

Delaware 10 & Delaware 15 Types of Crash and Reason for Crash Summary

Crashes per year: (10-11-2008 to 10-11-2011)

2008: 1

2009: 10

2010: 7

2011: 7

Total: 25

Types of Crash

Type of Crash	Frequency	Percentage
Failure to remain stopped	13	52%
Rear end collision	5	20%
Ran stop sign	3	12%
Failure to yield right of way	2	8%
Deer in roadway	1	4%
Improper passing on right	1	4%

Reason for Crash

Reason for Crash	Frequency	Percentage
Didn't see vehicle	WB: 5	WB: 20%
	EB: 5	EB: 20%
Inattentive driving	8	32%
DUI	2	8%
Unknown	2	8%
Roadway conditions	1	4%
Vehicle blocking view	1	4%
Driver confusion	1	4%

Approach of Responsible Driver

*Eastbound/westbound approach is main road

Approach	Frequency	Percentage
Northbound	9	36%
Southbound	10	40%
Eastbound	5	20%
Westbound	1	4%

Crash Severity

Severity	Frequency	Percentage
Property Damage Only	9	36%
Personal Injury	16	64%

77% of crashes due to failure to remain stopped resulted in personal injury.

Time of Crash

Hour of Day	Number Of Crashes	Percentage
0:00-1:00	1	4%
1:00-2:00		
2:00-3:00		
3:00-4:00		
4:00-5:00		
5:00-6:00		
6:00-7:00		
7:00-8:00	2	8%
8:00-9:00		
9:00-10:00	1	4%
10:00-11:00	3	12%
11:00-12:00	1	4%
12:00-13:00	1	4%
13:00-14:00	2	8%
14:00-15:00	2	8%
15:00-16:00	4	16%
16:00-17:00		
17:00-18:00	4	16%
18:00-19:00	1	4%
19:00-20:00		
20:00-21:00	1	4%
21:00-22:00	1	4%
22:00-23:00	1	4%
23:00-24:00		

Time of Day	Number of Crashes	Percentage
Day	18	72%
Night	5	20%
Dusk	2	8%

Day of Week	Number of Crashes	Percentage
Sunday	2	8%
Monday	3	12%
Tuesday	6	24%
Wednesday	2	8%
Thursday	5	20%
Friday	4	16%
Saturday	3	12%

Month of the Year	Number of Crashes	Percentage
January	2	8%
February	3	12%
March	3	12%
April	2	8%
May	2	8%
June	4	16%
July	1	4%
August	4	16%
September	1	4%
October		
November	2	8%
December	1	4%

Over 70% of the crashes occurred during the day with the largest number of crashes occurring between 3pm-4pm and 5pm-6pm. These time intervals coincide with peak travel from work and school. The intersection is lighted at night. Crashes were distributed across all the days of the week, but Tuesday and Thursday had the highest number of crashes. The month of the year did not appear to show any specific trends.

Age of Drivers

Drivers responsible for crash only:

Age	Number of Crashes	Percentage
16-19	6	25%
20-29	6	25%
30-39	2	8.33%
40-49	4	16.67%
50-59	3	12.5%
60-69	2	8.33%
70 and older	1	4.17%

All drivers involved in crash:

Age	Number of Crashes	Percentage
16-19	7	13.73%
20-29	13	25.49%
30-39	5	9.80%
40-49	9	17.6%
50-59	10	19.61%
60-69	5	9.80%
70 and older	1	1.96%
Unknown	1	1.96%

Drivers between the ages of 16-30 were found to be at fault for half the accidents that occurred at this intersection. Looking at all the drivers involved in crashes at this intersection,

drivers aged 20-29 accounted for 25% of the drivers involved. Elderly drivers were infrequently responsible for or involved in crashes at this intersection.

Alcohol/ Drug Influence

Two crashes (8%) were attributed to drug or alcohol influence.

Weather and Road Conditions

Weather	Number of Crashes	Percentage
Rainy	3	12%
Cloudy	3	12%
Clear	19	76%

Road Condition	Number of Crashes	Percentage
Dry	20	80%
Wet	5	20%

88% of the accidents occurred when the weather was sunny or cloudy. 80% of crashes occurred when the road was dry. This leads to the conclusion that the roadway conditions are not a major factor in the crash rate at this intersection.

AADT Values (2010)

Delaware 10 (Willow Grove Road): 5062

Delware 15: 2634