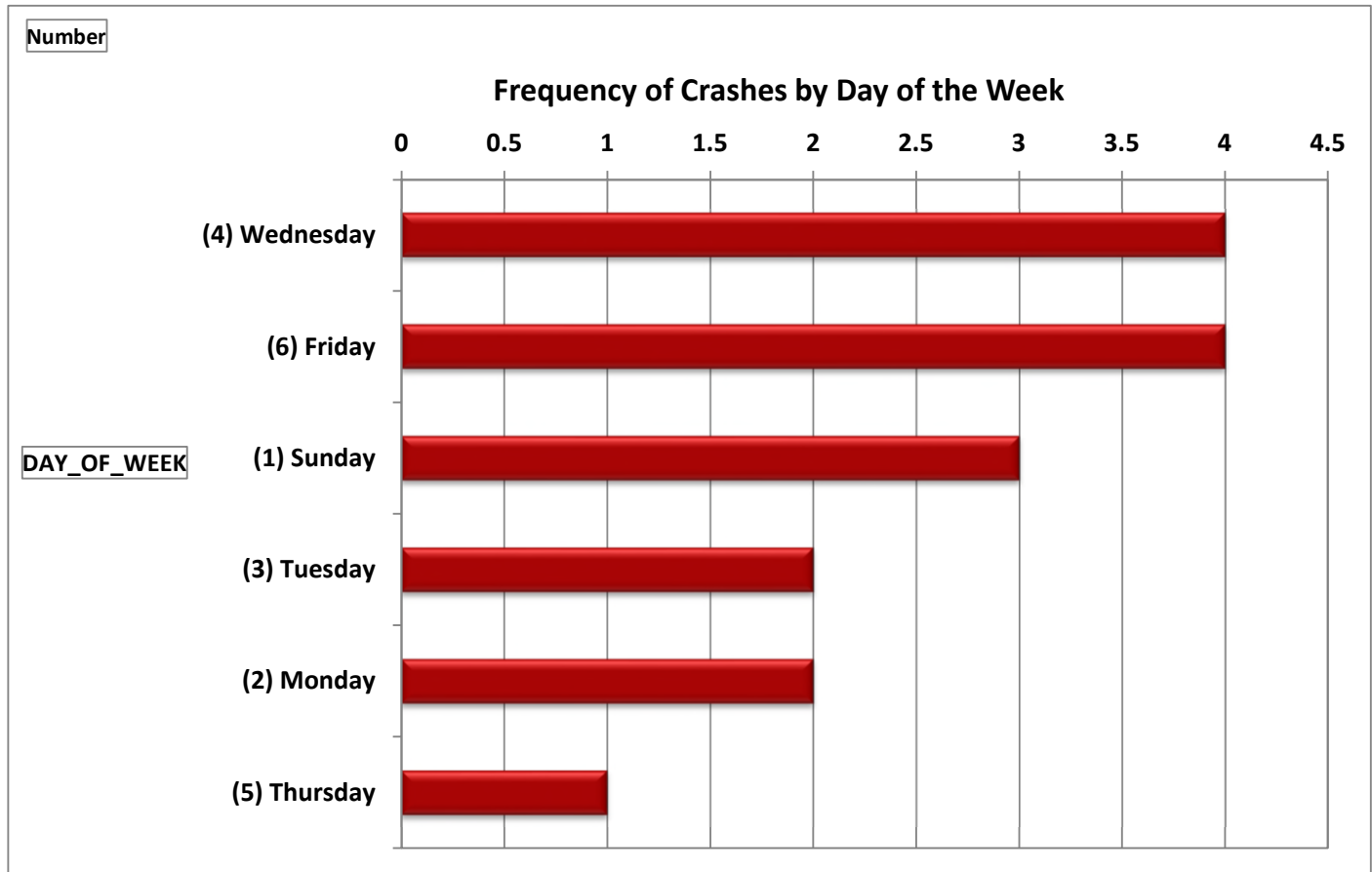
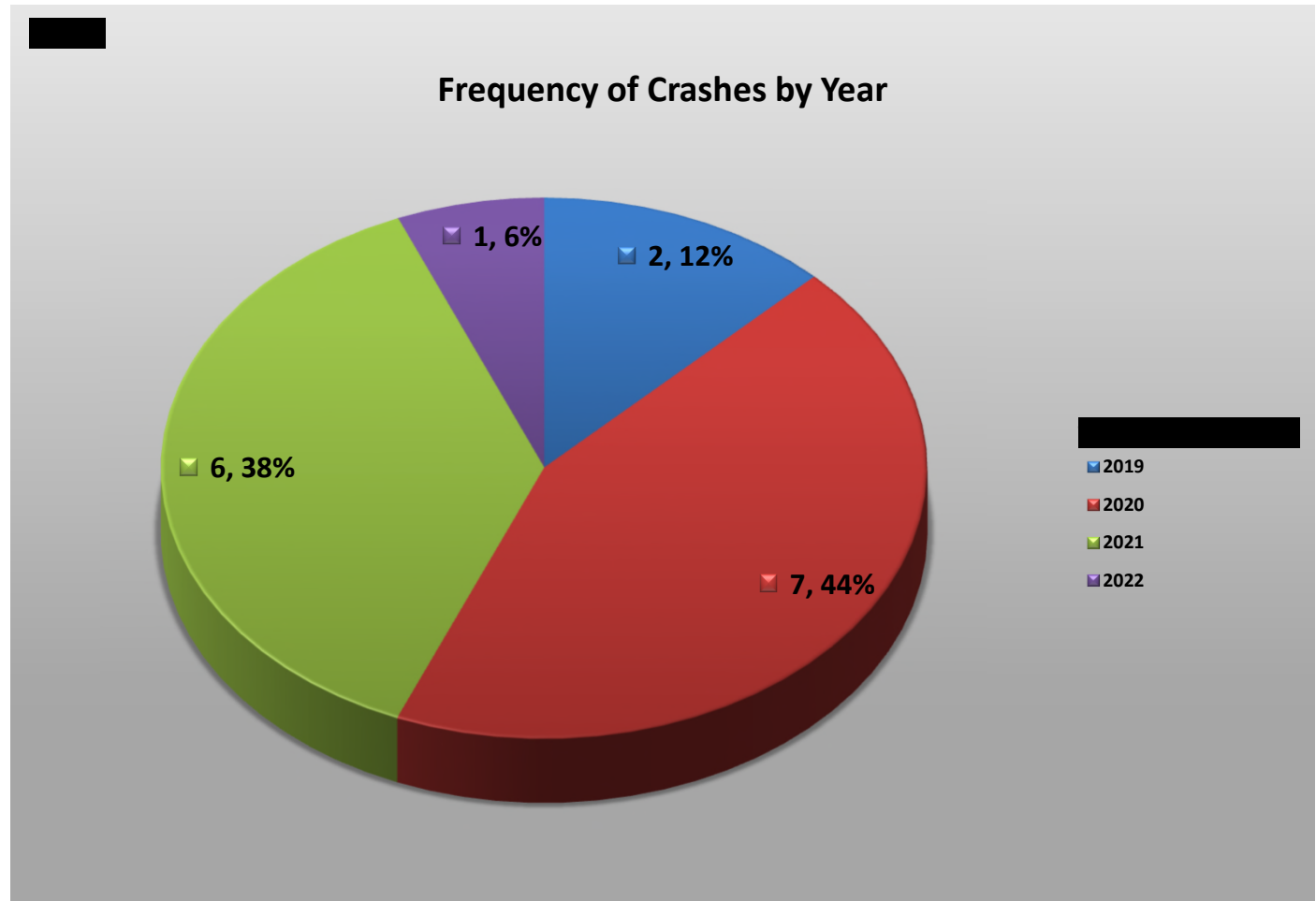
US 42 at Township Line Road

SEVERITY	CRASH_SEVERITY	
TRAFFIC_CRASH_YEAR	Property Damage Crash	Injury Crash
2019	2	0
2020	6	1
2021	3	3
2022	0	1
Grand Total	11	5

TRAFFIC_CRASH_YEAR	Fatalities	Incapacitating Injuries
2019	0	0
2020	0	0
2021	0	1
2022	0	0
Grand Total	0	1

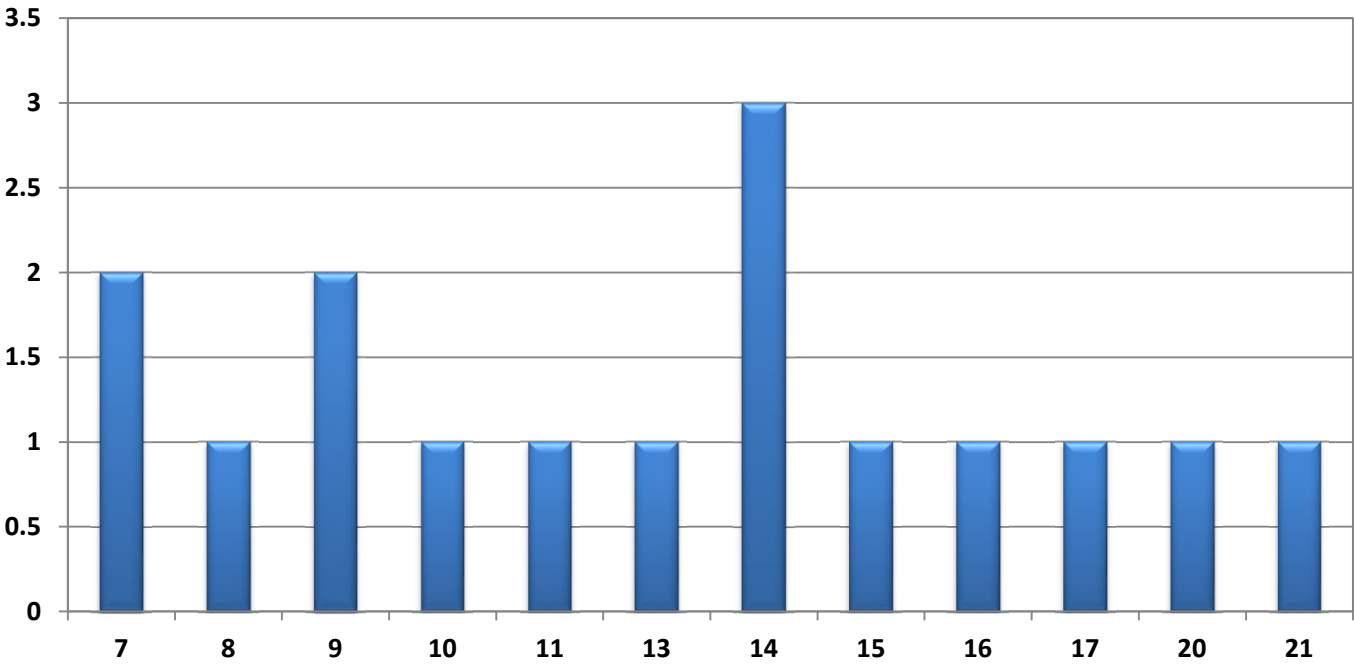
TRAFFIC_CRASH_YEAR	INJ_TYPE2_SERIOUS_VISIBLE	INJ_TYPE3_MINOR_VISIBLE	INJ_TYPE4_NO_VISIBLE
2019	0	0	0
2020	0	1	0
2021	1	5	0
2022	0	3	0
Grand Total	1	9	0





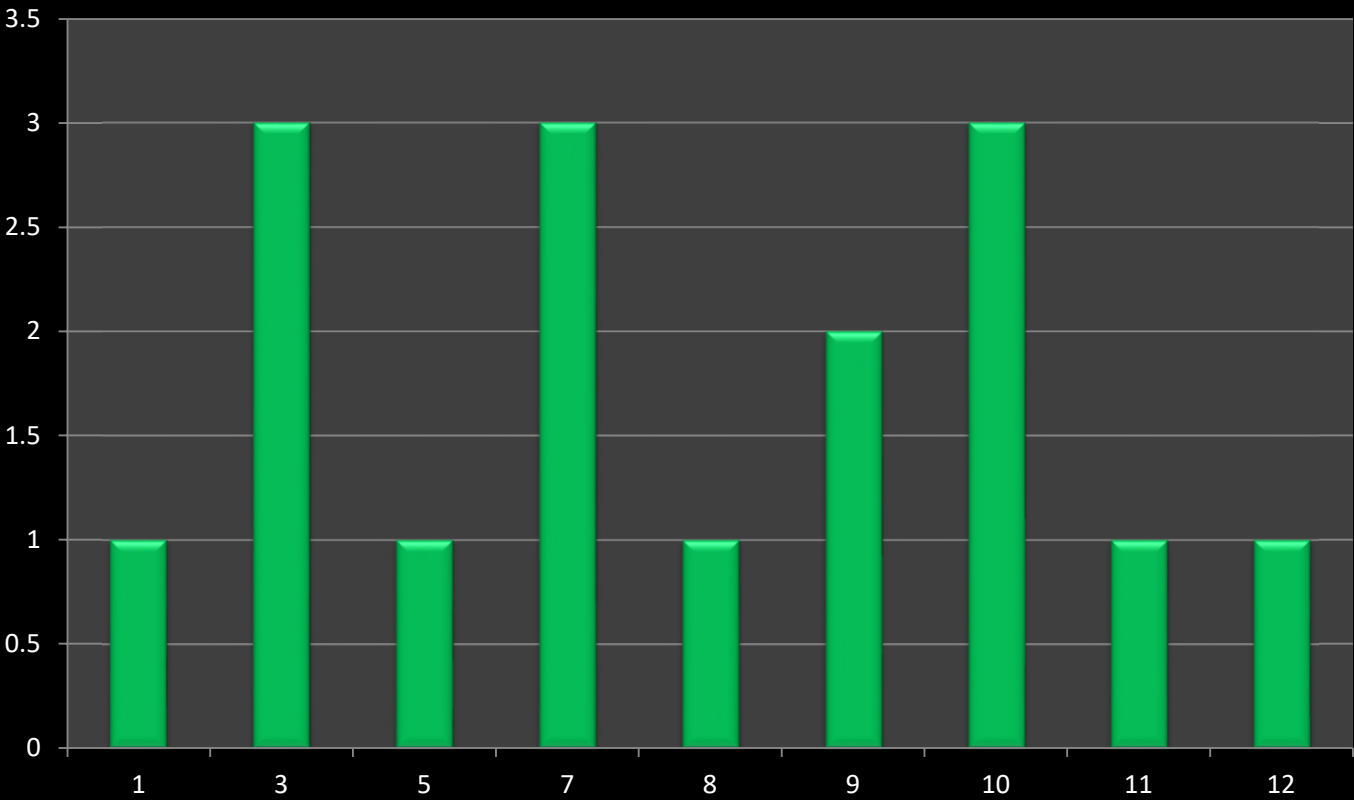


Frequency of Crashes by Hour



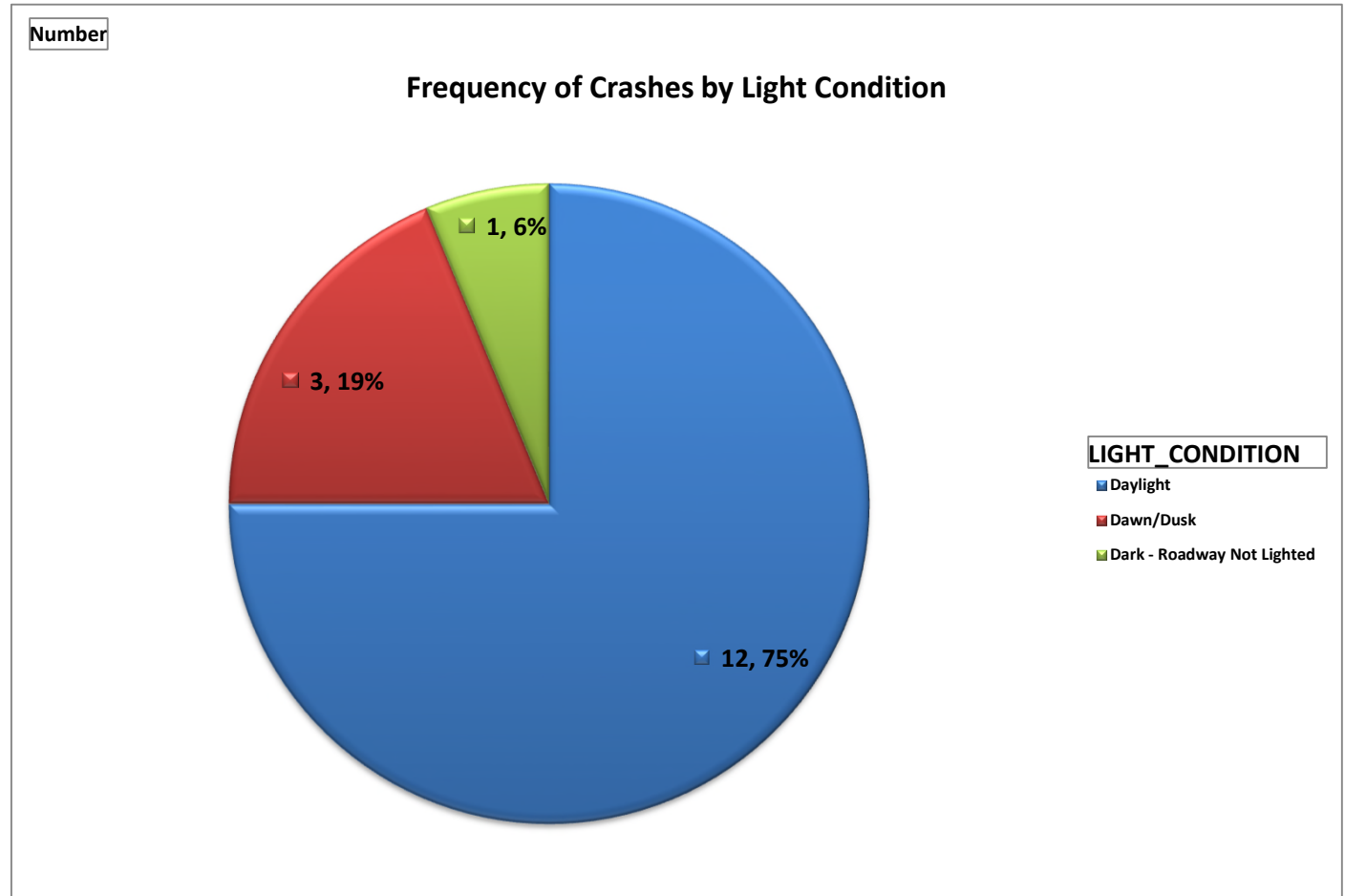
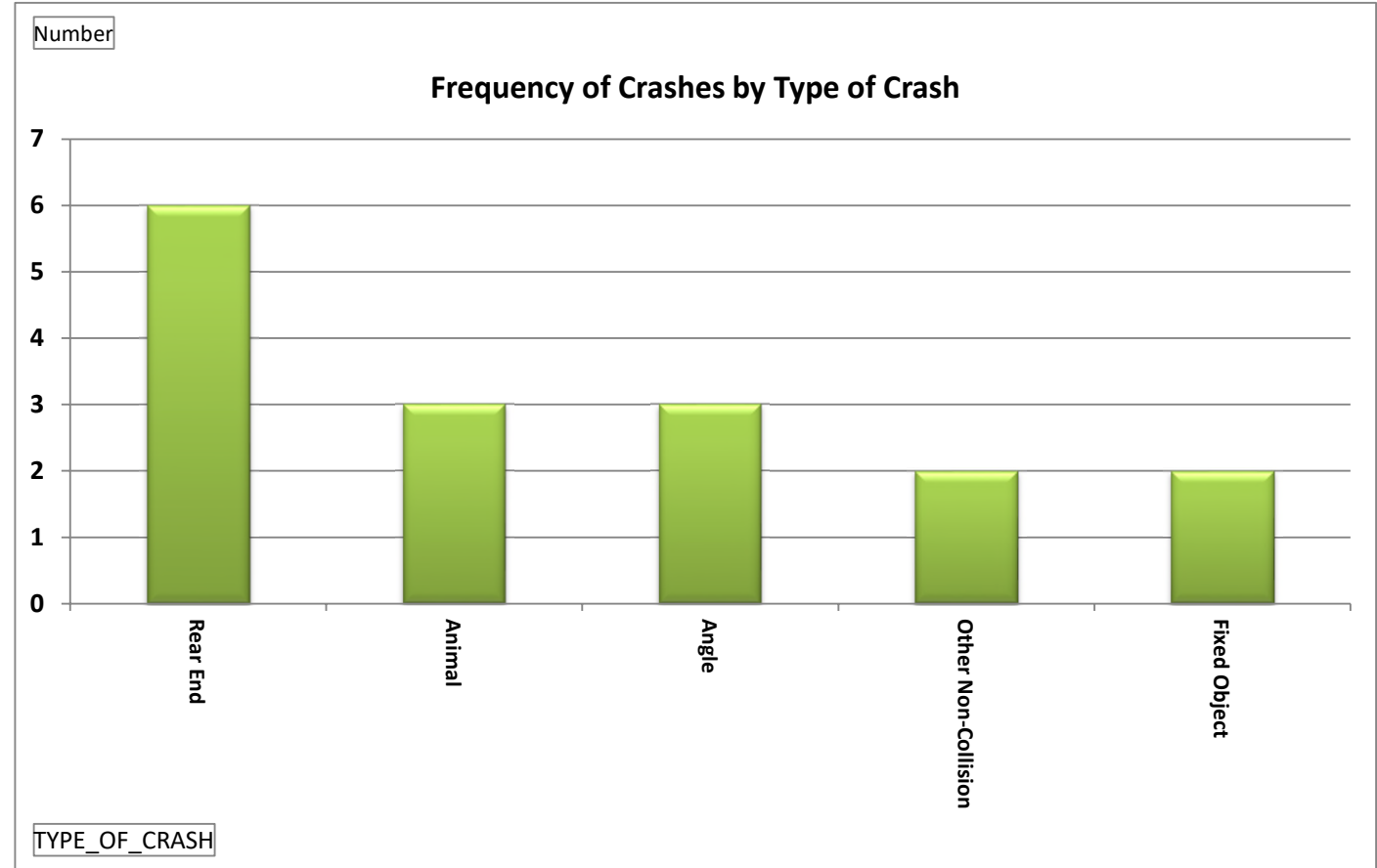
Number

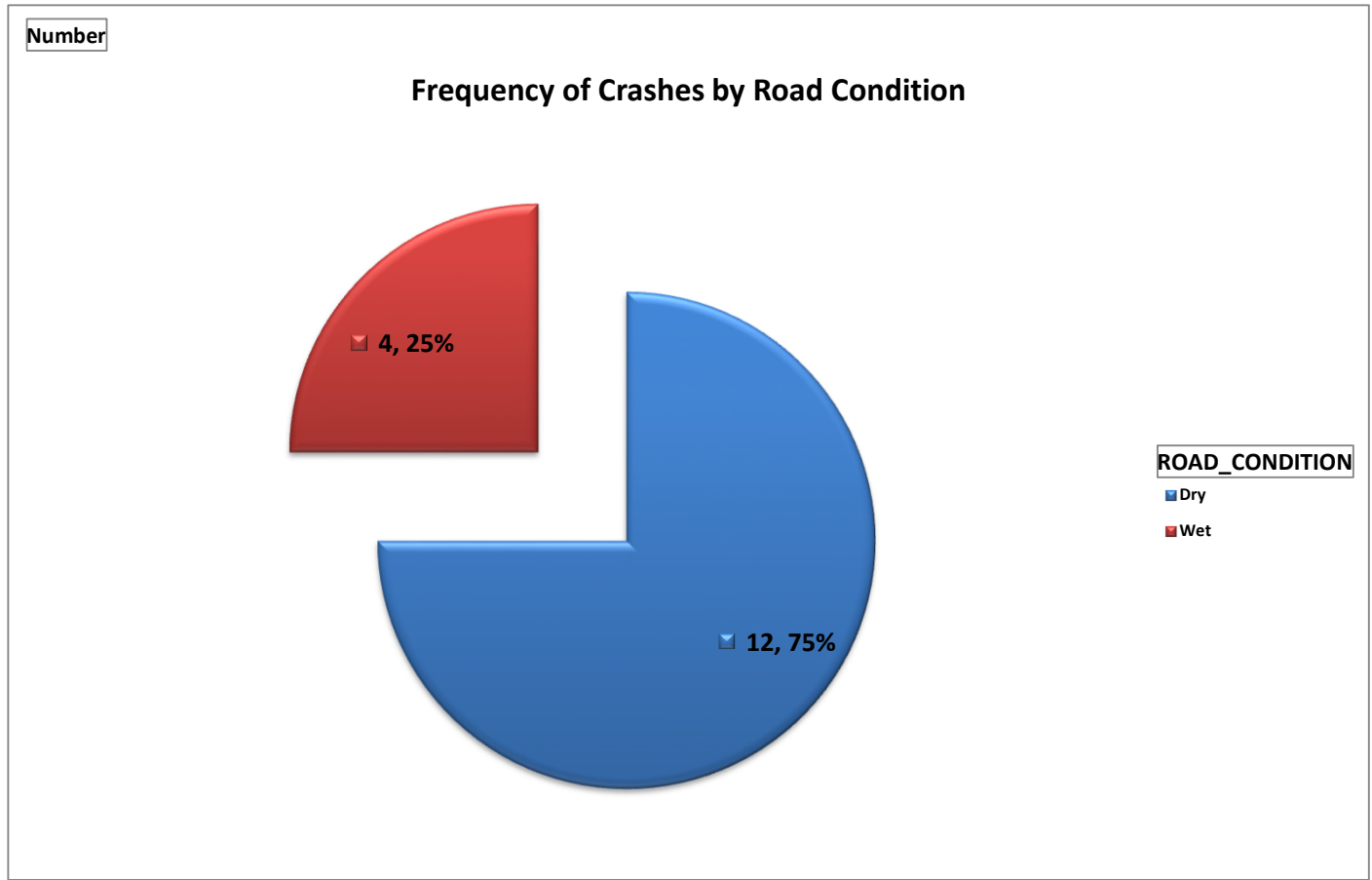
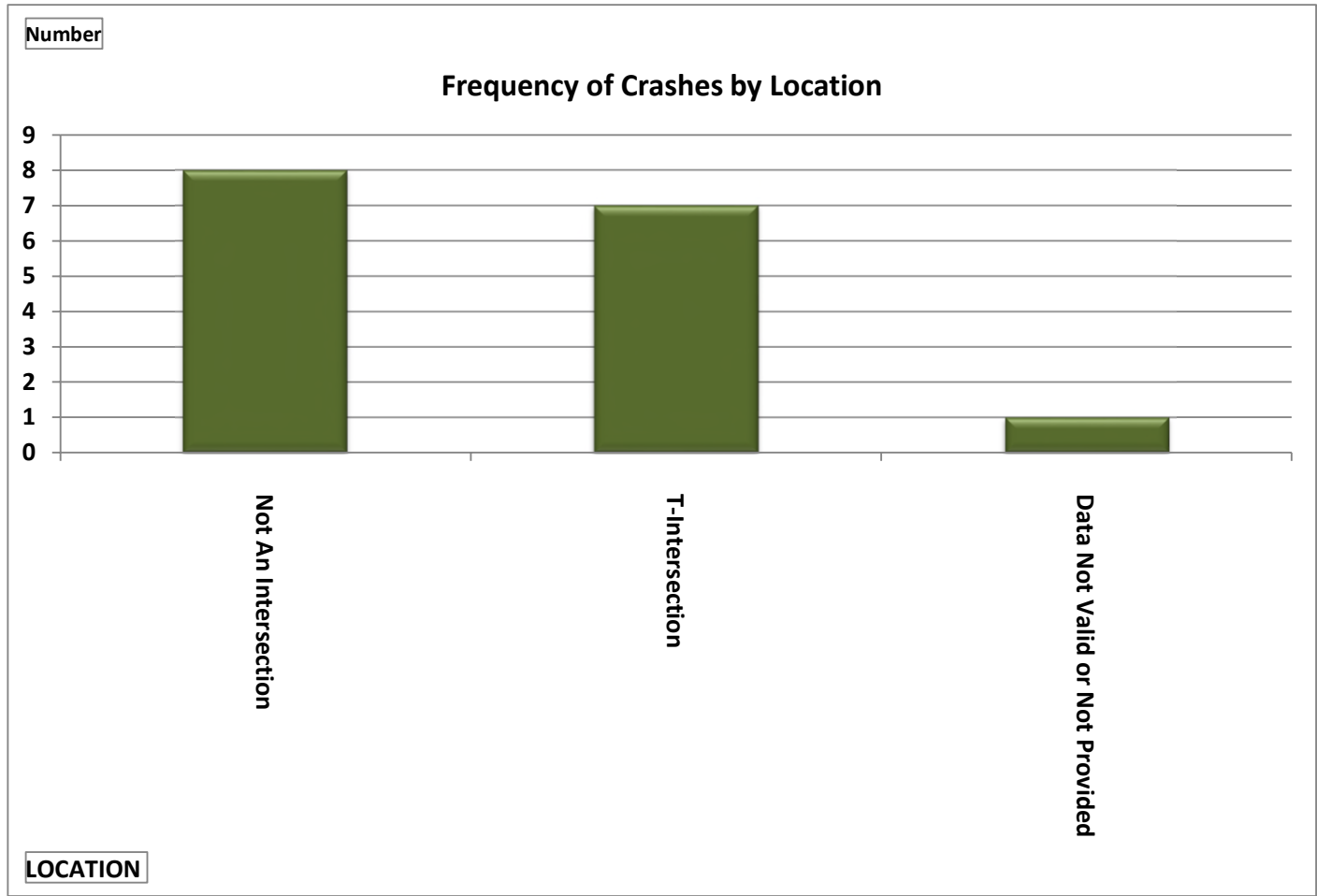
Frequency of Crashes by Month

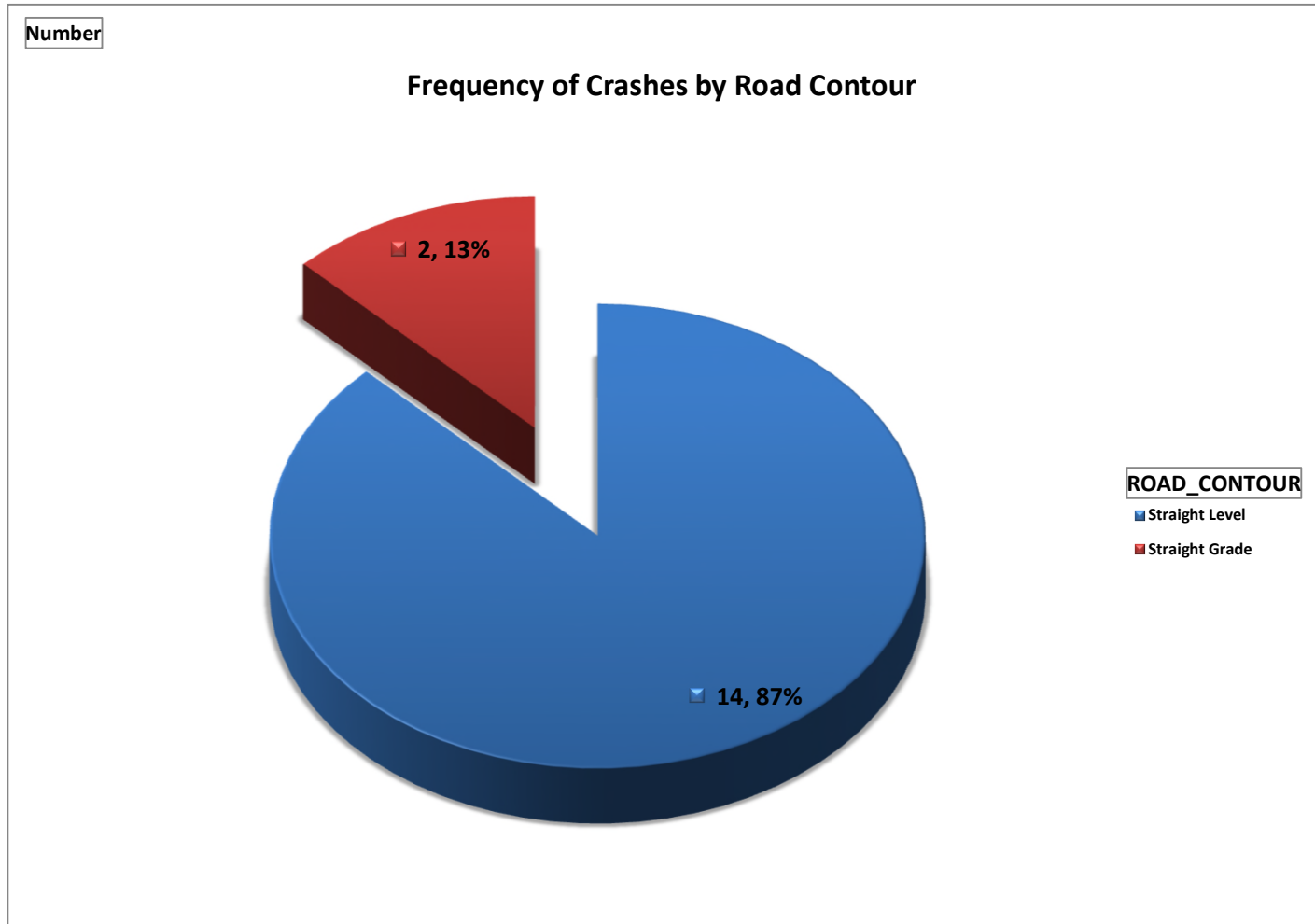
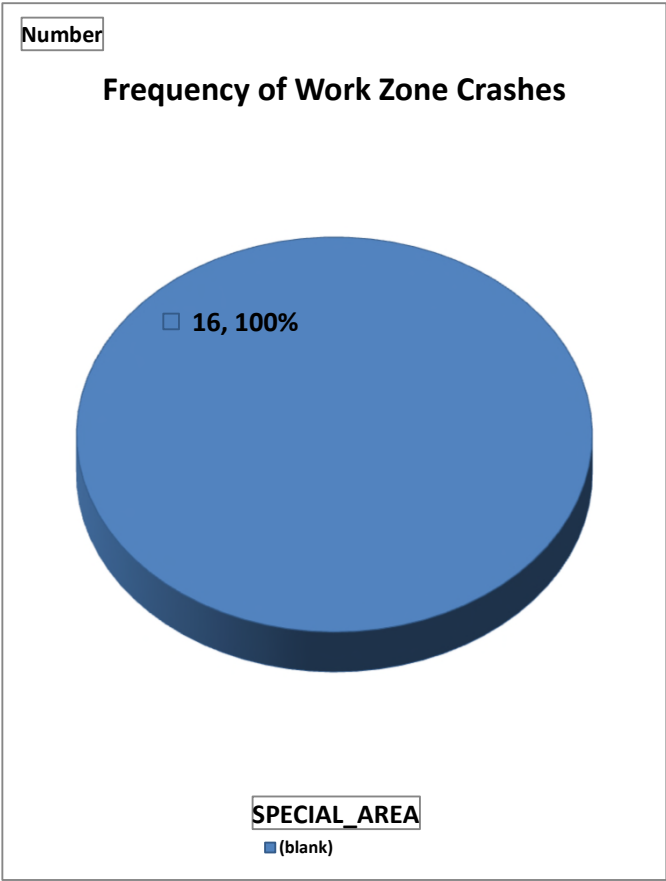
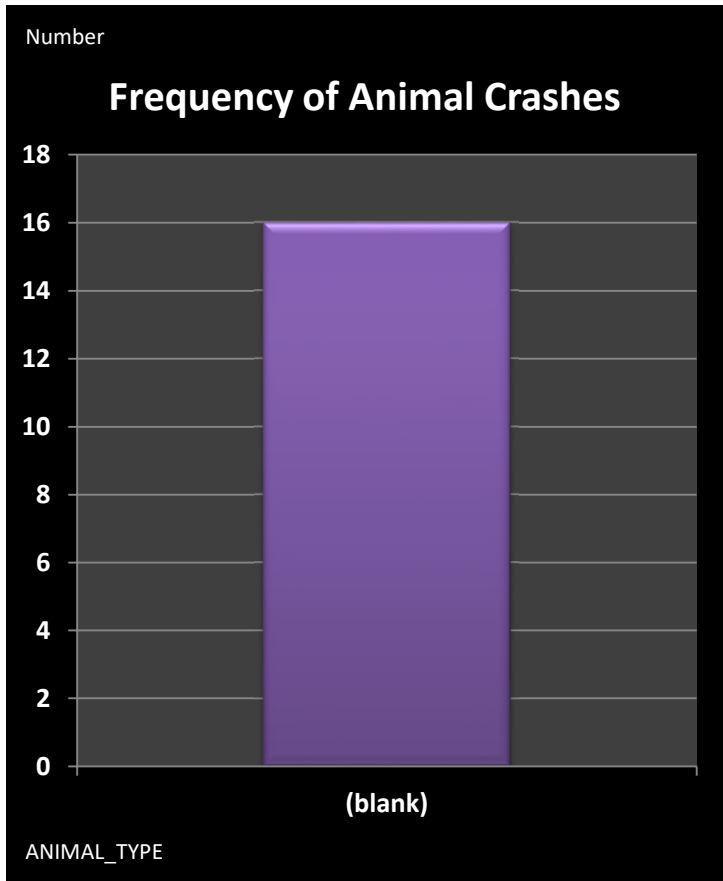


CRASH_MONTH_NBR

US 42 at Township Line Road



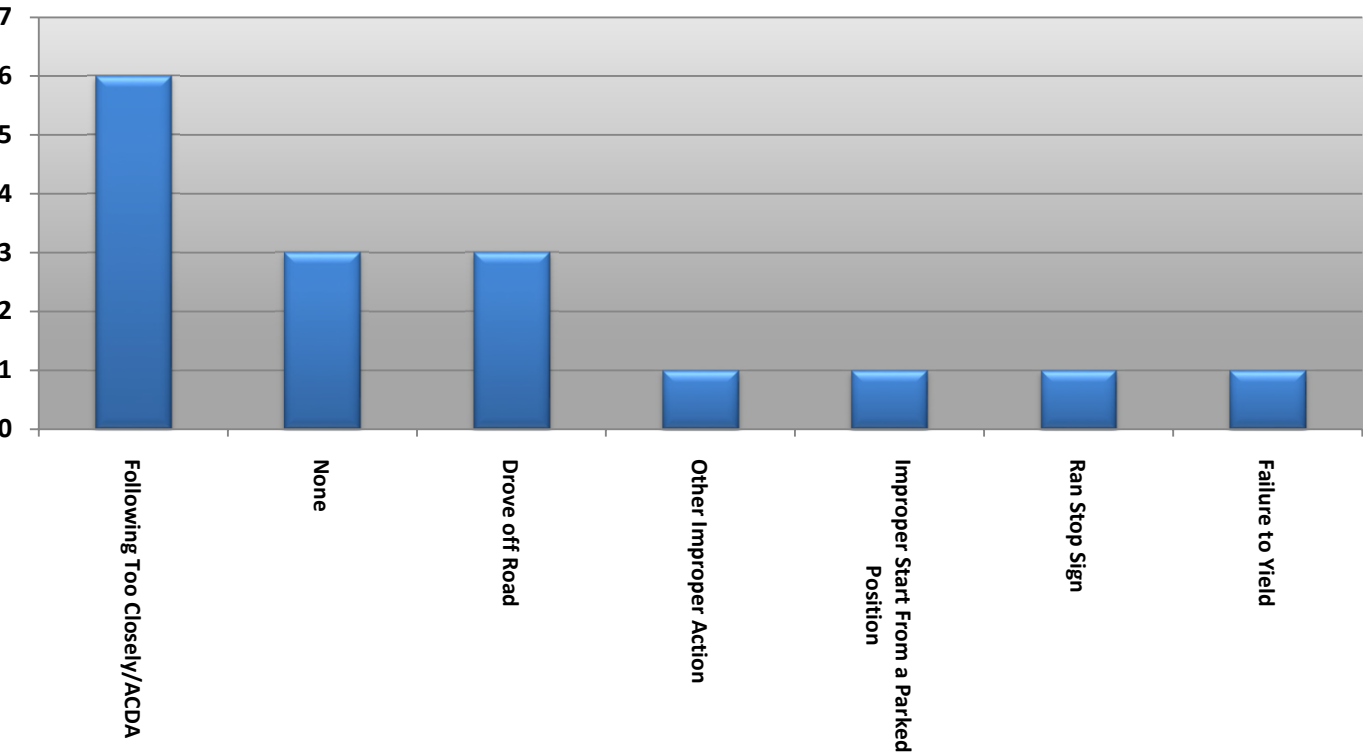




US 42 at Township Line Road

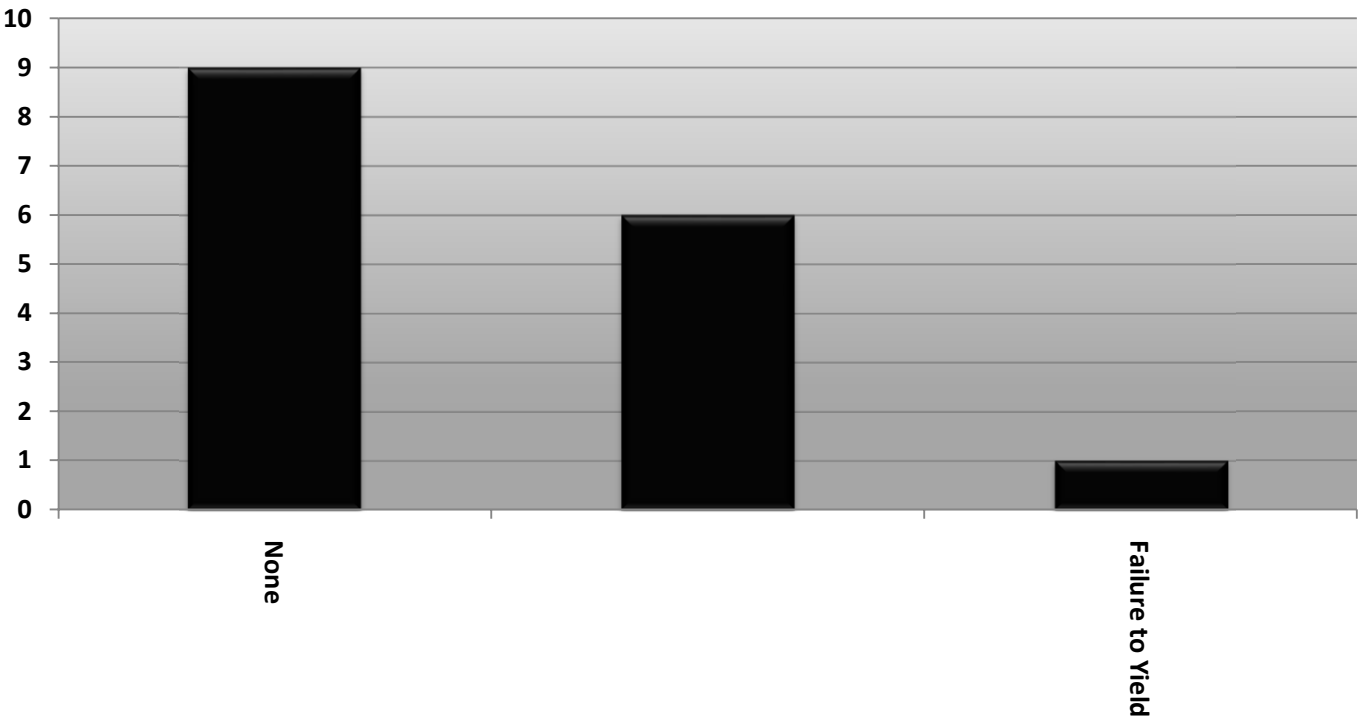


Frequency of Crashes by Contributing Factor 1

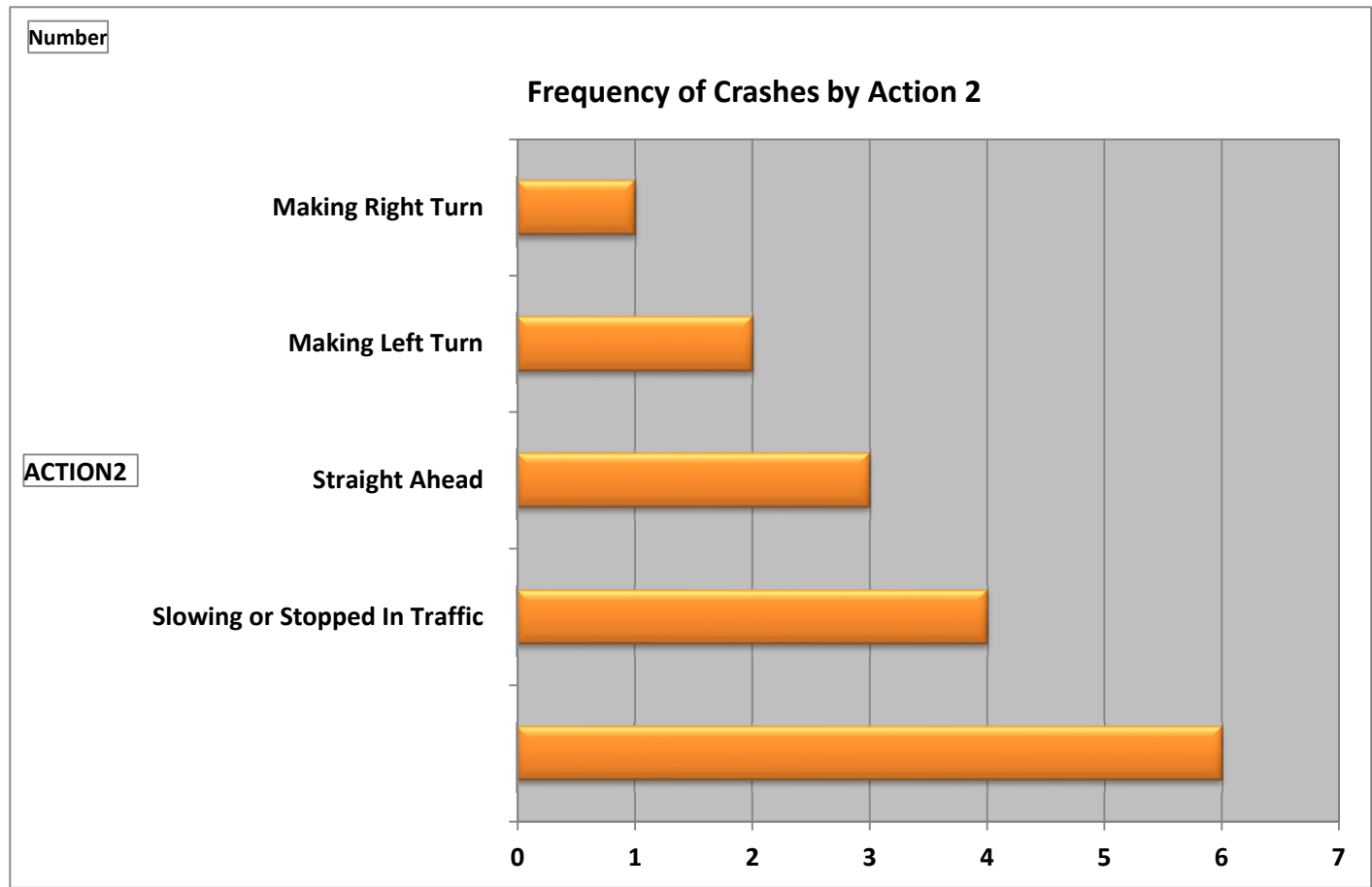
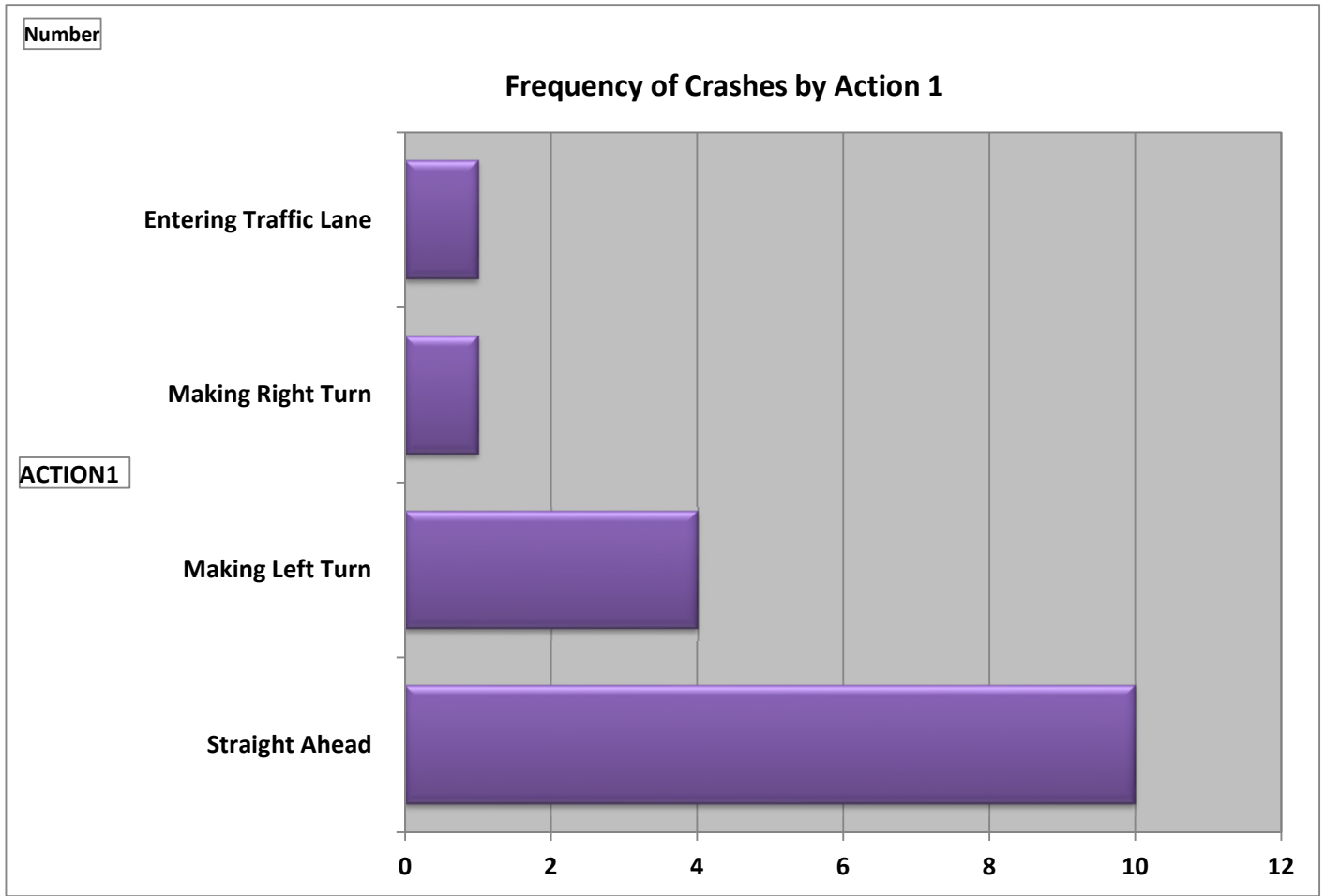


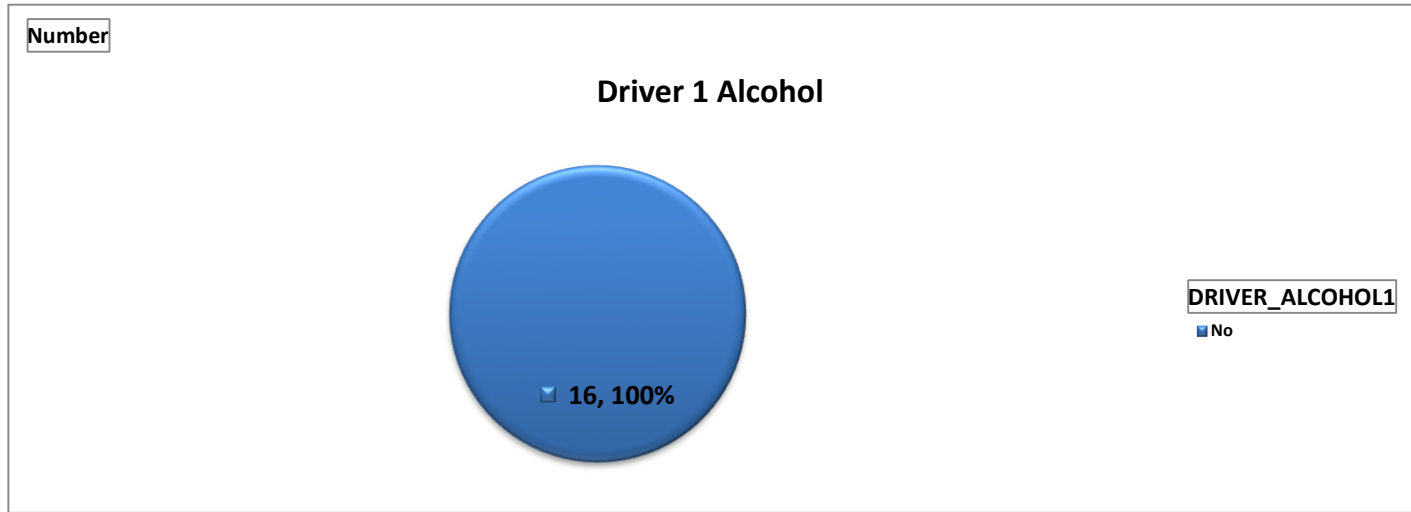
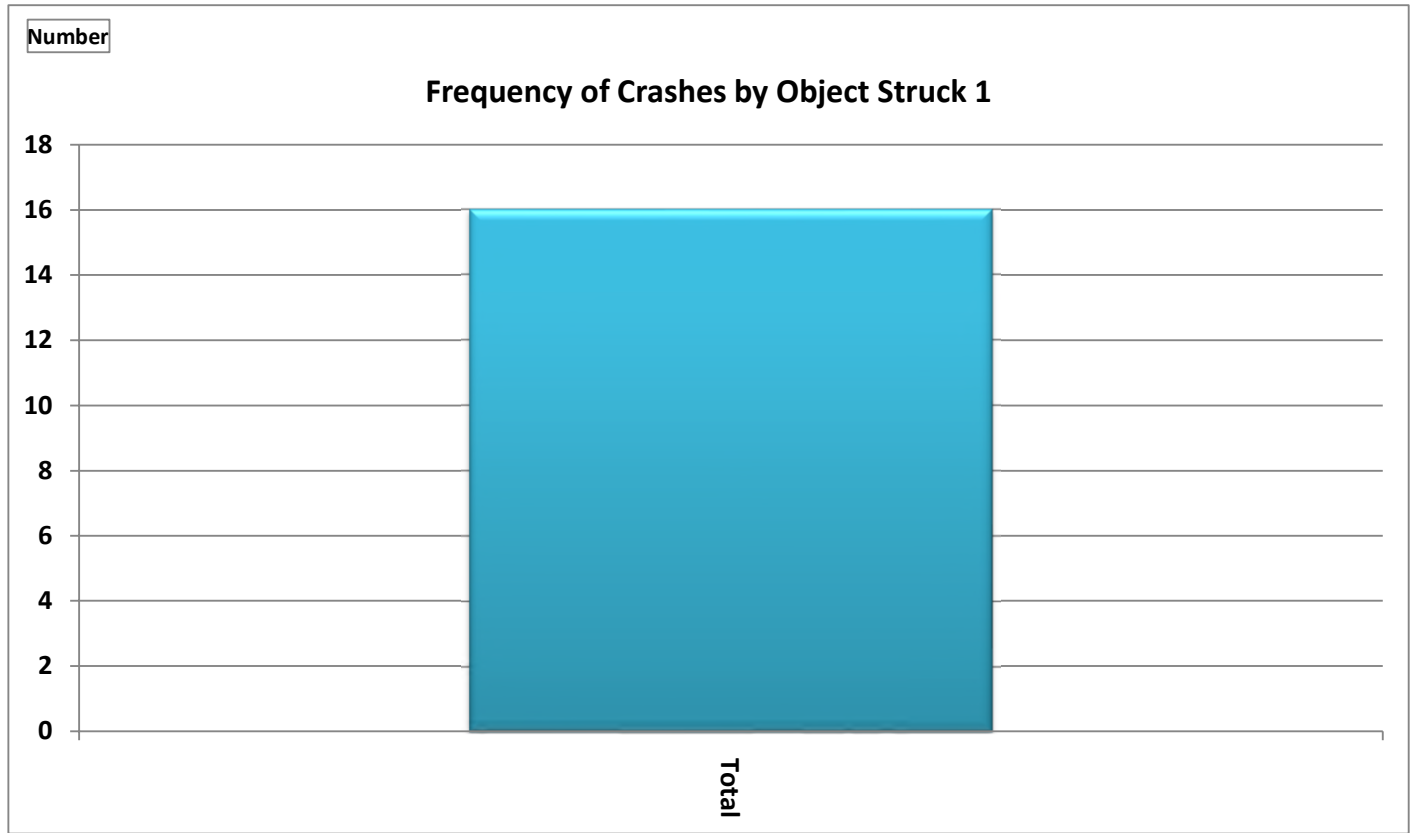
Number

Frequency of Crashes by Contributing Factor 2



CONTRIBUTING_FACTOR2





Select Site Type	Int/Urb; 3-leg minor-rd STOP
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Crash Severity	Site Average		Statewide Average
	Total (2019-2022)	Total (%)	Total (%)
Fatal Crash	0	0.00%	0.36%
Serious Injury Suspected Crash	1	6.25%	2.09%
Minor Injury Suspected Crash	4	25.00%	12.14%
Injury Possible Crash	0	0.00%	11.79%
Property-Damage-Only	11	68.75%	73.61%
Total	16		

Crashes by Crash Type				
Crash Type	Total (%)		Fatal & All Injury (%)	
	Site Average	Statewide Average	Site Average	Statewide Average
Unknown	0.00%	0.32%	0.00%	0.22%
Head On	0.00%	2.12%	0.00%	4.48%
Rear End	37.50%	27.80%	37.50%	28.61%
Backing	0.00%	4.13%	0.00%	0.92%
Sideswipe - Meeting	0.00%	0.08%	0.00%	0.08%
Sideswipe - Passing	0.00%	11.67%	0.00%	6.31%
Angle	18.75%	15.89%	18.75%	19.20%
Parked Vehicle	0.00%	5.88%	0.00%	3.48%
Pedestrian	0.00%	1.40%	0.00%	5.02%
Animal	18.75%	3.48%	18.75%	0.51%
Train	0.00%	0.02%	0.00%	0.04%
Pedalcycles	0.00%	0.65%	0.00%	2.09%
Other Non-Vehicle	0.00%	0.00%	0.00%	0.00%
Fixed Object	12.50%	14.51%	12.50%	15.64%
Other Object	0.00%	0.35%	0.00%	0.16%
Falling From Or In Vehicle	0.00%	0.00%	0.00%	0.00%
Overturning	0.00%	0.30%	0.00%	0.72%
Other Non-Collision	12.50%	1.03%	12.50%	0.94%
Left Turn	0.00%	6.37%	0.00%	8.63%
Right Turn	0.00%	4.00%	0.00%	2.95%

Crashes by Light Conditions				
Light Conditions	Total (%)		Fatal & All Injury (%)	
	Site Average	Statewide Average	Site Average	Statewide Average
Daylight	75.00%	68.43%	75.00%	69.41%
Dawn/Dusk	18.75%	0.00%	18.75%	0.00%
Dark - Lighted Roadway	0.00%	17.92%	0.00%	18.74%
Dark - Roadway Not Lighted	6.25%	7.37%	6.25%	6.77%
Dark - Unknown Roadway Lighting	0.00%	0.55%	0.00%	0.36%
Other / Unknown	0.00%	5.73%	0.00%	4.72%

Crashes by Road Conditions				
Road Conditions	Total (%)		Fatal & All Injury (%)	
	Site Average	Statewide Average	Site Average	Statewide Average
Dry	70.59%	73.69%	70.59%	75.92%
Wet	23.53%	20.93%	23.53%	20.73%
Snow	0.00%	3.12%	0.00%	1.99%
Ice	0.00%	1.36%	0.00%	0.99%
Sand, Mud, Dirt, Oil, Gravel	0.00%	0.05%	0.00%	0.05%
Water (Standing, Moving)	0.00%	0.06%	0.00%	0.06%
Slush	0.00%	0.13%	0.00%	0.10%
Other / Unknown	5.88%	0.66%	5.88%	0.16%