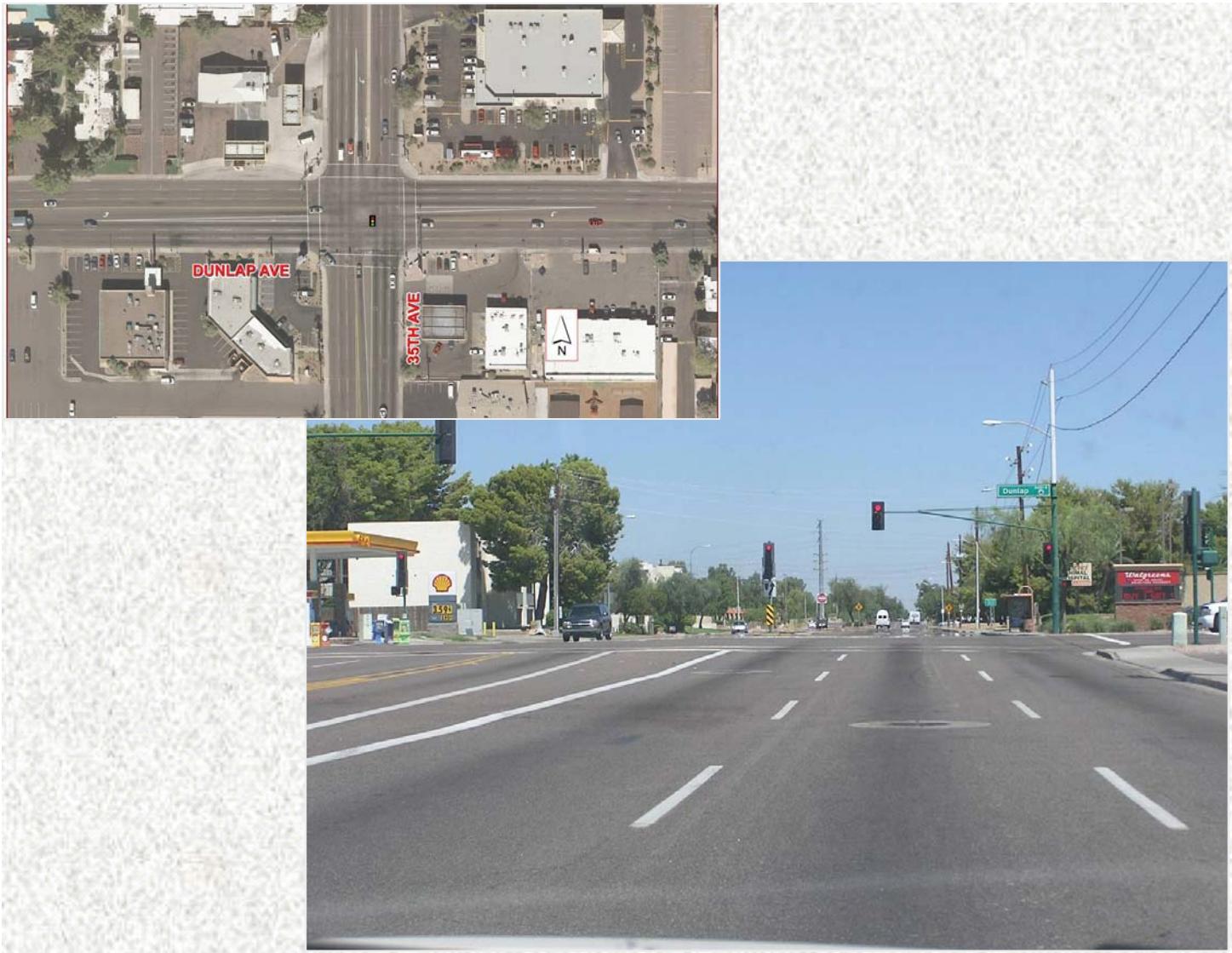


# 2010 Collision Rate Summary



**City of Phoenix  
Street Transportation Department  
Traffic Services Division  
Traffic Safety Section**

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This report was compiled by interns Dana Bennewitz and Esteban Martinez

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## Abstract

This report serves to update the traffic collision rate for intersections and street segments within the City of Phoenix for the years 2006 to 2010. Unlike previous reports, this report is divided into two separate time periods, 2006 to 2007 and 2008 to 2010, in order to better understand the effects of the Great Recession on motor vehicle collisions. There are six categories of intersections studied in this report: arterial-arterial, arterial-collector, signalized arterial-local, unsignalized arterial-local, signalized collector-collector, and unsignalized collector-collector. Street segments are classified as either arterial or collector. After calculating collision rates, intersections and street segments that are greater than two standard deviations from mean are identified. The table below displays the collision rates from 2006-2010.

2006-2010 Collision Rate							
Intersection	Number of Samples	2006-2007		2008-2010			
		2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	2008-2010 Average
Arterial-Arterial	170	1.43	1.34	1.14	1.02	1.00	1.05
Arterial-Collector	152	0.85	0.79	0.72	0.59	0.57	0.63
Arterial-Local (signalized)	42	0.59	0.60	0.49	0.46	0.45	0.47
Arterial-Local (unsignalized)	42	0.54	0.46	0.38	0.29	0.33	0.33
Collector-Collector (signalized)	20	0.78	0.84	0.70	0.61	0.72	0.68
Collector-Collector (unsignalized)	33	0.58	0.51	0.69	0.49	0.30	0.49
Segment							
Arterial	153	2.80	2.62	2.25	1.75	1.76	1.92
Collector	58	2.67	2.50	2.71	2.05	1.68	2.15

# 2010 Phoenix Collision Rate Summary

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## Introduction

Motor vehicle traffic reflects the culture and economy within a city. Traffic in cities with a strong car culture experience more pronounced swings in traffic volumes and vehicle miles traveled as the economy fluctuates. The City of Phoenix measures both automobile traffic volume, and the collision rates of intersections and street segments within its jurisdiction. This report serves a dual purpose, to both continue crash rate reporting for comparison to prior years, and to investigate the effects of The Great Recession on collision rates.

The collision rate is a measure of the average number of collisions per million entering vehicles and can be used to determine the safety performance at a given intersection or on a specific road segment. The average collision rate for intersections and street segments is a useful tool to examine individual streets and compare their performance to others. The City of Phoenix Street Transportation Department updates this information periodically; this report investigates from 2006 - 2010 and will complete one decade of contiguous collision rates from 2001 to 2010.

This report uses collision data from 2006 - 2010 to determine the average collision rate for each year. This data is subdivided into two time eras, 2006 and 2007 comprise the years before the recession and 2008 – 2010 comprise the years during and after the recession. Collision rates are calculated for both intersections and street segments in the City Of Phoenix. The types of collisions are broken down into three categories: property damage only, injury (including possible, non-incapacitating, and incapacitating), and fatal collisions. Additionally, light conditions of the collisions at the site, classified as light, dark or twilight, as well as the number of angle, left turn and pedestrian/bicyclist collisions are recorded. It is anticipated the results of this report will be used to compare collision trends on Phoenix streets and to identify locations for possible traffic mitigation procedures.

## Data and Methodology

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The collision data that was used to determine crash rates was obtained from the Arizona Department of Transportation's databases, the Accident Location



## 2010 Phoenix Collision Rate Summary

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Identification and Service System (ALISS) and the Safety Data Mart (SDM). Crash data was first obtained from ALISS for the years 2006 until April of 2009 when ADOT switched to the SDM. Collisions occurring on public right of way in Phoenix and/or reported by the Phoenix Police Department that involve a motor vehicle on public streets causing injury or more than \$1,000 in damage are recorded in this database. Other collisions such as those that occur on private property or on the freeway system are not included in the ALISS database and are therefore not included in this report. One-way streets were not included in the study. There was no check for road construction activity. Volumes data was obtained from the Traffic Information Programs System (TIPS), a database of volumes maintained by the City Of Phoenix.

This report generally follows the format and methodology established in prior studies in its strategy, methods, and locations, although some locations in this study were updated and expanded. One new category this report studies is pedestrian and bicyclist collisions at intersections and on street segments. Metro Light Rail construction occurred throughout the years 2006 to 2008 of this study, and operation began at the start of 2009. Intersections and street segments that share the right-of-way with Metro Light Rail were not included in this study due to the lengthy construction time. Additionally, any segments or intersections that changed classification from the 2007 study or otherwise meet requirements were included in the present study. Comparisons between prior reports and the changes made in the present report were not retroactively corrected in this study.

The intersections and segments that were selected for study are a representative sample of the streets of the City of Phoenix with respect to location and Average Daily Traffic (ADT) volume. The sample size for each category was made as large as possible. One notable exception is that the number of arterial – arterial intersections is not actually a sample, but is *all* of the 4-way, uniform arterial-arterial intersections with an ADT greater than 20,000 (for which ADT data was available).

# 2010 Phoenix Collision Rate Summary

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## Intersections

Intersections for this study included all collisions within 150 ft of the crossroads. All intersections that were used were 4-way, aligned, and as uniform as possible. All non-uniform intersections were discarded. All arterial-arterial intersections with an ADT less than 20,000 were regarded as non-major streets, and discarded from the arterial-arterial list, even if the streets were formally classified as arterial. Streets that simply have a change in name, such as Greenway Road to Greenway Parkway at 64<sup>th</sup> Street, were included as long as they met the other criteria. Throughout the study, every effort was made to compare rates of locations with similar traffic patterns. No freeway interchanges were used in any portion of the study. Local-local and local-collector intersections were not included in the study, mainly due to a lack of traffic volume data. A list of the intersections used in the study can be found in the Appendix.

## Segments

Street segments used in this study consisted of half-mile or one-mile street segments. Each segment begins and ends 150 ft from an intersection of an arterial or collector street and none of the segments included signalized intersections.

As with earlier reports, only collisions that occurred over 150 feet from the terminal intersections and on the segment in question were included. This assures there is no double-counting between intersection and segment collisions and that the crashes are relevant to the segment. The street segment data was split into two categories, arterial and collector. If a segment was on an arterial street but had an ADT lower than 10,000, it was not included in the arterial segment list. However, a busy collector segment may have an ADT over 10,000. The collection of street segments used in this study is in the Appendix.

## Determination of Rates

The collision rates were calculated for 2006-2010 individually. These rates were then used to find a two year average for the time period 2006-2007 and a three year average for the time period 2008-2010. The yearly collision rates for this study are calculated using the following equations:



# 2010 Phoenix Collision Rate Summary

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$$\text{Intersection Collision Rate} = \frac{\text{collisions}_{\text{YEAR}} \times 1,000,000}{365 \times \text{ADT}}$$

$$\text{Segment Collision Rate} = \frac{\text{collisions}_{\text{YEAR}} \times 1,000,000}{365 \times \text{ADT} \times \text{Length}}$$

The ADT is the summation of all entering vehicles at an intersection or traffic traveling in that segment. Because of the dramatic reduction in traffic volumes, pre- versus post-recession, experienced throughout the city, volume data was partitioned to reflect this. For the time period 2006-2007, TIPS volumes from 2007 and earlier were used. For the time period 2008-2010, TIPS volumes from 2008 and after were used.

The intersection collision rate is expressed as the number of collisions per million entering vehicles (MEV) whereas the segment collision rate is expressed as collisions per million vehicle-miles traveled (VMT). The constant 365 is the number of days in a year. The variable "Length" is the length of the segment in terms of miles and is only appropriate for segment collision rates.

## Collision History

The collisions for each location were further classified into property damage only (PDO), injury, or fatal accidents. The light conditions and the number of angle left turn, and pedestrian/bicyclist collisions were also recorded in an effort to further describe the types of collisions that occurred at a specific location. The data for all locations can be found in its entirety in the Appendices. After calculating the two or three average rate for all of the locations, the standard deviation of these rates were calculated. The entire study was then examined to find all intersections and segments that were over two standard deviations above the mean. These sites are listed in Tables 4 and 5 on page 10.

## Results

The results of the collision rate study can be found in Table 1 and Table 2 on page 8. Table 3 on page 9 displays the collision rates from 2001 to 2010. The complete data of the entire study is the Appendix. The annual collision rate trend for each category of intersection across the time period 2001 to 2010 is displayed in Figure 1



## 2010 Phoenix Collision Rate Summary

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on page 11. The collision rate trends for each category of intersections across the time period 2001-2010 are displayed in Figures 3-8 and can be found on pages 13-18. The collision rate for both categories of segments is displayed in Figure 2 on page 12.

The arterialarterial collision rate decreased within the time period of 2006-2010, from 1.43 collisions/MEV in 2006 to 1.00 collision/MEV in 2010. Over the period of 2001-2007, the average for arterialarterial intersections fluctuated around 1.35 collisions/MEV but then declined to an average of 1.05 collisions/MEV between 2008 and 2010. A decrease in the standard deviation accompanied the decrease in collision rates. Other categories of intersections experienced similar trends, often experiencing a sharp decline between 2007 and 2008 and sustaining the new low collision rate throughout 2009 and 2010. Signalized collector-collector intersections were an exception, experiencing an increase in collision rate as well as standard deviation during 2008 to 2010. As in prior years, signalized intersections years had a higher collision rate than their unsignalized counterparts.

Segments experienced a similar decline in collision rates between 2006 and 2010. Although segment collision rates are higher for collectors than arterials, collectors segments also have a higher standard deviation than arterials. This may be due to the relative small sample size of collector segments; it is recommended that future reports increase the sample size of collector segments. Additionally, unlike arterial segments, there is no minimum (or maximum) volume requirement for collector segments. Because ADT on collector streets is much more variable by nature, collision rates are also more variable. To limit the volatility of collector segment collision rates, it is recommended that future reports establish either a minimum, maximum, or range of ADT values. Both categories of segments experienced a similar trend as the intersections; between the years of 2008 and 2010, the collision rate fell significantly. This is most likely because the number of collisions fell more dramatically than the traffic volume.

In general, traffic volumes decreased throughout the city, at some locations ADT dropped by over 25%. Although much of this decrease can be attributed to the



## 2010 Phoenix Collision Rate Summary

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economic decline, other political factors could be suspect, including immigration legislation. Further investigation is needed to confirm this theory.

In total, 459 intersections and 211 segments were studied. Between the years 2008 and 2010, 15 intersections (3%) and 12 segments (6%) were above the 95<sup>th</sup> percentile collision rate. This is expected, as about five percent of the values should lie outside of the 95<sup>th</sup> percentile range. It should be noted that three of these intersections and seven of these segments were also above the 95<sup>th</sup> percentile for the 2006-2007 period. Tables 4 and 5 display these intersections and can be found on page 10.

### Conclusion

From the collision rate data, it was found that the 2008-2010 average collision rate for arterial – arterial and arterial – collector intersections was 1.05 and 0.63 collisions per million entering vehicles, respectively. For arterial and collector street segments, the 2008-2010 average collision rate was 1.92 and 2.15 collisions per million vehicle miles, respectively. After analyzing the data, it was found that 15 intersections and 12 street segments were above the 95% significance level for the time period 2008-2010. It is recommended that these sites be further analyzed in detail to determine the reasons for a much higher than average collision rate.

The annual average collision rates over the past few studies show a steady rate of collisions at intersections between 2001 and 2007. Although the rates vary from year to year, which can be attributed to economic fluctuations, overall the rate remains steady until the recession starting in 2008. After the start of the recession, collision rates at arterial-arterial intersections declined by 14% and at arterial-collector intersections by 20%. In most categories of intersection, the collision rate remained at the lower rate for the remainder of the study.

It would be beneficial to continue to perform collision rate studies on a periodic basis to identify trends. Crash rates in future reports can be useful tools in analyzing the effectiveness of actions taken by the city to lower the collision rate as well as defining trends in the city's collision rate.



## 2010 Phoenix Collision Rate Summary

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**Table 1 Intersection Collision Rates**

Intersection	Number of Samples	2006-2007					2008-2010				
		2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2006-2007 Average	Standard Deviation	95th Percentile	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	2008-2010 Average	Standard Deviation
Arterial-Arterial	170	1.43	1.34	1.39	0.49	2.37	1.14	1.02	1.00	1.05	0.38
Arterial-Collector	152	0.85	0.79	0.82	0.34	1.51	0.72	0.59	0.57	0.63	0.28
Arterial-Local (signalized)	42	0.59	0.60	0.60	0.31	1.21	0.49	0.46	0.45	0.47	0.24
Arterial-Local (unsignalized)	42	0.54	0.46	0.50	0.31	1.12	0.38	0.29	0.33	0.33	0.21
Collector-Collector (signalized)	20	0.78	0.84	0.81	0.38	1.57	0.70	0.61	0.72	0.68	0.39
Collector-Collector (unsignalized)	33	0.58	0.51	0.54	0.38	1.30	0.69	0.49	0.30	0.49	0.29

**Table 2 Segment Collision Rates**

Segment	Number of Samples	2006-2007					2008-2010				
		2006 (Colls/Million Vehicle Miles)	2007 (Colls/Million Vehicle Miles)	2006-2007 Average	Standard Deviation	95th Percentile	2008 (Colls/Million Vehicle Miles)	2009 (Colls/Million Vehicle Miles)	2010 (Colls/Million Vehicle Miles)	2008-2010 Average	Standard Deviation
Arterial	153	2.80	2.62	2.71	1.59	5.89	2.25	1.75	1.76	1.92	1.07
Collector	58	2.67	2.50	2.59	1.59	5.77	2.71	2.05	1.68	2.15	1.20



## 2010 Phoenix Collision Rate Summary

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**Table 3 Collision Rates 2001-2010**

<b>Intersection</b>	<b>Number of Samples (2006-2010)</b>	<b>2001 (Colls/Million Vehicles)</b>	<b>2002 (Colls/Million Vehicles)</b>	<b>2003 (Colls/Million Vehicles)</b>	<b>2004 (Colls/Million Vehicles)</b>	<b>2005 (Colls/Million Vehicles)</b>	<b>2006 (Colls/Million Vehicles)</b>	<b>2007 (Colls/Million Vehicles)</b>	<b>2008 (Colls/Million Vehicles)</b>	<b>2009 (Colls/Million Vehicles)</b>	<b>2010 (Colls/Million Vehicles)</b>	<b>2008-2010 Average</b>
Arterial-Arterial	170	1.38	1.32	1.27	1.35	1.40	1.43	1.34	1.14	1.02	1.00	1.05
Arterial-Collector	152	0.81	0.75	0.74	0.79	0.84	0.85	0.79	0.72	0.59	0.57	0.63
Arterial-Local (signalized)	42	0.67	0.64	0.57	0.69	0.63	0.59	0.60	0.49	0.46	0.45	0.47
Arterial-Local (unsignalized)	42	0.57	0.51	0.53	0.47	0.49	0.54	0.46	0.38	0.29	0.33	0.33
Collector-Collector (signalized)	20	0.59	0.63	0.59	0.61	0.70	0.78	0.84	0.70	0.61	0.72	0.68
Collector-Collector (unsignalized)	33	0.61	0.62	0.66	0.63	0.56	0.58	0.51	0.69	0.49	0.30	0.49
<b>Segments</b>												
Arterial	153	2.82	2.76	2.44	2.51	2.73	2.80	2.62	2.25	1.75	1.76	1.92
Collector	58	2.27	2.44	2.11	3.00	2.76	2.67	2.50	2.71	2.05	1.68	2.15



## 2010 Phoenix Collision Rate Summary

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**Table 4 Intersections Above 95th Percentile 2008-2010**

Arterial-Arterial	MEV
<b>McDowell Rd &amp; 32nd St</b>	<b>2.35</b>
Dunlap Ave & 35th Ave	2.22
Glendale Ave & 19th Ave	2.17
Glendale Ave & 27th Ave	1.93
Camelback Rd & 27th Ave	1.88
<b>Indian School Rd &amp; 67th Ave</b>	<b>1.86</b>
Arterial-Collector	MEV
7th St & Missouri Ave	1.28
7th Ave & Osborn Rd	1.24
McDowell Rd & 40th St	1.19
Arterial-Local Signalized	MEV
27th Ave & Glenrosa Ave	1.11
<b>Bell Rd &amp; 9th St</b>	<b>0.99</b>
Bell Rd & 3rd St	0.98
Arterial-Local Unsignalized	MEV
Indian School Rd & 9th St	1.16
Thomas Rd & 30th St	0.76
Collector-Collector Signalized	MEV
Maryland Ave & 15th Ave	1.61

**Table 5 Segments Above 95th Percentile (2008-2010)**

Arterial	Segment	VMT
<b>Indian School</b>	<b>7th St to 12th St</b>	<b>6.67</b>
<b>7th St</b>	<b>Bethany Home Rd to Missouri Ave</b>	<b>5.57</b>
<b>7th St</b>	<b>Missouri Ave to Camelback Rd</b>	<b>5.27</b>
7th Ave	Indian School Rd to Osborn Rd	5.04
<b>Camelback</b>	<b>27th Ave to 31st Ave</b>	<b>4.86</b>
<b>7th St</b>	<b>Indian School to Osborn Rd</b>	<b>4.85</b>
<b>51st Ave</b>	<b>Indian School Rd to Osborn Rd</b>	<b>4.51</b>
<b>16th St</b>	<b>Thomas to Oak St</b>	<b>4.23</b>
32nd St	Osborn Rd to Thomas	4.09
Collector	Segment	VMT
87th Ave	Indian School to Thomas	5.46
71st Ave	Thomas to McDowell	5.02
12th St	Indian School to Campbell	4.70

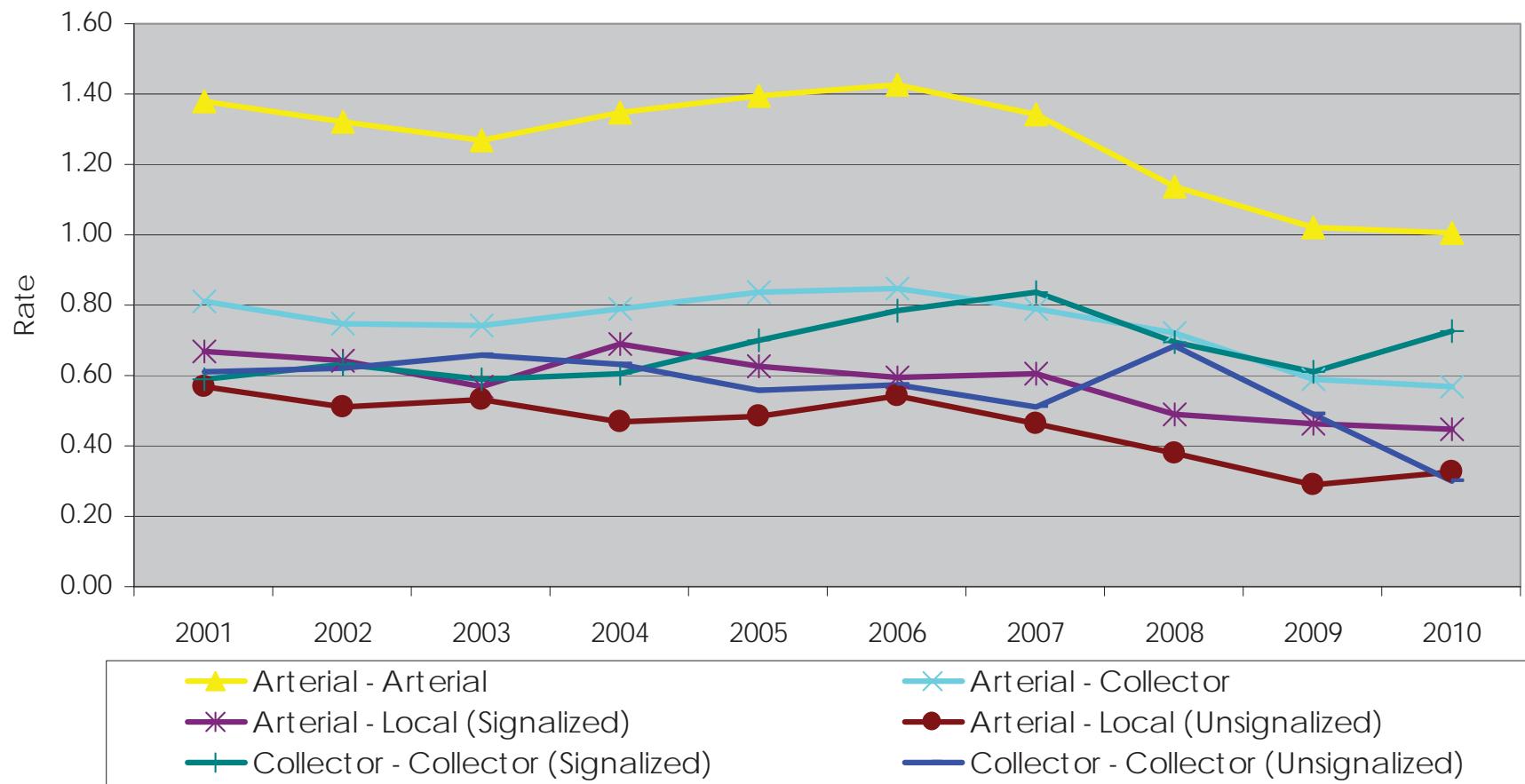


**City of Phoenix**  
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## 2010 Phoenix Collision Rate Summary

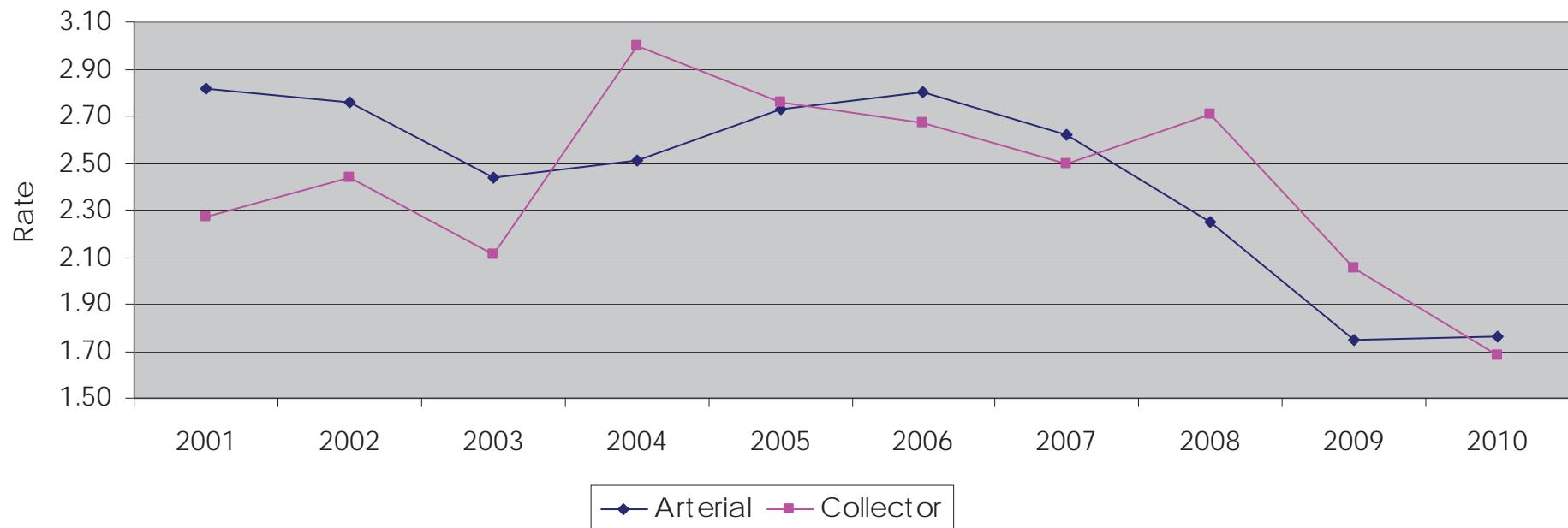
Figure 1  
Intersection Collision Rates 2001 - 2010



## 2010 Phoenix Collision Rate Summary

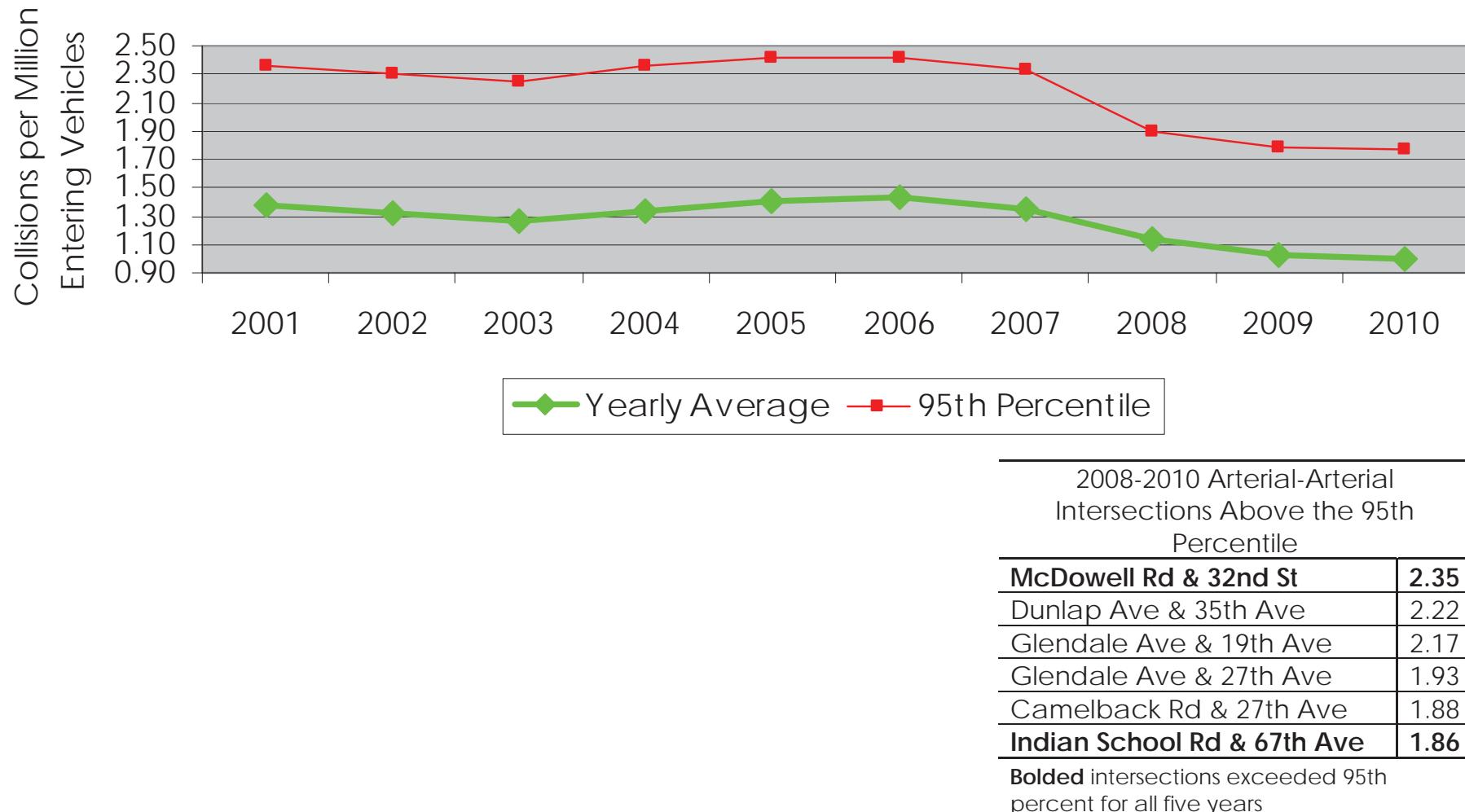
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Figure 2  
Segments Collision Rate 2001-2010



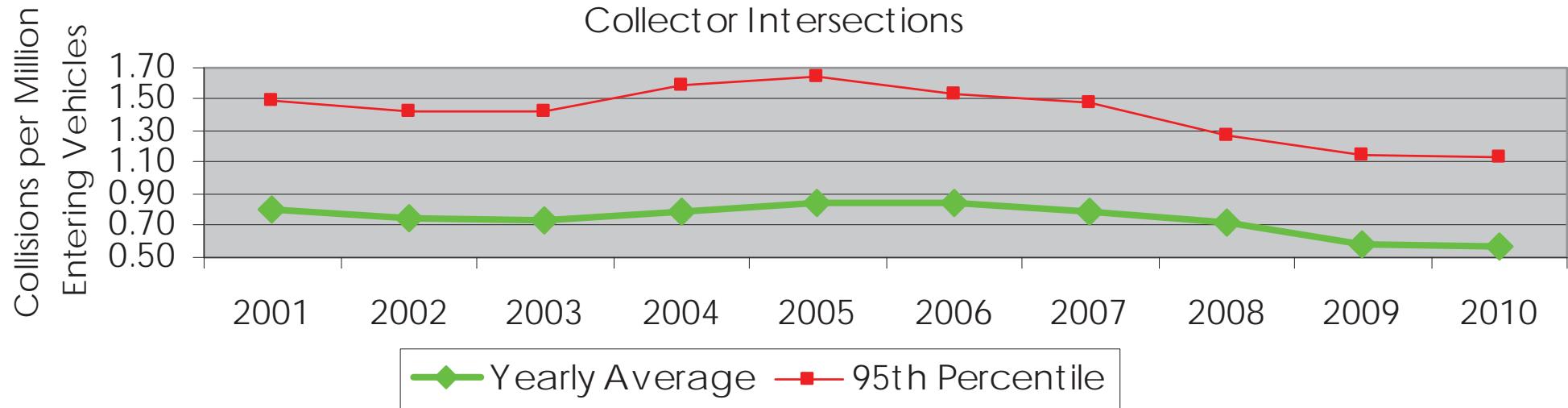
## 2010 Phoenix Collision Rate Summary

Figure 3 Yearly Average and 95th Percentile Collision Rates for Arterial-Arterial Intersections



## 2010 Phoenix Collision Rate Summary

Figure 4 Yearly Average and 95th Percentile Collision Rates for Arterial-Collector Intersections

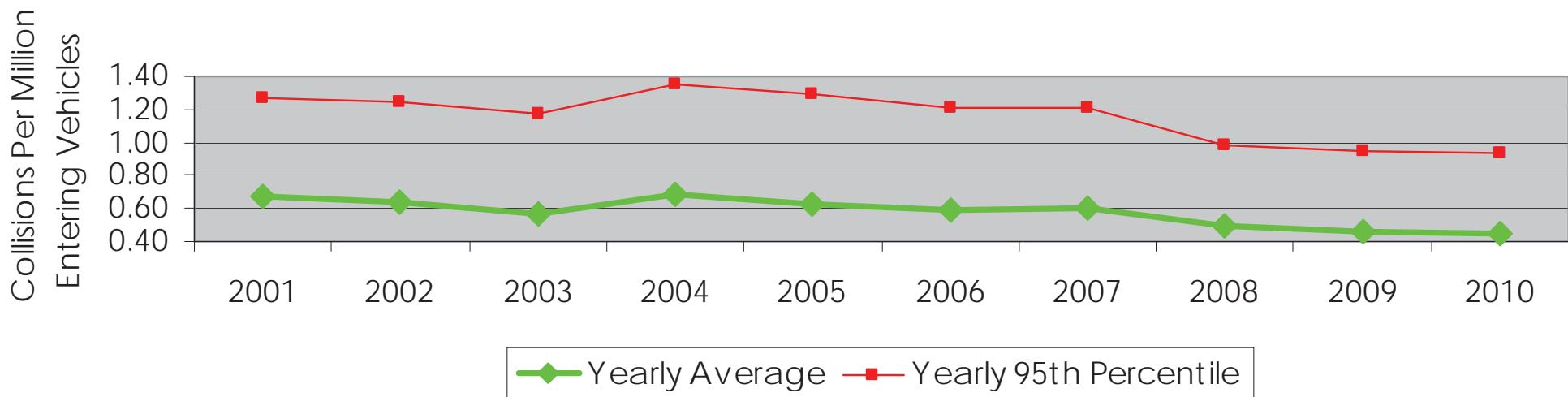


### 2008-2010 Arterial-Collector Intersections Above the 95th Percentile

7th St & Missouri Ave	1.38
7th Ave & Osborn Rd	1.31
McDowell Rd & 40th St	1.21

## 2010 Phoenix Collision Rate Summary

Figure 5 Yearly Average and 95th Percentile Collision Rates for Arterial-Local Signalized Intersections



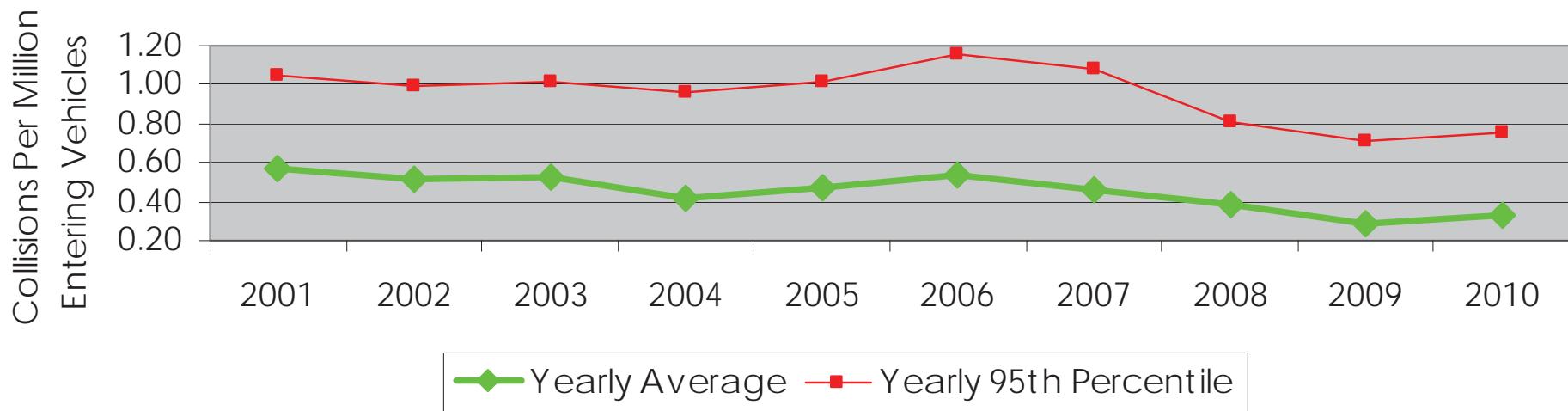
2008-2010 Intersections Above the 95th Percentile

27th Ave & Glenrosa Ave	1.11
<b>Bell Rd &amp; 9th St</b>	<b>0.99</b>
Bell Rd & 3rd St	0.98

**Bolded** intersections exceeded 95th percent for all five years

## 2010 Phoenix Collision Rate Summary

Figure 6 Yearly Average and 95th Percentile Collision Rates for Arterial-Local Unsignalized Intersections

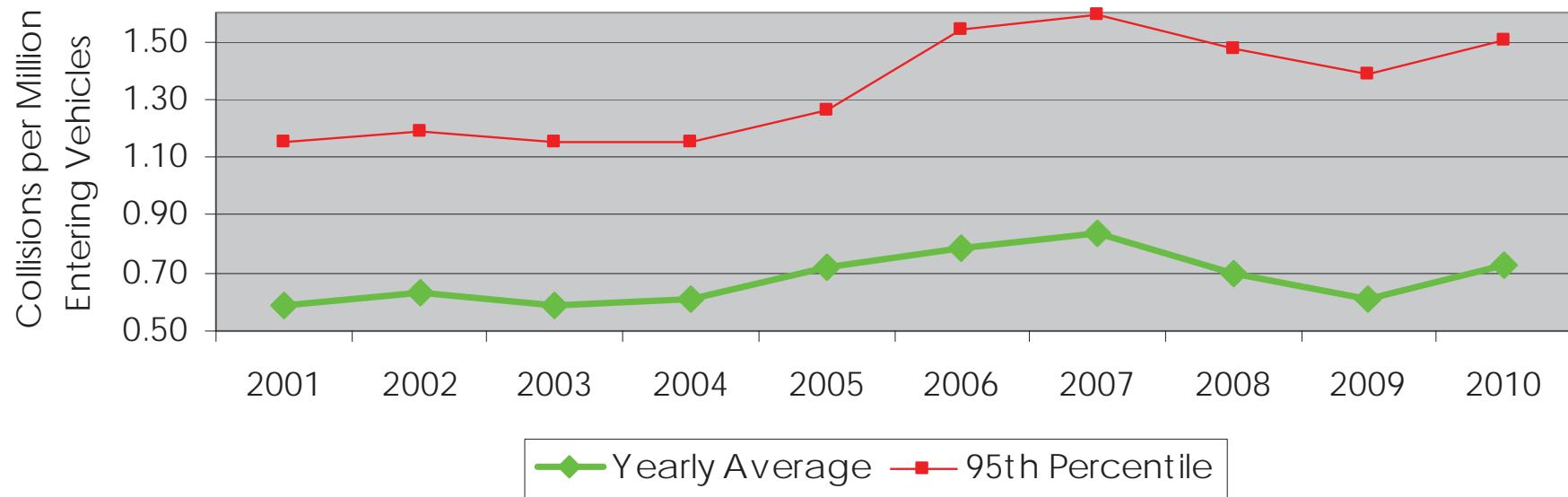


2008-2010 Intersections Above  
the 95th Percentile

Indian School Rd & 9th St	1.16
Thomas Rd & 30th St	0.76

## 2010 Phoenix Collision Rate Summary

Figure 7 Yearly Average and 95th Percentile Collision Rates for Collector-Collector or Signalized Intersections

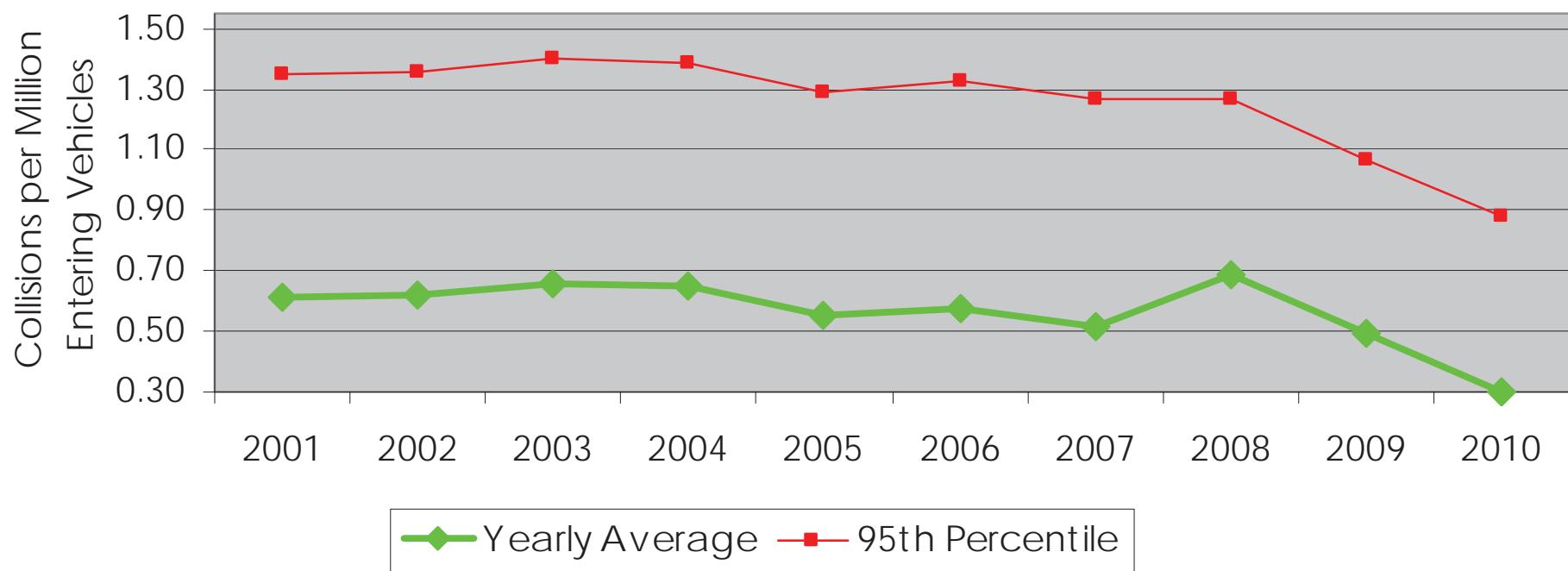


2008-2010 Intersections Above the 95th Percentile	
Maryland Ave & 39th Ave	1.61

## 2010 Phoenix Collision Rate Summary

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Figure 8 Yearly Average and 95th Percentile Collision Rates for Collector or Collector Unsignalized Intersections

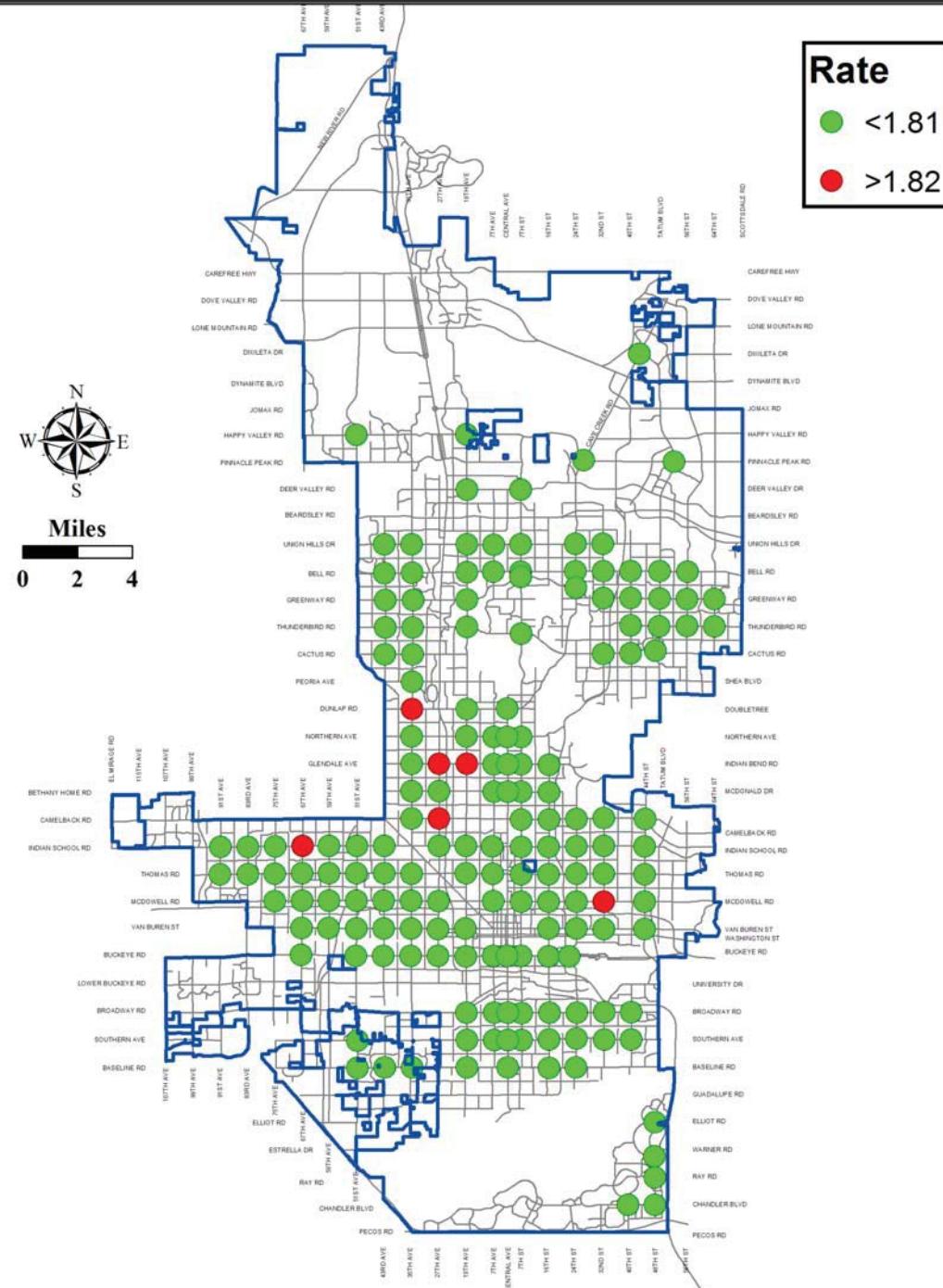


# 2010 Phoenix Collision Rate Summary

City of Phoenix  
Street Transportation Department  
Traffic Safety Section

## Arterial - Arterial Intersection Collision Rate Map 2008 - 2010 Phoenix, AZ

200 W. Washington St, 5th Floor



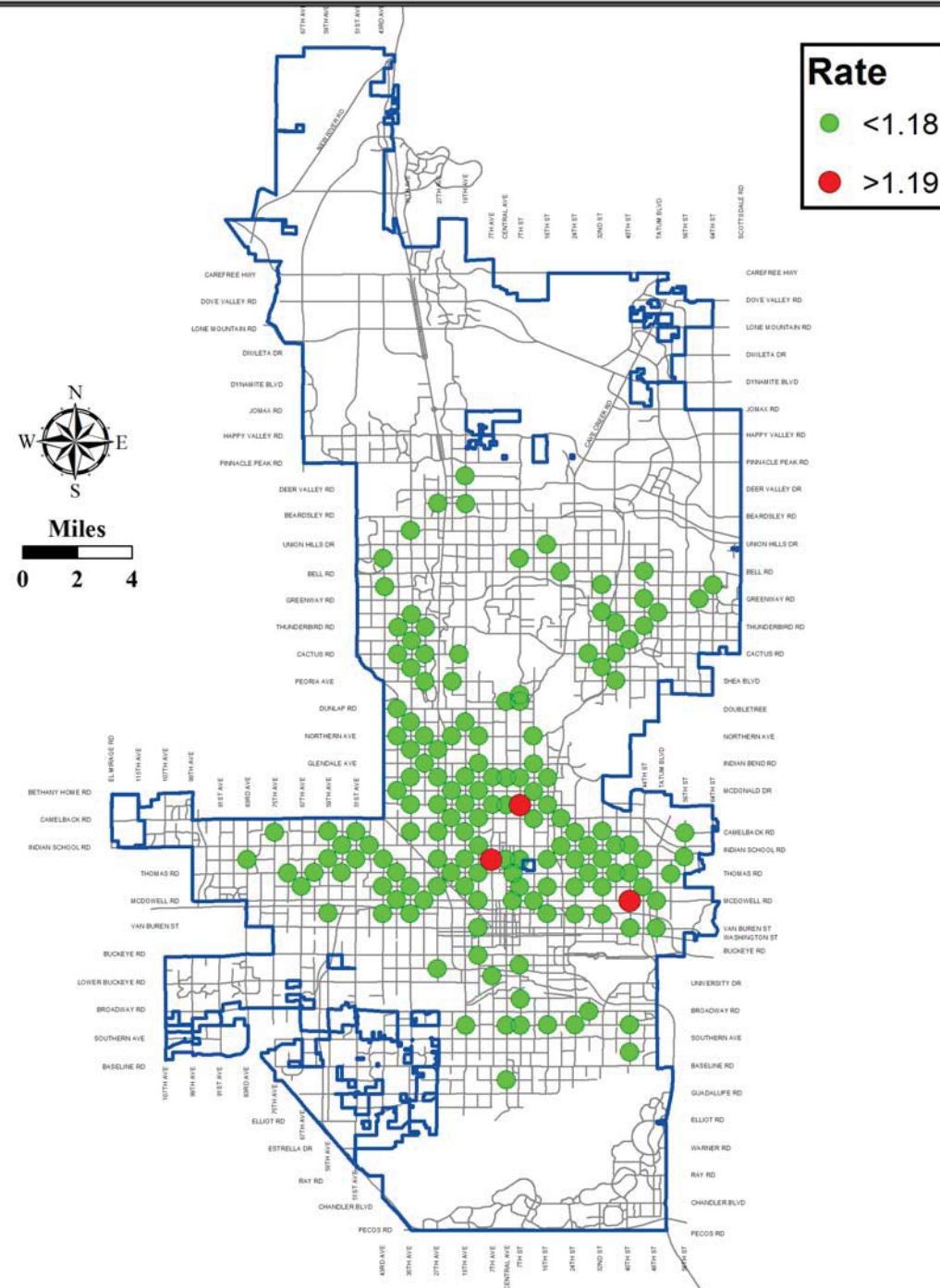
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# 2010 Phoenix Collision Rate Summary

City of Phoenix  
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Traffic Safety Section

## Arterial - Collector Intersection Collision Rate Map 2008 - 2010 Phoenix, AZ

200 W. Washington St, 5th Floor



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# 2010 Phoenix Collision Rate Summary

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- Appendix A. Arterial-Arterial Intersection Data
- Appendix B. Arterial-Collector Intersection Data
- Appendix C. Arterial-Local Intersection Data
- Appendix D. Collector-Collector Intersection Data
- Appendix E. Arterial Segment Data
- Appendix F. Collector Segment Data

Appendix A

### Arterial - Arterial Intersections

2006-2007

Intersection	Collision History					Rate Calculations				Characteristics			
	Type	2006	2007	Total	Average (collisions/y r)	Volume (veh/day)	2006 (Colls/Millio n Vehicles)	2007 (Colls/Millio n Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Baseline Rd & 16th St	PDO	14	20	34						Angle	7	Light	42
	INJ	10	15	25						Left Turn	23	Dark	13
	FTL	0	0	0						B/P	4	Twilight	4
	<b>TOTAL</b>	<b>24</b>	<b>35</b>	<b>59</b>	<b>29.50</b>	<b>54948</b>	<b>1.20</b>	<b>1.75</b>	<b>1.47</b>				
Baseline Rd & 19th Ave	PDO	16	25	41						Angle	8	Light	39
	INJ	8	14	22						Left Turn	25	Dark	21
	FTL	0	0	0						B/P	0	Twilight	3
	<b>TOTAL</b>	<b>24</b>	<b>39</b>	<b>63</b>	<b>31.50</b>	<b>32552</b>	<b>2.02</b>	<b>3.28</b>	<b>2.65</b>				
Baseline Rd & 24th St	PDO	7	21	28						Angle	6	Light	42
	INJ	20	7	27						Left Turn	30	Dark	11
	FTL	0	0	0						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>27</b>	<b>28</b>	<b>55</b>	<b>27.50</b>	<b>46814</b>	<b>1.58</b>	<b>1.64</b>	<b>1.61</b>				
Baseline Rd & 35th Ave	PDO	8	14	22						Angle	4	Light	33
	INJ	12	12	24						Left Turn	25	Dark	12
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>20</b>	<b>26</b>	<b>46</b>	<b>23.00</b>	<b>23703</b>	<b>2.31</b>	<b>3.01</b>	<b>2.66</b>				
Baseline Rd & 43rd Ave	PDO	5	7	12						Angle	2	Light	14
	INJ	4	3	7						Left Turn	8	Dark	3
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>9</b>	<b>10</b>	<b>19</b>	<b>9.50</b>	<b>30712</b>	<b>0.80</b>	<b>0.89</b>	<b>0.85</b>				
Baseline Rd & 51st Ave	PDO	8	8	16						Angle	7	Light	17
	INJ	6	7	13						Left Turn	11	Dark	11
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>14</b>	<b>15</b>	<b>29</b>	<b>14.50</b>	<b>35839</b>	<b>1.07</b>	<b>1.15</b>	<b>1.11</b>				
Baseline Rd & Central Ave	PDO	25	3	28						Angle	8	Light	28
	INJ	11	4	15						Left Turn	14	Dark	10
	FTL	0	0	0						B/P	1	Twilight	5
	<b>TOTAL</b>	<b>36</b>	<b>7</b>	<b>43</b>	<b>21.50</b>	<b>61873</b>	<b>1.59</b>	<b>0.31</b>	<b>0.95</b>				
Bell Rd & 19th Ave	PDO	19	25	44						Angle	12	Light	48
	INJ	9	13	22						Left Turn	18	Dark	17
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>28</b>	<b>38</b>	<b>66</b>	<b>33.00</b>	<b>69173</b>	<b>1.11</b>	<b>1.51</b>	<b>1.31</b>				
Bell Rd & 32nd St	PDO	11	18	29						Angle	7	Light	34
	INJ	11	13	24						Left Turn	18	Dark	17
	FTL	1	0	1						B/P	1	Twilight	3
	<b>TOTAL</b>	<b>23</b>	<b>31</b>	<b>54</b>	<b>27.00</b>	<b>66010</b>	<b>0.95</b>	<b>1.29</b>	<b>1.12</b>				

Appendix A

**Arterial - Arterial Intersections**

2006-2007

Intersection	Collision History				Rate Calculations				Characteristics				
	Type	2006	2007	Total	Average (collisions/year)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Bell Rd & 35th Ave	PDO	14	13	27						Angle	11	Light	35
	INJ	12	16	28						Left Turn	22	Dark	18
	FTL	1	1	2						B/P	2	Twilight	4
	<b>TOTAL</b>	<b>27</b>	<b>30</b>	<b>57</b>	<b>28.50</b>	<b>60793</b>	<b>1.22</b>	<b>1.35</b>	<b>1.28</b>				
Bell Rd & 40th St	PDO	19	11	30						Angle	2	Light	41
	INJ	10	10	20						Left Turn	16	Dark	9
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>29</b>	<b>21</b>	<b>50</b>	<b>25.00</b>	<b>58175</b>	<b>1.37</b>	<b>0.99</b>	<b>1.18</b>				
Bell Rd & 43rd Ave	PDO	18	15	33						Angle	8	Light	40
	INJ	16	13	29						Left Turn	24	Dark	21
	FTL	0	0	0						B/P	3	Twilight	1
	<b>TOTAL</b>	<b>34</b>	<b>28</b>	<b>62</b>	<b>31.00</b>	<b>58524</b>	<b>1.59</b>	<b>1.31</b>	<b>1.45</b>				
Bell Rd & 56th St	PDO	10	5	15						Angle	4	Light	29
	INJ	9	11	20						Left Turn	14	Dark	6
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>19</b>	<b>16</b>	<b>35</b>	<b>17.50</b>	<b>48494</b>	<b>1.07</b>	<b>0.90</b>	<b>0.99</b>				
Bell Rd & 7th Ave	PDO	11	7	18						Angle	4	Light	25
	INJ	13	8	21						Left Turn	18	Dark	13
	FTL	0	0	0						B/P	3	Twilight	1
	<b>TOTAL</b>	<b>24</b>	<b>15</b>	<b>39</b>	<b>19.50</b>	<b>55836</b>	<b>1.18</b>	<b>0.74</b>	<b>0.96</b>				
Bell Rd & 7th St	PDO	26	32	58						Angle	13	Light	54
	INJ	15	16	31						Left Turn	20	Dark	31
	FTL	0	0	0						B/P	2	Twilight	4
	<b>TOTAL</b>	<b>41</b>	<b>48</b>	<b>89</b>	<b>44.50</b>	<b>75564</b>	<b>1.49</b>	<b>1.74</b>	<b>1.61</b>				
Bell Rd & Cave Creek Rd	PDO	26	33	59						Angle	13	Light	57
	INJ	13	9	22						Left Turn	19	Dark	23
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>39</b>	<b>42</b>	<b>81</b>	<b>40.50</b>	<b>78010</b>	<b>1.37</b>	<b>1.48</b>	<b>1.42</b>				
Bell Rd & Tatum Blvd	PDO	13	11	24						Angle	4	Light	22
	INJ	6	8	14						Left Turn	3	Dark	15
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>19</b>	<b>19</b>	<b>38</b>	<b>19.00</b>	<b>70085</b>	<b>0.74</b>	<b>0.74</b>	<b>0.74</b>				
Bethany Home Rd & 16th St	PDO	19	26	45						Angle	17	Light	42
	INJ	13	5	18						Left Turn	22	Dark	14
	FTL	0	0	0						B/P	1	Twilight	7
	<b>TOTAL</b>	<b>32</b>	<b>31</b>	<b>63</b>	<b>31.50</b>	<b>58311</b>	<b>1.50</b>	<b>1.46</b>	<b>1.48</b>				

Appendix A

**Arterial - Arterial Intersections**

2006-2007

Intersection	Collision History					Rate Calculations				Characteristics			
	Type	2006	2007	Total	Average (collisions/year)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Bethany Home Rd & 27th Av	PDO	18	26	44						Angle	14	Light	36
	INJ	9	11	20						Left Turn	20	Dark	24
	FTL	0	0	0						B/P	2	Twilight	4
	<b>TOTAL</b>	<b>27</b>	<b>37</b>	<b>64</b>	<b>32.00</b>	<b>60358</b>	<b>1.23</b>	<b>1.68</b>	<b>1.45</b>				
Bethany Home Rd & 35th Av	PDO	46	30	76						Angle	23	Light	79
	INJ	21	25	46						Left Turn	50	Dark	37
	FTL	0	0	0						B/P	0	Twilight	6
	<b>TOTAL</b>	<b>67</b>	<b>55</b>	<b>122</b>	<b>61.00</b>	<b>69929</b>	<b>2.62</b>	<b>2.15</b>	<b>2.39</b>				
Bethany Home Rd & 7th Ave	PDO	16	19	35						Angle	12	Light	34
	INJ	5	8	13						Left Turn	11	Dark	13
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>21</b>	<b>27</b>	<b>48</b>	<b>24.00</b>	<b>46515</b>	<b>1.24</b>	<b>1.59</b>	<b>1.41</b>				
Bethany Home Rd & 7th St	PDO	26	18	44						Angle	17	Light	54
	INJ	8	16	24						Left Turn	19	Dark	12
	FTL	0	0	0						B/P	2	Twilight	2
	<b>TOTAL</b>	<b>34</b>	<b>34</b>	<b>68</b>	<b>34.00</b>	<b>58308</b>	<b>1.60</b>	<b>1.60</b>	<b>1.60</b>				
Bethany Home Rd & Central Ave	PDO	16	8	24						Angle	11	Light	28
	INJ	2	9	11						Left Turn	13	Dark	6
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>18</b>	<b>17</b>	<b>35</b>	<b>17.50</b>	<b>51834</b>	<b>0.95</b>	<b>0.90</b>	<b>0.92</b>				
Broadway Rd & 16th St	PDO	16	26	42						Angle	14	Light	54
	INJ	17	11	28						Left Turn	17	Dark	7
	FTL	0	0	0						B/P	1	Twilight	11
	<b>TOTAL</b>	<b>33</b>	<b>37</b>	<b>70</b>	<b>35.00</b>	<b>46812</b>	<b>1.93</b>	<b>2.17</b>	<b>2.05</b>				
Broadway Rd & 19th Ave	PDO	27	20	47						Angle	16	Light	48
	INJ	14	9	23						Left Turn	20	Dark	20
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>41</b>	<b>29</b>	<b>70</b>	<b>35.00</b>	<b>56484</b>	<b>1.99</b>	<b>1.41</b>	<b>1.70</b>				
Broadway Rd & 24th St	PDO	6	13	19						Angle	7	Light	31
	INJ	10	9	19						Left Turn	13	Dark	7
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>16</b>	<b>22</b>	<b>38</b>	<b>19.00</b>	<b>43296</b>	<b>1.01</b>	<b>1.39</b>	<b>1.20</b>				
Broadway Rd & 32nd St	PDO	22	13	35						Angle	18	Light	52
	INJ	13	17	30						Left Turn	17	Dark	13
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>35</b>	<b>30</b>	<b>65</b>	<b>32.50</b>	<b>66849</b>	<b>1.43</b>	<b>1.23</b>	<b>1.33</b>				

Appendix A

**Arterial - Arterial Intersections**

2006-2007

Intersection	Collision History				Rate Calculations				Characteristics				
	Type	2006	2007	Total	Average (collisions/year)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Broadway Rd & 40th St	PDO	24	21	45						Angle	17	Light	56
	INJ	7	18	25						Left Turn	19	Dark	10
	FTL	0	0	0						B/P	0	Twilight	4
	<b>TOTAL</b>	<b>31</b>	<b>39</b>	<b>70</b>	<b>35.00</b>	<b>57545</b>	<b>1.48</b>	<b>1.86</b>	<b>1.67</b>				
Broadway Rd & 7th Ave	PDO	22	11	33						Angle	15	Light	40
	INJ	10	11	21						Left Turn	16	Dark	13
	FTL	0	1	1						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>32</b>	<b>23</b>	<b>55</b>	<b>27.50</b>	<b>46243</b>	<b>1.90</b>	<b>1.36</b>	<b>1.63</b>				
Broadway Rd & 7th St	PDO	21	20	41						Angle	20	Light	41
	INJ	13	12	25						Left Turn	17	Dark	22
	FTL	0	0	0						B/P	3	Twilight	3
	<b>TOTAL</b>	<b>34</b>	<b>32</b>	<b>66</b>	<b>33.00</b>	<b>45824</b>	<b>2.03</b>	<b>1.91</b>	<b>1.97</b>				
Broadway Rd & Central Ave	PDO	14	9	23						Angle	6	Light	36
	INJ	11	14	25						Left Turn	15	Dark	11
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>25</b>	<b>23</b>	<b>48</b>	<b>24.00</b>	<b>59192</b>	<b>1.16</b>	<b>1.06</b>	<b>1.11</b>				
Buckeye Rd & 16th St	PDO	8	4	12						Angle	8	Light	12
	INJ	4	8	12						Left Turn	6	Dark	10
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>12</b>	<b>12</b>	<b>24</b>	<b>12.00</b>	<b>44851</b>	<b>0.73</b>	<b>0.73</b>	<b>0.73</b>				
Buckeye Rd & 19th Ave	PDO	13	12	25						Angle	7	Light	29
	INJ	5	5	10						Left Turn	8	Dark	6
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>18</b>	<b>17</b>	<b>35</b>	<b>17.50</b>	<b>41451</b>	<b>1.19</b>	<b>1.12</b>	<b>1.16</b>				
Buckeye Rd & 24th St	PDO	17	13	30						Angle	3	Light	29
	INJ	4	4	8						Left Turn	10	Dark	8
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>21</b>	<b>17</b>	<b>38</b>	<b>19.00</b>	<b>27289</b>	<b>2.11</b>	<b>1.71</b>	<b>1.91</b>				
Buckeye Rd & 27th Ave	PDO	20	12	32						Angle	9	Light	34
	INJ	7	7	14						Left Turn	15	Dark	9
	FTL	0	0	0						B/P	0	Twilight	3
	<b>TOTAL</b>	<b>27</b>	<b>19</b>	<b>46</b>	<b>23.00</b>	<b>45094</b>	<b>1.64</b>	<b>1.15</b>	<b>1.40</b>				
Buckeye Rd & 35th Ave	PDO	29	21	50						Angle	15	Light	50
	INJ	7	8	15						Left Turn	15	Dark	15
	FTL	1	0	1						B/P	2	Twilight	1
	<b>TOTAL</b>	<b>37</b>	<b>29</b>	<b>66</b>	<b>33.00</b>	<b>60958</b>	<b>1.66</b>	<b>1.30</b>	<b>1.48</b>				

Appendix A

### Arterial - Arterial Intersections

2006-2007

Intersection	Collision History				Rate Calculations				Characteristics				
	Type	2006	2007	Total	Average (collisions/year)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Buckeye Rd & 43rd Ave	PDO	10	16	26						Angle	7	Light	27
	INJ	6	2	8						Left Turn	8	Dark	5
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>16</b>	<b>18</b>	<b>34</b>	<b>17.00</b>	<b>45937</b>	<b>0.95</b>	<b>1.07</b>	<b>1.01</b>				
Buckeye Rd & 51st Ave	PDO	16	19	35						Angle	20	Light	38
	INJ	12	13	25						Left Turn	15	Dark	16
	FTL	0	0	0						B/P	0	Twilight	6
	<b>TOTAL</b>	<b>28</b>	<b>32</b>	<b>60</b>	<b>30.00</b>	<b>66023</b>	<b>1.16</b>	<b>1.33</b>	<b>1.24</b>				
Buckeye Rd & 67th Ave	PDO	7	14	21						Angle	11	Light	29
	INJ	6	9	15						Left Turn	10	Dark	5
	FTL	1	0	1						B/P	0	Twilight	3
	<b>TOTAL</b>	<b>14</b>	<b>23</b>	<b>37</b>	<b>18.50</b>	<b>36665</b>	<b>1.05</b>	<b>1.72</b>	<b>1.38</b>				
Buckeye Rd & 7th Ave	PDO	13	11	24						Angle	8	Light	28
	INJ	10	5	15						Left Turn	19	Dark	11
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>23</b>	<b>16</b>	<b>39</b>	<b>19.50</b>	<b>43205</b>	<b>1.46</b>	<b>1.01</b>	<b>1.24</b>				
Buckeye Rd & 7th St	PDO	22	14	36						Angle	9	Light	34
	INJ	9	9	18						Left Turn	16	Dark	18
	FTL	0	0	0						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>31</b>	<b>23</b>	<b>54</b>	<b>27.00</b>	<b>46832</b>	<b>1.81</b>	<b>1.35</b>	<b>1.58</b>				
Buckeye Rd & Central Ave	PDO	7	10	17						Angle	7	Light	22
	INJ	5	4	9						Left Turn	6	Dark	4
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>12</b>	<b>14</b>	<b>26</b>	<b>13.00</b>	<b>37896</b>	<b>0.87</b>	<b>1.01</b>	<b>0.94</b>				
Cactus Rd & 32nd St	PDO	14	12	26						Angle	9	Light	23
	INJ	3	6	9						Left Turn	4	Dark	11
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>17</b>	<b>18</b>	<b>35</b>	<b>17.50</b>	<b>66439</b>	<b>0.70</b>	<b>0.74</b>	<b>0.72</b>				
Cactus Rd & 35th Ave	PDO	17	18	35						Angle	12	Light	38
	INJ	7	17	24						Left Turn	25	Dark	19
	FTL	1	0	1						B/P	2	Twilight	3
	<b>TOTAL</b>	<b>25</b>	<b>35</b>	<b>60</b>	<b>30.00</b>	<b>62432</b>	<b>1.10</b>	<b>1.54</b>	<b>1.32</b>				
Cactus Rd & 40th St	PDO	8	14	22						Angle	6	Light	33
	INJ	10	10	20						Left Turn	16	Dark	8
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>18</b>	<b>24</b>	<b>42</b>	<b>21.00</b>	<b>56306</b>	<b>0.88</b>	<b>1.17</b>	<b>1.02</b>				

Appendix A

### Arterial - Arterial Intersections

2006-2007

Intersection	Collision History				Rate Calculations				Characteristics				
	Type	2006	2007	Total	Average (collisions/year)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Cactus Rd & 43rd Ave	PDO	13	8	21						Angle	10	Light	37
	INJ	16	15	31						Left Turn	17	Dark	10
	FTL	0	0	0						B/P	2	Twilight	5
	<b>TOTAL</b>	<b>29</b>	<b>23</b>	<b>52</b>	<b>26.00</b>	<b>60247</b>	<b>1.32</b>	<b>1.05</b>	<b>1.18</b>				
Cactus Rd & Tatum Blvd	PDO	18	9	27						Angle	5	Light	37
	INJ	5	15	20						Left Turn	14	Dark	9
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>23</b>	<b>24</b>	<b>47</b>	<b>23.50</b>	<b>71122</b>	<b>0.89</b>	<b>0.92</b>	<b>0.91</b>				
Camelback Rd & 16th St	PDO	27	29	56						Angle	12	Light	55
	INJ	8	9	17						Left Turn	22	Dark	18
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>35</b>	<b>38</b>	<b>73</b>	<b>36.50</b>	<b>67762</b>	<b>1.42</b>	<b>1.54</b>	<b>1.48</b>				
Camelback Rd & 24th St	PDO	14	19	33						Angle	4	Light	29
	INJ	2	2	4						Left Turn	5	Dark	5
	FTL	0	0	0						B/P	0	Twilight	3
	<b>TOTAL</b>	<b>16</b>	<b>21</b>	<b>37</b>	<b>18.50</b>	<b>75012</b>	<b>0.58</b>	<b>0.77</b>	<b>0.68</b>				
Camelback Rd & 27th Ave	PDO	33	26	59						Angle	28	Light	54
	INJ	18	19	37						Left Turn	24	Dark	40
	FTL	1	0	1						B/P	2	Twilight	3
	<b>TOTAL</b>	<b>52</b>	<b>45</b>	<b>97</b>	<b>48.50</b>	<b>65182</b>	<b>2.19</b>	<b>1.89</b>	<b>2.04</b>				
Camelback Rd & 32nd St	PDO	8	10	18						Angle	3	Light	21
	INJ	4	6	10						Left Turn	12	Dark	5
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>12</b>	<b>16</b>	<b>28</b>	<b>14.00</b>	<b>52809</b>	<b>0.62</b>	<b>0.83</b>	<b>0.73</b>				
Camelback Rd & 35th Ave	PDO	28	27	55						Angle	16	Light	68
	INJ	21	20	41						Left Turn	36	Dark	24
	FTL	0	0	0						B/P	5	Twilight	4
	<b>TOTAL</b>	<b>49</b>	<b>47</b>	<b>96</b>	<b>48.00</b>	<b>66439</b>	<b>2.02</b>	<b>1.94</b>	<b>1.98</b>				
Camelback Rd & 44th St	PDO	15	13	28						Angle	4	Light	27
	INJ	3	13	16						Left Turn	23	Dark	14
	FTL	0	0	0						B/P	1	Twilight	3
	<b>TOTAL</b>	<b>18</b>	<b>26</b>	<b>44</b>	<b>22.00</b>	<b>65510</b>	<b>0.75</b>	<b>1.09</b>	<b>0.92</b>				
Camelback Rd & 7th St	PDO	42	27	69						Angle	22	Light	82
	INJ	23	10	33						Left Turn	24	Dark	19
	FTL	0	0	0						B/P	3	Twilight	1
	<b>TOTAL</b>	<b>65</b>	<b>37</b>	<b>102</b>	<b>51.00</b>	<b>78014</b>	<b>2.28</b>	<b>1.30</b>	<b>1.79</b>				

Appendix A

**Arterial - Arterial Intersections**

2006-2007

Intersection	Collision History				Rate Calculations				Characteristics				
	Type	2006	2007	Total	Average (collisions/year)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Cave Creek Rd & Tatum Blvd	PDO	7	8	15						Angle	1	Light	15
	INJ	2	4	6						Left Turn	6	Dark	6
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>9</b>	<b>12</b>	<b>21</b>	<b>10.50</b>	<b>44299</b>	<b>0.56</b>	<b>0.74</b>	<b>0.65</b>				
	PDO	3	9	12						Angle	3	Light	22
	INJ	6	7	13						Left Turn	8	Dark	3
Chandler Blvd & 40th St	FTL	0	0	0						B/P	3	Twilight	0
	<b>TOTAL</b>	<b>9</b>	<b>16</b>	<b>25</b>	<b>12.50</b>	<b>44587</b>	<b>0.55</b>	<b>0.98</b>	<b>0.77</b>				
	PDO	6	13	19						Angle	5	Light	22
Chandler Blvd & 48th St	INJ	11	9	20						Left Turn	18	Dark	16
	FTL	0	0	0						B/P	2	Twilight	1
	<b>TOTAL</b>	<b>17</b>	<b>22</b>	<b>39</b>	<b>19.50</b>	<b>60954</b>	<b>0.76</b>	<b>0.99</b>	<b>0.88</b>				
	PDO	11	7	18						Angle	6	Light	25
Deer Valley Rd & 19th Ave	INJ	7	5	12						Left Turn	8	Dark	3
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>18</b>	<b>12</b>	<b>30</b>	<b>15.00</b>	<b>49028</b>	<b>1.01</b>	<b>0.67</b>	<b>0.84</b>				
	PDO	4	3	7						Angle	3	Light	7
Deer Valley Rd & 7th St	INJ	0	5	5						Left Turn	7	Dark	5
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>8</b>	<b>12</b>	<b>6.00</b>	<b>18710</b>	<b>0.59</b>	<b>1.17</b>	<b>0.88</b>				
Dunlap Ave & 19th Ave	PDO	32	36	68						Angle	17	Light	71
	INJ	16	14	30						Left Turn	41	Dark	23
	FTL	0	0	0						B/P	2	Twilight	4
	<b>TOTAL</b>	<b>48</b>	<b>50</b>	<b>98</b>	<b>49.00</b>	<b>70595</b>	<b>1.86</b>	<b>1.94</b>	<b>1.90</b>				
Dunlap Ave & 35th Ave	PDO	32	36	68						Angle	19	Light	93
	INJ	27	29	56						Left Turn	48	Dark	26
	FTL	0	0	0						B/P	2	Twilight	5
	<b>TOTAL</b>	<b>59</b>	<b>65</b>	<b>124</b>	<b>62.00</b>	<b>77256</b>	<b>2.09</b>	<b>2.31</b>	<b>2.20</b>				
Dunlap Ave & Central Ave	PDO	16	11	27						Angle	14	Light	30
	INJ	9	9	18						Left Turn	8	Dark	15
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>25</b>	<b>20</b>	<b>45</b>	<b>22.50</b>	<b>38014</b>	<b>1.80</b>	<b>1.44</b>	<b>1.62</b>				
Elliot Rd & 48th St	PDO	5	13	18						Angle	4	Light	13
	INJ	2	4	6						Left Turn	5	Dark	9
	FTL	0	0	0						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>7</b>	<b>17</b>	<b>24</b>	<b>12.00</b>	<b>49158</b>	<b>0.39</b>	<b>0.95</b>	<b>0.67</b>				

Appendix A

### Arterial - Arterial Intersections

2006-2007

Intersection	Collision History				Rate Calculations				Characteristics				
	Type	2006	2007	Total	Average (collisions/year)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Glendale Ave & 16th St	PDO	19	21	40						Angle	18	Light	42
	INJ	8	10	18						Left Turn	8	Dark	10
	FTL	0	0	0						B/P	2	Twilight	6
	<b>TOTAL</b>	<b>27</b>	<b>31</b>	<b>58</b>	<b>29.00</b>	<b>68493</b>	<b>1.08</b>	<b>1.24</b>	<b>1.16</b>				
Glendale Ave & 19th Ave	PDO	17	26	43						Angle	15	Light	46
	INJ	20	6	26						Left Turn	23	Dark	19
	FTL	0	0	0						B/P	3	Twilight	4
	<b>TOTAL</b>	<b>37</b>	<b>32</b>	<b>69</b>	<b>34.50</b>	<b>63451</b>	<b>1.60</b>	<b>1.38</b>	<b>1.49</b>				
Glendale Ave & 27th Ave	PDO	18	29	47						Angle	11	Light	45
	INJ	17	10	27						Left Turn	24	Dark	27
	FTL	0	0	0						B/P	4	Twilight	2
	<b>TOTAL</b>	<b>35</b>	<b>39</b>	<b>74</b>	<b>37.00</b>	<b>52809</b>	<b>1.82</b>	<b>2.02</b>	<b>1.92</b>				
Glendale Ave & 35th Ave	PDO	28	25	53						Angle	17	Light	56
	INJ	29	18	47						Left Turn	38	Dark	37
	FTL	0	0	0						B/P	6	Twilight	7
	<b>TOTAL</b>	<b>57</b>	<b>43</b>	<b>100</b>	<b>50.00</b>	<b>75743</b>	<b>2.06</b>	<b>1.56</b>	<b>1.81</b>				
Glendale Ave & 7th Ave	PDO	9	19	28						Angle	11	Light	35
	INJ	6	12	18						Left Turn	5	Dark	11
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>15</b>	<b>31</b>	<b>46</b>	<b>23.00</b>	<b>47782</b>	<b>0.86</b>	<b>1.78</b>	<b>1.32</b>				
Glendale Ave & 7th St	PDO	30	23	53						Angle	14	Light	54
	INJ	11	8	19						Left Turn	18	Dark	14
	FTL	0	0	0						B/P	0	Twilight	4
	<b>TOTAL</b>	<b>41</b>	<b>31</b>	<b>72</b>	<b>36.00</b>	<b>78723</b>	<b>1.43</b>	<b>1.08</b>	<b>1.25</b>				
Glendale Ave & Central Ave	PDO	8	12	20						Angle	5	Light	30
	INJ	9	6	15						Left Turn	7	Dark	4
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>17</b>	<b>18</b>	<b>35</b>	<b>17.50</b>	<b>55058</b>	<b>0.85</b>	<b>0.90</b>	<b>0.87</b>				
Greenway Pkwy & 7th St	PDO	25	18	43						Angle	9	Light	48
	INJ	12	8	20						Left Turn	15	Dark	14
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>37</b>	<b>26</b>	<b>63</b>	<b>31.50</b>	<b>65177</b>	<b>1.56</b>	<b>1.09</b>	<b>1.32</b>				
Greenway Pkwy & Cave Creek	PDO	4	19	23						Angle	12	Light	31
	INJ	9	18	27						Left Turn	18	Dark	13
	FTL	0	0	0						B/P	3	Twilight	6
	<b>TOTAL</b>	<b>13</b>	<b>37</b>	<b>50</b>	<b>25.00</b>	<b>61096</b>	<b>0.58</b>	<b>1.66</b>	<b>1.12</b>				

Appendix A

**Arterial - Arterial Intersections**

2006-2007

Intersection	Collision History				Rate Calculations				Characteristics				
	Type	2006	2007	Total	Average (collisions/year)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Greenway Rd & 19th Ave	PDO	25	15	40						Angle	6	Light	49
	INJ	14	8	22						Left Turn	25	Dark	7
	FTL	0	0	0						B/P	1	Twilight	6
	<b>TOTAL</b>	<b>39</b>	<b>23</b>	<b>62</b>	<b>31.00</b>	<b>64125</b>	<b>1.67</b>	<b>0.98</b>	<b>1.32</b>				
Greenway Rd & 32nd St	PDO	19	13	32						Angle	11	Light	43
	INJ	20	11	31						Left Turn	29	Dark	16
	FTL	0	0	0						B/P	3	Twilight	4
	<b>TOTAL</b>	<b>39</b>	<b>24</b>	<b>63</b>	<b>31.50</b>	<b>65963</b>	<b>1.62</b>	<b>1.00</b>	<b>1.31</b>				
Greenway Rd & 35th Ave	PDO	14	9	23						Angle	10	Light	22
	INJ	14	1	15						Left Turn	13	Dark	14
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>28</b>	<b>10</b>	<b>38</b>	<b>19.00</b>	<b>62080</b>	<b>1.24</b>	<b>0.44</b>	<b>0.84</b>				
Greenway Rd & 40th St	PDO	19	8	27						Angle	7	Light	32
	INJ	8	5	13						Left Turn	13	Dark	3
	FTL	0	0	0						B/P	0	Twilight	5
	<b>TOTAL</b>	<b>27</b>	<b>13</b>	<b>40</b>	<b>20.00</b>	<b>56549</b>	<b>1.31</b>	<b>0.63</b>	<b>0.97</b>				
Greenway Rd & 43rd Ave	PDO	6	7	13						Angle	12	Light	22
	INJ	16	3	19						Left Turn	8	Dark	8
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>22</b>	<b>10</b>	<b>32</b>	<b>16.00</b>	<b>48422</b>	<b>1.24</b>	<b>0.57</b>	<b>0.91</b>				
Greenway Rd & 56th St	PDO	7	4	11						Angle	2	Light	13
	INJ	6	3	9						Left Turn	8	Dark	6
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>13</b>	<b>7</b>	<b>20</b>	<b>10.00</b>	<b>51016</b>	<b>0.70</b>	<b>0.38</b>	<b>0.54</b>				
Greenway Rd & 64th St	PDO	4	14	18						Angle	7	Light	23
	INJ	7	6	13						Left Turn	7	Dark	7
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>11</b>	<b>20</b>	<b>31</b>	<b>15.50</b>	<b>36727</b>	<b>0.82</b>	<b>1.49</b>	<b>1.16</b>				
Greenway Rd & Tatum Blvd	PDO	12	9	21						Angle	8	Light	25
	INJ	9	10	19						Left Turn	18	Dark	14
	FTL	0	0	0						B/P	2	Twilight	1
	<b>TOTAL</b>	<b>21</b>	<b>19</b>	<b>40</b>	<b>20.00</b>	<b>62926</b>	<b>0.91</b>	<b>0.83</b>	<b>0.87</b>				
Happy Valley Rd & 19th Ave	PDO	0	3	3						Angle	1	Light	5
	INJ	1	3	4						Left Turn	3	Dark	1
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>1</b>	<b>6</b>	<b>7</b>	<b>3.50</b>	<b>20837</b>	<b>0.13</b>	<b>0.79</b>	<b>0.46</b>				

Appendix A

### Arterial - Arterial Intersections

2006-2007

Intersection	Collision History				Rate Calculations				Characteristics				
	Type	2006	2007	Total	Average (collisions/year)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Happy Valley Rd & 51st Ave	PDO	2	1	3						Angle	4	Light	8
	INJ	3	2	5						Left Turn	1	Dark	0
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>3</b>	<b>8</b>	<b>4.00</b>	<b>24829</b>	<b>0.55</b>	<b>0.33</b>	<b>0.44</b>				
Indian School Rd & 16th St	PDO	34	29	63						Angle	25	Light	62
	INJ	13	13	26						Left Turn	27	Dark	26
	FTL	2	0	2						B/P	3	Twilight	3
	<b>TOTAL</b>	<b>49</b>	<b>42</b>	<b>91</b>	<b>45.50</b>	<b>72824</b>	<b>1.84</b>	<b>1.58</b>	<b>1.71</b>				
Indian School Rd & 19th Ave	PDO	28	36	64						Angle	11	Light	72
	INJ	17	18	35						Left Turn	45	Dark	24
	FTL	0	0	0						B/P	1	Twilight	3
	<b>TOTAL</b>	<b>45</b>	<b>54</b>	<b>99</b>	<b>49.50</b>	<b>74617</b>	<b>1.65</b>	<b>1.98</b>	<b>1.82</b>				
Indian School Rd & 24th St	PDO	29	22	51						Angle	16	Light	53
	INJ	14	8	22						Left Turn	13	Dark	17
	FTL	0	0	0						B/P	2	Twilight	3
	<b>TOTAL</b>	<b>43</b>	<b>30</b>	<b>73</b>	<b>36.50</b>	<b>72700</b>	<b>1.62</b>	<b>1.13</b>	<b>1.38</b>				
Indian School Rd & 27th Ave	PDO	29	33	62						Angle	21	Light	38
	INJ	27	15	42						Left Turn	31	Dark	35
	FTL	0	1	1						B/P	10	Twilight	4
	<b>TOTAL</b>	<b>56</b>	<b>49</b>	<b>105</b>	<b>52.50</b>	<b>76429</b>	<b>2.01</b>	<b>1.76</b>	<b>1.88</b>				
Indian School Rd & 32nd St	PDO	27	24	51						Angle	12	Light	53
	INJ	13	8	21						Left Turn	23	Dark	16
	FTL	0	0	0						B/P	4	Twilight	3
	<b>TOTAL</b>	<b>40</b>	<b>32</b>	<b>72</b>	<b>36.00</b>	<b>55764</b>	<b>1.97</b>	<b>1.57</b>	<b>1.77</b>				
Indian School Rd & 43rd Ave	PDO	24	32	56						Angle	15	Light	47
	INJ	11	9	20						Left Turn	8	Dark	24
	FTL	0	0	0						B/P	2	Twilight	5
	<b>TOTAL</b>	<b>35</b>	<b>41</b>	<b>76</b>	<b>38.00</b>	<b>80357</b>	<b>1.19</b>	<b>1.40</b>	<b>1.30</b>				
Indian School Rd & 44th St	PDO	22	16	38						Angle	15	Light	48
	INJ	11	17	28						Left Turn	26	Dark	18
	FTL	0	0	0						B/P	5	Twilight	0
	<b>TOTAL</b>	<b>33</b>	<b>33</b>	<b>66</b>	<b>33.00</b>	<b>66469</b>	<b>1.36</b>	<b>1.36</b>	<b>1.36</b>				
Indian School Rd & 51st Ave	PDO	40	31	71						Angle	20	Light	64
	INJ	18	16	34						Left Turn	32	Dark	36
	FTL	0	0	0						B/P	4	Twilight	5
	<b>TOTAL</b>	<b>58</b>	<b>47</b>	<b>105</b>	<b>52.50</b>	<b>83902</b>	<b>1.89</b>	<b>1.53</b>	<b>1.71</b>				

Appendix A

### Arterial - Arterial Intersections

2006-2007

Intersection	Collision History				Rate Calculations				Characteristics				
	Type	2006	2007	Total	Average (collisions/year)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Indian School Rd & 59th Ave	PDO	30	24	54						Angle	14	Light	57
	INJ	18	10	28						Left Turn	35	Dark	22
	FTL	0	0	0						B/P	0	Twilight	3
	<b>TOTAL</b>	<b>48</b>	<b>34</b>	<b>82</b>	<b>41.00</b>	<b>73860</b>	<b>1.78</b>	<b>1.26</b>	<b>1.52</b>				
Indian School Rd & 67th Ave	PDO	54	48	102						Angle	37	Light	90
	INJ	20	18	38						Left Turn	36	Dark	50
	FTL	0	1	1						B/P	2	Twilight	1
	<b>TOTAL</b>	<b>74</b>	<b>67</b>	<b>141</b>	<b>70.50</b>	<b>71062</b>	<b>2.85</b>	<b>2.58</b>	<b>2.72</b>				
Indian School Rd & 75th Ave	PDO	37	23	60						Angle	15	Light	56
	INJ	17	17	34						Left Turn	40	Dark	31
	FTL	0	0	0						B/P	5	Twilight	7
	<b>TOTAL</b>	<b>54</b>	<b>40</b>	<b>94</b>	<b>47.00</b>	<b>68484</b>	<b>2.16</b>	<b>1.60</b>	<b>1.88</b>				
Indian School Rd & 7th Ave	PDO	39	37	76						Angle	27	Light	66
	INJ	17	13	30						Left Turn	37	Dark	37
	FTL	0	0	0						B/P	3	Twilight	3
	<b>TOTAL</b>	<b>56</b>	<b>50</b>	<b>106</b>	<b>53.00</b>	<b>83299</b>	<b>1.84</b>	<b>1.64</b>	<b>1.74</b>				
Indian School Rd & 7th St	PDO	40	41	81						Angle	40	Light	85
	INJ	13	20	33						Left Turn	24	Dark	26
	FTL	0	1	1						B/P	3	Twilight	4
	<b>TOTAL</b>	<b>53</b>	<b>62</b>	<b>115</b>	<b>57.50</b>	<b>80063</b>	<b>1.81</b>	<b>2.12</b>	<b>1.97</b>				
Indian School Rd & 83rd Ave	PDO	25	21	46						Angle	10	Light	34
	INJ	8	7	15						Left Turn	16	Dark	23
	FTL	0	0	0						B/P	0	Twilight	4
	<b>TOTAL</b>	<b>33</b>	<b>28</b>	<b>61</b>	<b>30.50</b>	<b>59241</b>	<b>1.53</b>	<b>1.29</b>	<b>1.41</b>				
Indian School Rd & 91st Ave	PDO	8	5	13						Angle	9	Light	19
	INJ	5	11	16						Left Turn	6	Dark	4
	FTL	0	0	0						B/P	1	Twilight	6
	<b>TOTAL</b>	<b>13</b>	<b>16</b>	<b>29</b>	<b>14.50</b>	<b>36140</b>	<b>0.99</b>	<b>1.21</b>	<b>1.10</b>				
McDowell Rd & 16th St	PDO	21	22	43						Angle	18	Light	51
	INJ	19	12	31						Left Turn	21	Dark	18
	FTL	0	0	0						B/P	2	Twilight	5
	<b>TOTAL</b>	<b>40</b>	<b>34</b>	<b>74</b>	<b>37.00</b>	<b>68423</b>	<b>1.60</b>	<b>1.36</b>	<b>1.48</b>				
McDowell Rd & 24th St	PDO	20	20	40						Angle	8	Light	40
	INJ	9	12	21						Left Turn	23	Dark	17
	FTL	0	0	0						B/P	2	Twilight	4
	<b>TOTAL</b>	<b>29</b>	<b>32</b>	<b>61</b>	<b>30.50</b>	<b>67081</b>	<b>1.18</b>	<b>1.31</b>	<b>1.25</b>				

Appendix A

### Arterial - Arterial Intersections

2006-2007

Intersection	Collision History					Rate Calculations				Characteristics			
	Type	2006	2007	Total	Average (collisions/year)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
McDowell Rd & 27th Ave	PDO	13	23	36						Angle	14	Light	42
	INJ	9	8	17						Left Turn	16	Dark	7
	FTL	0	0	0						B/P	0	Twilight	4
	<b>TOTAL</b>	<b>22</b>	<b>31</b>	<b>53</b>	<b>26.50</b>	<b>47725</b>	<b>1.26</b>	<b>1.78</b>	<b>1.52</b>				
McDowell Rd & 32nd St	PDO	41	42	83						Angle	24	Light	79
	INJ	24	11	35						Left Turn	47	Dark	33
	FTL	0	0	0						B/P	1	Twilight	6
	<b>TOTAL</b>	<b>65</b>	<b>53</b>	<b>118</b>	<b>59.00</b>	<b>55910</b>	<b>3.19</b>	<b>2.60</b>	<b>2.89</b>				
McDowell Rd & 35th Ave	PDO	30	32	62						Angle	14	Light	62
	INJ	26	6	32						Left Turn	41	Dark	24
	FTL	0	0	0						B/P	1	Twilight	8
	<b>TOTAL</b>	<b>56</b>	<b>38</b>	<b>94</b>	<b>47.00</b>	<b>61253</b>	<b>2.50</b>	<b>1.70</b>	<b>2.10</b>				
McDowell Rd & 43rd Ave	PDO	39	32	71						Angle	24	Light	65
	INJ	18	13	31						Left Turn	37	Dark	33
	FTL	0	0	0						B/P	2	Twilight	4
	<b>TOTAL</b>	<b>57</b>	<b>45</b>	<b>102</b>	<b>51.00</b>	<b>66365</b>	<b>2.35</b>	<b>1.86</b>	<b>2.11</b>				
McDowell Rd & 44th St	PDO	30	35	65						Angle	10	Light	56
	INJ	18	12	30						Left Turn	33	Dark	36
	FTL	0	0	0						B/P	2	Twilight	3
	<b>TOTAL</b>	<b>48</b>	<b>47</b>	<b>95</b>	<b>47.50</b>	<b>75075</b>	<b>1.75</b>	<b>1.72</b>	<b>1.73</b>				
McDowell Rd & 51st Ave	PDO	43	29	72						Angle	24	Light	59
	INJ	20	8	28						Left Turn	31	Dark	38
	FTL	0	0	0						B/P	1	Twilight	3
	<b>TOTAL</b>	<b>63</b>	<b>37</b>	<b>100</b>	<b>50.00</b>	<b>75150</b>	<b>2.30</b>	<b>1.35</b>	<b>1.82</b>				
McDowell Rd & 59th Ave	PDO	29	24	53						Angle	17	Light	51
	INJ	16	11	27						Left Turn	31	Dark	27
	FTL	0	0	0						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>45</b>	<b>35</b>	<b>80</b>	<b>40.00</b>	<b>64222</b>	<b>1.92</b>	<b>1.49</b>	<b>1.71</b>				
McDowell Rd & 67th Ave	PDO	31	28	59						Angle	24	Light	58
	INJ	23	19	42						Left Turn	29	Dark	37
	FTL	0	1	1						B/P	2	Twilight	7
	<b>TOTAL</b>	<b>54</b>	<b>48</b>	<b>102</b>	<b>51.00</b>	<b>62654</b>	<b>2.36</b>	<b>2.10</b>	<b>2.23</b>				
McDowell Rd & 75th Ave	PDO	29	26	55						Angle	19	Light	48
	INJ	11	8	19						Left Turn	24	Dark	19
	FTL	0	0	0						B/P	0	Twilight	7
	<b>TOTAL</b>	<b>40</b>	<b>34</b>	<b>74</b>	<b>37.00</b>	<b>62731</b>	<b>1.75</b>	<b>1.48</b>	<b>1.62</b>				

Appendix A

### Arterial - Arterial Intersections

2006-2007

Intersection	Collision History				Rate Calculations				Characteristics				
	Type	2006	2007	Total	Average (collisions/year)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
McDowell Rd & 7th Ave	PDO	20	27	47						Angle	15	Light	52
	INJ	10	13	23						Left Turn	19	Dark	16
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>30</b>	<b>40</b>	<b>70</b>	<b>35.00</b>	<b>52334</b>	<b>1.57</b>	<b>2.09</b>	<b>1.83</b>				
McDowell Rd & 7th St	PDO	31	27	58						Angle	25	Light	71
	INJ	14	20	34						Left Turn	25	Dark	20
	FTL	0	0	0						B/P	3	Twilight	1
	<b>TOTAL</b>	<b>45</b>	<b>47</b>	<b>92</b>	<b>46.00</b>	<b>71171</b>	<b>1.73</b>	<b>1.81</b>	<b>1.77</b>				
Northern Ave & 19th Ave	PDO	35	20	55						Angle	17	Light	70
	INJ	16	19	35						Left Turn	31	Dark	15
	FTL	0	0	0						B/P	3	Twilight	5
	<b>TOTAL</b>	<b>51</b>	<b>39</b>	<b>90</b>	<b>45.00</b>	<b>74939</b>	<b>1.86</b>	<b>1.43</b>	<b>1.65</b>				
Northern Ave & 35th Ave	PDO	30	30	60						Angle	23	Light	71
	INJ	24	22	46						Left Turn	31	Dark	31
	FTL	1	0	1						B/P	8	Twilight	5
	<b>TOTAL</b>	<b>55</b>	<b>52</b>	<b>107</b>	<b>53.50</b>	<b>77628</b>	<b>1.94</b>	<b>1.84</b>	<b>1.89</b>				
Northern Ave & 7th Ave	PDO	14	10	24						Angle	10	Light	32
	INJ	9	6	15						Left Turn	8	Dark	8
	FTL	0	1	1						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>23</b>	<b>17</b>	<b>40</b>	<b>20.00</b>	<b>51582</b>	<b>1.22</b>	<b>0.90</b>	<b>1.06</b>				
Northern Ave & 7th St	PDO	24	21	45						Angle	18	Light	49
	INJ	14	17	31						Left Turn	25	Dark	24
	FTL	1	0	1						B/P	2	Twilight	4
	<b>TOTAL</b>	<b>39</b>	<b>38</b>	<b>77</b>	<b>38.50</b>	<b>69693</b>	<b>1.53</b>	<b>1.49</b>	<b>1.51</b>				
Northern Ave & Central Ave	PDO	14	9	23						Angle	8	Light	28
	INJ	9	7	16						Left Turn	12	Dark	10
	FTL	0	0	0						B/P	2	Twilight	1
	<b>TOTAL</b>	<b>23</b>	<b>16</b>	<b>39</b>	<b>19.50</b>	<b>54346</b>	<b>1.16</b>	<b>0.81</b>	<b>0.98</b>				
Peoria Ave & 35th Ave	PDO	29	23	52						Angle	12	Light	66
	INJ	22	24	46						Left Turn	38	Dark	31
	FTL	0	0	0						B/P	3	Twilight	1
	<b>TOTAL</b>	<b>51</b>	<b>47</b>	<b>98</b>	<b>49.00</b>	<b>76146</b>	<b>1.83</b>	<b>1.69</b>	<b>1.76</b>				
Macle Peak Dr & Cave Creek	PDO	1	2	3						Angle	1	Light	6
	INJ	1	4	5						Left Turn	1	Dark	2
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>6</b>	<b>8</b>	<b>4.00</b>	<b>41969</b>	<b>0.13</b>	<b>0.39</b>	<b>0.26</b>				

Appendix A

### Arterial - Arterial Intersections

2006-2007

Intersection	Collision History				Rate Calculations				Characteristics				
	Type	2006	2007	Total	Average (collisions/year)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Innacile Peak Rd & Tatum Bl	PDO	5	4	9						Angle	3	Light	10
	INJ	3	3	6						Left Turn	5	Dark	5
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>8</b>	<b>7</b>	<b>15</b>	<b>7.50</b>	<b>35059</b>	<b>0.63</b>	<b>0.55</b>	<b>0.59</b>				
Ray Rd & 48th St	PDO	9	14	23						Angle	10	Light	37
	INJ	12	16	28						Left Turn	23	Dark	12
	FTL	0	0	0						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>21</b>	<b>30</b>	<b>51</b>	<b>25.50</b>	<b>61528</b>	<b>0.94</b>	<b>1.34</b>	<b>1.14</b>				
Southern Ave & 16th St	PDO	17	12	29						Angle	17	Light	31
	INJ	5	12	17						Left Turn	9	Dark	9
	FTL	0	0	0						B/P	0	Twilight	6
	<b>TOTAL</b>	<b>22</b>	<b>24</b>	<b>46</b>	<b>23.00</b>	<b>36078</b>	<b>1.67</b>	<b>1.82</b>	<b>1.75</b>				
Southern Ave & 19th Ave	PDO	9	12	21						Angle	11	Light	23
	INJ	11	7	18						Left Turn	12	Dark	14
	FTL	1	0	1						B/P	2	Twilight	3
	<b>TOTAL</b>	<b>21</b>	<b>19</b>	<b>40</b>	<b>20.00</b>	<b>30106</b>	<b>1.91</b>	<b>1.73</b>	<b>1.82</b>				
Southern Ave & 24th St	PDO	19	17	36						Angle	9	Light	31
	INJ	8	4	12						Left Turn	12	Dark	14
	FTL	0	0	0						B/P	1	Twilight	3
	<b>TOTAL</b>	<b>27</b>	<b>21</b>	<b>48</b>	<b>24.00</b>	<b>36599</b>	<b>2.02</b>	<b>1.57</b>	<b>1.80</b>				
Southern Ave & 32nd St	PDO	5	5	10						Angle	10	Light	21
	INJ	9	7	16						Left Turn	3	Dark	4
	FTL	0	0	0						B/P	3	Twilight	1
	<b>TOTAL</b>	<b>14</b>	<b>12</b>	<b>26</b>	<b>13.00</b>	<b>35853</b>	<b>1.07</b>	<b>0.92</b>	<b>0.99</b>				
Southern Ave & 40th St	PDO	10	9	19						Angle	8	Light	27
	INJ	8	9	17						Left Turn	11	Dark	8
	FTL	0	0	0						B/P	4	Twilight	1
	<b>TOTAL</b>	<b>18</b>	<b>18</b>	<b>36</b>	<b>18.00</b>	<b>42810</b>	<b>1.15</b>	<b>1.15</b>	<b>1.15</b>				
Southern Ave & 51st Ave	PDO	7	12	19						Angle	5	Light	16
	INJ	5	6	11						Left Turn	8	Dark	12
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>12</b>	<b>18</b>	<b>30</b>	<b>15.00</b>	<b>31374</b>	<b>1.05</b>	<b>1.57</b>	<b>1.31</b>				
Southern Ave & 7th Ave	PDO	8	12	20						Angle	9	Light	19
	INJ	6	13	19						Left Turn	11	Dark	15
	FTL	0	0	0						B/P	3	Twilight	5
	<b>TOTAL</b>	<b>14</b>	<b>25</b>	<b>39</b>	<b>19.50</b>	<b>41132</b>	<b>0.93</b>	<b>1.67</b>	<b>1.30</b>				

Appendix A

### Arterial - Arterial Intersections

2006-2007

Intersection	Collision History					Rate Calculations				Characteristics			
	Type	2006	2007	Total	Average (collisions/year)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Southern Ave & 7th St	PDO	13	11	24						Angle	11	Light	32
	INJ	10	8	18						Left Turn	12	Dark	9
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>23</b>	<b>19</b>	<b>42</b>	<b>21.00</b>	<b>50625</b>	<b>1.24</b>	<b>1.03</b>	<b>1.14</b>				
Southern Ave & Central Ave	PDO	27	21	48						Angle	8	Light	50
	INJ	10	8	18						Left Turn	13	Dark	13
	FTL	0	0	0						B/P	2	Twilight	3
	<b>TOTAL</b>	<b>37</b>	<b>29</b>	<b>66</b>	<b>33.00</b>	<b>47258</b>	<b>2.15</b>	<b>1.68</b>	<b>1.91</b>				
Thomas Rd & 16th St	PDO	52	34	86						Angle	21	Light	100
	INJ	24	12	36						Left Turn	32	Dark	17
	FTL	0	0	0						B/P	5	Twilight	5
	<b>TOTAL</b>	<b>76</b>	<b>46</b>	<b>122</b>	<b>61.00</b>	<b>71353</b>	<b>2.92</b>	<b>1.77</b>	<b>2.34</b>				
Thomas Rd & 19th Ave	PDO	25	10	35						Angle	8	Light	38
	INJ	12	9	21						Left Turn	19	Dark	17
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>37</b>	<b>19</b>	<b>56</b>	<b>28.00</b>	<b>53940</b>	<b>1.88</b>	<b>0.97</b>	<b>1.42</b>				
Thomas Rd & 24th St	PDO	29	34	63						Angle	19	Light	58
	INJ	12	11	23						Left Turn	27	Dark	24
	FTL	0	1	1						B/P	4	Twilight	5
	<b>TOTAL</b>	<b>41</b>	<b>46</b>	<b>87</b>	<b>43.50</b>	<b>71803</b>	<b>1.56</b>	<b>1.76</b>	<b>1.66</b>				
Thomas Rd & 32nd St	PDO	30	27	57						Angle	15	Light	55
	INJ	14	16	30						Left Turn	24	Dark	28
	FTL	0	0	0						B/P	2	Twilight	4
	<b>TOTAL</b>	<b>44</b>	<b>43</b>	<b>87</b>	<b>43.50</b>	<b>70206</b>	<b>1.72</b>	<b>1.68</b>	<b>1.70</b>				
Thomas Rd & 35th Ave	PDO	25	27	52						Angle	22	Light	52
	INJ	19	10	29						Left Turn	26	Dark	24
	FTL	0	0	0						B/P	2	Twilight	5
	<b>TOTAL</b>	<b>44</b>	<b>37</b>	<b>81</b>	<b>40.50</b>	<b>64588</b>	<b>1.87</b>	<b>1.57</b>	<b>1.72</b>				
Thomas Rd & 43rd Ave	PDO	39	36	75						Angle	33	Light	75
	INJ	29	15	44						Left Turn	32	Dark	37
	FTL	0	0	0						B/P	2	Twilight	7
	<b>TOTAL</b>	<b>68</b>	<b>51</b>	<b>119</b>	<b>59.50</b>	<b>74750</b>	<b>2.49</b>	<b>1.87</b>	<b>2.18</b>				
Thomas Rd & 44th ST	PDO	22	31	53						Angle	14	Light	63
	INJ	12	18	30						Left Turn	18	Dark	15
	FTL	0	0	0						B/P	1	Twilight	5
	<b>TOTAL</b>	<b>34</b>	<b>49</b>	<b>83</b>	<b>41.50</b>	<b>86399</b>	<b>1.08</b>	<b>1.55</b>	<b>1.32</b>				

Appendix A

**Arterial - Arterial Intersections**

2006-2007

Intersection	Collision History				Rate Calculations				Characteristics				
	Type	2006	2007	Total	Average (collisions/year)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Thomas Rd & 51st Ave	PDO	35	31	66						Angle	18	Light	59
	INJ	19	18	37						Left Turn	38	Dark	39
	FTL	1	0	1						B/P	1	Twilight	6
	<b>TOTAL</b>	<b>55</b>	<b>49</b>	<b>104</b>	<b>52.00</b>	<b>63429</b>	<b>2.38</b>	<b>2.12</b>	<b>2.25</b>				
Thomas Rd & 59th Ave	PDO	37	33	70						Angle	16	Light	66
	INJ	18	18	36						Left Turn	41	Dark	38
	FTL	0	1	1						B/P	2	Twilight	3
	<b>TOTAL</b>	<b>55</b>	<b>52</b>	<b>107</b>	<b>53.50</b>	<b>72194</b>	<b>2.09</b>	<b>1.97</b>	<b>2.03</b>				
Thomas Rd & 67th Ave	PDO	30	29	59						Angle	14	Light	52
	INJ	16	17	33						Left Turn	31	Dark	34
	FTL	0	1	1						B/P	2	Twilight	7
	<b>TOTAL</b>	<b>46</b>	<b>47</b>	<b>93</b>	<b>46.50</b>	<b>70901</b>	<b>1.78</b>	<b>1.82</b>	<b>1.80</b>				
Thomas Rd & 75th Ave	PDO	24	20	44						Angle	14	Light	31
	INJ	12	12	24						Left Turn	23	Dark	33
	FTL	0	0	0						B/P	4	Twilight	4
	<b>TOTAL</b>	<b>36</b>	<b>32</b>	<b>68</b>	<b>34.00</b>	<b>60970</b>	<b>1.62</b>	<b>1.44</b>	<b>1.53</b>				
Thomas Rd & 7th Ave	PDO	15	18	33						Angle	12	Light	40
	INJ	10	10	20						Left Turn	7	Dark	11
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>25</b>	<b>28</b>	<b>53</b>	<b>26.50</b>	<b>71284</b>	<b>0.96</b>	<b>1.08</b>	<b>1.02</b>				
Thomas Rd & 7th St	PDO	25	17	42						Angle	17	Light	50
	INJ	12	14	26						Left Turn	14	Dark	16
	FTL	0	0	0						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>37</b>	<b>31</b>	<b>68</b>	<b>34.00</b>	<b>79005</b>	<b>1.28</b>	<b>1.08</b>	<b>1.18</b>				
Thomas Rd & 83rd Ave	PDO	17	23	40						Angle	21	Light	39
	INJ	14	11	25						Left Turn	19	Dark	25
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>31</b>	<b>34</b>	<b>65</b>	<b>32.50</b>	<b>57738</b>	<b>1.47</b>	<b>1.61</b>	<b>1.54</b>				
Thomas Rd & 91st Ave	PDO	8	6	14						Angle	9	Light	17
	INJ	5	7	12						Left Turn	8	Dark	7
	FTL	0	0	0						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>13</b>	<b>13</b>	<b>26</b>	<b>13.00</b>	<b>39480</b>	<b>0.90</b>	<b>0.90</b>	<b>0.90</b>				
Thunderbird Rd & 19th Ave	PDO	37	26	63						Angle	14	Light	67
	INJ	16	13	29						Left Turn	24	Dark	19
	FTL	0	0	0						B/P	2	Twilight	6
	<b>TOTAL</b>	<b>53</b>	<b>39</b>	<b>92</b>	<b>46.00</b>	<b>65828</b>	<b>2.21</b>	<b>1.62</b>	<b>1.91</b>				

Appendix A

### Arterial - Arterial Intersections

2006-2007

Intersection	Collision History				Rate Calculations				Characteristics				
	Type	2006	2007	Total	Average (collisions/year)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Thunderbird Rd & 35th Ave	PDO	20	16	36						Angle	9	Light	44
	INJ	18	11	29						Left Turn	22	Dark	19
	FTL	0	0	0						B/P	4	Twilight	2
	<b>TOTAL</b>	<b>38</b>	<b>27</b>	<b>65</b>	<b>32.50</b>	<b>77030</b>	<b>1.35</b>	<b>0.96</b>	<b>1.16</b>				
Thunderbird Rd & 40th St	PDO	10	6	16						Angle	9	Light	19
	INJ	9	4	13						Left Turn	9	Dark	9
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>19</b>	<b>10</b>	<b>29</b>	<b>14.50</b>	<b>41256</b>	<b>1.26</b>	<b>0.66</b>	<b>0.96</b>				
Thunderbird Rd & 43rd Ave	PDO	8	15	23						Angle	6	Light	34
	INJ	10	11	21						Left Turn	17	Dark	9
	FTL	0	1	1						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>18</b>	<b>27</b>	<b>45</b>	<b>22.50</b>	<b>66027</b>	<b>0.75</b>	<b>1.12</b>	<b>0.93</b>				
Thunderbird Rd & 56th St	PDO	4	7	11						Angle	6	Light	13
	INJ	4	1	5						Left Turn	4	Dark	2
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>8</b>	<b>8</b>	<b>16</b>	<b>8.00</b>	<b>37003</b>	<b>0.59</b>	<b>0.59</b>	<b>0.59</b>				
Thunderbird Rd & 64th St	PDO	5	3	8						Angle	1	Light	10
	INJ	3	3	6						Left Turn	3	Dark	4
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>8</b>	<b>6</b>	<b>14</b>	<b>7.00</b>	<b>33626</b>	<b>0.65</b>	<b>0.49</b>	<b>0.57</b>				
Thunderbird Rd & 7th St	PDO	7	9	16						Angle	3	Light	20
	INJ	6	4	10						Left Turn	2	Dark	6
	FTL	1	0	1						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>14</b>	<b>13</b>	<b>27</b>	<b>13.50</b>	<b>63917</b>	<b>0.60</b>	<b>0.56</b>	<b>0.58</b>				
Thunderbird Rd & Tatum Blvd	PDO	11	0	11						Angle	1	Light	14
	INJ	8	1	9						Left Turn	7	Dark	5
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>19</b>	<b>1</b>	<b>20</b>	<b>10.00</b>	<b>62652</b>	<b>0.83</b>	<b>0.04</b>	<b>0.44</b>				
Union Hills Dr & 19th Ave	PDO	11	22	33						Angle	12	Light	44
	INJ	17	12	29						Left Turn	27	Dark	15
	FTL	1	0	1						B/P	4	Twilight	4
	<b>TOTAL</b>	<b>29</b>	<b>34</b>	<b>63</b>	<b>31.50</b>	<b>59276</b>	<b>1.34</b>	<b>1.57</b>	<b>1.46</b>				
Union Hills Dr & 32nd St	PDO	10	10	20						Angle	8	Light	21
	INJ	6	8	14						Left Turn	9	Dark	11
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>16</b>	<b>18</b>	<b>34</b>	<b>17.00</b>	<b>41082</b>	<b>1.07</b>	<b>1.20</b>	<b>1.13</b>				

Appendix A

### Arterial - Arterial Intersections

2006-2007

Intersection	Collision History					Rate Calculations				Characteristics			
	Type	2006	2007	Total	Average (collisions/year)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Union Hills Rd & 35th Ave	PDO	17	24	41						Angle	15	Light	56
	INJ	17	18	35						Left Turn	33	Dark	20
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>34</b>	<b>42</b>	<b>76</b>	<b>38.00</b>	<b>57993</b>	<b>1.61</b>	<b>1.98</b>	<b>1.80</b>				
Union Hills Dr & 43rd Ave	PDO	3	5	8						Angle	7	Light	17
	INJ	10	5	15						Left Turn	10	Dark	5
	FTL	0	1	1						B/P	2	Twilight	2
	<b>TOTAL</b>	<b>13</b>	<b>11</b>	<b>24</b>	<b>12.00</b>	<b>44184</b>	<b>0.81</b>	<b>0.68</b>	<b>0.74</b>				
Union Hills Dr & 7th Ave	PDO	12	16	28						Angle	11	Light	30
	INJ	7	8	15						Left Turn	10	Dark	11
	FTL	0	0	0						B/P	2	Twilight	2
	<b>TOTAL</b>	<b>19</b>	<b>24</b>	<b>43</b>	<b>21.50</b>	<b>50436</b>	<b>1.03</b>	<b>1.30</b>	<b>1.17</b>				
Union Hills Dr & 7th St	PDO	11	9	20						Angle	8	Light	29
	INJ	21	8	29						Left Turn	28	Dark	14
	FTL	1	0	1						B/P	0	Twilight	7
	<b>TOTAL</b>	<b>33</b>	<b>17</b>	<b>50</b>	<b>25.00</b>	<b>56326</b>	<b>1.61</b>	<b>0.83</b>	<b>1.22</b>				
Union Hills Dr & Cave Creek Rd	PDO	24	15	39						Angle	9	Light	43
	INJ	9	10	19						Left Turn	23	Dark	12
	FTL	0	0	0						B/P	0	Twilight	3
	<b>TOTAL</b>	<b>33</b>	<b>25</b>	<b>58</b>	<b>29.00</b>	<b>59799</b>	<b>1.51</b>	<b>1.15</b>	<b>1.33</b>				
Van Buren St & 16th St	PDO	24	22	46						Angle	15	Light	49
	INJ	14	11	25						Left Turn	12	Dark	18
	FTL	1	0	1						B/P	7	Twilight	5
	<b>TOTAL</b>	<b>39</b>	<b>33</b>	<b>72</b>	<b>36.00</b>	<b>56576</b>	<b>1.89</b>	<b>1.60</b>	<b>1.74</b>				
Van Buren St & 19th Ave	PDO	17	13	30						Angle	15	Light	27
	INJ	7	3	10						Left Turn	5	Dark	10
	FTL	0	0	0						B/P	2	Twilight	3
	<b>TOTAL</b>	<b>24</b>	<b>16</b>	<b>40</b>	<b>20.00</b>	<b>38752</b>	<b>1.70</b>	<b>1.13</b>	<b>1.41</b>				
Van Buren St & 24th St	PDO	25	12	37						Angle	12	Light	6
	INJ	9	8	17						Left Turn	14	Dark	2
	FTL	0	0	0						B/P	5	Twilight	0
	<b>TOTAL</b>	<b>34</b>	<b>20</b>	<b>54</b>	<b>27.00</b>	<b>44906</b>	<b>2.07</b>	<b>1.22</b>	<b>1.65</b>				
Van Buren St & 27th Ave	PDO	33	26	59						Angle	24	Light	57
	INJ	5	8	13						Left Turn	10	Dark	16
	FTL	1	0	1						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>39</b>	<b>34</b>	<b>73</b>	<b>36.50</b>	<b>50656</b>	<b>2.11</b>	<b>1.84</b>	<b>1.97</b>				

Appendix A

### Arterial - Arterial Intersections

2006-2007

Intersection	Collision History					Rate Calculations				Characteristics			
	Type	2006	2007	Total	Average (collisions/year)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Van Buren St & 32nd St	PDO	17	14	31						Angle	14	Light	36
	INJ	7	6	13						Left Turn	14	Dark	6
	FTL	0	0	0						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>24</b>	<b>20</b>	<b>44</b>	<b>22.00</b>	<b>39310</b>	<b>1.67</b>	<b>1.39</b>	<b>1.53</b>				
Van Buren St & 35th Ave	PDO	37	28	65						Angle	25	Light	61
	INJ	14	13	27						Left Turn	25	Dark	29
	FTL	0	0	0						B/P	4	Twilight	2
	<b>TOTAL</b>	<b>51</b>	<b>41</b>	<b>92</b>	<b>46.00</b>	<b>68210</b>	<b>2.05</b>	<b>1.65</b>	<b>1.85</b>				
Van Buren St & 43rd Ave	PDO	20	15	35						Angle	14	Light	34
	INJ	6	5	11						Left Turn	11	Dark	8
	FTL	0	1	1						B/P	0	Twilight	5
	<b>TOTAL</b>	<b>26</b>	<b>21</b>	<b>47</b>	<b>23.50</b>	<b>50682</b>	<b>1.41</b>	<b>1.14</b>	<b>1.27</b>				
Van Buren St & 44th St	PDO	9	13	22						Angle	11	Light	23
	INJ	4	4	8						Left Turn	6	Dark	4
	FTL	0	0	0						B/P	0	Twilight	3
	<b>TOTAL</b>	<b>13</b>	<b>17</b>	<b>30</b>	<b>15.00</b>	<b>44758</b>	<b>0.80</b>	<b>1.04</b>	<b>0.92</b>				
Van Buren St & 51st Ave	PDO	13	21	34						Angle	9	Light	39
	INJ	10	10	20						Left Turn	19	Dark	13
	FTL	0	1	1						B/P	0	Twilight	3
	<b>TOTAL</b>	<b>23</b>	<b>32</b>	<b>55</b>	<b>27.50</b>	<b>60932</b>	<b>1.03</b>	<b>1.44</b>	<b>1.24</b>				
Van Buren St & 59th Ave	PDO	12	11	23						Angle	12	Light	33
	INJ	9	6	15						Left Turn	12	Dark	3
	FTL	0	0	0						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>21</b>	<b>17</b>	<b>38</b>	<b>19.00</b>	<b>36103</b>	<b>1.59</b>	<b>1.29</b>	<b>1.44</b>				
Van Buren St & 67th Ave	PDO	6	3	9						Angle	6	Light	10
	INJ	6	5	11						Left Turn	8	Dark	8
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>12</b>	<b>8</b>	<b>20</b>	<b>10.00</b>	<b>39440</b>	<b>0.83</b>	<b>0.56</b>	<b>0.69</b>				
Warner Rd & 48th St	PDO	4	7	11						Angle	4	Light	14
	INJ	2	5	7						Left Turn	8	Dark	4
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>12</b>	<b>18</b>	<b>9.00</b>	<b>49266</b>	<b>0.33</b>	<b>0.67</b>	<b>0.50</b>				

Appendix B

**Arterial - Collector Intersections**

2006-2007

Intersection	Type					Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions /yr)	Volume (veh/day )	2006 (Colls/Millio n Vehicles)	2007 (Colls/Millio n Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
16th St & Maryland Ave	PDO	5	7	12						Angle	3	Light	13
	INJ	2	2	4						Left Turn	4	Dark	3
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>7</b>	<b>9</b>	<b>16</b>	<b>8.00</b>	<b>29061</b>	<b>0.66</b>	<b>0.85</b>	<b>0.75</b>				<b>16</b>
16th St & Missouri Ave <i>*Above 2 std. dev's</i>	PDO	15	24	39						Angle	8	Light	41
	INJ	6	6	12						Left Turn	15	Dark	7
	FTL	0	0	0						B/P	1	Twilight	3
	<b>TOTAL</b>	<b>21</b>	<b>30</b>	<b>51</b>	<b>25.50</b>	<b>40849</b>	<b>1.41</b>	<b>2.01</b>	<b>1.71</b>				<b>51</b>
16th St & Oak	PDO	6	3	9						Angle	6	Light	12
	INJ	5	5	10						Left Turn	1	Dark	5
	FTL	0	0	0						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>11</b>	<b>8</b>	<b>19</b>	<b>9.50</b>	<b>37284</b>	<b>0.81</b>	<b>0.59</b>	<b>0.70</b>				<b>19</b>
16th St & Osborn	PDO	12	11	23						Angle	7	Light	28
	INJ	7	8	15						Left Turn	10	Dark	7
	FTL	0	0	0						B/P	2	Twilight	3
	<b>TOTAL</b>	<b>19</b>	<b>19</b>	<b>38</b>	<b>19.00</b>	<b>52966</b>	<b>0.98</b>	<b>0.98</b>	<b>0.98</b>				<b>38</b>
16th St & Roeser <i>*Above 2 std. dev's</i>	PDO	9	5	14						Angle	10	Light	20
	INJ	7	6	13						Left Turn	6	Dark	6
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>16</b>	<b>11</b>	<b>27</b>	<b>13.50</b>	<b>24374</b>	<b>1.80</b>	<b>1.24</b>	<b>1.52</b>				<b>27</b>
16th St & Roosevelt <i>*Above 2 std. dev's</i>	PDO	22	13	35						Angle	7	Light	33
	INJ	7	7	14						Left Turn	13	Dark	14
	FTL	0	0	0						B/P	2	Twilight	2
	<b>TOTAL</b>	<b>29</b>	<b>20</b>	<b>49</b>	<b>24.50</b>	<b>39130</b>	<b>2.03</b>	<b>1.40</b>	<b>1.72</b>				<b>49</b>
19th Ave & Butler Dr	PDO	6	4	10						Angle	3	Light	14
	INJ	3	7	10						Left Turn	4	Dark	4
	FTL	0	0	0						B/P	3	Twilight	2
	<b>TOTAL</b>	<b>9</b>	<b>11</b>	<b>20</b>	<b>10.00</b>	<b>36987</b>	<b>0.67</b>	<b>0.81</b>	<b>0.74</b>				<b>20</b>
19th Ave & Campbell Ave	PDO	4	6	10						Angle	5	Light	15
	INJ	6	3	9						Left Turn	3	Dark	4
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>10</b>	<b>9</b>	<b>19</b>	<b>9.50</b>	<b>35347</b>	<b>0.78</b>	<b>0.70</b>	<b>0.74</b>				<b>19</b>

Appendix B

**Arterial - Collector Intersections**

2006-2007

Intersection	Type					Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions /yr)	Volume (veh/day )	2006 (Colls/Millio n Vehicles)	2007 (Colls/Millio n Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
19th Ave & Encanto Blvd	PDO	4	1	5						Angle	3	Light	5
	INJ	1	1	2						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>5</b>	<b>2</b>	<b>7</b>	<b>3.50</b>	<b>18493</b>	<b>0.74</b>	<b>0.30</b>	<b>0.52</b>				<b>7</b>
19th Ave & Maryland Ave	PDO	2	1	3						Angle	1	Light	4
	INJ	2	1	3						Left Turn	1	Dark	2
	FTL	0	0	0						B/P	2	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>2</b>	<b>6</b>	<b>3.00</b>	<b>36204</b>	<b>0.30</b>	<b>0.15</b>	<b>0.23</b>				<b>6</b>
19th Ave & Missouri Ave	PDO	8	8	16						Angle	7	Light	21
	INJ	3	4	7						Left Turn	4	Dark	2
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>11</b>	<b>12</b>	<b>23</b>	<b>11.50</b>	<b>38913</b>	<b>0.77</b>	<b>0.84</b>	<b>0.81</b>				<b>23</b>
19th Ave & Osborn Rd	PDO	9	6	15						Angle	6	Light	12
	INJ	3	1	4						Left Turn	5	Dark	6
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>12</b>	<b>7</b>	<b>19</b>	<b>9.50</b>	<b>30708</b>	<b>1.07</b>	<b>0.62</b>	<b>0.85</b>				<b>19</b>
19th Ave & Roeser	PDO	1	4	5						Angle	2	Light	5
	INJ	2	2	4						Left Turn	1	Dark	3
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>3</b>	<b>6</b>	<b>9</b>	<b>4.50</b>	<b>21764</b>	<b>0.38</b>	<b>0.76</b>	<b>0.57</b>				<b>9</b>
19th Ave & Rose Garden Ln	PDO	3	5	8						Angle	4	Light	13
	INJ	5	4	9						Left Turn	6	Dark	4
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>8</b>	<b>9</b>	<b>17</b>	<b>8.50</b>	<b>29763</b>	<b>0.74</b>	<b>0.83</b>	<b>0.78</b>				<b>17</b>
19th Ave & Williams Dr	PDO	6	0	6						Angle	8	Light	9
	INJ	3	2	5						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>9</b>	<b>2</b>	<b>11</b>	<b>5.50</b>	<b>24173</b>	<b>1.02</b>	<b>0.23</b>	<b>0.62</b>				<b>11</b>
24th St & Campbell Ave	PDO	4	4	8						Angle	7	Light	12
	INJ	2	3	5						Left Turn	2	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>7</b>	<b>13</b>	<b>6.50</b>	<b>33115</b>	<b>0.50</b>	<b>0.58</b>	<b>0.54</b>				<b>13</b>

Appendix B

**Arterial - Collector Intersections**

2006-2007

Intersection	Type					Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions /yr)	Volume (veh/day )	2006 (Colls/Millio n Vehicles)	2007 (Colls/Millio n Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
24th St & Oak St	PDO	7	9	16						Angle	9	Light	16
	INJ	2	2	4						Left Turn	5	Dark	4
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>9</b>	<b>11</b>	<b>20</b>	<b>10.00</b>	<b>36824</b>	<b>0.67</b>	<b>0.82</b>	<b>0.74</b>				<b>20</b>
24th St & Osborn	PDO	9	9	18						Angle	10	Light	22
	INJ	6	3	9						Left Turn	5	Dark	3
	FTL	1	0	1						B/P	5	Twilight	3
	<b>TOTAL</b>	<b>16</b>	<b>12</b>	<b>28</b>	<b>14.00</b>	<b>42441</b>	<b>1.03</b>	<b>0.77</b>	<b>0.90</b>				<b>28</b>
24th St & Roeser Rd	PDO	1	2	3						Angle	3	Light	4
	INJ	2	2	4						Left Turn	0	Dark	3
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>4</b>	<b>7</b>	<b>3.50</b>	<b>22560</b>	<b>0.36</b>	<b>0.49</b>	<b>0.43</b>				<b>7</b>
24th St & Roosevelt St	PDO	20	12	32						Angle	16	Light	37
	INJ	13	10	23						Left Turn	11	Dark	15
	FTL	0	0	0						B/P	3	Twilight	3
	<b>TOTAL</b>	<b>33</b>	<b>22</b>	<b>55</b>	<b>27.50</b>	<b>51132</b>	<b>1.77</b>	<b>1.18</b>	<b>1.47</b>				<b>55</b>
27th Ave & Campbell	PDO	2	4	6						Angle	4	Light	11
	INJ	4	6	10						Left Turn	6	Dark	5
	FTL	0	0	0						B/P	2	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>10</b>	<b>16</b>	<b>8.00</b>	<b>28600</b>	<b>0.57</b>	<b>0.96</b>	<b>0.77</b>				<b>16</b>
27th Ave & Durango	PDO	3	3	6						Angle	5	Light	10
	INJ	1	5	6						Left Turn	1	Dark	1
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>4</b>	<b>8</b>	<b>12</b>	<b>6.00</b>	<b>21608</b>	<b>0.51</b>	<b>1.01</b>	<b>0.76</b>				<b>12</b>
27th Ave & Encanto	PDO	3	5	8						Angle	2	Light	12
	INJ	1	5	6						Left Turn	2	Dark	1
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>4</b>	<b>10</b>	<b>14</b>	<b>7.00</b>	<b>27618</b>	<b>0.40</b>	<b>0.99</b>	<b>0.69</b>				<b>14</b>
27th Ave & Maryland	PDO	3	6	9						Angle	4	Light	9
	INJ	1	3	4						Left Turn	1	Dark	4
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>9</b>	<b>13</b>	<b>6.50</b>	<b>24792</b>	<b>0.44</b>	<b>0.99</b>	<b>0.72</b>				<b>13</b>

Appendix B

**Arterial - Collector Intersections**

2006-2007

Intersection	Type					Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions /yr)	Volume (veh/day )	2006 (Colls/Millio n Vehicles)	2007 (Colls/Millio n Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
27th Ave & Missouri	PDO	8	5	13						Angle	5	Light	14
	INJ	7	0	7						Left Turn	8	Dark	5
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>15</b>	<b>5</b>	<b>20</b>	<b>10.00</b>	<b>25726</b>	<b>1.60</b>	<b>0.53</b>	<b>1.06</b>				<b>20</b>
27th Ave & Orangewood	PDO	1	3	4						Angle	1	Light	4
	INJ	1	0	1						Left Turn	1	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>2.50</b>	<b>18494</b>	<b>0.30</b>	<b>0.44</b>	<b>0.37</b>				<b>5</b>
27th Ave & Osborn	PDO	4	2	6						Angle	3	Light	4
	INJ	0	1	1						Left Turn	2	Dark	2
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>4</b>	<b>3</b>	<b>7</b>	<b>3.50</b>	<b>24912</b>	<b>0.44</b>	<b>0.33</b>	<b>0.38</b>				<b>7</b>
27th Ave & Rose Garden Ln	PDO	2	5	7						Angle	3	Light	12
	INJ	4	1	5						Left Turn	5	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>6</b>	<b>12</b>	<b>6.00</b>	<b>21111</b>	<b>0.78</b>	<b>0.78</b>	<b>0.78</b>				<b>12</b>
32nd St & Acoma Dr	PDO	1	1	2						Angle	2	Light	5
	INJ	1	2	3						Left Turn	0	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>2.50</b>	<b>24238</b>	<b>0.23</b>	<b>0.34</b>	<b>0.28</b>				<b>5</b>
32nd St & Campbell Ave	PDO	3	6	9						Angle	8	Light	13
	INJ	3	4	7						Left Turn	3	Dark	2
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>6</b>	<b>10</b>	<b>16</b>	<b>8.00</b>	<b>31164</b>	<b>0.53</b>	<b>0.88</b>	<b>0.70</b>				<b>16</b>
32nd St & Cholla St	PDO	1	1	2						Angle	3	Light	6
	INJ	4	1	5						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>2</b>	<b>7</b>	<b>3.50</b>	<b>19579</b>	<b>0.70</b>	<b>0.28</b>	<b>0.49</b>				<b>7</b>
32nd St & Oak St	PDO	12	7	19						Angle	13	Light	18
	INJ	7	8	15						Left Turn	4	Dark	14
	FTL	0	0	0						B/P	3	Twilight	2
	<b>TOTAL</b>	<b>19</b>	<b>15</b>	<b>34</b>	<b>17.00</b>	<b>42842</b>	<b>1.22</b>	<b>0.96</b>	<b>1.09</b>				<b>34</b>

Appendix B

**Arterial - Collector Intersections**

2006-2007

Intersection	Type					Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions /yr)	Volume (veh/day )	2006 (Colls/Millio n Vehicles)	2007 (Colls/Millio n Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
32nd St & Osborn Rd  *Above 2 std. dev's	PDO	13	11	24						Angle	10	Light	22
	INJ	7	9	16						Left Turn	10	Dark	10
	FTL	0	0	0						B/P	3	Twilight	8
	<b>TOTAL</b>	<b>20</b>	<b>20</b>	<b>40</b>	<b>20.00</b>	<b>34790</b>	<b>1.58</b>	<b>1.58</b>	<b>1.58</b>				<b>40</b>
32nd St & Paradise Ln	PDO	3	1	4						Angle	1	Light	6
	INJ	3	3	6						Left Turn	2	Dark	3
	FTL	0	0	0						B/P	2	Twilight	1
	<b>TOTAL</b>	<b>6</b>	<b>4</b>	<b>10</b>	<b>5.00</b>	<b>23563</b>	<b>0.70</b>	<b>0.47</b>	<b>0.58</b>				<b>10</b>
32nd St & Roosevelt	PDO	5	4	9						Angle	7	Light	14
	INJ	5	3	8						Left Turn	5	Dark	2
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>10</b>	<b>7</b>	<b>17</b>	<b>8.50</b>	<b>29026</b>	<b>0.94</b>	<b>0.66</b>	<b>0.80</b>				<b>17</b>
35th Ave & Acoma Dr	PDO	3	0	3						Angle	1	Light	7
	INJ	1	5	6						Left Turn	1	Dark	1
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>4</b>	<b>5</b>	<b>9</b>	<b>4.50</b>	<b>32608</b>	<b>0.34</b>	<b>0.42</b>	<b>0.38</b>				<b>9</b>
35th Ave & Butler Dr	PDO	5	2	7						Angle	2	Light	7
	INJ	2	2	4						Left Turn	2	Dark	4
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>7</b>	<b>4</b>	<b>11</b>	<b>5.50</b>	<b>37372</b>	<b>0.51</b>	<b>0.29</b>	<b>0.40</b>				<b>11</b>
35th Ave & Campbell Ave Camp becomes local in one w	PDO	3	7	10						Angle	8	Light	14
	INJ	5	3	8						Left Turn	5	Dark	4
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>8</b>	<b>10</b>	<b>18</b>	<b>9.00</b>	<b>33863</b>	<b>0.65</b>	<b>0.81</b>	<b>0.73</b>				<b>18</b>
35th Ave & Cholla St	PDO	6	0	6						Angle	1	Light	7
	INJ	0	3	3						Left Turn	1	Dark	2
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>3</b>	<b>9</b>	<b>4.50</b>	<b>33822</b>	<b>0.49</b>	<b>0.24</b>	<b>0.36</b>				<b>9</b>
35th Ave & Encanto Blvd	PDO	6	5	11						Angle	6	Light	13
	INJ	5	0	5						Left Turn	2	Dark	3
	FTL	0	0	0						B/P	2	Twilight	0
	<b>TOTAL</b>	<b>11</b>	<b>5</b>	<b>16</b>	<b>8.00</b>	<b>36148</b>	<b>0.83</b>	<b>0.38</b>	<b>0.61</b>				<b>16</b>

Appendix B

**Arterial - Collector Intersections**

2006-2007

Intersection	Type					Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions /yr)	Volume (veh/day )	2006 (Colls/Millio n Vehicles)	2007 (Colls/Millio n Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
35th Ave & Maryland Ave	PDO	2	2	4						Angle	1	Light	7
	INJ	3	4	7						Left Turn	4	Dark	2
	FTL	0	0	0						B/P	2	Twilight	2
	<b>TOTAL</b>	<b>5</b>	<b>6</b>	<b>11</b>	<b>5.50</b>	<b>32555</b>	<b>0.42</b>	<b>0.50</b>	<b>0.46</b>				<b>11</b>
35th Ave & Missouri Ave	PDO	9	13	22						Angle	16	Light	27
	INJ	9	4	13						Left Turn	6	Dark	7
	FTL	1	0	1						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>19</b>	<b>17</b>	<b>36</b>	<b>18.00</b>	<b>35723</b>	<b>1.46</b>	<b>1.30</b>	<b>1.38</b>				<b>36</b>
35th Ave & Orangewood	PDO	4	1	5						Angle	4	Light	10
	INJ	1	5	6						Left Turn	3	Dark	1
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>6</b>	<b>11</b>	<b>5.50</b>	<b>32346</b>	<b>0.42</b>	<b>0.51</b>	<b>0.47</b>				<b>11</b>
35th Ave & Roosevelt  *Above 2 std. dev's	PDO	17	16	33						Angle	18	Light	34
	INJ	8	6	14						Left Turn	13	Dark	12
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>25</b>	<b>22</b>	<b>47</b>	<b>23.50</b>	<b>42735</b>	<b>1.60</b>	<b>1.41</b>	<b>1.51</b>				<b>47</b>
35th Ave & Sweetwater Ave	PDO	2	3	5						Angle	2	Light	10
	INJ	4	4	8						Left Turn	5	Dark	3
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>7</b>	<b>13</b>	<b>6.50</b>	<b>37222</b>	<b>0.44</b>	<b>0.52</b>	<b>0.48</b>				<b>13</b>
35th Ave & Yorkshire Dr	PDO	4	5	9						Angle	3	Light	11
	INJ	8	5	13						Left Turn	9	Dark	11
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>12</b>	<b>10</b>	<b>22</b>	<b>11.00</b>	<b>39203</b>	<b>0.84</b>	<b>0.70</b>	<b>0.77</b>				<b>22</b>
40th St & Roeser Rd	PDO	1	5	6						Angle	5	Light	8
	INJ	1	1	2						Left Turn	2	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>6</b>	<b>8</b>	<b>4.00</b>	<b>27569</b>	<b>0.20</b>	<b>0.60</b>	<b>0.40</b>				<b>8</b>
40th St & Sweetwater	PDO	1	2	3						Angle	2	Light	6
	INJ	1	4	5						Left Turn	3	Dark	2
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>6</b>	<b>8</b>	<b>4.00</b>	<b>14133</b>	<b>0.39</b>	<b>1.16</b>	<b>0.78</b>				<b>8</b>

Appendix B

**Arterial - Collector Intersections**

2006-2007

Intersection	Type					Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions /yr)	Volume (veh/day )	2006 (Colls/Millio n Vehicles)	2007 (Colls/Millio n Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
40th St & Vineyard	PDO	1	0	1						Angle	2	Light	2
	INJ	0	1	1						Left Turn	0	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1.00</b>	<b>15501</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>				<b>2</b>
43rd Ave & Encanto Blvd	PDO	14	6	20						Angle	10	Light	21
	INJ	5	8	13						Left Turn	6	Dark	11
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>19</b>	<b>14</b>	<b>33</b>	<b>16.50</b>	<b>44823</b>	<b>1.16</b>	<b>0.86</b>	<b>1.01</b>				<b>33</b>
43rd Ave & Grovers Ave	PDO	2	2	4						Angle	4	Light	7
	INJ	5	1	6						Left Turn	0	Dark	2
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>7</b>	<b>3</b>	<b>10</b>	<b>5.00</b>	<b>22570</b>	<b>0.85</b>	<b>0.36</b>	<b>0.61</b>				<b>10</b>
43rd Ave & Osborn Rd	PDO	8	5	13						Angle	3	Light	13
	INJ	5	7	12						Left Turn	11	Dark	11
	FTL	0	0	0						B/P	2	Twilight	1
	<b>TOTAL</b>	<b>13</b>	<b>12</b>	<b>25</b>	<b>12.50</b>	<b>45237</b>	<b>0.79</b>	<b>0.73</b>	<b>0.76</b>				<b>25</b>
43rd Ave & Paradise Ln	PDO	1	3	4						Angle	2	Light	5
	INJ	0	3	3						Left Turn	1	Dark	2
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>6</b>	<b>7</b>	<b>3.50</b>	<b>24356</b>	<b>0.11</b>	<b>0.67</b>	<b>0.39</b>				<b>7</b>
43rd Ave & Roosevelt St	PDO	12	10	22						Angle	7	Light	19
	INJ	3	0	3						Left Turn	6	Dark	5
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>15</b>	<b>10</b>	<b>25</b>	<b>12.50</b>	<b>34601</b>	<b>1.19</b>	<b>0.79</b>	<b>0.99</b>				<b>25</b>
44th St & Oak St	PDO	6	12	18						Angle	6	Light	24
	INJ	5	6	11						Left Turn	11	Dark	4
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>11</b>	<b>18</b>	<b>29</b>	<b>14.50</b>	<b>50272</b>	<b>0.60</b>	<b>0.98</b>	<b>0.79</b>				<b>29</b>
44th St & Osborn Rd	PDO	6	8	14						Angle	5	Light	14
	INJ	2	3	5						Left Turn	5	Dark	4
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>8</b>	<b>11</b>	<b>19</b>	<b>9.50</b>	<b>39366</b>	<b>0.56</b>	<b>0.77</b>	<b>0.66</b>				<b>19</b>

Appendix B

**Arterial - Collector Intersections**

2006-2007

Intersection	Type					Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions /yr)	Volume (veh/day )	2006 (Colls/Millio n Vehicles)	2007 (Colls/Millio n Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
51st Ave & Campbell Ave	PDO	7	8	15						Angle	8	Light	20
	INJ	5	5	10						Left Turn	5	Dark	5
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>12</b>	<b>13</b>	<b>25</b>	<b>12.50</b>	<b>30020</b>	<b>1.10</b>	<b>1.19</b>	<b>1.14</b>				<b>25</b>
51st Ave & Osborn Rd	PDO	5	5	10						Angle	6	Light	18
	INJ	8	7	15						Left Turn	5	Dark	7
	FTL	0	0	0						B/P	3	Twilight	0
	<b>TOTAL</b>	<b>13</b>	<b>12</b>	<b>25</b>	<b>12.50</b>	<b>42284</b>	<b>0.84</b>	<b>0.78</b>	<b>0.81</b>				<b>25</b>
59th Ave & Campbell Ave	PDO	5	5	10						Angle	1	Light	9
	INJ	2	1	3						Left Turn	2	Dark	4
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>7</b>	<b>6</b>	<b>13</b>	<b>6.50</b>	<b>27479</b>	<b>0.70</b>	<b>0.60</b>	<b>0.65</b>				<b>13</b>
59th Ave & Osborn Rd	PDO	10	8	18						Angle	9	Light	20
	INJ	11	4	15						Left Turn	5	Dark	9
	FTL	0	0	0						B/P	2	Twilight	4
	<b>TOTAL</b>	<b>21</b>	<b>12</b>	<b>33</b>	<b>16.50</b>	<b>40864</b>	<b>1.41</b>	<b>0.80</b>	<b>1.11</b>				<b>33</b>
59th Ave & Roosevelt	PDO	4	7	11						Angle	5	Light	9
	INJ	3	1	4						Left Turn	2	Dark	4
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>7</b>	<b>8</b>	<b>15</b>	<b>7.50</b>	<b>31913</b>	<b>0.60</b>	<b>0.69</b>	<b>0.64</b>				<b>15</b>
64th St & Pardise Ln	PDO	1	2	3						Angle	1	Light	3
	INJ	1	0	1						Left Turn	1	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>2.00</b>	<b>30020</b>	<b>0.18</b>	<b>0.18</b>	<b>0.18</b>				<b>4</b>
67th Ave & Encanto Blvd	PDO	7	9	16						Angle	6	Light	24
	INJ	10	5	15						Left Turn	10	Dark	7
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>17</b>	<b>14</b>	<b>31</b>	<b>15.50</b>	<b>42234</b>	<b>1.10</b>	<b>0.91</b>	<b>1.01</b>				<b>31</b>
7th Ave & Maryland Ave	PDO	2	5	7						Angle	7	Light	11
	INJ	4	2	6						Left Turn	1	Dark	2
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>7</b>	<b>13</b>	<b>6.50</b>	<b>23473</b>	<b>0.70</b>	<b>0.82</b>	<b>0.76</b>				<b>13</b>

Appendix B

**Arterial - Collector Intersections**

2006-2007

Intersection	Type					Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions /yr)	Volume (veh/day )	2006 (Colls/Millio n Vehicles)	2007 (Colls/Millio n Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
7th Ave & Missouri Ave	PDO	12	13	25						Angle	9	Light	24
	INJ	4	3	7						Left Turn	5	Dark	7
	FTL	0	0	0						B/P	2	Twilight	1
	<b>TOTAL</b>	<b>16</b>	<b>16</b>	<b>32</b>	<b>16.00</b>	<b>42976</b>	<b>1.02</b>	<b>1.02</b>	<b>1.02</b>				<b>32</b>
7th Ave & Osborn	PDO	15	9	24						Angle	9	Light	22
	INJ	1	8	9						Left Turn	7	Dark	7
	FTL	0	0	0						B/P	0	Twilight	4
	<b>TOTAL</b>	<b>16</b>	<b>17</b>	<b>33</b>	<b>16.50</b>	<b>50349</b>	<b>0.87</b>	<b>0.93</b>	<b>0.90</b>				<b>33</b>
7th Ave & Watkins St	PDO	1	2	3						Angle	2	Light	9
	INJ	5	2	7						Left Turn	1	Dark	1
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>4</b>	<b>10</b>	<b>5.00</b>	<b>24112</b>	<b>0.68</b>	<b>0.45</b>	<b>0.57</b>				<b>10</b>
7th St & Elwood St	PDO	4	2	6						Angle	4	Light	7
	INJ	2	2	4						Left Turn	1	Dark	1
	FTL	0	0	0						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>6</b>	<b>4</b>	<b>10</b>	<b>5.00</b>	<b>26089</b>	<b>0.63</b>	<b>0.42</b>	<b>0.53</b>				<b>10</b>
7th St & Grovers Ave	PDO	3	3	6						Angle	5	Light	9
	INJ	4	2	6						Left Turn	4	Dark	2
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>7</b>	<b>5</b>	<b>12</b>	<b>6.00</b>	<b>37538</b>	<b>0.51</b>	<b>0.36</b>	<b>0.44</b>				<b>12</b>
7th St & Hatcher	PDO	9	15	24						Angle	11	Light	25
	INJ	5	9	14						Left Turn	10	Dark	11
	FTL	0	0	0						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>14</b>	<b>24</b>	<b>38</b>	<b>19.00</b>	<b>42409</b>	<b>0.90</b>	<b>1.55</b>	<b>1.23</b>				<b>38</b>
7th St & Maryland Ave	PDO	7	8	15						Angle	3	Light	20
	INJ	7	1	8						Left Turn	3	Dark	3
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>14</b>	<b>9</b>	<b>23</b>	<b>11.50</b>	<b>38570</b>	<b>0.99</b>	<b>0.64</b>	<b>0.82</b>				<b>23</b>
7th St & Missouri Ave	PDO	13	15	28						Angle	15	Light	38
	INJ	14	4	18						Left Turn	6	Dark	7
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>27</b>	<b>19</b>	<b>46</b>	<b>23.00</b>	<b>52800</b>	<b>1.40</b>	<b>0.99</b>	<b>1.19</b>				<b>46</b>

Appendix B

**Arterial - Collector Intersections**

2006-2007

Intersection	Type					Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions /yr)	Volume (veh/day )	2006 (Colls/Millio n Vehicles)	2007 (Colls/Millio n Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
7th St & Mohave St	PDO	10	7	17						Angle	8	Light	19
	INJ	7	8	15						Left Turn	12	Dark	14
	FTL	1	0	1						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>18</b>	<b>15</b>	<b>33</b>	<b>16.50</b>	<b>31710</b>	<b>1.56</b>	<b>1.30</b>	<b>1.43</b>				<b>33</b>
7th St & Mountain View Rd	PDO	11	8	19						Angle	11	Light	21
	INJ	6	3	9						Left Turn	6	Dark	7
	FTL	0	0	0						B/P	2	Twilight	0
	<b>TOTAL</b>	<b>17</b>	<b>11</b>	<b>28</b>	<b>14.00</b>	<b>35492</b>	<b>1.31</b>	<b>0.85</b>	<b>1.08</b>				<b>28</b>
7th St & Oak St	PDO	8	11	19						Angle	8	Light	25
	INJ	2	8	10						Left Turn	0	Dark	3
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>10</b>	<b>19</b>	<b>29</b>	<b>14.50</b>	<b>39954</b>	<b>0.69</b>	<b>1.30</b>	<b>0.99</b>				<b>29</b>
7th St & Osborn Rd	PDO	13	11	24						Angle	14	Light	33
	INJ	8	10	18						Left Turn	12	Dark	6
	FTL	0	0	0						B/P	0	Twilight	3
	<b>TOTAL</b>	<b>21</b>	<b>21</b>	<b>42</b>	<b>21.00</b>	<b>48275</b>	<b>1.19</b>	<b>1.19</b>	<b>1.19</b>				<b>42</b>
7th St & Roeser Rd	PDO	4	11	15						Angle	6	Light	16
	INJ	4	4	8						Left Turn	4	Dark	6
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>8</b>	<b>15</b>	<b>23</b>	<b>11.50</b>	<b>29251</b>	<b>0.75</b>	<b>1.40</b>	<b>1.08</b>				<b>23</b>
75th Ave & Sells Dr	PDO	3	2	5						Angle	2	Light	4
	INJ	0	3	3						Left Turn	2	Dark	3
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>3</b>	<b>5</b>	<b>8</b>	<b>4.00</b>	<b>25673</b>	<b>0.32</b>	<b>0.53</b>	<b>0.43</b>				<b>8</b>
83rd Ave & Osborn Rd	PDO	5	3	8						Angle	6	Light	12
	INJ	4	2	6						Left Turn	4	Dark	1
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>9</b>	<b>5</b>	<b>14</b>	<b>7.00</b>	<b>33971</b>	<b>0.73</b>	<b>0.40</b>	<b>0.56</b>				<b>14</b>
Bell Rd & 20th St	PDO	2	2	4						Angle	2	Light	12
	INJ	5	5	10						Left Turn	4	Dark	1
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>7</b>	<b>7</b>	<b>14</b>	<b>7.00</b>	<b>39123</b>	<b>0.49</b>	<b>0.49</b>	<b>0.49</b>				<b>14</b>

Appendix B

**Arterial - Collector Intersections**

2006-2007

Intersection	Type					Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions /yr)	Volume (veh/day )	2006 (Colls/Millio n Vehicles)	2007 (Colls/Millio n Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Bell Rd & 44th St	PDO	3	3	6						Angle	3	Light	14
	INJ	4	4	8						Left Turn	0	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>7</b>	<b>7</b>	<b>14</b>	<b>7.00</b>	<b>36868</b>	<b>0.52</b>	<b>0.52</b>	<b>0.52</b>				<b>14</b>
Bethany Home Rd & 12th St	PDO	13	16	29						Angle	12	Light	33
	INJ	12	6	18						Left Turn	9	Dark	9
	FTL	0	0	0						B/P	1	Twilight	5
	<b>TOTAL</b>	<b>25</b>	<b>22</b>	<b>47</b>	<b>23.50</b>	<b>43314</b>	<b>1.58</b>	<b>1.39</b>	<b>1.49</b>				<b>47</b>
Bethany Home Rd & 15th Ave	PDO	6	12	18						Angle	12	Light	31
	INJ	10	10	20						Left Turn	13	Dark	7
	FTL	1	0	1						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>17</b>	<b>22</b>	<b>39</b>	<b>19.50</b>	<b>46428</b>	<b>1.00</b>	<b>1.30</b>	<b>1.15</b>				<b>39</b>
Bethany Home Rd & 23rd Ave	PDO	12	13	25						Angle	6	Light	27
	INJ	9	4	13						Left Turn	9	Dark	12
	FTL	2	0	2						B/P	2	Twilight	1
	<b>TOTAL</b>	<b>23</b>	<b>17</b>	<b>40</b>	<b>20.00</b>	<b>42910</b>	<b>1.47</b>	<b>1.09</b>	<b>1.28</b>				<b>40</b>
Bethany Home Rd & 39th Ave	PDO	8	3	11						Angle	9	Light	13
	INJ	5	4	9						Left Turn	4	Dark	5
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>13</b>	<b>7</b>	<b>20</b>	<b>10.00</b>	<b>39332</b>	<b>0.91</b>	<b>0.49</b>	<b>0.70</b>				<b>20</b>
Broadway & 28th St	PDO	7	2	9						Angle	4	Light	11
	INJ	3	2	5						Left Turn	3	Dark	3
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>10</b>	<b>4</b>	<b>14</b>	<b>7.00</b>	<b>26888</b>	<b>1.02</b>	<b>0.41</b>	<b>0.71</b>				<b>14</b>
Buckeye & 15th Ave	PDO	1	1	2						Angle	1	Light	3
	INJ	4	1	5						Left Turn	2	Dark	4
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>2</b>	<b>7</b>	<b>3.50</b>	<b>21713</b>	<b>0.63</b>	<b>0.25</b>	<b>0.44</b>				<b>7</b>
Cactus Rd & 21st Ave	PDO	3	3	6						Angle	2	Light	8
	INJ	2	2	4						Left Turn	5	Dark	2
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5.00</b>	<b>20519</b>	<b>0.67</b>	<b>0.67</b>	<b>0.67</b>				<b>10</b>

Appendix B

**Arterial - Collector Intersections**

2006-2007

Intersection	Type					Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions /yr)	Volume (veh/day )	2006 (Colls/Millio n Vehicles)	2007 (Colls/Millio n Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Cactus & 28th St	PDO	1	9	10						Angle	3	Light	13
	INJ	3	4	7						Left Turn	2	Dark	3
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>4</b>	<b>13</b>	<b>17</b>	<b>8.50</b>	<b>41478</b>	<b>0.26</b>	<b>0.86</b>	<b>0.56</b>				<b>17</b>
Cactus & 31st Ave	PDO	6	6	12						Angle	3	Light	12
	INJ	2	2	4						Left Turn	5	Dark	4
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>8</b>	<b>8</b>	<b>16</b>	<b>8.00</b>	<b>34889</b>	<b>0.63</b>	<b>0.63</b>	<b>0.63</b>				<b>16</b>
Cactus & 36th St	PDO	1	3	4						Angle	6	Light	14
	INJ	4	8	12						Left Turn	3	Dark	1
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>5</b>	<b>11</b>	<b>16</b>	<b>8.00</b>	<b>47868</b>	<b>0.29</b>	<b>0.63</b>	<b>0.46</b>				<b>16</b>
Cactus & 39th Ave	PDO	6	5	11						Angle	9	Light	18
	INJ	9	3	12						Left Turn	3	Dark	4
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>15</b>	<b>8</b>	<b>23</b>	<b>11.50</b>	<b>37048</b>	<b>1.11</b>	<b>0.59</b>	<b>0.85</b>				<b>23</b>
Camelback & 12th St	PDO	17	11	28						Angle	14	Light	33
	INJ	11	11	22						Left Turn	8	Dark	17
	FTL	0	0	0						B/P	2	Twilight	0
	<b>TOTAL</b>	<b>28</b>	<b>22</b>	<b>50</b>	<b>25.00</b>	<b>54861</b>	<b>1.40</b>	<b>1.10</b>	<b>1.25</b>				<b>50</b>
Camelback & 15th Ave	PDO	17	11	28						Angle	12	Light	26
	INJ	10	6	16						Left Turn	10	Dark	14
	FTL	0	0	0						B/P	3	Twilight	4
	<b>TOTAL</b>	<b>27</b>	<b>17</b>	<b>44</b>	<b>22.00</b>	<b>62169</b>	<b>1.19</b>	<b>0.75</b>	<b>0.97</b>				<b>44</b>
Camelback & 20th St	PDO	7	18	25						Angle	7	Light	30
	INJ	11	8	19						Left Turn	13	Dark	12
	FTL	0	0	0						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>18</b>	<b>26</b>	<b>44</b>	<b>22.00</b>	<b>55427</b>	<b>0.89</b>	<b>1.29</b>	<b>1.09</b>				<b>44</b>
Camelback & 23rd Ave	PDO	13	9	22						Angle	11	Light	28
	INJ	9	5	14						Left Turn	13	Dark	6
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>22</b>	<b>14</b>	<b>36</b>	<b>18.00</b>	<b>55534</b>	<b>1.09</b>	<b>0.69</b>	<b>0.89</b>				<b>36</b>

Appendix B

**Arterial - Collector Intersections**

2006-2007

Intersection	Type					Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions /yr)	Volume (veh/day )	2006 (Colls/Millio n Vehicles)	2007 (Colls/Millio n Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Camelback & 56th St	PDO	1	5	6						Angle	3	Light	9
	INJ	2	3	5						Left Turn	6	Dark	0
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>3</b>	<b>8</b>	<b>11</b>	<b>5.50</b>	<b>37048</b>	<b>0.22</b>	<b>0.59</b>	<b>0.41</b>				<b>11</b>
Central & Hatcher	PDO	4	1	5						Angle	7	Light	10
	INJ	7	4	11						Left Turn	3	Dark	6
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>11</b>	<b>5</b>	<b>16</b>	<b>8.00</b>	<b>27009</b>	<b>1.12</b>	<b>0.51</b>	<b>0.81</b>				<b>16</b>
Central & Missouri Ave	PDO	5	2	7						Angle	4	Light	12
	INJ	2	6	8						Left Turn	4	Dark	3
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>7</b>	<b>8</b>	<b>15</b>	<b>7.50</b>	<b>38580</b>	<b>0.50</b>	<b>0.57</b>	<b>0.53</b>				<b>15</b>
Central Ave & Maryland Ave	PDO	2	2	4						Angle	3	Light	8
	INJ	3	1	4						Left Turn	3	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>3</b>	<b>8</b>	<b>4.00</b>	<b>25803</b>	<b>0.53</b>	<b>0.32</b>	<b>0.42</b>				<b>8</b>
Central Ave & Osborn Rd	PDO	10	4	14						Angle	7	Light	17
	INJ	8	1	9						Left Turn	4	Dark	5
	FTL	0	1	1						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>18</b>	<b>6</b>	<b>24</b>	<b>12.00</b>	<b>35368</b>	<b>1.39</b>	<b>0.46</b>	<b>0.93</b>				<b>24</b>
Central Ave & Roeser	PDO	11	8	19						Angle	8	Light	22
	INJ	3	3	6						Left Turn	5	Dark	3
	FTL	0	0	0						B/P	2	Twilight	0
	<b>TOTAL</b>	<b>14</b>	<b>11</b>	<b>25</b>	<b>12.50</b>	<b>31702</b>	<b>1.21</b>	<b>0.95</b>	<b>1.08</b>				<b>25</b>
Central Ave & South Mountain	PDO	0	2	2						Angle	1	Light	6
	INJ	3	2	5						Left Turn	3	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>4</b>	<b>7</b>	<b>3.50</b>	<b>13019</b>	<b>0.63</b>	<b>0.84</b>	<b>0.74</b>				<b>7</b>
Dunlap & 39th Ave	PDO	7	2	9						Angle	7	Light	15
	INJ	6	7	13						Left Turn	6	Dark	5
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>13</b>	<b>9</b>	<b>22</b>	<b>11.00</b>	<b>42174</b>	<b>0.84</b>	<b>0.58</b>	<b>0.71</b>				<b>22</b>

Appendix B

**Arterial - Collector Intersections**

2006-2007

Intersection	Type					Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions /yr)	Volume (veh/day )	2006 (Colls/Millio n Vehicles)	2007 (Colls/Millio n Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Glendale & 12th St	PDO	9	5	14						Angle	5	Light	15
	INJ	5	5	10						Left Turn	8	Dark	7
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>14</b>	<b>10</b>	<b>24</b>	<b>12.00</b>	<b>53591</b>	<b>0.72</b>	<b>0.51</b>	<b>0.61</b>				<b>24</b>
Glendale & 15th Ave	PDO	6	7	13						Angle	7	Light	24
	INJ	11	6	17						Left Turn	7	Dark	6
	FTL	0	1	1						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>17</b>	<b>14</b>	<b>31</b>	<b>15.50</b>	<b>40414</b>	<b>1.15</b>	<b>0.95</b>	<b>1.05</b>				<b>31</b>
Glendale & 31st Ave	PDO	5	7	12						Angle	6	Light	11
	INJ	2	6	8						Left Turn	4	Dark	8
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>7</b>	<b>13</b>	<b>20</b>	<b>10.00</b>	<b>42018</b>	<b>0.46</b>	<b>0.85</b>	<b>0.65</b>				<b>20</b>
Greenway Rd & 44th St	PDO	1	4	5						Angle	3	Light	10
	INJ	2	5	7						Left Turn	6	Dark	1
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>3</b>	<b>9</b>	<b>12</b>	<b>6.00</b>	<b>40747</b>	<b>0.20</b>	<b>0.61</b>	<b>0.40</b>				<b>12</b>
Greenway Rd & 60th St	PDO	6	2	8						Angle	5	Light	8
	INJ	2	1	3						Left Turn	3	Dark	3
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>8</b>	<b>3</b>	<b>11</b>	<b>5.50</b>	<b>34839</b>	<b>0.63</b>	<b>0.24</b>	<b>0.43</b>				<b>11</b>
Indian School & 40th St	PDO	10	10	20						Angle	8	Light	24
	INJ	5	6	11						Left Turn	11	Dark	7
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>15</b>	<b>16</b>	<b>31</b>	<b>15.50</b>	<b>49117</b>	<b>0.84</b>	<b>0.89</b>	<b>0.86</b>				<b>31</b>
Indian School & 56th St	PDO	5	5	10						Angle	5	Light	15
	INJ	4	3	7						Left Turn	5	Dark	2
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>9</b>	<b>8</b>	<b>17</b>	<b>8.50</b>	<b>35324</b>	<b>0.70</b>	<b>0.62</b>	<b>0.66</b>				<b>17</b>
Indian School Rd & 15th Ave	PDO	23	14	37						Angle	8	Light	37
	INJ	8	9	17						Left Turn	22	Dark	13
	FTL	0	0	0						B/P	4	Twilight	4
	<b>TOTAL</b>	<b>31</b>	<b>23</b>	<b>54</b>	<b>27.00</b>	<b>57992</b>	<b>1.46</b>	<b>1.09</b>	<b>1.28</b>				<b>54</b>

Appendix B

**Arterial - Collector Intersections**

2006-2007

Intersection	Type					Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions /yr)	Volume (veh/day )	2006 (Colls/Millio n Vehicles)	2007 (Colls/Millio n Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Indian School Rd & 20th St	PDO	12	14	26						Angle	11	Light	31
	INJ	6	8	14						Left Turn	11	Dark	7
	FTL	0	0	0						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>18</b>	<b>22</b>	<b>40</b>	<b>20.00</b>	<b>57829</b>	<b>0.85</b>	<b>1.04</b>	<b>0.95</b>				<b>40</b>
Indian School Rd & 28th St	PDO	11	20	31						Angle	14	Light	34
	INJ	7	5	12						Left Turn	9	Dark	7
	FTL	0	0	0						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>18</b>	<b>25</b>	<b>43</b>	<b>21.50</b>	<b>41191</b>	<b>1.20</b>	<b>1.66</b>	<b>1.43</b>				<b>43</b>
Indian School Rd & 36th St	PDO	3	7	10						Angle	7	Light	12
	INJ	1	6	7						Left Turn	5	Dark	4
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>4</b>	<b>13</b>	<b>17</b>	<b>8.50</b>	<b>40364</b>	<b>0.27</b>	<b>0.88</b>	<b>0.58</b>				<b>17</b>
Indian School Rd & 47th Ave	PDO	15	21	36						Angle	17	Light	36
	INJ	3	9	12						Left Turn	14	Dark	11
	FTL	1	0	1						B/P	2	Twilight	2
	<b>TOTAL</b>	<b>19</b>	<b>30</b>	<b>49</b>	<b>24.50</b>	<b>53337</b>	<b>0.98</b>	<b>1.54</b>	<b>1.26</b>				<b>49</b>
Indian School Rd & 55th Ave	PDO	18	10	28						Angle	10	Light	22
	INJ	5	10	15						Left Turn	7	Dark	15
	FTL	0	0	0						B/P	1	Twilight	6
	<b>TOTAL</b>	<b>23</b>	<b>20</b>	<b>43</b>	<b>21.50</b>	<b>43576</b>	<b>1.45</b>	<b>1.26</b>	<b>1.35</b>				<b>43</b>
McDowell & 40th St	PDO	16	24	40						Angle	10	Light	42
	INJ	8	8	16						Left Turn	18	Dark	13
	FTL	1	0	1						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>25</b>	<b>32</b>	<b>57</b>	<b>28.50</b>	<b>56330</b>	<b>1.22</b>	<b>1.56</b>	<b>1.39</b>				<b>57</b>
McDowell Rd & 12th St	PDO	3	5	8						Angle	1	Light	11
	INJ	4	0	4						Left Turn	2	Dark	1
	FTL	0	0	0						B/P	2	Twilight	0
	<b>TOTAL</b>	<b>7</b>	<b>5</b>	<b>12</b>	<b>6.00</b>	<b>34575</b>	<b>0.55</b>	<b>0.40</b>	<b>0.48</b>				<b>12</b>
McDowell Rd & 15th Ave	PDO	4	3	7						Angle	3	Light	12
	INJ	3	3	6						Left Turn	7	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>7</b>	<b>6</b>	<b>13</b>	<b>6.50</b>	<b>34274</b>	<b>0.56</b>	<b>0.48</b>	<b>0.52</b>				<b>13</b>

Appendix B

**Arterial - Collector Intersections**

2006-2007

Intersection	Type					Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions /yr)	Volume (veh/day )	2006 (Colls/Millio n Vehicles)	2007 (Colls/Millio n Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
McDowell Rd & 31st Ave	PDO	5	4	9						Angle	5	Light	11
	INJ	3	2	5						Left Turn	3	Dark	2
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>8</b>	<b>6</b>	<b>14</b>	<b>7.00</b>	<b>29551</b>	<b>0.74</b>	<b>0.56</b>	<b>0.65</b>				<b>14</b>
McDowell Rd & 39th Ave	PDO	7	7	14						Angle	6	Light	19
	INJ	12	4	16						Left Turn	9	Dark	11
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>19</b>	<b>11</b>	<b>30</b>	<b>15.00</b>	<b>35292</b>	<b>1.47</b>	<b>0.85</b>	<b>1.16</b>				<b>30</b>
McDowell Rd & 3rd St	PDO	9	14	23						Angle	3	Light	28
	INJ	5	5	10						Left Turn	8	Dark	3
	FTL	0	0	0						B/P	2	Twilight	2
	<b>TOTAL</b>	<b>14</b>	<b>19</b>	<b>33</b>	<b>16.50</b>	<b>40605</b>	<b>0.94</b>	<b>1.28</b>	<b>1.11</b>				<b>33</b>
McDowell Rd & 48th St	PDO	20	11	31						Angle	10	Light	39
	INJ	7	13	20						Left Turn	23	Dark	10
	FTL	0	0	0						B/P	2	Twilight	2
	<b>TOTAL</b>	<b>27</b>	<b>24</b>	<b>51</b>	<b>25.50</b>	<b>48223</b>	<b>1.53</b>	<b>1.36</b>	<b>1.45</b>				<b>51</b>
Northern & 12th St	PDO	10	14	24						Angle	5	Light	20
	INJ	4	3	7						Left Turn	9	Dark	10
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>14</b>	<b>17</b>	<b>31</b>	<b>15.50</b>	<b>51984</b>	<b>0.74</b>	<b>0.90</b>	<b>0.82</b>				<b>31</b>
Northern & 15th Ave	PDO	6	7	13						Angle	9	Light	17
	INJ	7	3	10						Left Turn	2	Dark	5
	FTL	1	0	1						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>14</b>	<b>10</b>	<b>24</b>	<b>12.00</b>	<b>42083</b>	<b>0.91</b>	<b>0.65</b>	<b>0.78</b>				<b>24</b>
Northern & 23rd Ave	PDO	14	11	25						Angle	10	Light	28
	INJ	2	7	9						Left Turn	6	Dark	5
	FTL	0	0	0						B/P	3	Twilight	1
	<b>TOTAL</b>	<b>16</b>	<b>18</b>	<b>34</b>	<b>17.00</b>	<b>53615</b>	<b>0.82</b>	<b>0.92</b>	<b>0.87</b>				<b>34</b>
Northern & 31st Ave	PDO	6	12	18						Angle	12	Light	23
	INJ	6	8	14						Left Turn	6	Dark	7
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>12</b>	<b>20</b>	<b>32</b>	<b>16.00</b>	<b>50629</b>	<b>0.65</b>	<b>1.08</b>	<b>0.87</b>				<b>32</b>

Appendix B

**Arterial - Collector Intersections**

2006-2007

Intersection	Type					Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions /yr)	Volume (veh/day )	2006 (Colls/Millio n Vehicles)	2007 (Colls/Millio n Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Northern & 39th Ave	PDO	4	8	12						Angle	6	Light	14
	INJ	7	7	14						Left Turn	6	Dark	10
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>11</b>	<b>15</b>	<b>26</b>	<b>13.00</b>	<b>43016</b>	<b>0.70</b>	<b>0.96</b>	<b>0.83</b>				<b>26</b>
Peoria & 23rd Ave	PDO	12	6	18						Angle	8	Light	24
	INJ	6	5	11						Left Turn	8	Dark	4
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>18</b>	<b>11</b>	<b>29</b>	<b>14.50</b>	<b>33286</b>	<b>1.48</b>	<b>0.91</b>	<b>1.19</b>				<b>29</b>
Peoria & 31st Ave	PDO	18	5	23						Angle	3	Light	27
	INJ	5	5	10						Left Turn	6	Dark	6
	FTL	1	0	1						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>24</b>	<b>10</b>	<b>34</b>	<b>17.00</b>	<b>42068</b>	<b>1.56</b>	<b>0.65</b>	<b>1.11</b>				<b>34</b>
Shea Blvd & 36th St	PDO	3	6	9						Angle	3	Light	9
	INJ	2	2	4						Left Turn	4	Dark	3
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>5</b>	<b>8</b>	<b>13</b>	<b>6.50</b>	<b>41785</b>	<b>0.33</b>	<b>0.52</b>	<b>0.43</b>				<b>13</b>
Tatum Blvd & Acoma Dr	PDO	2	3	5						Angle	4	Light	6
	INJ	2	0	2						Left Turn	1	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>3</b>	<b>7</b>	<b>3.50</b>	<b>39177</b>	<b>0.28</b>	<b>0.21</b>	<b>0.24</b>				<b>7</b>
Thomas & 15th Ave	PDO	10	10	20						Angle	8	Light	29
	INJ	8	9	17						Left Turn	11	Dark	5
	FTL	0	0	0						B/P	1	Twilight	3
	<b>TOTAL</b>	<b>18</b>	<b>19</b>	<b>37</b>	<b>18.50</b>	<b>42660</b>	<b>1.16</b>	<b>1.22</b>	<b>1.19</b>				<b>37</b>
Thomas & 23rd Ave	PDO	7	5	12						Angle	6	Light	18
	INJ	5	7	12						Left Turn	7	Dark	3
	FTL	0	0	0						B/P	1	Twilight	3
	<b>TOTAL</b>	<b>12</b>	<b>12</b>	<b>24</b>	<b>12.00</b>	<b>34652</b>	<b>0.95</b>	<b>0.95</b>	<b>0.95</b>				<b>24</b>
Thomas & 28th St	PDO	14	13	27						Angle	17	Light	28
	INJ	11	5	16						Left Turn	9	Dark	14
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>25</b>	<b>18</b>	<b>43</b>	<b>21.50</b>	<b>41871</b>	<b>1.64</b>	<b>1.18</b>	<b>1.41</b>				<b>43</b>

Appendix B

**Arterial - Collector Intersections**

2006-2007

Intersection	Type					Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions /yr)	Volume (veh/day )	2006 (Colls/Millio n Vehicles)	2007 (Colls/Millio n Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Thomas & 36th St	PDO	19	16	35						Angle	14	Light	37
	INJ	9	9	18						Left Turn	16	Dark	14
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>28</b>	<b>25</b>	<b>53</b>	<b>26.50</b>	<b>51628</b>	<b>1.49</b>	<b>1.33</b>	<b>1.41</b>				<b>53</b>
Thomas & 39th Ave	PDO	4	11	15						Angle	7	Light	13
	INJ	5	4	9						Left Turn	4	Dark	4
	FTL	0	0	0						B/P	0	Twilight	6
	<b>TOTAL</b>	<b>9</b>	<b>15</b>	<b>24</b>	<b>12.00</b>	<b>40096</b>	<b>0.61</b>	<b>1.02</b>	<b>0.82</b>			*	<b>23</b>
Thomas & 3rd St	PDO	13	14	27						Angle	10	Light	25
	INJ	6	2	8						Left Turn	8	Dark	9
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>19</b>	<b>16</b>	<b>35</b>	<b>17.50</b>	<b>52680</b>	<b>0.99</b>	<b>0.83</b>	<b>0.91</b>				<b>35</b>
Thomas & 40th St  *Above 2 std. dev's	PDO	31	20	51						Angle	14	Light	49
	INJ	11	6	17						Left Turn	25	Dark	15
	FTL	0	0	0						B/P	1	Twilight	4
	<b>TOTAL</b>	<b>42</b>	<b>26</b>	<b>68</b>	<b>34.00</b>	<b>58198</b>	<b>1.98</b>	<b>1.22</b>	<b>1.60</b>				<b>68</b>
Thomas & 52nd St	PDO	4	10	14						Angle	4	Light	12
	INJ	4	2	6						Left Turn	7	Dark	8
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>8</b>	<b>12</b>	<b>20</b>	<b>10.00</b>	<b>39029</b>	<b>0.56</b>	<b>0.84</b>	<b>0.70</b>				<b>20</b>
Thomas & 55th Ave	PDO	11	9	20						Angle	11	Light	17
	INJ	6	5	11						Left Turn	11	Dark	14
	FTL	1	0	1						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>18</b>	<b>14</b>	<b>32</b>	<b>16.00</b>	<b>41884</b>	<b>1.18</b>	<b>0.92</b>	<b>1.05</b>				<b>32</b>
Thomas & 63rd Ave	PDO	7	6	13						Angle	4	Light	14
	INJ	5	3	8						Left Turn	5	Dark	6
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>12</b>	<b>9</b>	<b>21</b>	<b>10.50</b>	<b>37492</b>	<b>0.88</b>	<b>0.66</b>	<b>0.77</b>				<b>21</b>
Thomas & 71st Ave	PDO	5	10	15						Angle	3	Light	19
	INJ	5	4	9						Left Turn	8	Dark	4
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>10</b>	<b>14</b>	<b>24</b>	<b>12.00</b>	<b>36998</b>	<b>0.74</b>	<b>1.04</b>	<b>0.89</b>				<b>24</b>

Appendix B

**Arterial - Collector Intersections**

2006-2007

Intersection	Type					Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions /yr)	Volume (veh/day )	2006 (Colls/Millio n Vehicles)	2007 (Colls/Millio n Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Thunderbird & 31st Ave	PDO	10	4	14						Angle	5	Light	19
	INJ	4	6	10						Left Turn	8	Dark	5
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>14</b>	<b>10</b>	<b>24</b>	<b>12.00</b>	<b>48053</b>	<b>0.80</b>	<b>0.57</b>	<b>0.68</b>				<b>24</b>
Thunderbird & 36th St	PDO	1	2	3						Angle	1	Light	5
	INJ	3	0	3						Left Turn	3	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>2</b>	<b>6</b>	<b>3.00</b>	<b>28691</b>	<b>0.38</b>	<b>0.19</b>	<b>0.29</b>				<b>6</b>
Thunderbird & 39th Ave	PDO	4	2	6						Angle	2	Light	2
	INJ	0	4	4						Left Turn	2	Dark	7
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>4</b>	<b>6</b>	<b>10</b>	<b>5.00</b>	<b>42800</b>	<b>0.26</b>	<b>0.38</b>	<b>0.32</b>				<b>10</b>
Thunderbird - 44th St	PDO	3	2	5						Angle	3	Light	5
	INJ	1	2	3						Left Turn	2	Dark	3
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>4.00</b>	<b>31588</b>	<b>0.35</b>	<b>0.35</b>	<b>0.35</b>				<b>8</b>
Union Hills Dr & 16th St	PDO	6	8	14						Angle	7	Light	13
	INJ	4	5	9						Left Turn	6	Dark	9
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>10</b>	<b>13</b>	<b>23</b>	<b>11.50</b>	<b>29759</b>	<b>0.92</b>	<b>1.20</b>	<b>1.06</b>				<b>23</b>
Van Buren & 15th Ave	PDO	6	3	9						Angle	2	Light	10
	INJ	2	1	3						Left Turn	5	Dark	2
	FTL	0	1	1						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>8</b>	<b>5</b>	<b>13</b>	<b>6.50</b>	<b>24566</b>	<b>0.89</b>	<b>0.56</b>	<b>0.72</b>				<b>13</b>
Van Buren & 40th St	PDO	9	5	14						Angle	2	Light	12
	INJ	4	4	8						Left Turn	7	Dark	8
	FTL	0	0	0						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>13</b>	<b>9</b>	<b>22</b>	<b>11.00</b>	<b>36700</b>	<b>0.97</b>	<b>0.67</b>	<b>0.82</b>				<b>22</b>
Van Buren & 48th St	PDO	9	7	16						Angle	7	Light	17
	INJ	4	3	7						Left Turn	9	Dark	6
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>13</b>	<b>10</b>	<b>23</b>	<b>11.50</b>	<b>28299</b>	<b>1.26</b>	<b>0.97</b>	<b>1.11</b>				<b>23</b>

Appendix B

2008-2010

Intersection	Type	Rate Calculations										Characteristics			
		2008	2009	2010	Total	Average (collisions/ yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
16th St & Maryland Ave	PDO	2	1	2	5							Angle	0	Light	7
	INJ	2	1	1	4							Left Turn	1	Dark	3
	FTL	1	0	0	1							B/P	2	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>2</b>	<b>3</b>	<b>10</b>	<b>3.33</b>	<b>22133</b>	<b>0.62</b>	<b>0.25</b>	<b>0.37</b>	<b>0.41</b>				<b>10</b>
16th St & Missouri Ave	PDO	5	1	7	13							Angle	4	Light	24
	INJ	2	4	6	12							Left Turn	7	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>7</b>	<b>5</b>	<b>13</b>	<b>25</b>	<b>8.33</b>	<b>49506</b>	<b>0.39</b>	<b>0.28</b>	<b>0.72</b>	<b>0.46</b>				<b>25</b>
16th St & Oak	PDO	4	1	3	8							Angle	1	Light	6
	INJ	0	0	1	1							Left Turn	3	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>1</b>	<b>4</b>	<b>9</b>	<b>3.00</b>	<b>26384</b>	<b>0.42</b>	<b>0.10</b>	<b>0.42</b>	<b>0.31</b>				<b>9</b>
16th St & Osborn	PDO	11	10	8	29							Angle	16	Light	37
	INJ	8	3	9	20							Left Turn	13	Dark	11
	FTL	0	0	0	0							B/P	3	Twilight	1
	<b>TOTAL</b>	<b>19</b>	<b>13</b>	<b>17</b>	<b>49</b>	<b>16.33</b>	<b>41933</b>	<b>1.24</b>	<b>0.85</b>	<b>1.11</b>	<b>1.07</b>				<b>49</b>
16th St & Roeser	PDO	4	4	5	13							Angle	7	Light	19
	INJ	5	2	3	10							Left Turn	5	Dark	4
	FTL	0	0	0	0							B/P	2	Twilight	0
	<b>TOTAL</b>	<b>9</b>	<b>6</b>	<b>8</b>	<b>23</b>	<b>7.67</b>	<b>27356</b>	<b>0.90</b>	<b>0.60</b>	<b>0.80</b>	<b>0.77</b>				<b>23</b>
16th St & Roosevelt	PDO	8	7	6	21							Angle	11	Light	24
	INJ	8	6	0	14							Left Turn	4	Dark	11
	FTL	0	0	0	0							B/P	3	Twilight	0
	<b>TOTAL</b>	<b>16</b>	<b>13</b>	<b>6</b>	<b>35</b>	<b>11.67</b>	<b>36489</b>	<b>1.20</b>	<b>0.98</b>	<b>0.45</b>	<b>0.88</b>				<b>35</b>
19th Ave & Butler Dr	PDO	5	3	7	15							Angle	4	Light	24
	INJ	9	3	2	14							Left Turn	10	Dark	4
	FTL	0	0	0	0							B/P	2	Twilight	1
	<b>TOTAL</b>	<b>14</b>	<b>6</b>	<b>9</b>	<b>29</b>	<b>9.67</b>	<b>31839</b>	<b>1.20</b>	<b>0.52</b>	<b>0.77</b>	<b>0.83</b>				<b>29</b>
19th Ave & Campbell Ave	PDO	3	2	7	12							Angle	6	Light	14
	INJ	3	2	1	6							Left Turn	3	Dark	4
	FTL	0	0	0	0							B/P	3	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>4</b>	<b>8</b>	<b>18</b>	<b>6.00</b>	<b>27614</b>	<b>0.60</b>	<b>0.40</b>	<b>0.79</b>	<b>0.60</b>				<b>18</b>
19th Ave & Encanto Blvd	PDO	2	0	1	3							Angle	2	Light	4
	INJ	1	1	1	3							Left Turn	1	Dark	2
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>6</b>	<b>2.00</b>	<b>22825</b>	<b>0.36</b>	<b>0.12</b>	<b>0.24</b>	<b>0.24</b>				<b>6</b>
19th Ave & Maryland Ave	PDO	5	5	0	10							Angle	7	Light	16
	INJ	1	3	4	8							Left Turn	6	Dark	3
	FTL	0	1	0	1							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>9</b>	<b>4</b>	<b>19</b>	<b>6.33</b>	<b>26923</b>	<b>0.61</b>	<b>0.92</b>	<b>0.41</b>	<b>0.64</b>				<b>19</b>
19th Ave & Missouri Ave	PDO	7	6	5	18							Angle	8	Light	23
	INJ	2	6	3	11							Left Turn	10	Dark	6
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>9</b>	<b>12</b>	<b>8</b>	<b>29</b>	<b>9.67</b>	<b>27672</b>	<b>0.89</b>	<b>1.19</b>	<b>0.79</b>	<b>0.96</b>				<b>29</b>

Appendix B

2008-2010

Intersection							Rate Calculations					Characteristics			
	Type	2008	2009	2010	Total	Average (collisions/ yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
19th Ave & Osborn Rd	PDO	7	4	4	15							Angle	10	Light	21
	INJ	3	5	5	13							Left Turn	6	Dark	7
	FTL	0	0	0	0							B/P	2	Twilight	0
	<b>TOTAL</b>	<b>10</b>	<b>9</b>	<b>9</b>	<b>28</b>	<b>9.33</b>	<b>28937</b>	<b>0.95</b>	<b>0.85</b>	<b>0.85</b>	<b>0.88</b>				<b>28</b>
19th Ave & Roeser	PDO	4	0	0	4							Angle	0	Light	3
	INJ	1	0	1	2							Left Turn	2	Dark	3
	FTL	1	0	0	1							B/P	1	Twilight	1
	<b>TOTAL</b>	<b>6</b>	<b>0</b>	<b>1</b>	<b>7</b>	<b>2.33</b>	<b>24442</b>	<b>0.67</b>	<b>0.00</b>	<b>0.11</b>	<b>0.26</b>				<b>7</b>
19th Ave & Rose Garden Ln	PDO	7	6	2	15							Angle	4	Light	19
	INJ	7	1	0	8							Left Turn	7	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>14</b>	<b>7</b>	<b>2</b>	<b>23</b>	<b>7.67</b>	<b>41942</b>	<b>0.91</b>	<b>0.46</b>	<b>0.13</b>	<b>0.50</b>				<b>23</b>
19th Ave & Williams Dr	PDO	3	1	2	6							Angle	3	Light	8
	INJ	1	1	0	2							Left Turn	0	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>8</b>	<b>2.67</b>	<b>39168</b>	<b>0.28</b>	<b>0.14</b>	<b>0.14</b>	<b>0.19</b>				<b>8</b>
24th St & Campbell Ave	PDO	3	9	2	14							Angle	9	Light	21
	INJ	4	3	4	11							Left Turn	3	Dark	3
	FTL	0	0	0	0							B/P	2	Twilight	1
	<b>TOTAL</b>	<b>7</b>	<b>12</b>	<b>6</b>	<b>25</b>	<b>8.33</b>	<b>28990</b>	<b>0.66</b>	<b>1.13</b>	<b>0.57</b>	<b>0.79</b>				<b>25</b>
24th St & Oak St	PDO	4	4	3	11							Angle	4	Light	11
	INJ	2	1	1	4							Left Turn	6	Dark	4
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>15</b>	<b>5.00</b>	<b>31935</b>	<b>0.51</b>	<b>0.43</b>	<b>0.34</b>	<b>0.43</b>				<b>15</b>
24th St & Osborn	PDO	5	3	5	13							Angle	13	Light	25
	INJ	5	6	5	16							Left Turn	8	Dark	4
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>10</b>	<b>9</b>	<b>10</b>	<b>29</b>	<b>9.67</b>	<b>34042</b>	<b>0.80</b>	<b>0.72</b>	<b>0.80</b>	<b>0.78</b>				<b>29</b>
24th St & Roeser Rd	PDO	2	2	4	8							Angle	6	Light	12
	INJ	2	2	4	8							Left Turn	3	Dark	3
	FTL	0	0	0	0							B/P	1	Twilight	1
	<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>16</b>	<b>5.33</b>	<b>23521</b>	<b>0.47</b>	<b>0.47</b>	<b>0.93</b>	<b>0.62</b>				<b>16</b>
24th St & Roosevelt St	PDO	8	12	5	25							Angle	14	Light	30
	INJ	9	8	4	21							Left Turn	8	Dark	15
	FTL	0	0	0	0							B/P	4	Twilight	1
	<b>TOTAL</b>	<b>17</b>	<b>20</b>	<b>9</b>	<b>46</b>	<b>15.33</b>	<b>35969</b>	<b>1.29</b>	<b>1.52</b>	<b>0.69</b>	<b>1.17</b>				<b>46</b>
27th Ave & Campbell	PDO	5	1	7	13							Angle	8	Light	15
	INJ	3	2	3	8							Left Turn	4	Dark	5
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>8</b>	<b>3</b>	<b>10</b>	<b>21</b>	<b>7.00</b>	<b>22461</b>	<b>0.98</b>	<b>0.37</b>	<b>1.22</b>	<b>0.85</b>				<b>21</b>
27th Ave & Durango	PDO	4	0	1	5							Angle	2	Light	11
	INJ	1	3	3	7							Left Turn	2	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>3</b>	<b>4</b>	<b>12</b>	<b>4.00</b>	<b>20380</b>	<b>0.67</b>	<b>0.40</b>	<b>0.54</b>	<b>0.54</b>				<b>12</b>

Appendix B

2008-2010

Intersection							Rate Calculations					Characteristics			
	Type	2008	2009	2010	Total	Average (collisions/ yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
27th Ave & Encanto	PDO	3	1	0	4							Angle	1	Light	5
	INJ	0	2	1	3							Left Turn	3	Dark	1
	FTL	0	0	0	0							B/P	1	Twilight	1
	<b>TOTAL</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>7</b>	<b>2.33</b>	<b>23870</b>	<b>0.34</b>	<b>0.34</b>	<b>0.11</b>	<b>0.27</b>				<b>7</b>
27th Ave & Maryland	PDO	7	1	3	11							Angle	4	Light	8
	INJ	3	0	1	4							Left Turn	4	Dark	7
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>10</b>	<b>1</b>	<b>4</b>	<b>15</b>	<b>5.00</b>	<b>21224</b>	<b>1.29</b>	<b>0.13</b>	<b>0.52</b>	<b>0.65</b>				<b>15</b>
27th Ave & Missouri	PDO	1	5	4	10							Angle	3	Light	14
	INJ	1	3	2	6							Left Turn	4	Dark	2
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>8</b>	<b>6</b>	<b>16</b>	<b>5.33</b>	<b>22297</b>	<b>0.25</b>	<b>0.98</b>	<b>0.74</b>	<b>0.66</b>				<b>16</b>
27th Ave & Orangewood	PDO	3	2	0	5							Angle	1	Light	2
	INJ	1	0	0	1							Left Turn	0	Dark	4
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>2</b>	<b>0</b>	<b>6</b>	<b>2.00</b>	<b>14142</b>	<b>0.77</b>	<b>0.39</b>	<b>0.00</b>	<b>0.39</b>				<b>6</b>
27th Ave & Osborn	PDO	3	4	2	9							Angle	6	Light	12
	INJ	0	3	1	4							Left Turn	2	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>7</b>	<b>3</b>	<b>13</b>	<b>4.33</b>	<b>19377</b>	<b>0.42</b>	<b>0.99</b>	<b>0.42</b>	<b>0.61</b>				<b>13</b>
27th Ave & Rose Garden Ln	PDO	4	9	3	16							Angle	7	Light	17
	INJ	2	0	3	5							Left Turn	3	Dark	4
	FTL	0	0	0	0							B/P	2	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>9</b>	<b>6</b>	<b>21</b>	<b>7.00</b>	<b>20782</b>	<b>0.79</b>	<b>1.19</b>	<b>0.79</b>	<b>0.92</b>				<b>21</b>
32nd St & Acoma Dr	PDO	0	0	0	0							Angle	0	Light	1
	INJ	0	1	0	1							Left Turn	0	Dark	0
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0.33</b>	<b>20647</b>	<b>0.00</b>	<b>0.13</b>	<b>0.00</b>	<b>0.04</b>				<b>1</b>
32nd St & Campbell Ave	PDO	0	3	3	6							Angle	2	Light	4
	INJ	0	1	0	1							Left Turn	2	Dark	3
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>4</b>	<b>3</b>	<b>7</b>	<b>2.33</b>	<b>28150</b>	<b>0.00</b>	<b>0.39</b>	<b>0.29</b>	<b>0.23</b>				<b>7</b>
32nd St & Cholla St	PDO	3	0	0	3							Angle	3	Light	6
	INJ	0	2	2	4							Left Turn	1	Dark	1
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>7</b>	<b>2.33</b>	<b>19187</b>	<b>0.43</b>	<b>0.29</b>	<b>0.29</b>	<b>0.33</b>				<b>7</b>
32nd St & Oak St	PDO	8	5	4	17							Angle	14	Light	29
	INJ	6	9	5	20							Left Turn	10	Dark	8
	FTL	0	0	0	0							B/P	2	Twilight	0
	<b>TOTAL</b>	<b>14</b>	<b>14</b>	<b>9</b>	<b>37</b>	<b>12.33</b>	<b>37817</b>	<b>1.01</b>	<b>1.01</b>	<b>0.65</b>	<b>0.89</b>				<b>37</b>
32nd St & Osborn Rd	PDO	4	4	2	10							Angle	10	Light	17
	INJ	4	4	3	11							Left Turn	4	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>8</b>	<b>8</b>	<b>5</b>	<b>21</b>	<b>7.00</b>	<b>32501</b>	<b>0.67</b>	<b>0.67</b>	<b>0.42</b>	<b>0.59</b>				<b>21</b>

Appendix B

2008-2010

Intersection	Type						Rate Calculations				Characteristics				
		2008	2009	2010	Total	Average (collisions/ yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
32nd St & Paradise Ln	PDO	0	3	2	5							Angle	3	Light	11
	INJ	4	2	1	7							Left Turn	1	Dark	0
	FTL	0	0	0	0							B/P	2	Twilight	1
	<b>TOTAL</b>	<b>4</b>	<b>5</b>	<b>3</b>	<b>12</b>	<b>4.00</b>	<b>22484</b>	<b>0.49</b>	<b>0.61</b>	<b>0.37</b>	<b>0.49</b>				<b>12</b>
32nd St & Roosevelt	PDO	3	4	6	13							Angle	6	Light	13
	INJ	4	2	2	8							Left Turn	4	Dark	6
	FTL	0	0	0	0							B/P	2	Twilight	2
	<b>TOTAL</b>	<b>7</b>	<b>6</b>	<b>8</b>	<b>21</b>	<b>7.00</b>	<b>24291</b>	<b>0.79</b>	<b>0.68</b>	<b>0.90</b>	<b>0.79</b>				<b>21</b>
35th Ave & Acoma Dr	PDO	1	2	1	4							Angle	1	Light	9
	INJ	4	3	1	8							Left Turn	0	Dark	3
	FTL	0	0	0	0							B/P	2	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>5</b>	<b>2</b>	<b>12</b>	<b>4.00</b>	<b>29898</b>	<b>0.46</b>	<b>0.46</b>	<b>0.18</b>	<b>0.37</b>				<b>12</b>
35th Ave & Butler Dr	PDO	7	4	6	17							Angle	11	Light	23
	INJ	4	4	3	11							Left Turn	3	Dark	4
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>11</b>	<b>8</b>	<b>9</b>	<b>28</b>	<b>9.33</b>	<b>33228</b>	<b>0.91</b>	<b>0.66</b>	<b>0.74</b>	<b>0.77</b>				<b>28</b>
35th Ave & Campbell Ave Camp becomes local in one way	PDO	3	2	1	6							Angle	6	Light	11
	INJ	4	3	2	9							Left Turn	3	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>7</b>	<b>5</b>	<b>3</b>	<b>15</b>	<b>5.00</b>	<b>26819</b>	<b>0.72</b>	<b>0.51</b>	<b>0.31</b>	<b>0.51</b>				<b>15</b>
35th Ave & Cholla St	PDO	4	3	5	12							Angle	5	Light	13
	INJ	4	1	0	5							Left Turn	2	Dark	4
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>8</b>	<b>4</b>	<b>5</b>	<b>17</b>	<b>5.67</b>	<b>32927</b>	<b>0.67</b>	<b>0.33</b>	<b>0.42</b>	<b>0.47</b>				<b>17</b>
35th Ave & Encanto Blvd	PDO	4	1	2	7							Angle	5	Light	10
	INJ	1	3	2	6							Left Turn	1	Dark	2
	FTL	0	0	0	0							B/P	2	Twilight	1
	<b>TOTAL</b>	<b>5</b>	<b>4</b>	<b>4</b>	<b>13</b>	<b>4.33</b>	<b>34225</b>	<b>0.40</b>	<b>0.32</b>	<b>0.32</b>	<b>0.35</b>				<b>13</b>
35th Ave & Maryland Ave	PDO	4	1	0	5							Angle	2	Light	8
	INJ	1	1	3	5							Left Turn	1	Dark	2
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>2</b>	<b>3</b>	<b>10</b>	<b>3.33</b>	<b>28846</b>	<b>0.47</b>	<b>0.19</b>	<b>0.28</b>	<b>0.32</b>				<b>10</b>
35th Ave & Missouri Ave	PDO	9	5	9	23							Angle	11	Light	28
	INJ	5	0	7	12							Left Turn	5	Dark	6
	FTL	0	0	0	0							B/P	3	Twilight	1
	<b>TOTAL</b>	<b>14</b>	<b>5</b>	<b>16</b>	<b>35</b>	<b>11.67</b>	<b>30092</b>	<b>1.27</b>	<b>0.46</b>	<b>1.46</b>	<b>1.06</b>				<b>35</b>
35th Ave & Orangewood	PDO	2	4	1	7							Angle	4	Light	11
	INJ	2	1	3	6							Left Turn	2	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>4</b>	<b>5</b>	<b>4</b>	<b>13</b>	<b>4.33</b>	<b>31740</b>	<b>0.35</b>	<b>0.43</b>	<b>0.35</b>	<b>0.37</b>				<b>13</b>
35th Ave & Roosevelt	PDO	9	9	10	28							Angle	8	Light	32
	INJ	5	7	3	15							Left Turn	8	Dark	10
	FTL	0	0	1	1							B/P	4	Twilight	2
	<b>TOTAL</b>	<b>14</b>	<b>16</b>	<b>14</b>	<b>44</b>	<b>14.67</b>	<b>40565</b>	<b>0.95</b>	<b>1.08</b>	<b>0.95</b>	<b>0.99</b>				<b>44</b>

Appendix B

2008-2010

Intersection							Rate Calculations					Characteristics			
	Type	2008	2009	2010	Total	Average (collisions/ yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
35th Ave & Sweetwater Ave	PDO	4	4	2	10							Angle	5	Light	10
	INJ	2	1	3	6							Left Turn	5	Dark	6
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>5</b>	<b>5</b>	<b>16</b>	<b>5.33</b>	<b>31365</b>	<b>0.52</b>	<b>0.44</b>	<b>0.44</b>	<b>0.47</b>				<b>16</b>
35th Ave & Yorkshire Dr	PDO	9	4	3	16							Angle	3	Light	19
	INJ	2	4	2	8							Left Turn	7	Dark	4
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>11</b>	<b>8</b>	<b>5</b>	<b>24</b>	<b>8.00</b>	<b>37768</b>	<b>0.80</b>	<b>0.58</b>	<b>0.36</b>	<b>0.58</b>				<b>24</b>
40th St & Roeser Rd	PDO	1	1	0	2							Angle	1	Light	2
	INJ	0	0	1	1							Left Turn	1	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>1.00</b>	<b>27146</b>	<b>0.10</b>	<b>0.10</b>	<b>0.10</b>	<b>0.10</b>				<b>3</b>
40th St & Sweetwater	PDO	2	1	2	5							Angle	3	Light	4
	INJ	0	1	0	1							Left Turn	0	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>6</b>	<b>2.00</b>	<b>15706</b>	<b>0.35</b>	<b>0.35</b>	<b>0.35</b>	<b>0.35</b>				<b>6</b>
40th St & Vineyard	PDO	1	0	0	1							Angle	1	Light	2
	INJ	0	1	0	1							Left Turn	0	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0.67</b>	<b>13793</b>	<b>0.20</b>	<b>0.20</b>	<b>0.00</b>	<b>0.13</b>				<b>2</b>
43rd Ave & Encanto Blvd	PDO	4	5	5	14							Angle	6	Light	11
	INJ	2	1	0	3							Left Turn	4	Dark	4
	FTL	0	0	0	0							B/P	0	Twilight	2
	<b>TOTAL</b>	<b>6</b>	<b>6</b>	<b>5</b>	<b>17</b>	<b>5.67</b>	<b>38264</b>	<b>0.43</b>	<b>0.43</b>	<b>0.36</b>	<b>0.41</b>				<b>17</b>
43rd Ave & Grovers Ave	PDO	2	0	1	3							Angle	1	Light	2
	INJ	1	0	0	1							Left Turn	0	Dark	2
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>1.33</b>	<b>20470</b>	<b>0.40</b>	<b>0.00</b>	<b>0.13</b>	<b>0.18</b>				<b>4</b>
43rd Ave & Osborn Rd	PDO	8	4	9	21							Angle	12	Light	26
	INJ	7	7	3	17							Left Turn	10	Dark	10
	FTL	0	0	0	0							B/P	0	Twilight	2
	<b>TOTAL</b>	<b>15</b>	<b>11</b>	<b>12</b>	<b>38</b>	<b>12.67</b>	<b>43567</b>	<b>0.94</b>	<b>0.69</b>	<b>0.75</b>	<b>0.80</b>				<b>38</b>
43rd Ave & Paradise Ln	PDO	1	2	1	4							Angle	3	Light	3
	INJ	0	1	0	1							Left Turn	0	Dark	2
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>5</b>	<b>1.67</b>	<b>23367</b>	<b>0.12</b>	<b>0.35</b>	<b>0.12</b>	<b>0.20</b>				<b>5</b>
43rd Ave & Roosevelt St	PDO	2	3	1	6							Angle	2	Light	10
	INJ	1	5	2	8							Left Turn	5	Dark	4
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>8</b>	<b>3</b>	<b>14</b>	<b>4.67</b>	<b>38074</b>	<b>0.22</b>	<b>0.58</b>	<b>0.22</b>	<b>0.34</b>				<b>14</b>
44th St & Oak St	PDO	7	5	4	16							Angle	5	Light	16
	INJ	2	6	1	9							Left Turn	5	Dark	8
	FTL	0	0	0	0							B/P	2	Twilight	1
	<b>TOTAL</b>	<b>9</b>	<b>11</b>	<b>5</b>	<b>25</b>	<b>8.33</b>	<b>48092</b>	<b>0.51</b>	<b>0.63</b>	<b>0.28</b>	<b>0.47</b>				<b>25</b>

Appendix B

2008-2010

Intersection							Rate Calculations					Characteristics			
	Type	2008	2009	2010	Total	Average (collisions/yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
44th St & Osborn Rd	PDO	3	5	6	14							Angle	7	Light	17
	INJ	1	1	2	4							Left Turn	3	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>6</b>	<b>8</b>	<b>18</b>	<b>6.00</b>	<b>43438</b>	<b>0.25</b>	<b>0.38</b>	<b>0.50</b>	<b>0.38</b>				<b>18</b>
51st Ave & Campbell Ave	PDO	10	2	5	17							Angle	13	Light	17
	INJ	2	3	1	6							Left Turn	2	Dark	5
	FTL	0	0	0	0							B/P	1	Twilight	1
	<b>TOTAL</b>	<b>12</b>	<b>5</b>	<b>6</b>	<b>23</b>	<b>7.67</b>	<b>31840</b>	<b>1.03</b>	<b>0.43</b>	<b>0.52</b>	<b>0.66</b>				<b>23</b>
51st Ave & Osborn Rd	PDO	3	3	7	13							Angle	2	Light	8
	INJ	3	1	2	6							Left Turn	3	Dark	8
	FTL	0	0	0	0							B/P	1	Twilight	3
	<b>TOTAL</b>	<b>6</b>	<b>4</b>	<b>9</b>	<b>19</b>	<b>6.33</b>	<b>42166</b>	<b>0.39</b>	<b>0.26</b>	<b>0.58</b>	<b>0.41</b>				<b>19</b>
59th Ave & Campbell Ave	PDO	5	6	3	14							Angle	4	Light	15
	INJ	2	2	5	9							Left Turn	2	Dark	5
	FTL	0	0	0	0							B/P	2	Twilight	3
	<b>TOTAL</b>	<b>7</b>	<b>8</b>	<b>8</b>	<b>23</b>	<b>7.67</b>	<b>26957</b>	<b>0.71</b>	<b>0.81</b>	<b>0.81</b>	<b>0.78</b>				<b>23</b>
59th Ave & Osborn Rd	PDO	6	8	6	20							Angle	8	Light	20
	INJ	5	5	2	12							Left Turn	6	Dark	10
	FTL	0	0	0	0							B/P	1	Twilight	2
	<b>TOTAL</b>	<b>11</b>	<b>13</b>	<b>8</b>	<b>32</b>	<b>10.67</b>	<b>35252</b>	<b>0.85</b>	<b>1.01</b>	<b>0.62</b>	<b>0.83</b>				<b>32</b>
59th Ave & Roosevelt	PDO	2	3	5	10							Angle	1	Light	13
	INJ	2	0	1	3							Left Turn	3	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>3</b>	<b>6</b>	<b>13</b>	<b>4.33</b>	<b>38758</b>	<b>0.28</b>	<b>0.21</b>	<b>0.42</b>	<b>0.31</b>				<b>13</b>
64th St & Pardise Ln	PDO	0	0	0	0							Angle	0	Light	0
	INJ	0	0	0	0							Left Turn	0	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>10837</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>				<b>0</b>
67th Ave & Encanto Blvd	PDO	8	6	7	21							Angle	5	Light	22
	INJ	7	3	6	16							Left Turn	11	Dark	11
	FTL	0	0	0	0							B/P	2	Twilight	4
	<b>TOTAL</b>	<b>15</b>	<b>9</b>	<b>13</b>	<b>37</b>	<b>12.33</b>	<b>38931</b>	<b>1.06</b>	<b>0.63</b>	<b>0.91</b>	<b>0.87</b>				<b>37</b>
7th Ave & Maryland Ave	PDO	3	4	2	9							Angle	6	Light	9
	INJ	2	1	2	5							Left Turn	1	Dark	6
	FTL	1	0	0	1							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>15</b>	<b>5.00</b>	<b>20808</b>	<b>0.79</b>	<b>0.66</b>	<b>0.53</b>	<b>0.66</b>				<b>15</b>
7th Ave & Missouri Ave	PDO	6	6	6	18							Angle	13	Light	21
	INJ	5	2	8	15							Left Turn	4	Dark	11
	FTL	0	0	0	0							B/P	1	Twilight	1
	<b>TOTAL</b>	<b>11</b>	<b>8</b>	<b>14</b>	<b>33</b>	<b>11.00</b>	<b>32170</b>	<b>0.94</b>	<b>0.68</b>	<b>1.19</b>	<b>0.94</b>				<b>33</b>
7th Ave & Osborn	PDO	17	10	5	32							Angle	13	Light	36
	INJ	12	6	3	21							Left Turn	7	Dark	10
	FTL	0	0	0	0							B/P	1	Twilight	7
	<b>TOTAL</b>	<b>29</b>	<b>16</b>	<b>8</b>	<b>53</b>	<b>17.67</b>	<b>39169</b>	<b>2.03</b>	<b>1.12</b>	<b>0.56</b>	<b>1.24</b>				<b>53</b>
<b>*Above 2 std. dev's</b>															

Appendix B

2008-2010

Intersection							Rate Calculations					Characteristics			
	Type	2008	2009	2010	Total	Average (collisions/ yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
7th Ave & Watkins St	PDO	2	3	1	6							Angle	3	Light	7
	INJ	4	1	0	5							Left Turn	2	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>6</b>	<b>4</b>	<b>1</b>	<b>11</b>	<b>3.67</b>	<b>22191</b>	<b>0.74</b>	<b>0.49</b>	<b>0.12</b>	<b>0.45</b>				<b>11</b>
7th St & Elwood St	PDO	2	3	3	8							Angle	6	Light	9
	INJ	2	1	1	4							Left Turn	1	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>12</b>	<b>4.00</b>	<b>26158</b>	<b>0.42</b>	<b>0.42</b>	<b>0.42</b>	<b>0.42</b>				<b>12</b>
7th St & Grovers Ave	PDO	0	4	5	9							Angle	1	Light	12
	INJ	1	2	5	8							Left Turn	6	Dark	5
	FTL	0	0	0	0							B/P	3	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>6</b>	<b>10</b>	<b>17</b>	<b>5.67</b>	<b>33817</b>	<b>0.08</b>	<b>0.49</b>	<b>0.81</b>	<b>0.46</b>				<b>17</b>
7th St & Hatcher	PDO	12	6	9	27							Angle	15	Light	27
	INJ	4	1	2	7							Left Turn	4	Dark	6
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>16</b>	<b>7</b>	<b>11</b>	<b>34</b>	<b>11.33</b>	<b>36966</b>	<b>1.19</b>	<b>0.52</b>	<b>0.82</b>	<b>0.84</b>				<b>34</b>
7th St & Maryland Ave	PDO	7	5	5	17							Angle	9	Light	22
	INJ	3	1	4	8							Left Turn	2	Dark	3
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>10</b>	<b>6</b>	<b>9</b>	<b>25</b>	<b>8.33</b>	<b>32994</b>	<b>0.83</b>	<b>0.50</b>	<b>0.75</b>	<b>0.69</b>				<b>25</b>
7th St & Missouri Ave	PDO	13	17	10	40							Angle	20	Light	54
	INJ	6	4	10	20							Left Turn	10	Dark	6
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>19</b>	<b>21</b>	<b>20</b>	<b>60</b>	<b>20.00</b>	<b>42962</b>	<b>1.21</b>	<b>1.34</b>	<b>1.28</b>	<b>1.28</b>				<b>60</b>
7th St & Mohave St	PDO	9	5	4	18							Angle	15	Light	23
	INJ	7	5	3	15							Left Turn	7	Dark	10
	FTL	0	0	0	0							B/P	2	Twilight	0
	<b>TOTAL</b>	<b>16</b>	<b>10</b>	<b>7</b>	<b>33</b>	<b>11.00</b>	<b>32810</b>	<b>1.34</b>	<b>0.84</b>	<b>0.58</b>	<b>0.92</b>				<b>33</b>
7th St & Mountain View Rd	PDO	6	9	6	21							Angle	9	Light	24
	INJ	3	3	1	7							Left Turn	4	Dark	3
	FTL	0	0	0	0							B/P	1	Twilight	1
	<b>TOTAL</b>	<b>9</b>	<b>12</b>	<b>7</b>	<b>28</b>	<b>9.33</b>	<b>29087</b>	<b>0.85</b>	<b>1.13</b>	<b>0.66</b>	<b>0.88</b>				<b>28</b>
7th St & Oak St	PDO	10	8	5	23							Angle	7	Light	32
	INJ	5	5	4	14							Left Turn	0	Dark	5
	FTL	0	0	0	0							B/P	2	Twilight	0
	<b>TOTAL</b>	<b>15</b>	<b>13</b>	<b>9</b>	<b>37</b>	<b>12.33</b>	<b>34527</b>	<b>1.19</b>	<b>1.03</b>	<b>0.71</b>	<b>0.98</b>				<b>37</b>
7th St & Osborn Rd	PDO	13	7	14	34							Angle	23	Light	40
	INJ	9	6	4	19							Left Turn	8	Dark	10
	FTL	0	0	0	0							B/P	0	Twilight	3
	<b>TOTAL</b>	<b>22</b>	<b>13</b>	<b>18</b>	<b>53</b>	<b>17.67</b>	<b>52344</b>	<b>1.15</b>	<b>0.68</b>	<b>0.94</b>	<b>0.92</b>				<b>53</b>
7th St & Roeser Rd	PDO	11	9	7	27							Angle	9	Light	31
	INJ	6	3	4	13							Left Turn	6	Dark	8
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>17</b>	<b>12</b>	<b>11</b>	<b>40</b>	<b>13.33</b>	<b>32166</b>	<b>1.45</b>	<b>1.02</b>	<b>0.94</b>	<b>1.14</b>				<b>40</b>

Appendix B

2008-2010

Intersection							Rate Calculations					Characteristics			
	Type	2008	2009	2010	Total	Average (collisions/ yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
75th Ave & Sells Dr	PDO	0	2	2	4							Angle	0	Light	7
	INJ	3	0	2	5							Left Turn	2	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>3</b>	<b>2</b>	<b>4</b>	<b>9</b>	<b>3.00</b>	<b>27275</b>	<b>0.30</b>	<b>0.20</b>	<b>0.40</b>	<b>0.30</b>				<b>9</b>
83rd Ave & Osborn Rd	PDO	5	2	2	9							Angle	4	Light	8
	INJ	4	3	1	8							Left Turn	4	Dark	8
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>9</b>	<b>5</b>	<b>3</b>	<b>17</b>	<b>5.67</b>	<b>33122</b>	<b>0.74</b>	<b>0.41</b>	<b>0.25</b>	<b>0.47</b>				<b>17</b>
Bell Rd & 20th St	PDO	4	6	11	21							Angle	12	Light	22
	INJ	4	1	4	9							Left Turn	3	Dark	8
	FTL	0	0	1	1							B/P	1	Twilight	1
	<b>TOTAL</b>	<b>8</b>	<b>7</b>	<b>16</b>	<b>31</b>	<b>10.33</b>	<b>39767</b>	<b>0.55</b>	<b>0.48</b>	<b>1.10</b>	<b>0.71</b>				<b>31</b>
Bell Rd & 44th St	PDO	4	4	6	14							Angle	3	Light	21
	INJ	3	2	2	7							Left Turn	1	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>7</b>	<b>6</b>	<b>8</b>	<b>21</b>	<b>7.00</b>	<b>35050</b>	<b>0.55</b>	<b>0.47</b>	<b>0.63</b>	<b>0.55</b>				<b>21</b>
Bethany Home Rd & 12th St	PDO	10	1	8	19							Angle	12	Light	23
	INJ	1	9	5	15							Left Turn	7	Dark	8
	FTL	0	0	0	0							B/P	2	Twilight	3
	<b>TOTAL</b>	<b>11</b>	<b>10</b>	<b>13</b>	<b>34</b>	<b>11.33</b>	<b>42462</b>	<b>0.71</b>	<b>0.65</b>	<b>0.84</b>	<b>0.73</b>				<b>34</b>
Bethany Home Rd & 15th Ave	PDO	6	3	4	13							Angle	16	Light	23
	INJ	7	5	6	18							Left Turn	6	Dark	6
	FTL	0	0	0	0							B/P	0	Twilight	2
	<b>TOTAL</b>	<b>13</b>	<b>8</b>	<b>10</b>	<b>31</b>	<b>10.33</b>	<b>45478</b>	<b>0.78</b>	<b>0.48</b>	<b>0.60</b>	<b>0.62</b>				<b>31</b>
Bethany Home Rd & 23rd Ave	PDO	7	9	10	26							Angle	14	Light	27
	INJ	4	5	5	14							Left Turn	8	Dark	10
	FTL	0	0	0	0							B/P	1	Twilight	3
	<b>TOTAL</b>	<b>11</b>	<b>14</b>	<b>15</b>	<b>40</b>	<b>13.33</b>	<b>46731</b>	<b>0.64</b>	<b>0.82</b>	<b>0.88</b>	<b>0.78</b>				<b>40</b>
Bethany Home Rd & 39th Ave	PDO	4	5	2	11							Angle	4	Light	14
	INJ	6	2	1	9							Left Turn	1	Dark	5
	FTL	0	0	0	0							B/P	3	Twilight	1
	<b>TOTAL</b>	<b>10</b>	<b>7</b>	<b>3</b>	<b>20</b>	<b>6.67</b>	<b>35479</b>	<b>0.77</b>	<b>0.54</b>	<b>0.23</b>	<b>0.51</b>				<b>20</b>
Broadway & 28th St	PDO	1	2	1	4							Angle	1	Light	8
	INJ	2	4	0	6							Left Turn	3	Dark	2
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>6</b>	<b>1</b>	<b>10</b>	<b>3.33</b>	<b>28171</b>	<b>0.29</b>	<b>0.58</b>	<b>0.10</b>	<b>0.32</b>				<b>10</b>
Buckeye & 15th Ave	PDO	1	2	1	4							Angle	2	Light	9
	INJ	1	2	2	5							Left Turn	1	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>4</b>	<b>3</b>	<b>9</b>	<b>3.00</b>	<b>22412</b>	<b>0.24</b>	<b>0.49</b>	<b>0.37</b>	<b>0.37</b>				<b>9</b>
Cactus Rd & 21st Ave	PDO	1	2	1	4							Angle	4	Light	3
	INJ	0	2	1	3							Left Turn	1	Dark	4
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>4</b>	<b>2</b>	<b>7</b>	<b>2.33</b>	<b>22699</b>	<b>0.12</b>	<b>0.48</b>	<b>0.24</b>	<b>0.28</b>				<b>7</b>

Appendix B

2008-2010

Intersection	Type						Rate Calculations				Characteristics				
		2008	2009	2010	Total	Average (collisions/ yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
Cactus & 28th St	PDO	5	4	1	10							Angle	4	Light	14
	INJ	2	3	2	7							Left Turn	2	Dark	3
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>7</b>	<b>7</b>	<b>3</b>	<b>17</b>	<b>5.67</b>	<b>45177</b>	<b>0.42</b>	<b>0.42</b>	<b>0.18</b>	<b>0.34</b>				<b>17</b>
Cactus & 31st Ave	PDO	6	4	5	15							Angle	10	Light	18
	INJ	2	2	5	9							Left Turn	2	Dark	4
	FTL	0	0	0	0							B/P	2	Twilight	2
	<b>TOTAL</b>	<b>8</b>	<b>6</b>	<b>10</b>	<b>24</b>	<b>8.00</b>	<b>35480</b>	<b>0.62</b>	<b>0.46</b>	<b>0.77</b>	<b>0.62</b>				<b>24</b>
Cactus & 36th St	PDO	6	0	3	9							Angle	4	Light	11
	INJ	2	4	1	7							Left Turn	1	Dark	4
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>8</b>	<b>4</b>	<b>4</b>	<b>16</b>	<b>5.33</b>	<b>45012</b>	<b>0.49</b>	<b>0.24</b>	<b>0.24</b>	<b>0.32</b>				<b>16</b>
Cactus & 39th Ave	PDO	8	2	0	10							Angle	9	Light	15
	INJ	3	5	3	11							Left Turn	4	Dark	5
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>11</b>	<b>7</b>	<b>3</b>	<b>21</b>	<b>7.00</b>	<b>41070</b>	<b>0.73</b>	<b>0.47</b>	<b>0.20</b>	<b>0.47</b>				<b>21</b>
Camelback & 12th St	PDO	12	11	14	37							Angle	12	Light	43
	INJ	3	4	8	15							Left Turn	7	Dark	9
	FTL	0	0	0	0							B/P	2	Twilight	0
	<b>TOTAL</b>	<b>15</b>	<b>15</b>	<b>22</b>	<b>52</b>	<b>17.33</b>	<b>55423</b>	<b>0.74</b>	<b>0.74</b>	<b>1.09</b>	<b>0.86</b>				<b>52</b>
Camelback & 15th Ave	PDO	17	6	6	29							Angle	9	Light	33
	INJ	10	8	5	23							Left Turn	11	Dark	17
	FTL	0	0	0	0							B/P	4	Twilight	2
	<b>TOTAL</b>	<b>27</b>	<b>14</b>	<b>11</b>	<b>52</b>	<b>17.33</b>	<b>42843</b>	<b>1.73</b>	<b>0.90</b>	<b>0.70</b>	<b>1.11</b>				<b>52</b>
Camelback & 20th St	PDO	18	11	13	42							Angle	12	Light	49
	INJ	9	7	11	27							Left Turn	25	Dark	18
	FTL	0	0	0	0							B/P	4	Twilight	2
	<b>TOTAL</b>	<b>27</b>	<b>18</b>	<b>24</b>	<b>69</b>	<b>23.00</b>	<b>58020</b>	<b>1.27</b>	<b>0.85</b>	<b>1.13</b>	<b>1.09</b>				<b>69</b>
Camelback & 23rd Ave	PDO	8	10	6	24							Angle	9	Light	27
	INJ	7	3	3	13							Left Turn	7	Dark	8
	FTL	0	0	0	0							B/P	1	Twilight	2
	<b>TOTAL</b>	<b>15</b>	<b>13</b>	<b>9</b>	<b>37</b>	<b>12.33</b>	<b>43780</b>	<b>0.94</b>	<b>0.81</b>	<b>0.56</b>	<b>0.77</b>				<b>37</b>
Camelback & 56th St	PDO	7	3	3	13							Angle	1	Light	16
	INJ	4	2	1	7							Left Turn	8	Dark	4
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>11</b>	<b>5</b>	<b>4</b>	<b>20</b>	<b>6.67</b>	<b>36470</b>	<b>0.83</b>	<b>0.38</b>	<b>0.30</b>	<b>0.50</b>				<b>20</b>
Central & Hatcher	PDO	5	2	4	11							Angle	7	Light	16
	INJ	5	3	0	8							Left Turn	2	Dark	2
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>10</b>	<b>5</b>	<b>4</b>	<b>19</b>	<b>6.33</b>	<b>19762</b>	<b>1.39</b>	<b>0.69</b>	<b>0.55</b>	<b>0.88</b>				<b>19</b>
Central & Missouri Ave	PDO	6	2	5	13							Angle	12	Light	22
	INJ	6	6	4	16							Left Turn	10	Dark	3
	FTL	0	0	0	0							B/P	1	Twilight	4
	<b>TOTAL</b>	<b>12</b>	<b>8</b>	<b>9</b>	<b>29</b>	<b>9.67</b>	<b>32401</b>	<b>1.01</b>	<b>0.68</b>	<b>0.76</b>	<b>0.82</b>				<b>29</b>

Appendix B

2008-2010

Intersection							Rate Calculations					Characteristics			
	Type	2008	2009	2010	Total	Average (collisions/ yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
Central Ave & Maryland Ave	PDO	1	1	4	6							Angle	2	Light	5
	INJ	0	3	0	3							Left Turn	1	Dark	4
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>4</b>	<b>4</b>	<b>9</b>	<b>3.00</b>	<b>15586</b>	<b>0.18</b>	<b>0.70</b>	<b>0.70</b>	<b>0.53</b>				<b>9</b>
Central Ave & Osborn Rd	PDO	7	8	5	20							Angle	9	Light	24
	INJ	4	5	1	10							Left Turn	7	Dark	6
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>11</b>	<b>13</b>	<b>6</b>	<b>30</b>	<b>10.00</b>	<b>38915</b>	<b>0.77</b>	<b>0.92</b>	<b>0.42</b>	<b>0.70</b>				<b>30</b>
Central Ave & Roeser	PDO	7	8	5	20							Angle	13	Light	27
	INJ	4	4	5	13							Left Turn	4	Dark	6
	FTL	0	0	0	0							B/P	2	Twilight	0
	<b>TOTAL</b>	<b>11</b>	<b>12</b>	<b>10</b>	<b>33</b>	<b>11.00</b>	<b>28540</b>	<b>1.06</b>	<b>1.15</b>	<b>0.96</b>	<b>1.06</b>				<b>33</b>
Central Ave & South Mountain	PDO	3	2	2	7							Angle	3	Light	8
	INJ	2	2	1	5							Left Turn	2	Dark	4
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>12</b>	<b>4.00</b>	<b>13582</b>	<b>1.01</b>	<b>0.81</b>	<b>0.61</b>	<b>0.81</b>				<b>12</b>
Dunlap & 39th Ave	PDO	9	4	3	16							Angle	5	Light	21
	INJ	3	5	4	12							Left Turn	6	Dark	5
	FTL	0	0	0	0							B/P	1	Twilight	2
	<b>TOTAL</b>	<b>12</b>	<b>9</b>	<b>7</b>	<b>28</b>	<b>9.33</b>	<b>38903</b>	<b>0.85</b>	<b>0.63</b>	<b>0.49</b>	<b>0.66</b>				<b>28</b>
Glendale & 12th St	PDO	9	6	13	28							Angle	11	Light	34
	INJ	8	4	5	17							Left Turn	15	Dark	10
	FTL	0	0	0	0							B/P	1	Twilight	1
	<b>TOTAL</b>	<b>17</b>	<b>10</b>	<b>18</b>	<b>45</b>	<b>15.00</b>	<b>48759</b>	<b>0.96</b>	<b>0.56</b>	<b>1.01</b>	<b>0.84</b>				<b>45</b>
Glendale & 15th Ave	PDO	4	6	5	15							Angle	8	Light	28
	INJ	4	9	2	15							Left Turn	2	Dark	1
	FTL	0	0	0	0							B/P	3	Twilight	1
	<b>TOTAL</b>	<b>8</b>	<b>15</b>	<b>7</b>	<b>30</b>	<b>10.00</b>	<b>41899</b>	<b>0.52</b>	<b>0.98</b>	<b>0.46</b>	<b>0.65</b>				<b>30</b>
Glendale & 31st Ave	PDO	7	3	2	12							Angle	9	Light	14
	INJ	4	2	0	6							Left Turn	1	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>11</b>	<b>5</b>	<b>2</b>	<b>18</b>	<b>6.00</b>	<b>40645</b>	<b>0.74</b>	<b>0.34</b>	<b>0.13</b>	<b>0.40</b>				<b>18</b>
Greenway Rd & 44th St	PDO	6	0	1	7							Angle	7	Light	12
	INJ	5	1	0	6							Left Turn	2	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>11</b>	<b>1</b>	<b>1</b>	<b>13</b>	<b>4.33</b>	<b>41741</b>	<b>0.72</b>	<b>0.07</b>	<b>0.07</b>	<b>0.28</b>				<b>13</b>
Greenway Rd & 60th St	PDO	2	0	1	3							Angle	1	Light	2
	INJ	1	1	1	3							Left Turn	1	Dark	4
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>6</b>	<b>2.00</b>	<b>32127</b>	<b>0.26</b>	<b>0.09</b>	<b>0.17</b>	<b>0.17</b>				<b>6</b>
Indian School & 40th St	PDO	10	5	13	28							Angle	12	Light	26
	INJ	2	2	4	8							Left Turn	9	Dark	9
	FTL	0	0	0	0							B/P	1	Twilight	1
	<b>TOTAL</b>	<b>12</b>	<b>7</b>	<b>17</b>	<b>36</b>	<b>12.00</b>	<b>44727</b>	<b>0.74</b>	<b>0.43</b>	<b>1.04</b>	<b>0.74</b>				<b>36</b>

Appendix B

2008-2010

Intersection							Rate Calculations					Characteristics			
	Type	2008	2009	2010	Total	Average (collisions/ yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
Indian School & 56th St	PDO	5	4	6	15							Angle	6	Light	17
	INJ	4	2	1	7							Left Turn	8	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	2
	<b>TOTAL</b>	<b>9</b>	<b>6</b>	<b>7</b>	<b>22</b>	<b>7.33</b>	<b>30002</b>	<b>0.82</b>	<b>0.55</b>	<b>0.64</b>	<b>0.67</b>				<b>22</b>
Indian School Rd & 15th Ave	PDO	10	10	14	34							Angle	17	Light	43
	INJ	8	8	7	23							Left Turn	17	Dark	13
	FTL	0	0	0	0							B/P	2	Twilight	1
	<b>TOTAL</b>	<b>18</b>	<b>18</b>	<b>21</b>	<b>57</b>	<b>19.00</b>	<b>51245</b>	<b>0.96</b>	<b>0.96</b>	<b>1.12</b>	<b>1.02</b>				<b>57</b>
Indian School Rd & 20th St	PDO	8	5	7	20							Angle	10	Light	23
	INJ	6	1	2	9							Left Turn	6	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	3
	<b>TOTAL</b>	<b>14</b>	<b>6</b>	<b>9</b>	<b>29</b>	<b>9.67</b>	<b>48163</b>	<b>0.80</b>	<b>0.34</b>	<b>0.51</b>	<b>0.55</b>				<b>29</b>
Indian School Rd & 28th St	PDO	19	15	9	43							Angle	14	Light	44
	INJ	3	6	1	10							Left Turn	11	Dark	5
	FTL	0	0	0	0							B/P	3	Twilight	4
	<b>TOTAL</b>	<b>22</b>	<b>21</b>	<b>10</b>	<b>53</b>	<b>17.67</b>	<b>44197</b>	<b>1.36</b>	<b>1.30</b>	<b>0.62</b>	<b>1.10</b>				<b>53</b>
Indian School Rd & 36th St	PDO	9	5	7	21							Angle	8	Light	23
	INJ	2	3	2	7							Left Turn	3	Dark	5
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>11</b>	<b>8</b>	<b>9</b>	<b>28</b>	<b>9.33</b>	<b>37936</b>	<b>0.79</b>	<b>0.58</b>	<b>0.65</b>	<b>0.67</b>				<b>28</b>
Indian School Rd & 47th Ave	PDO	15	6	16	37							Angle	17	Light	43
	INJ	4	6	6	16							Left Turn	11	Dark	8
	FTL	0	0	0	0							B/P	3	Twilight	2
	<b>TOTAL</b>	<b>19</b>	<b>12</b>	<b>22</b>	<b>53</b>	<b>17.67</b>	<b>50082</b>	<b>1.04</b>	<b>0.66</b>	<b>1.20</b>	<b>0.97</b>				<b>53</b>
Indian School Rd & 55th Ave	PDO	8	6	7	21							Angle	9	Light	24
	INJ	4	1	7	12							Left Turn	3	Dark	8
	FTL	0	0	0	0							B/P	2	Twilight	1
	<b>TOTAL</b>	<b>12</b>	<b>7</b>	<b>14</b>	<b>33</b>	<b>11.00</b>	<b>47472</b>	<b>0.69</b>	<b>0.40</b>	<b>0.81</b>	<b>0.63</b>				<b>33</b>
McDowell & 40th St	PDO	10	8	14	32							Angle	16	Light	33
	INJ	9	7	9	25							Left Turn	14	Dark	21
	FTL	0	0	0	0							B/P	2	Twilight	3
	<b>TOTAL</b>	<b>19</b>	<b>15</b>	<b>23</b>	<b>57</b>	<b>19.00</b>	<b>43925</b>	<b>1.19</b>	<b>0.94</b>	<b>1.43</b>	<b>1.19</b>				<b>57</b>
McDowell Rd & 12th St	PDO	11	10	4	25							Angle	9	Light	27
	INJ	1	4	3	8							Left Turn	7	Dark	4
	FTL	0	0	0	0							B/P	3	Twilight	2
	<b>TOTAL</b>	<b>12</b>	<b>14</b>	<b>7</b>	<b>33</b>	<b>11.00</b>	<b>39554</b>	<b>0.83</b>	<b>0.97</b>	<b>0.48</b>	<b>0.76</b>				<b>33</b>
McDowell Rd & 15th Ave	PDO	8	3	3	14							Angle	13	Light	20
	INJ	5	3	4	12							Left Turn	4	Dark	6
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>13</b>	<b>6</b>	<b>7</b>	<b>26</b>	<b>8.67</b>	<b>25022</b>	<b>1.42</b>	<b>0.66</b>	<b>0.77</b>	<b>0.95</b>				<b>26</b>
McDowell Rd & 31st Ave	PDO	2	3	0	5							Angle	5	Light	10
	INJ	2	3	3	8							Left Turn	1	Dark	3
	FTL	0	0	0	0							B/P	3	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>6</b>	<b>3</b>	<b>13</b>	<b>4.33</b>	<b>25942</b>	<b>0.42</b>	<b>0.63</b>	<b>0.32</b>	<b>0.46</b>				<b>13</b>

Appendix B

2008-2010

Intersection							Rate Calculations					Characteristics			
	Type	2008	2009	2010	Total	Average (collisions/ yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
McDowell Rd & 39th Ave	PDO	1	2	4	7							Angle	6	Light	9
	INJ	4	0	0	4							Left Turn	2	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>5</b>	<b>2</b>	<b>4</b>	<b>11</b>	<b>3.67</b>	<b>30655</b>	<b>0.45</b>	<b>0.18</b>	<b>0.36</b>	<b>0.33</b>				<b>11</b>
McDowell Rd & 3rd St	PDO	11	14	12	37							Angle	10	Light	45
	INJ	9	4	5	18							Left Turn	13	Dark	9
	FTL	0	0	0	0							B/P	1	Twilight	1
	<b>TOTAL</b>	<b>20</b>	<b>18</b>	<b>17</b>	<b>55</b>	<b>18.33</b>	<b>45124</b>	<b>1.21</b>	<b>1.09</b>	<b>1.03</b>	<b>1.11</b>				<b>55</b>
McDowell Rd & 48th St	PDO	-	11	8	19							Angle	15	Light	44
	INJ	10	6	10	26							Left Turn	18	Dark	11
	FTL	1	0	0	1							B/P	6	Twilight	3
	<b>TOTAL</b>	<b>11</b>	<b>17</b>	<b>18</b>	<b>46</b>	<b>15.33</b>	<b>47886</b>	<b>0.63</b>	<b>0.97</b>	<b>1.03</b>	<b>0.88</b>				<b>58</b>
Northern & 12th St	PDO	7	7	11	25							Angle	10	Light	27
	INJ	4	3	5	12							Left Turn	4	Dark	8
	FTL	0	0	0	0							B/P	0	Twilight	2
	<b>TOTAL</b>	<b>11</b>	<b>10</b>	<b>16</b>	<b>37</b>	<b>12.33</b>	<b>53071</b>	<b>0.57</b>	<b>0.52</b>	<b>0.83</b>	<b>0.64</b>				<b>37</b>
Northern & 15th Ave	PDO	2	3	8	13							Angle	13	Light	21
	INJ	4	2	3	9							Left Turn	2	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>5</b>	<b>11</b>	<b>22</b>	<b>7.33</b>	<b>42556</b>	<b>0.39</b>	<b>0.32</b>	<b>0.71</b>	<b>0.47</b>				<b>22</b>
Northern & 23rd Ave	PDO	3	10	7	20							Angle	10	Light	34
	INJ	5	11	10	26							Left Turn	8	Dark	10
	FTL	0	0	0	0							B/P	3	Twilight	2
	<b>TOTAL</b>	<b>8</b>	<b>21</b>	<b>17</b>	<b>46</b>	<b>15.33</b>	<b>43941</b>	<b>0.50</b>	<b>1.31</b>	<b>1.06</b>	<b>0.96</b>				<b>46</b>
Northern & 31st Ave	PDO	5	9	4	18							Angle	12	Light	27
	INJ	8	1	5	14							Left Turn	5	Dark	4
	FTL	0	0	0	0							B/P	1	Twilight	1
	<b>TOTAL</b>	<b>13</b>	<b>10</b>	<b>9</b>	<b>32</b>	<b>10.67</b>	<b>46493</b>	<b>0.77</b>	<b>0.59</b>	<b>0.53</b>	<b>0.63</b>				<b>32</b>
Northern & 39th Ave	PDO	3	2	6	11							Angle	7	Light	12
	INJ	2	7	0	9							Left Turn	4	Dark	6
	FTL	0	1	0	1							B/P	1	Twilight	3
	<b>TOTAL</b>	<b>5</b>	<b>10</b>	<b>6</b>	<b>21</b>	<b>7.00</b>	<b>40134</b>	<b>0.34</b>	<b>0.68</b>	<b>0.41</b>	<b>0.48</b>				<b>21</b>
Peoria & 23rd Ave	PDO	6	2	1	9							Angle	3	Light	12
	INJ	2	0	3	5							Left Turn	3	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>8</b>	<b>2</b>	<b>4</b>	<b>14</b>	<b>4.67</b>	<b>32822</b>	<b>0.67</b>	<b>0.17</b>	<b>0.33</b>	<b>0.39</b>				<b>14</b>
Peoria & 31st Ave	PDO	8	5	6	19							Angle	7	Light	22
	INJ	3	0	5	8							Left Turn	3	Dark	5
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>11</b>	<b>5</b>	<b>11</b>	<b>27</b>	<b>9.00</b>	<b>49458</b>	<b>0.61</b>	<b>0.28</b>	<b>0.61</b>	<b>0.50</b>				<b>27</b>
Shea Blvd & 36th St	PDO	2	1	3	6							Angle	2	Light	9
	INJ	0	3	0	3							Left Turn	3	Dark	0
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>4</b>	<b>3</b>	<b>9</b>	<b>3.00</b>	<b>47494</b>	<b>0.12</b>	<b>0.23</b>	<b>0.17</b>	<b>0.17</b>				<b>9</b>

Appendix B

2008-2010

Intersection							Rate Calculations				Characteristics				
	Type	2008	2009	2010	Total	Average (collisions/ yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
Tatum Blvd & Acoma Dr	PDO	0	4	1	5							Angle	3	Light	7
	INJ	0	2	1	3							Left Turn	1	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>6</b>	<b>2</b>	<b>8</b>	<b>2.67</b>	<b>37119</b>	<b>0.00</b>	<b>0.44</b>	<b>0.15</b>	<b>0.20</b>				<b>8</b>
Thomas & 15th Ave	PDO	13	7	7	27							Angle	6	Light	33
	INJ	7	2	5	14							Left Turn	12	Dark	4
	FTL	0	0	0	0							B/P	0	Twilight	4
	<b>TOTAL</b>	<b>20</b>	<b>9</b>	<b>12</b>	<b>41</b>	<b>13.67</b>	<b>42660</b>	<b>1.28</b>	<b>0.58</b>	<b>0.77</b>	<b>0.88</b>				<b>41</b>
Thomas & 23rd Ave	PDO	3	8	4	15							Angle	4	Light	18
	INJ	2	1	3	6							Left Turn	2	Dark	1
	FTL	0	0	0	0							B/P	1	Twilight	2
	<b>TOTAL</b>	<b>5</b>	<b>9</b>	<b>7</b>	<b>21</b>	<b>7.00</b>	<b>37018</b>	<b>0.37</b>	<b>0.67</b>	<b>0.52</b>	<b>0.52</b>				<b>21</b>
Thomas & 28th St	PDO	6	6	7	19							Angle	9	Light	22
	INJ	2	6	3	11							Left Turn	2	Dark	4
	FTL	0	0	0	0							B/P	2	Twilight	4
	<b>TOTAL</b>	<b>8</b>	<b>12</b>	<b>10</b>	<b>30</b>	<b>10.00</b>	<b>38842</b>	<b>0.56</b>	<b>0.85</b>	<b>0.71</b>	<b>0.71</b>				<b>30</b>
Thomas & 36th St	PDO	11	9	13	33							Angle	6	Light	38
	INJ	7	5	5	17							Left Turn	13	Dark	12
	FTL	0	0	0	0							B/P	3	Twilight	0
	<b>TOTAL</b>	<b>18</b>	<b>14</b>	<b>18</b>	<b>50</b>	<b>16.67</b>	<b>48200</b>	<b>1.02</b>	<b>0.80</b>	<b>1.02</b>	<b>0.95</b>				<b>50</b>
Thomas & 39th Ave	PDO	5	2	5	12							Angle	10	Light	13
	INJ	5	3	2	10							Left Turn	5	Dark	7
	FTL	0	0	0	0							B/P	2	Twilight	2
	<b>TOTAL</b>	<b>10</b>	<b>5</b>	<b>7</b>	<b>22</b>	<b>7.33</b>	<b>38357</b>	<b>0.71</b>	<b>0.36</b>	<b>0.50</b>	<b>0.52</b>				<b>22</b>
Thomas & 3rd St	PDO	8	2	5	15							Angle	6	Light	32
	INJ	8	5	8	21							Left Turn	10	Dark	4
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>16</b>	<b>7</b>	<b>13</b>	<b>36</b>	<b>12.00</b>	<b>50375</b>	<b>0.87</b>	<b>0.38</b>	<b>0.71</b>	<b>0.65</b>				<b>36</b>
Thomas & 40th St	PDO	18	17	13	48							Angle	20	Light	47
	INJ	9	7	5	21							Left Turn	15	Dark	18
	FTL	0	0	0	0							B/P	1	Twilight	4
	<b>TOTAL</b>	<b>27</b>	<b>24</b>	<b>18</b>	<b>69</b>	<b>23.00</b>	<b>54543</b>	<b>1.36</b>	<b>1.21</b>	<b>0.90</b>	<b>1.16</b>				<b>69</b>
Thomas & 52nd St	PDO	9	3	6	18							Angle	9	Light	25
	INJ	7	2	3	12							Left Turn	3	Dark	5
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>16</b>	<b>5</b>	<b>9</b>	<b>30</b>	<b>10.00</b>	<b>31267</b>	<b>1.40</b>	<b>0.44</b>	<b>0.79</b>	<b>0.88</b>				<b>30</b>
Thomas & 55th Ave	PDO	14	7	7	28							Angle	13	Light	20
	INJ	4	5	2	11							Left Turn	11	Dark	16
	FTL	0	0	0	0							B/P	1	Twilight	3
	<b>TOTAL</b>	<b>18</b>	<b>12</b>	<b>9</b>	<b>39</b>	<b>13.00</b>	<b>38701</b>	<b>1.27</b>	<b>0.85</b>	<b>0.64</b>	<b>0.92</b>				<b>39</b>
Thomas & 63rd Ave	PDO	1	4	4	9							Angle	3	Light	10
	INJ	1	3	3	7							Left Turn	3	Dark	4
	FTL	0	0	0	0							B/P	1	Twilight	2
	<b>TOTAL</b>	<b>2</b>	<b>7</b>	<b>7</b>	<b>16</b>	<b>5.33</b>	<b>40374</b>	<b>0.14</b>	<b>0.48</b>	<b>0.48</b>	<b>0.36</b>				<b>16</b>

Appendix B

2008-2010

Intersection							Rate Calculations					Characteristics			
	Type	2008	2009	2010	Total	Average (collisions/ yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
Thomas & 71st Ave	PDO	8	4	6	18							Angle	12	Light	20
	INJ	6	4	4	14							Left Turn	4	Dark	11
	FTL	0	0	0	0							B/P	1	Twilight	1
	<b>TOTAL</b>	<b>14</b>	<b>8</b>	<b>10</b>	<b>32</b>	<b>10.67</b>	<b>36588</b>	<b>1.05</b>	<b>0.60</b>	<b>0.75</b>	<b>0.80</b>				<b>32</b>
Thunderbird & 31st Ave	PDO	5	9	1	15							Angle	6	Light	22
	INJ	3	6	5	14							Left Turn	5	Dark	6
	FTL	0	0	0	0							B/P	1	Twilight	1
	<b>TOTAL</b>	<b>8</b>	<b>15</b>	<b>6</b>	<b>29</b>	<b>9.67</b>	<b>51603</b>	<b>0.42</b>	<b>0.80</b>	<b>0.32</b>	<b>0.51</b>				<b>29</b>
Thunderbird & 36th St	PDO	2	0	1	3							Angle	1	Light	4
	INJ	1	1	2	4							Left Turn	0	Dark	3
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>7</b>	<b>2.33</b>	<b>27448</b>	<b>0.30</b>	<b>0.10</b>	<b>0.30</b>	<b>0.23</b>				<b>7</b>
Thunderbird & 39th Ave	PDO	2	2	2	6							Angle	4	Light	10
	INJ	4	3	1	8							Left Turn	3	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	3
	<b>TOTAL</b>	<b>6</b>	<b>5</b>	<b>3</b>	<b>14</b>	<b>4.67</b>	<b>41565</b>	<b>0.40</b>	<b>0.33</b>	<b>0.20</b>	<b>0.31</b>				<b>14</b>
Thunderbird Rd & 44th St	PDO	5	1	1	7							Angle	6	Light	15
	INJ	7	2	3	12							Left Turn	2	Dark	3
	FTL	0	0	0	0							B/P	1	Twilight	1
	<b>TOTAL</b>	<b>12</b>	<b>3</b>	<b>4</b>	<b>19</b>	<b>6.33</b>	<b>30792</b>	<b>1.07</b>	<b>0.27</b>	<b>0.36</b>	<b>0.56</b>				<b>19</b>
Union Hills Dr & 16th St	PDO	4	6	3	13							Angle	8	Light	18
	INJ	3	3	2	8							Left Turn	2	Dark	2
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>7</b>	<b>9</b>	<b>5</b>	<b>21</b>	<b>7.00</b>	<b>30014</b>	<b>0.64</b>	<b>0.82</b>	<b>0.46</b>	<b>0.64</b>				<b>21</b>
Van Buren & 15th Ave	PDO	5	5	1	11							Angle	5	Light	15
	INJ	5	1	0	6							Left Turn	5	Dark	1
	FTL	0	0	0	0							B/P	1	Twilight	1
	<b>TOTAL</b>	<b>10</b>	<b>6</b>	<b>1</b>	<b>17</b>	<b>5.67</b>	<b>21258</b>	<b>1.29</b>	<b>0.77</b>	<b>0.13</b>	<b>0.73</b>				<b>17</b>
Van Buren & 40th St	PDO	4	2	4	10							Angle	2	Light	14
	INJ	2	3	2	7							Left Turn	7	Dark	3
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>5</b>	<b>6</b>	<b>17</b>	<b>5.67</b>	<b>23964</b>	<b>0.69</b>	<b>0.57</b>	<b>0.69</b>	<b>0.65</b>				<b>17</b>
Van Buren & 48th St	PDO	5	4	8	17							Angle	10	Light	18
	INJ	3	4	2	9							Left Turn	2	Dark	6
	FTL	0	0	0	0							B/P	1	Twilight	2
	<b>TOTAL</b>	<b>8</b>	<b>8</b>	<b>10</b>	<b>26</b>	<b>8.67</b>	<b>28040</b>	<b>0.78</b>	<b>0.78</b>	<b>0.98</b>	<b>0.85</b>				<b>26</b>

Appendix C

## Arterial - Local Intersections

2006-2007

**Signalized**

Intersection	Type	Collision History				Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions/ yr)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
16th St & Morten Ave	PDO	2	1	3						Angle	0	Light	5
	INJ	2	0	2						Left Turn	1	Dark	0
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>1</b>	<b>5</b>	<b>2.50</b>	<b>21781</b>	<b>0.50</b>	<b>0.13</b>	<b>0.31</b>				<b>5</b>
16th St & Rose Ln	PDO	3	1	4						Angle	0	Light	4
	INJ	1	1	2						Left Turn	0	Dark	2
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>2</b>	<b>6</b>	<b>3.00</b>	<b>25194</b>	<b>0.43</b>	<b>0.22</b>	<b>0.33</b>				<b>6</b>
19th Ave & Colter St	PDO	9	6	15						Angle	3	Light	15
	INJ	3	2	5						Left Turn	1	Dark	5
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>12</b>	<b>8</b>	<b>20</b>	<b>10.00</b>	<b>32852</b>	<b>1.00</b>	<b>0.67</b>	<b>0.83</b>				<b>20</b>
19th Ave & Desert Cove Ave	PDO	4	6	10						Angle	2	Light	12
	INJ	3	3	6						Left Turn	2	Dark	3
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>7</b>	<b>9</b>	<b>16</b>	<b>8.00</b>	<b>40004</b>	<b>0.48</b>	<b>0.62</b>	<b>0.55</b>				<b>16</b>
19th Ave & Monte Vista Rd	PDO	1	0	1						Angle	1	Light	2
	INJ	0	1	1						Left Turn	1	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1.00</b>	<b>17101</b>	<b>0.16</b>	<b>0.16</b>	<b>0.16</b>				<b>2</b>
24th St & Pierce St	PDO	3	1	4						Angle	0	Light	4
	INJ	1	1	2						Left Turn	2	Dark	2
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>2</b>	<b>6</b>	<b>3.00</b>	<b>29447</b>	<b>0.37</b>	<b>0.19</b>	<b>0.28</b>				<b>6</b>
32nd St & Nisbet Rd	PDO	1	1	2						Angle	1	Light	3
	INJ	0	1	1						Left Turn	0	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>1.50</b>	<b>24301</b>	<b>0.11</b>	<b>0.23</b>	<b>0.17</b>				<b>3</b>
35th Ave & Earll Dr	PDO	10	7	17						Angle	6	Light	21
	INJ	4	2	6						Left Turn	3	Dark	0
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>14</b>	<b>9</b>	<b>23</b>	<b>11.50</b>	<b>27947</b>	<b>1.37</b>	<b>0.88</b>	<b>1.13</b>				<b>23</b>
35th Ave & Rose Ln	PDO	2	3	5						Angle	8	Light	12
	INJ	6	4	10						Left Turn	1	Dark	3
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>8</b>	<b>7</b>	<b>15</b>	<b>7.50</b>	<b>30674</b>	<b>0.71</b>	<b>0.63</b>	<b>0.67</b>				<b>15</b>

Appendix C

### Arterial - Local Intersections

2006-2007

**Signalized**

Intersection	Type	Collision History				Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions/ yr)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
40th St & Raymond St	PDO	4	3	7						Angle	2	Light	10
	INJ	0	3	3						Left Turn	2	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>6</b>	<b>10</b>	<b>5.00</b>	<b>22497</b>	<b>0.49</b>	<b>0.73</b>	<b>0.61</b>				<b>10</b>
44th St & Indianola Ave	PDO	2	2	4						Angle	2	Light	10
	INJ	1	6	7						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>8</b>	<b>11</b>	<b>5.50</b>	<b>39360</b>	<b>0.21</b>	<b>0.56</b>	<b>0.38</b>				<b>11</b>
44th St & Palm Ln	PDO	3	4	7						Angle	4	Light	8
	INJ	1	1	2						Left Turn	1	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>5</b>	<b>9</b>	<b>4.50</b>	<b>43302</b>	<b>0.25</b>	<b>0.32</b>	<b>0.28</b>				<b>9</b>
44th St & Bellevue St	PDO	0	2	2						Angle	0	Light	4
	INJ	1	1	2						Left Turn	2	Dark	0
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>2.00</b>	<b>33084</b>	<b>0.08</b>	<b>0.25</b>	<b>0.17</b>				<b>4</b>
7th St & Alice Ave	PDO	4	6	10						Angle	6	Light	12
	INJ	3	2	5						Left Turn	0	Dark	4
	FTL	0	1	1						B/P	2	Twilight	0
	<b>TOTAL</b>	<b>7</b>	<b>9</b>	<b>16</b>	<b>8.00</b>	<b>28069</b>	<b>0.68</b>	<b>0.88</b>	<b>0.78</b>				<b>16</b>
7th St & Palm Ln	PDO	9	7	16						Angle	7	Light	25
	INJ	4	6	10						Left Turn	2	Dark	1
	FTL	0	0	0						B/P	2	Twilight	0
	<b>TOTAL</b>	<b>13</b>	<b>13</b>	<b>26</b>	<b>13.00</b>	<b>42197</b>	<b>0.84</b>	<b>0.84</b>	<b>0.84</b>				<b>26</b>
Baseline Rd & 46th St	PDO	10	6	16						Angle	2	Light	18
	INJ	3	6	9						Left Turn	5	Dark	5
	FTL	0	0	0						B/P	3	Twilight	2
	<b>TOTAL</b>	<b>13</b>	<b>12</b>	<b>25</b>	<b>12.50</b>	<b>35878</b>	<b>0.99</b>	<b>0.92</b>	<b>0.95</b>				<b>25</b>
Bell Rd & 3rd St	PDO	4	13	17						Angle	7	Light	19
	INJ	2	3	5						Left Turn	4	Dark	3
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>16</b>	<b>22</b>	<b>11.00</b>	<b>42453</b>	<b>0.39</b>	<b>1.03</b>	<b>0.71</b>				<b>22</b>
Bell Rd & 17th Ave	PDO	6	5	11						Angle	3	Light	13
	INJ	4	2	6						Left Turn	9	Dark	4
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>10</b>	<b>7</b>	<b>17</b>	<b>8.50</b>	<b>43176</b>	<b>0.63</b>	<b>0.44</b>	<b>0.54</b>				<b>17</b>

Appendix C

## Arterial - Local Intersections

2006-2007

**Signalized**

Intersection	Type	Collision History				Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions/ yr)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
32nd & Nisbet Rd	PDO	1	1	2						Angle	1	Light	3
	INJ	0	1	1						Left Turn	0	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>1.50</b>	<b>24301</b>	<b>0.11</b>	<b>0.23</b>	<b>0.17</b>				<b>3</b>
Bell Rd & 33rd Ave	PDO	3	1	4						Angle	2	Light	5
	INJ	0	5	5						Left Turn	3	Dark	4
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>6</b>	<b>9</b>	<b>4.50</b>	<b>46635</b>	<b>0.18</b>	<b>0.35</b>	<b>0.26</b>				<b>9</b>
Bell Rd & 9th St	PDO	18	10	28						Angle	6	Light	27
	INJ	4	8	12						Left Turn	6	Dark	11
	FTL	0	0	0						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>22</b>	<b>18</b>	<b>40</b>	<b>20.00</b>	<b>37385</b>	<b>1.61</b>	<b>1.32</b>	<b>1.47</b>				<b>40</b>
Bethany Home Rd & 21st Ave	PDO	10	7	17						Angle	10	Light	26
	INJ	9	4	13						Left Turn	3	Dark	3
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>19</b>	<b>11</b>	<b>30</b>	<b>15.00</b>	<b>42300</b>	<b>1.23</b>	<b>0.71</b>	<b>0.97</b>				<b>30</b>
Bethany Home Rd & 33rd Ave	PDO	4	11	15						Angle	6	Light	17
	INJ	4	4	8						Left Turn	1	Dark	5
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>8</b>	<b>15</b>	<b>23</b>	<b>11.50</b>	<b>37812</b>	<b>0.58</b>	<b>1.09</b>	<b>0.83</b>				<b>23</b>
Buckeye & 25th Ave	PDO	6	7	13						Angle	3	Light	11
	INJ	1	1	2						Left Turn	4	Dark	1
	FTL	0	0	0						B/P	0	Twilight	3
	<b>TOTAL</b>	<b>7</b>	<b>8</b>	<b>15</b>	<b>7.50</b>	<b>31222</b>	<b>0.61</b>	<b>0.70</b>	<b>0.66</b>				<b>15</b>
Camelback Rd & 26th St	PDO	4	3	7						Angle	0	Light	4
	INJ	2	0	2						Left Turn	3	Dark	5
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>3</b>	<b>9</b>	<b>4.50</b>	<b>43781</b>	<b>0.38</b>	<b>0.19</b>	<b>0.28</b>				<b>9</b>
Camelback Rd & 33rd Ave	PDO	1	6	7						Angle	7	Light	11
	INJ	3	2	5						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>8</b>	<b>12</b>	<b>6.00</b>	<b>34651</b>	<b>0.32</b>	<b>0.63</b>	<b>0.47</b>				<b>12</b>
Camelback Rd & 37th Ave	PDO	8	9	17						Angle	7	Light	19
	INJ	3	8	11						Left Turn	7	Dark	7
	FTL	0	0	0						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>11</b>	<b>17</b>	<b>28</b>	<b>14.00</b>	<b>33876</b>	<b>0.89</b>	<b>1.37</b>	<b>1.13</b>				<b>28</b>

Appendix C

## Arterial - Local Intersections

2006-2007

**Signalized**

Intersection	Type	Collision History				Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions/ yr)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Camelback Rd & 22nd St	PDO	7	8	15						Angle	2	Light	14
	INJ	1	2	3						Left Turn	5	Dark	3
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>8</b>	<b>10</b>	<b>18</b>	<b>9.00</b>	<b>46351</b>	<b>0.47</b>	<b>0.59</b>	<b>0.53</b>				<b>18</b>
Cave Creek Rd & Sharon Dr	PDO	4	0	4						Angle	1	Light	6
	INJ	3	3	6						Left Turn	6	Dark	5
	FTL	0	1	1						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>7</b>	<b>4</b>	<b>11</b>	<b>5.50</b>	<b>31569</b>	<b>0.61</b>	<b>0.35</b>	<b>0.48</b>				<b>11</b>
Central Ave & Alta Vista Rd	PDO	2	5	7						Angle	2	Light	11
	INJ	3	3	6						Left Turn	4	Dark	2
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>8</b>	<b>13</b>	<b>6.50</b>	<b>24106</b>	<b>0.57</b>	<b>0.91</b>	<b>0.74</b>				<b>13</b>
Glendale Ave & 17th Dr	PDO	6	3	9						Angle	7	Light	12
	INJ	4	2	6						Left Turn	1	Dark	2
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>10</b>	<b>5</b>	<b>15</b>	<b>7.50</b>	<b>33347</b>	<b>0.82</b>	<b>0.41</b>	<b>0.62</b>				<b>15</b>
Glendale Ave & 21st Ave	PDO	7	5	12						Angle	10	Light	21
	INJ	7	6	13						Left Turn	3	Dark	2
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>14</b>	<b>11</b>	<b>25</b>	<b>12.50</b>	<b>34435</b>	<b>1.11</b>	<b>0.88</b>	<b>0.99</b>				<b>25</b>
McDowell Rd & 10th St	PDO	2	4	6						Angle	2	Light	10
	INJ	2	4	6						Left Turn	3	Dark	0
	FTL	0	0	0						B/P	2	Twilight	2
	<b>TOTAL</b>	<b>4</b>	<b>8</b>	<b>12</b>	<b>6.00</b>	<b>30124</b>	<b>0.36</b>	<b>0.73</b>	<b>0.55</b>				<b>12</b>
Thomas Rd & 46th St	PDO	7	12	19						Angle	6	Light	15
	INJ	2	2	4						Left Turn	5	Dark	7
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>9</b>	<b>14</b>	<b>23</b>	<b>11.50</b>	<b>40566</b>	<b>0.61</b>	<b>0.95</b>	<b>0.78</b>				<b>23</b>
Van Buren St & 9th St	PDO	1	4	5						Angle	4	Light	6
	INJ	2	2	4						Left Turn	1	Dark	2
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>3</b>	<b>6</b>	<b>9</b>	<b>4.50</b>	<b>21146</b>	<b>0.39</b>	<b>0.78</b>	<b>0.58</b>				<b>9</b>
27th Ave & Glenrosa Ave	PDO	5	3	8						Angle	1	Light	8
	INJ	1	2	3						Left Turn	1	Dark	2
	FTL	0	0	0						B/P	2	Twilight	1
	<b>TOTAL</b>	<b>6</b>	<b>5</b>	<b>11</b>	<b>5.50</b>	<b>26978</b>	<b>0.61</b>	<b>0.51</b>	<b>0.56</b>				<b>11</b>

Appendix C

### Arterial - Local Intersections

2006-2007

**Signalized**

Intersection	Type	Collision History				Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions/ yr)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
43rd Ave & Glenrosa Ave	PDO	9	7	16						Angle	6	Light	19
	INJ	6	1	7						Left Turn	1	Dark	3
	FTL	0	0	0						B/P	3	Twilight	1
	<b>TOTAL</b>	<b>15</b>	<b>8</b>	<b>23</b>	<b>11.50</b>	<b>31576</b>	<b>1.30</b>	<b>0.69</b>	<b>1.00</b>				<b>23</b>
83rd Ave & Glenrosa Ave	PDO	1	4	5						Angle	3	Light	10
	INJ	4	1	5						Left Turn	3	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5.00</b>	<b>24018</b>	<b>0.57</b>	<b>0.57</b>	<b>0.57</b>				<b>10</b>
35th Ave & Fillmore St	PDO	8	5	13						Angle	2	Light	11
	INJ	2	1	3						Left Turn	2	Dark	4
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>10</b>	<b>6</b>	<b>16</b>	<b>8.00</b>	<b>38105</b>	<b>0.72</b>	<b>0.43</b>	<b>0.58</b>				<b>16</b>
University Dr & Elwood St	PDO	4	6	10						Angle	5	Light	12
	INJ	2	2	4						Left Turn	3	Dark	2
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>8</b>	<b>14</b>	<b>7.00</b>	<b>26267</b>	<b>0.63</b>	<b>0.83</b>	<b>0.73</b>				<b>14</b>
7th St & Hearn Rd	PDO	0	0	0						Angle	0	Light	2
	INJ	1	1	2						Left Turn	0	Dark	0
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1.00</b>	<b>36112</b>	<b>0.08</b>	<b>0.08</b>	<b>0.08</b>				<b>2</b>
Ray Rd & 46th Pl	PDO	0	2	2						Angle	4	Light	10
	INJ	6	3	9						Left Turn	4	Dark	1
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>5</b>	<b>11</b>	<b>5.50</b>	<b>37685</b>	<b>0.44</b>	<b>0.36</b>	<b>0.40</b>				<b>11</b>

Appendix C

**Unsignalized**

Intersection	Type	Collision History				Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions/ yr)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
16th St & Cambridge Ave	PDO	4	3	7						Angle	4	Light	9
	INJ	1	3	4						Left Turn	2	Dark	2
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>6</b>	<b>11</b>	<b>5.50</b>	<b>32680</b>	<b>0.42</b>	<b>0.50</b>	<b>0.46</b>				<b>11</b>
16th St & Mohave St	PDO	5	4	9						Angle	1	Light	8
	INJ	3	2	5						Left Turn	3	Dark	4
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>8</b>	<b>6</b>	<b>14</b>	<b>7.00</b>	<b>24991</b>	<b>0.88</b>	<b>0.66</b>	<b>0.77</b>				<b>14</b>
19th Ave & Cheryl Dr	PDO	4	2	6						Angle	4	Light	7
	INJ	0	2	2						Left Turn	1	Dark	0
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>4.00</b>	<b>35174</b>	<b>0.31</b>	<b>0.31</b>	<b>0.31</b>				<b>8</b>
19th Ave & Myrtle Ave	PDO	2	0	2						Angle	1	Light	3
	INJ	2	0	2						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>0</b>	<b>4</b>	<b>2.00</b>	<b>29917</b>	<b>0.37</b>	<b>0.00</b>	<b>0.18</b>				<b>4</b>
19th Ave & Sunnyside Dr	PDO	3	4	7						Angle	2	Light	6
	INJ	1	0	1						Left Turn	0	Dark	2
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>4.00</b>	<b>39325</b>	<b>0.28</b>	<b>0.28</b>	<b>0.28</b>				<b>8</b>
24th St & Willetta St	PDO	3	3	6						Angle	5	Light	3
	INJ	2	0	2						Left Turn	1	Dark	4
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>5</b>	<b>3</b>	<b>8</b>	<b>4.00</b>	<b>40647</b>	<b>0.34</b>	<b>0.20</b>	<b>0.27</b>				<b>8</b>
24th St & Pinchot Ave	PDO	5	6	11						Angle	3	Light	11
	INJ	2	2	4						Left Turn	5	Dark	4
	FTL	1	0	1						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>8</b>	<b>8</b>	<b>16</b>	<b>8.00</b>	<b>30688</b>	<b>0.71</b>	<b>0.71</b>	<b>0.71</b>				<b>16</b>
35th Ave & Myrtle Ave	PDO	1	1	2						Angle	2	Light	3
	INJ	1	1	2						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>2.00</b>	<b>37566</b>	<b>0.15</b>	<b>0.15</b>	<b>0.15</b>				<b>4</b>
35th Ave & Polk St	PDO	3	5	8						Angle	5	Light	6
	INJ	0	1	1						Left Turn	1	Dark	3
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>6</b>	<b>9</b>	<b>4.50</b>	<b>37301</b>	<b>0.22</b>	<b>0.44</b>	<b>0.33</b>				<b>9</b>
40th St & Wier Ave	PDO	1	1	2						Angle	2	Light	3
	INJ	0	1	1						Left Turn	0	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>1.50</b>	<b>31282</b>	<b>0.09</b>	<b>0.18</b>	<b>0.13</b>				<b>3</b>

Appendix C

**Unsignalized**

Intersection	Type	Collision History				Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions/ yr)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
43rd Ave & Desert Cove Ave	PDO	2	0	2						Angle	2	Light	6
	INJ	2	2	4						Left Turn	1	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>2</b>	<b>6</b>	<b>3.00</b>	<b>32905</b>	<b>0.33</b>	<b>0.17</b>	<b>0.25</b>				<b>6</b>
43rd Ave & Earll Dr	PDO	4	3	7						Angle	0	Light	6
	INJ	0	1	1						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>4.00</b>	<b>40630</b>	<b>0.27</b>	<b>0.27</b>	<b>0.27</b>				<b>8</b>
43rd Ave & Virginia Ave	PDO	4	3	7						Angle	5	Light	7
	INJ	5	3	8						Left Turn	3	Dark	7
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>9</b>	<b>6</b>	<b>15</b>	<b>7.50</b>	<b>41109</b>	<b>0.60</b>	<b>0.40</b>	<b>0.50</b>				<b>15</b>
59th Ave & Coronado Rd	PDO	1	2	3						Angle	2	Light	4
	INJ	1	0	1						Left Turn	0	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>2.00</b>	<b>36033</b>	<b>0.15</b>	<b>0.15</b>	<b>0.15</b>				<b>4</b>
59th Ave & Palm Ln	PDO	4	2	6						Angle	6	Light	5
	INJ	3	2	5						Left Turn	2	Dark	6
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>7</b>	<b>4</b>	<b>11</b>	<b>5.50</b>	<b>36033</b>	<b>0.53</b>	<b>0.30</b>	<b>0.42</b>				<b>11</b>
64th St & Aster Dr	PDO	0	0	0						Angle	0	Light	0
	INJ	0	0	0						Left Turn	0	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>10900</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>				<b>0</b>
7th Ave & Colter St	PDO	6	4	10						Angle	3	Light	10
	INJ	3	1	4						Left Turn	0	Dark	3
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>9</b>	<b>5</b>	<b>14</b>	<b>7.00</b>	<b>26727</b>	<b>0.92</b>	<b>0.51</b>	<b>0.72</b>				<b>14</b>
7th Ave & Montecito Ave	PDO	2	2	4						Angle	1	Light	5
	INJ	1	1	2						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>3.00</b>	<b>33901</b>	<b>0.24</b>	<b>0.24</b>	<b>0.24</b>				<b>6</b>
7th Ave & Sunland Ave	PDO	3	2	5						Angle	11	Light	9
	INJ	5	4	9						Left Turn	1	Dark	6
	FTL	0	1	1						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>8</b>	<b>7</b>	<b>15</b>	<b>7.50</b>	<b>22786</b>	<b>0.96</b>	<b>0.84</b>	<b>0.90</b>				<b>15</b>
7th St & Colter St	PDO	4	12	16						Angle	5	Light	20
	INJ	3	6	9						Left Turn	2	Dark	4
	FTL	0	1	1						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>7</b>	<b>19</b>	<b>26</b>	<b>13.00</b>	<b>37760</b>	<b>0.51</b>	<b>1.38</b>	<b>0.94</b>				<b>26</b>

Appendix C

**Unsignalized**

Intersection	Type	Collision History				Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions/ yr)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
7th St & Montebello Ave	PDO	7	4	11						Angle	7	Light	21
	INJ	7	5	12						Left Turn	1	Dark	1
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>14</b>	<b>9</b>	<b>23</b>	<b>11.50</b>	<b>36422</b>	<b>1.05</b>	<b>0.68</b>	<b>0.87</b>				<b>23</b>
7th St & Pima St	PDO	4	2	6						Angle	7	Light	6
	INJ	1	2	3						Left Turn	1	Dark	3
	FTL	0	1	1						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5.00</b>	<b>23872</b>	<b>0.57</b>	<b>0.57</b>	<b>0.57</b>				<b>10</b>
7th St & Townley Ave	PDO	11	12	23						Angle	15	Light	31
	INJ	11	4	15						Left Turn	5	Dark	3
	FTL	0	0	0						B/P	2	Twilight	4
	<b>TOTAL</b>	<b>22</b>	<b>16</b>	<b>38</b>	<b>19.00</b>	<b>34566</b>	<b>1.74</b>	<b>1.27</b>	<b>1.51</b>				<b>38</b>
7th St & Windsor Ave	PDO	2	4	6						Angle	0	Light	11
	INJ	5	3	8						Left Turn	3	Dark	3
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>7</b>	<b>7</b>	<b>14</b>	<b>7.00</b>	<b>41738</b>	<b>0.46</b>	<b>0.46</b>	<b>0.46</b>				<b>14</b>
7th St & Weir Ave	PDO	0	1	1						Angle	2	Light	3
	INJ	2	1	3						Left Turn	1	Dark	2
	FTL	1	0	1						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>2</b>	<b>5</b>	<b>2.50</b>	<b>22026</b>	<b>0.37</b>	<b>0.25</b>	<b>0.31</b>				<b>5</b>
Bell Rd & 11th Ave	PDO	4	3	7						Angle	3	Light	5
	INJ	0	2	2						Left Turn	1	Dark	4
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>5</b>	<b>9</b>	<b>4.50</b>	<b>39815</b>	<b>0.28</b>	<b>0.34</b>	<b>0.31</b>				<b>9</b>
Bethany Home Rd & 41st Ave	PDO	5	1	6						Angle	3	Light	3
	INJ	0	3	3						Left Turn	2	Dark	6
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>4</b>	<b>9</b>	<b>4.50</b>	<b>34848</b>	<b>0.39</b>	<b>0.31</b>	<b>0.35</b>				<b>9</b>
Camelback Rd & 10th St	PDO	8	2	10						Angle	2	Light	11
	INJ	2	2	4						Left Turn	1	Dark	3
	FTL	0	0	0						B/P	2	Twilight	0
	<b>TOTAL</b>	<b>10</b>	<b>4</b>	<b>14</b>	<b>7.00</b>	<b>42407</b>	<b>0.65</b>	<b>0.26</b>	<b>0.45</b>				<b>14</b>
Dunlap Ave & 22nd Ave	PDO	6	5	11						Angle	7	Light	14
	INJ	7	1	8						Left Turn	1	Dark	5
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>13</b>	<b>6</b>	<b>19</b>	<b>9.50</b>	<b>46841</b>	<b>0.76</b>	<b>0.35</b>	<b>0.56</b>				<b>19</b>
Indian School Rd & 20th Ave	PDO	13	7	20						Angle	8	Light	26
	INJ	8	7	15						Left Turn	1	Dark	8
	FTL	0	0	0						B/P	4	Twilight	1
	<b>TOTAL</b>	<b>21</b>	<b>14</b>	<b>35</b>	<b>17.50</b>	<b>49022</b>	<b>1.17</b>	<b>0.78</b>	<b>0.98</b>				<b>35</b>

Appendix C

**Unsignalized**

Intersection	Type	Collision History				Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions/ yr)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Indian School Rd & 49th Ave	PDO	7	2	9						Angle	1	Light	11
	INJ	2	2	4						Left Turn	4	Dark	2
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>9</b>	<b>4</b>	<b>13</b>	<b>6.50</b>	<b>47980</b>	<b>0.51</b>	<b>0.23</b>	<b>0.37</b>				<b>13</b>
Indian School Rd & 9th St	PDO	10	10	20						Angle	9	Light	22
	INJ	2	4	6						Left Turn	6	Dark	2
	FTL	0	0	0						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>12</b>	<b>14</b>	<b>26</b>	<b>13.00</b>	<b>43911</b>	<b>0.75</b>	<b>0.87</b>	<b>0.81</b>				<b>26</b>
McDowell Rd & 18th St	PDO	12	8	20						Angle	10	Light	19
	INJ	2	6	8						Left Turn	3	Dark	8
	FTL	0	0	0						B/P	2	Twilight	1
	<b>TOTAL</b>	<b>14</b>	<b>14</b>	<b>28</b>	<b>14.00</b>	<b>33985</b>	<b>1.13</b>	<b>1.13</b>	<b>1.13</b>				<b>28</b>
McDowell Rd & 41st Ave	PDO	7	5	12						Angle	5	Light	11
	INJ	3	2	5						Left Turn	3	Dark	5
	FTL	1	0	1						B/P	2	Twilight	2
	<b>TOTAL</b>	<b>11</b>	<b>7</b>	<b>18</b>	<b>9.00</b>	<b>28877</b>	<b>1.04</b>	<b>0.66</b>	<b>0.85</b>				<b>18</b>
Peoria Ave & 33rd Ave	PDO	4	4	8						Angle	4	Light	8
	INJ	1	0	1						Left Turn	3	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>4</b>	<b>9</b>	<b>4.50</b>	<b>42749</b>	<b>0.32</b>	<b>0.26</b>	<b>0.29</b>				<b>9</b>
Southern Ave & 18th St	PDO	0	4	4						Angle	4	Light	4
	INJ	3	1	4						Left Turn	0	Dark	4
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>5</b>	<b>8</b>	<b>4.00</b>	<b>23491</b>	<b>0.35</b>	<b>0.58</b>	<b>0.47</b>				<b>8</b>
Tatum Blvd & Robert E Lee St	PDO	0	2	2						Angle	3	Light	4
	INJ	3	1	4						Left Turn	0	Dark	2
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>3.00</b>	<b>35871</b>	<b>0.23</b>	<b>0.23</b>	<b>0.23</b>				<b>6</b>
Thomas Rd & 30th St	PDO	8	4	12						Angle	9	Light	14
	INJ	4	3	7						Left Turn	0	Dark	4
	FTL	0	0	0						B/P	2	Twilight	1
	<b>TOTAL</b>	<b>12</b>	<b>7</b>	<b>19</b>	<b>9.50</b>	<b>38718</b>	<b>0.85</b>	<b>0.50</b>	<b>0.67</b>				<b>19</b>
Thomas Rd & 42nd St	PDO	3	5	8						Angle	2	Light	9
	INJ	1	2	3						Left Turn	1	Dark	1
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>4</b>	<b>7</b>	<b>11</b>	<b>5.50</b>	<b>35063</b>	<b>0.31</b>	<b>0.55</b>	<b>0.43</b>				<b>11</b>
Thomas Rd & 69th Ave	PDO	6	4	10						Angle	6	Light	8
	INJ	1	1	2						Left Turn	2	Dark	4
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>7</b>	<b>5</b>	<b>12</b>	<b>6.00</b>	<b>22849</b>	<b>0.84</b>	<b>0.60</b>	<b>0.72</b>				<b>12</b>

Appendix C

**Unsignalized**

Intersection	Type	Collision History				Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions/ yr)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Thunderbird Rd & 33rd Ave	PDO	4	3	7						Angle	7	Light	8
	INJ	1	2	3						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5.00</b>	<b>44149</b>	<b>0.31</b>	<b>0.31</b>	<b>0.31</b>				<b>10</b>
Union Hills Dr & 45th Ave	PDO	2	2	4						Angle	3	Light	7
	INJ	2	3	5						Left Turn	2	Dark	1
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>4</b>	<b>5</b>	<b>9</b>	<b>4.50</b>	<b>29351</b>	<b>0.37</b>	<b>0.47</b>	<b>0.42</b>				<b>9</b>

Appendix C

2008-2010  
Signalized

Intersection		Collision History					Rate Calculations					Characteristics			
	Type	2008	2009	2010	Total	Average (collisions/yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
16th St & Colter St	PDO	5	3	2	10							Angle	4	Light	11
	INJ	0	2	2	4							Left Turn	1	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>5</b>	<b>4</b>	<b>14</b>	<b>4.67</b>	<b>28321</b>	<b>0.48</b>	<b>0.48</b>	<b>0.39</b>	<b>0.45</b>				<b>14</b>
16th St & Morten Ave	PDO	4	1	1	6							Angle	1	Light	8
	INJ	0	1	1	2							Left Turn	5	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>8</b>	<b>2.67</b>	<b>21331</b>	<b>0.51</b>	<b>0.26</b>	<b>0.26</b>	<b>0.34</b>				<b>8</b>
16th St & Rose Ln	PDO	1	1	1	3							Angle	0	Light	4
	INJ	1	0	0	1							Left Turn	1	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>1.33</b>	<b>25881</b>	<b>0.21</b>	<b>0.11</b>	<b>0.11</b>	<b>0.14</b>				<b>4</b>
19th Ave & Colter St	PDO	5	3	2	10							Angle	4	Light	11
	INJ	0	2	2	4							Left Turn	1	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>5</b>	<b>4</b>	<b>14</b>	<b>4.67</b>	<b>34117</b>	<b>0.40</b>	<b>0.40</b>	<b>0.32</b>	<b>0.37</b>				<b>14</b>
19th Ave & Desert Cove Ave	PDO	6	2	1	9							Angle	2	Light	13
	INJ	3	4	3	10							Left Turn	3	Dark	6
	FTL	1	0	0	1							B/P	1	Twilight	1
	<b>TOTAL</b>	<b>10</b>	<b>6</b>	<b>4</b>	<b>20</b>	<b>6.67</b>	<b>33323</b>	<b>0.82</b>	<b>0.49</b>	<b>0.33</b>	<b>0.55</b>				<b>20</b>
19th Ave & Monte Vista Rd	PDO	1	1	1	3							Angle	0	Light	4
	INJ	1	1	1	3							Left Turn	1	Dark	2
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>6</b>	<b>2.00</b>	<b>14756</b>	<b>0.37</b>	<b>0.37</b>	<b>0.37</b>	<b>0.37</b>				<b>6</b>
24th St & Pierce St	PDO	1	1	1	3							Angle	1	Light	4
	INJ	0	3	0	3							Left Turn	1	Dark	2
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>6</b>	<b>2.00</b>	<b>19275</b>	<b>0.14</b>	<b>0.57</b>	<b>0.14</b>	<b>0.28</b>				<b>6</b>
32nd St & Nisbet Rd	PDO	0	2	1	3							Angle	2	Light	3
	INJ	0	1	0	1							Left Turn	0	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>1.33</b>	<b>22935</b>	<b>0.00</b>	<b>0.36</b>	<b>0.12</b>	<b>0.16</b>				<b>4</b>
35th Ave & Earll Dr	PDO	2	1	3	6							Angle	2	Light	9
	INJ	2	0	1	3							Left Turn	2	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>1</b>	<b>4</b>	<b>9</b>	<b>3.00</b>	<b>23878</b>	<b>0.46</b>	<b>0.11</b>	<b>0.46</b>	<b>0.34</b>				<b>9</b>
35th Ave & Rose Ln	PDO	3	0	4	7							Angle	4	Light	9
	INJ	2	3	0	5							Left Turn	1	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>3</b>	<b>4</b>	<b>12</b>	<b>4.00</b>	<b>27816</b>	<b>0.49</b>	<b>0.30</b>	<b>0.39</b>	<b>0.39</b>				<b>12</b>
40th St & Raymond St	PDO	2	4	5	11							Angle	6	Light	12
	INJ	2	0	0	2							Left Turn	2	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>5</b>	<b>13</b>	<b>4.33</b>	<b>25943</b>	<b>0.42</b>	<b>0.42</b>	<b>0.53</b>	<b>0.46</b>				<b>13</b>

Appendix C

2008-2010  
Signalized

Intersection		Collision History					Rate Calculations					Characteristics			
	Type	2008	2009	2010	Total	Average (collisions/yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
44th St & Indianola Ave	PDO	3	0	2	5							Angle	0	Light	5
	INJ	1	1	0	2							Left Turn	0	Dark	2
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>7</b>	<b>2.33</b>	<b>34644</b>	<b>0.32</b>	<b>0.08</b>	<b>0.16</b>	<b>0.18</b>				<b>7</b>
44th St & Palm Ln	PDO	3	5	1	9							Angle	3	Light	7
	INJ	0	0	0	0							Left Turn	3	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>3</b>	<b>5</b>	<b>1</b>	<b>9</b>	<b>3.00</b>	<b>45944</b>	<b>0.18</b>	<b>0.30</b>	<b>0.06</b>	<b>0.18</b>				<b>9</b>
44th St & Bellevue St	PDO	3	2	2	7							Angle	0	Light	8
	INJ	0	0	2	2							Left Turn	2	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>2</b>	<b>4</b>	<b>9</b>	<b>3.00</b>	<b>30638</b>	<b>0.27</b>	<b>0.18</b>	<b>0.36</b>	<b>0.27</b>				<b>9</b>
7th St & Alice Ave	PDO	7	7	5	19							Angle	14	Light	24
	INJ	1	3	5	9							Left Turn	2	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	3
	<b>TOTAL</b>	<b>8</b>	<b>10</b>	<b>10</b>	<b>28</b>	<b>9.33</b>	<b>30833</b>	<b>0.71</b>	<b>0.89</b>	<b>0.89</b>	<b>0.83</b>				<b>28</b>
7th St & Palm Ln	PDO	6	2	6	14							Angle	10	Light	26
	INJ	5	4	4	13							Left Turn	5	Dark	0
	FTL	0	0	0	0							B/P	2	Twilight	1
	<b>TOTAL</b>	<b>11</b>	<b>6</b>	<b>10</b>	<b>27</b>	<b>9.00</b>	<b>33001</b>	<b>0.91</b>	<b>0.50</b>	<b>0.83</b>	<b>0.75</b>				<b>27</b>
Baseline Rd & 46th St	PDO	8	1	6	15							Angle	2	Light	23
	INJ	5	1	5	11							Left Turn	3	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>13</b>	<b>2</b>	<b>11</b>	<b>26</b>	<b>8.67</b>	<b>58922</b>	<b>0.60</b>	<b>0.09</b>	<b>0.51</b>	<b>0.40</b>				<b>26</b>
Bell Rd & 3rd St	PDO	8	9	8	25							Angle	14	Light	31
	INJ	2	5	8	15							Left Turn	6	Dark	7
	FTL	0	0	0	0							B/P	2	Twilight	2
<b>*Above 2 std. dev's</b>	<b>TOTAL</b>	<b>10</b>	<b>14</b>	<b>16</b>	<b>40</b>	<b>13.33</b>	<b>37110</b>	<b>0.74</b>	<b>1.03</b>	<b>1.18</b>	<b>0.98</b>				<b>40</b>
Bell Rd & 17th Ave	PDO	6	5	5	16							Angle	6	Light	14
	INJ	3	2	2	7							Left Turn	5	Dark	9
	FTL	0	0	1	1							B/P	2	Twilight	1
	<b>TOTAL</b>	<b>9</b>	<b>7</b>	<b>8</b>	<b>24</b>	<b>8.00</b>	<b>38343</b>	<b>0.64</b>	<b>0.50</b>	<b>0.57</b>	<b>0.57</b>				<b>24</b>
Bell Rd & 33rd Ave	PDO	4	2	4	10							Angle	2	Light	11
	INJ	2	0	2	4							Left Turn	5	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	2
	<b>TOTAL</b>	<b>6</b>	<b>2</b>	<b>6</b>	<b>14</b>	<b>4.67</b>	<b>41925</b>	<b>0.39</b>	<b>0.13</b>	<b>0.39</b>	<b>0.30</b>				<b>14</b>
<b>*Above 2 std. dev's</b>	PDO	4	7	5	16							Angle	11	Light	30
	INJ	6	5	12	23							Left Turn	11	Dark	8
	FTL	0	0	0	0							B/P	2	Twilight	1
	<b>TOTAL</b>	<b>10</b>	<b>12</b>	<b>17</b>	<b>39</b>	<b>13.00</b>	<b>35927</b>	<b>0.76</b>	<b>0.92</b>	<b>1.30</b>	<b>0.99</b>				<b>39</b>
Bethany Home Rd & 21st Ave	PDO	7	4	11	22							Angle	7	Light	20
	INJ	3	1	2	6							Left Turn	2	Dark	6
	FTL	0	0	0	0							B/P	1	Twilight	2
	<b>TOTAL</b>	<b>10</b>	<b>5</b>	<b>13</b>	<b>28</b>	<b>9.33</b>	<b>44207</b>	<b>0.62</b>	<b>0.31</b>	<b>0.81</b>	<b>0.58</b>				<b>28</b>

Appendix C

2008-2010  
Signalized

Intersection		Collision History					Rate Calculations					Characteristics			
	Type	2008	2009	2010	Total	Average (collisions/yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
Bethany Home Rd & 33rd Ave	PDO	4	5	3	12							Angle	5	Light	14
	INJ	3	3	0	6							Left Turn	0	Dark	3
	FTL	0	0	0	0							B/P	1	Twilight	1
	<b>TOTAL</b>	<b>7</b>	<b>8</b>	<b>3</b>	<b>18</b>	<b>6.00</b>	<b>37629</b>	<b>0.51</b>	<b>0.58</b>	<b>0.22</b>	<b>0.44</b>				<b>18</b>
Buckeye & 25th Ave	PDO	1	2	4	7							Angle	1	Light	9
	INJ	4	1	0	5							Left Turn	3	Dark	2
	FTL	0	0	0	0							B/P	1	Twilight	1
	<b>TOTAL</b>	<b>5</b>	<b>3</b>	<b>4</b>	<b>12</b>	<b>4.00</b>	<b>30889</b>	<b>0.44</b>	<b>0.27</b>	<b>0.35</b>	<b>0.35</b>				<b>12</b>
Camelback Rd & 26th St	PDO	2	3	0	5							Angle	2	Light	6
	INJ	2	2	1	5							Left Turn	1	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>4</b>	<b>5</b>	<b>1</b>	<b>10</b>	<b>3.33</b>	<b>41674</b>	<b>0.26</b>	<b>0.33</b>	<b>0.07</b>	<b>0.22</b>				<b>10</b>
Camelback Rd & 33rd Ave	PDO	4	7	4	15							Angle	6	Light	16
	INJ	1	1	2	4							Left Turn	1	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>8</b>	<b>6</b>	<b>19</b>	<b>6.33</b>	<b>36490</b>	<b>0.38</b>	<b>0.60</b>	<b>0.45</b>	<b>0.48</b>				<b>19</b>
Camelback Rd & 37th Ave	PDO	11	2	11	24							Angle	3	Light	23
	INJ	3	3	1	7							Left Turn	7	Dark	8
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>14</b>	<b>5</b>	<b>12</b>	<b>31</b>	<b>10.33</b>	<b>31977</b>	<b>1.20</b>	<b>0.43</b>	<b>1.03</b>	<b>0.89</b>				<b>31</b>
Camelback Rd & 22nd St	PDO	2	2	2	6							Angle	2	Light	10
	INJ	3	3	0	6							Left Turn	3	Dark	2
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>5</b>	<b>2</b>	<b>12</b>	<b>4.00</b>	<b>47403</b>	<b>0.29</b>	<b>0.29</b>	<b>0.12</b>	<b>0.23</b>				<b>12</b>
Cave Creek Rd & Sharon Dr	PDO	3	0	1	4							Angle	0	Light	6
	INJ	2	3	1	6							Left Turn	4	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>5</b>	<b>3</b>	<b>2</b>	<b>10</b>	<b>3.33</b>	<b>26004</b>	<b>0.53</b>	<b>0.32</b>	<b>0.21</b>	<b>0.35</b>				<b>10</b>
Central Ave & Alta Vista Rd	PDO	8	3	1	12							Angle	8	Light	21
	INJ	3	4	3	10							Left Turn	1	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>11</b>	<b>7</b>	<b>4</b>	<b>22</b>	<b>7.33</b>	<b>27370</b>	<b>1.10</b>	<b>0.70</b>	<b>0.40</b>	<b>0.73</b>				<b>22</b>
Glendale Ave & 17th Dr	PDO	3	2	4	9							Angle	7	Light	14
	INJ	5	3	2	10							Left Turn	0	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	2
	<b>TOTAL</b>	<b>8</b>	<b>5</b>	<b>6</b>	<b>19</b>	<b>6.33</b>	<b>37208</b>	<b>0.59</b>	<b>0.37</b>	<b>0.44</b>	<b>0.47</b>				<b>19</b>
Glendale Ave & 21st Ave	PDO	4	6	2	12							Angle	11	Light	28
	INJ	3	7	9	19							Left Turn	4	Dark	2
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>7</b>	<b>13</b>	<b>11</b>	<b>31</b>	<b>10.33</b>	<b>38596</b>	<b>0.50</b>	<b>0.92</b>	<b>0.78</b>	<b>0.73</b>				<b>31</b>
McDowell Rd & 10th St	PDO	0	1	4	5							Angle	3	Light	11
	INJ	2	2	4	8							Left Turn	4	Dark	1
	FTL	0	1	0	1							B/P	1	Twilight	2
	<b>TOTAL</b>	<b>2</b>	<b>4</b>	<b>8</b>	<b>14</b>	<b>4.67</b>	<b>30357</b>	<b>0.18</b>	<b>0.36</b>	<b>0.72</b>	<b>0.42</b>				<b>14</b>

Appendix C

2008-2010  
Signalized

Intersection		Collision History					Rate Calculations					Characteristics			
	Type	2008	2009	2010	Total	Average (collisions/yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
Thomas Rd & 46th St	PDO	5	4	5	14							Angle	14	Light	22
	INJ	3	7	2	12							Left Turn	7	Dark	3
	FTL	1	0	0	1							B/P	2	Twilight	2
	<b>TOTAL</b>	<b>9</b>	<b>11</b>	<b>7</b>	<b>27</b>	<b>9.00</b>	<b>30278</b>	<b>0.81</b>	<b>1.00</b>	<b>0.63</b>	<b>0.81</b>				<b>27</b>
Van Buren St & 9th St	PDO	2	3	0	5							Angle	3	Light	6
	INJ	1	0	1	2							Left Turn	1	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>7</b>	<b>2.33</b>	<b>16320</b>	<b>0.50</b>	<b>0.50</b>	<b>0.17</b>	<b>0.39</b>				<b>7</b>
27th Ave & Glenrosa Ave	PDO	2	9	3	14							Angle	7	Light	14
	INJ	2	4	3	9							Left Turn	2	Dark	9
	FTL	0	0	0	0							B/P	2	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>13</b>	<b>6</b>	<b>23</b>	<b>7.67</b>	<b>18897</b>	<b>0.58</b>	<b>1.88</b>	<b>0.87</b>	<b>1.11</b>				<b>23</b>
*Above 2 std. dev's	PDO	3	5	5	13							Angle	4	Light	12
	INJ	0	2	1	3							Left Turn	0	Dark	4
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>7</b>	<b>6</b>	<b>16</b>	<b>5.33</b>	<b>27579</b>	<b>0.30</b>	<b>0.70</b>	<b>0.60</b>	<b>0.53</b>				<b>16</b>
43rd Ave & Glenrosa Ave	PDO	6	0	0	6							Angle	1	Light	6
	INJ	2	0	0	2							Left Turn	1	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>2.67</b>	<b>23139</b>	<b>0.95</b>	<b>0.00</b>	<b>0.00</b>	<b>0.32</b>				<b>8</b>
83rd Ave & Glenrosa Ave	PDO	6	0	0	6							Angle	1	Light	6
	INJ	2	0	0	2							Left Turn	1	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>2.67</b>	<b>23139</b>	<b>0.95</b>	<b>0.00</b>	<b>0.00</b>	<b>0.32</b>				<b>8</b>
35th Ave & Fillmore St	PDO	5	4	4	13							Angle	6	Light	16
	INJ	1	1	3	5							Left Turn	5	Dark	2
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>5</b>	<b>7</b>	<b>18</b>	<b>6.00</b>	<b>40038</b>	<b>0.41</b>	<b>0.34</b>	<b>0.48</b>	<b>0.41</b>				<b>18</b>
University Dr & Elwood St	PDO	0	5	4	9							Angle	5	Light	9
	INJ	0	0	2	2							Left Turn	1	Dark	2
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>5</b>	<b>6</b>	<b>11</b>	<b>3.67</b>	<b>26073</b>	<b>0.00</b>	<b>0.53</b>	<b>0.63</b>	<b>0.39</b>				<b>11</b>
7th St & Hearn Rd	PDO	1	1	0	2							Angle	0	Light	3
	INJ	1	0	0	1							Left Turn	1	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>1.00</b>	<b>33317</b>	<b>0.16</b>	<b>0.08</b>	<b>0.00</b>	<b>0.08</b>				<b>3</b>
Ray Rd & 46th Pl	PDO	2	5	2	9							Angle	4	Light	11
	INJ	3	1	1	5							Left Turn	2	Dark	3
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>6</b>	<b>3</b>	<b>14</b>	<b>4.67</b>	<b>30822</b>	<b>0.44</b>	<b>0.53</b>	<b>0.27</b>	<b>0.41</b>				<b>14</b>

Appendix C

**Unsignalized**

Intersection		Collision History					Rate Calculations					Characteristics			
	Type	2008	2009	2010	Total	Average (collisions/ yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
16th St & Cambridge Ave	PDO	2	3	3	8							Angle	2	Light	11
	INJ	1	2	3	6							Left Turn	1	Dark	2
	FTL	0	0	0	0							B/P	6	Twilight	1
	<b>TOTAL</b>	<b>3</b>	<b>5</b>	<b>6</b>	<b>14</b>	<b>4.67</b>	<b>27011</b>	<b>0.30</b>	<b>0.51</b>	<b>0.61</b>	<b>0.47</b>				<b>14</b>
16th St & Mohave St	PDO	2	1	0	3							Angle	0	Light	5
	INJ	0	2	0	2							Left Turn	0	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>5</b>	<b>1.67</b>	<b>21935</b>	<b>0.25</b>	<b>0.37</b>	<b>0.00</b>	<b>0.21</b>				<b>5</b>
19th Ave & Cheryl Dr	PDO	4	0	0	4							Angle	3	Light	7
	INJ	1	1	1	3							Left Turn	2	Dark	0
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>7</b>	<b>2.33</b>	<b>33969</b>	<b>0.40</b>	<b>0.08</b>	<b>0.08</b>	<b>0.19</b>				<b>7</b>
19th Ave & Myrtle Ave	PDO	3	1	1	5							Angle	4	Light	6
	INJ	1	0	1	2							Left Turn	0	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>7</b>	<b>2.33</b>	<b>27691</b>	<b>0.40</b>	<b>0.10</b>	<b>0.20</b>	<b>0.23</b>				<b>7</b>
19th Ave & Sunnyside Dr	PDO	0	2	1	3							Angle	1	Light	5
	INJ	2	1	1	4							Left Turn	1	Dark	2
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>7</b>	<b>2.33</b>	<b>30684</b>	<b>0.18</b>	<b>0.27</b>	<b>0.18</b>	<b>0.21</b>				<b>7</b>
24th St & Pinchot Ave	PDO	2	1	3	6							Angle	5	Light	7
	INJ	0	1	1	2							Left Turn	2	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>8</b>	<b>2.67</b>	<b>25338</b>	<b>0.22</b>	<b>0.22</b>	<b>0.43</b>	<b>0.29</b>				<b>8</b>
24th St & Willetta St	PDO	4	3	2	9							Angle	3	Light	5
	INJ	1	1	0	2							Left Turn	0	Dark	4
	FTL	0	0	0	0							B/P	1	Twilight	2
	<b>TOTAL</b>	<b>5</b>	<b>4</b>	<b>2</b>	<b>11</b>	<b>3.67</b>	<b>42884</b>	<b>0.32</b>	<b>0.26</b>	<b>0.13</b>	<b>0.23</b>				<b>11</b>
35th Ave & Myrtle Ave	PDO	2	1	1	4							Angle	4	Light	12
	INJ	2	2	3	7							Left Turn	0	Dark	0
	FTL	0	0	1	1							B/P	2	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>3</b>	<b>5</b>	<b>12</b>	<b>4.00</b>	<b>30188</b>	<b>0.36</b>	<b>0.27</b>	<b>0.45</b>	<b>0.36</b>				<b>12</b>
35th Ave & Polk St	PDO	4	2	1	7							Angle	5	Light	9
	INJ	3	0	0	3							Left Turn	2	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>7</b>	<b>2</b>	<b>1</b>	<b>10</b>	<b>3.33</b>	<b>36564</b>	<b>0.52</b>	<b>0.15</b>	<b>0.07</b>	<b>0.25</b>				<b>10</b>
40th St & Wier Ave	PDO	1	1	3	5							Angle	1	Light	5
	INJ	0	0	0	0							Left Turn	2	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>1.67</b>	<b>26538</b>	<b>0.10</b>	<b>0.10</b>	<b>0.31</b>	<b>0.17</b>				<b>5</b>
43rd Ave & Desert Cove Ave	PDO	1	1	4	6							Angle	3	Light	8
	INJ	1	1	3	5							Left Turn	1	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>7</b>	<b>11</b>	<b>3.67</b>	<b>30247</b>	<b>0.18</b>	<b>0.18</b>	<b>0.63</b>	<b>0.33</b>				<b>11</b>

Appendix C

**Unsignalized**

Intersection		Collision History					Rate Calculations					Characteristics			
	Type	2008	2009	2010	Total	Average (collisions/ yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
43rd Ave & Earll Dr	PDO	4	3	0	7							Angle	3	Light	9
	INJ	2	1	2	5							Left Turn	2	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>4</b>	<b>2</b>	<b>12</b>	<b>4.00</b>	<b>39581</b>	<b>0.42</b>	<b>0.28</b>	<b>0.14</b>	<b>0.28</b>				<b>12</b>
43rd Ave & Virginia Ave	PDO	2	4	1	7							Angle	3	Light	4
	INJ	1	1	0	2							Left Turn	0	Dark	4
	FTL	0	1	0	1							B/P	1	Twilight	2
	<b>TOTAL</b>	<b>3</b>	<b>6</b>	<b>1</b>	<b>10</b>	<b>3.33</b>	<b>35397</b>	<b>0.23</b>	<b>0.46</b>	<b>0.08</b>	<b>0.26</b>				<b>10</b>
59th Ave & Coronado Rd	PDO	1	0	1	2							Angle	0	Light	2
	INJ	0	1	0	1							Left Turn	0	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>1.00</b>	<b>39617</b>	<b>0.07</b>	<b>0.07</b>	<b>0.07</b>	<b>0.07</b>				<b>3</b>
59th Ave & Palm Ln	PDO	3	3	4	10							Angle	9	Light	6
	INJ	1	1	3	5							Left Turn	0	Dark	9
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>7</b>	<b>15</b>	<b>5.00</b>	<b>40073</b>	<b>0.27</b>	<b>0.27</b>	<b>0.48</b>	<b>0.34</b>				<b>15</b>
64th St & Aster Dr	PDO	0	0	0	0							Angle	0	Light	0
	INJ	0	0	0	0							Left Turn	0	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>9896</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>				<b>0</b>
7th Ave & Colter St	PDO	1	1	2	4							Angle	1	Light	4
	INJ	1	0	1	2							Left Turn	0	Dark	2
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>6</b>	<b>2.00</b>	<b>22110</b>	<b>0.25</b>	<b>0.12</b>	<b>0.37</b>	<b>0.25</b>				<b>6</b>
7th Ave & Montecito Ave	PDO	4	0	0	4							Angle	1	Light	3
	INJ	1	0	0	1							Left Turn	0	Dark	2
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>1.67</b>	<b>27123</b>	<b>0.51</b>	<b>0.00</b>	<b>0.00</b>	<b>0.17</b>				<b>5</b>
7th Ave & Sunland Ave	PDO	1	1	2	4							Angle	5	Light	7
	INJ	2	4	2	8							Left Turn	2	Dark	3
	FTL	0	0	0	0							B/P	1	Twilight	2
	<b>TOTAL</b>	<b>3</b>	<b>5</b>	<b>4</b>	<b>12</b>	<b>4.00</b>	<b>23846</b>	<b>0.34</b>	<b>0.57</b>	<b>0.46</b>	<b>0.46</b>				<b>12</b>
7th St & Colter St	PDO	3	3	4	10							Angle	7	Light	12
	INJ	4	2	3	9							Left Turn	1	Dark	6
	FTL	0	0	0	0							B/P	2	Twilight	1
	<b>TOTAL</b>	<b>7</b>	<b>5</b>	<b>7</b>	<b>19</b>	<b>6.33</b>	<b>31717</b>	<b>0.60</b>	<b>0.43</b>	<b>0.60</b>	<b>0.55</b>				<b>19</b>
7th St & Montebello Ave	PDO	1	2	2	5							Angle	4	Light	8
	INJ	2	0	2	4							Left Turn	2	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>2</b>	<b>4</b>	<b>9</b>	<b>3.00</b>	<b>27176</b>	<b>0.30</b>	<b>0.20</b>	<b>0.40</b>	<b>0.30</b>				<b>9</b>
7th St & Pima St	PDO	1	0	0	1							Angle	4	Light	4
	INJ	1	1	1	3							Left Turn	0	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>1.33</b>	<b>27911</b>	<b>0.20</b>	<b>0.10</b>	<b>0.10</b>	<b>0.13</b>				<b>4</b>

Appendix C

**Unsignalized**

Intersection		Collision History					Rate Calculations					Characteristics			
	Type	2008	2009	2010	Total	Average (collisions/ yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
7th St & Townley Ave	PDO	4	5	5	14							Angle	9	Light	20
	INJ	4	3	3	10							Left Turn	2	Dark	4
	FTL	0	0	0	0							B/P	2	Twilight	0
	<b>TOTAL</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>24</b>	<b>8.00</b>	<b>34545</b>	<b>0.63</b>	<b>0.63</b>	<b>0.63</b>	<b>0.63</b>				<b>24</b>
7th St & Weir Ave	PDO	2	1	1	4							Angle	1	Light	4
	INJ	2	0	1	3							Left Turn	1	Dark	2
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>7</b>	<b>2.33</b>	<b>27416</b>	<b>0.40</b>	<b>0.10</b>	<b>0.20</b>	<b>0.23</b>				<b>7</b>
7th St & Windsor Ave	PDO	4	4	3	11							Angle	1	Light	14
	INJ	0	4	4	8							Left Turn	1	Dark	2
	FTL	0	0	0	0							B/P	0	Twilight	3
	<b>TOTAL</b>	<b>4</b>	<b>8</b>	<b>7</b>	<b>19</b>	<b>6.33</b>	<b>39048</b>	<b>0.28</b>	<b>0.56</b>	<b>0.49</b>	<b>0.44</b>				<b>19</b>
Bell Rd & 11th Ave	PDO	5	1	4	10							Angle	11	Light	15
	INJ	4	5	2	11							Left Turn	2	Dark	4
	FTL	1	0	0	1							B/P	0	Twilight	3
	<b>TOTAL</b>	<b>10</b>	<b>6</b>	<b>6</b>	<b>22</b>	<b>7.33</b>	<b>44077</b>	<b>0.62</b>	<b>0.37</b>	<b>0.37</b>	<b>0.46</b>				<b>22</b>
Bethany Home Rd & 41st Ave	PDO	1	1	1	3							Angle	5	Light	7
	INJ	3	0	3	6							Left Turn	1	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>4</b>	<b>1</b>	<b>4</b>	<b>9</b>	<b>3.00</b>	<b>33339</b>	<b>0.33</b>	<b>0.08</b>	<b>0.33</b>	<b>0.25</b>				<b>9</b>
Camelback Rd & 10th St	PDO	7	5	5	17							Angle	5	Light	17
	INJ	2	4	0	6							Left Turn	0	Dark	5
	FTL	0	0	0	0							B/P	1	Twilight	1
	<b>TOTAL</b>	<b>9</b>	<b>9</b>	<b>5</b>	<b>23</b>	<b>7.67</b>	<b>37782</b>	<b>0.65</b>	<b>0.65</b>	<b>0.36</b>	<b>0.56</b>				<b>23</b>
Dunlap Ave & 22nd Ave	PDO	3	2	5	10							Angle	3	Light	14
	INJ	4	1	2	7							Left Turn	1	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>7</b>	<b>3</b>	<b>7</b>	<b>17</b>	<b>5.67</b>	<b>37292</b>	<b>0.51</b>	<b>0.22</b>	<b>0.51</b>	<b>0.42</b>				<b>17</b>
Indian School Rd & 20th Ave	PDO	12	4	3	19							Angle	8	Light	21
	INJ	5	4	3	12							Left Turn	2	Dark	8
	FTL	0	0	0	0							B/P	0	Twilight	2
	<b>TOTAL</b>	<b>17</b>	<b>8</b>	<b>6</b>	<b>31</b>	<b>10.33</b>	<b>52660</b>	<b>0.88</b>	<b>0.42</b>	<b>0.31</b>	<b>0.54</b>				<b>31</b>
Indian School Rd & 49th Ave	PDO	3	1	2	6							Angle	3	Light	5
	INJ	2	2	1	5							Left Turn	0	Dark	6
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>3</b>	<b>3</b>	<b>11</b>	<b>3.67</b>	<b>43852</b>	<b>0.31</b>	<b>0.19</b>	<b>0.19</b>	<b>0.23</b>				<b>11</b>
Indian School Rd & 9th St	PDO	10	9	8	27							Angle	14	Light	44
	INJ	11	3	8	22							Left Turn	8	Dark	5
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>21</b>	<b>12</b>	<b>16</b>	<b>49</b>	<b>16.33</b>	<b>38481</b>	<b>1.50</b>	<b>0.85</b>	<b>1.14</b>	<b>1.16</b>				<b>49</b>
McDowell Rd & 18th St	PDO	5	6	5	16							Angle	7	Light	16
	INJ	4	2	4	10							Left Turn	7	Dark	10
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>9</b>	<b>8</b>	<b>9</b>	<b>26</b>	<b>8.67</b>	<b>37226</b>	<b>0.66</b>	<b>0.59</b>	<b>0.66</b>	<b>0.64</b>				<b>26</b>

Appendix C

**Unsignalized**

Intersection		Collision History					Rate Calculations					Characteristics			
	Type	2008	2009	2010	Total	Average (collisions/ yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
McDowell Rd & 41st Ave	PDO	1	2	4	7							Angle	3	Light	9
	INJ	4	4	1	9							Left Turn	2	Dark	6
	FTL	1	0	0	1							B/P	2	Twilight	2
	<b>TOTAL</b>	<b>6</b>	<b>6</b>	<b>5</b>	<b>17</b>	<b>5.67</b>	<b>26182</b>	<b>0.63</b>	<b>0.63</b>	<b>0.52</b>	<b>0.59</b>				<b>17</b>
Peoria Ave & 33rd Ave	PDO	5	4	2	11							Angle	2	Light	14
	INJ	3	0	2	5							Left Turn	3	Dark	2
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>8</b>	<b>4</b>	<b>4</b>	<b>16</b>	<b>5.33</b>	<b>46831</b>	<b>0.47</b>	<b>0.23</b>	<b>0.23</b>	<b>0.31</b>				<b>16</b>
Southern Ave & 18th St	PDO	2	2	0	4							Angle	3	Light	3
	INJ	0	0	0	0							Left Turn	0	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>4</b>	<b>1.33</b>	<b>26860</b>	<b>0.20</b>	<b>0.20</b>	<b>0.00</b>	<b>0.14</b>				<b>4</b>
Tatum Blvd & Robert E Lee St	PDO	0	0	2	2							Angle	1	Light	2
	INJ	0	0	1	1							Left Turn	1	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>1.00</b>	<b>35657</b>	<b>0.00</b>	<b>0.00</b>	<b>0.23</b>	<b>0.08</b>				<b>3</b>
Thomas Rd & 30th St	PDO	3	5	9	17							Angle	6	Light	22
	INJ	3	3	6	12							Left Turn	1	Dark	5
	FTL	0	0	0	0							B/P	5	Twilight	2
	<b>TOTAL</b>	<b>6</b>	<b>8</b>	<b>15</b>	<b>29</b>	<b>9.67</b>	<b>35000</b>	<b>0.47</b>	<b>0.63</b>	<b>1.17</b>	<b>0.76</b>				<b>29</b>
Thomas Rd & 42nd St	PDO	1	2	3	6							Angle	3	Light	10
	INJ	3	0	2	5							Left Turn	0	Dark	1
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>2</b>	<b>5</b>	<b>11</b>	<b>3.67</b>	<b>46046</b>	<b>0.24</b>	<b>0.12</b>	<b>0.30</b>	<b>0.22</b>				<b>11</b>
Thomas Rd & 69th Ave	PDO	1	2	0	3							Angle	1	Light	3
	INJ	2	1	0	3							Left Turn	2	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>6</b>	<b>2.00</b>	<b>33932</b>	<b>0.24</b>	<b>0.24</b>	<b>0.00</b>	<b>0.16</b>				<b>6</b>
Thunderbird Rd & 33rd Ave	PDO	2	0	0	2							Angle	3	Light	10
	INJ	3	3	1	7							Left Turn	0	Dark	0
	FTL	1	0	0	1							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>6</b>	<b>3</b>	<b>1</b>	<b>10</b>	<b>3.33</b>	<b>46785</b>	<b>0.35</b>	<b>0.18</b>	<b>0.06</b>	<b>0.20</b>				<b>10</b>
Union Hills Dr & 45th Ave	PDO	0	0	3	3							Angle	2	Light	6
	INJ	1	1	0	2							Left Turn	0	Dark	1
	FTL	1	1	0	2							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>7</b>	<b>2.33</b>	<b>34623</b>	<b>0.16</b>	<b>0.16</b>	<b>0.24</b>	<b>0.18</b>				<b>7</b>

**Collector - Collector Intersections**

2006-2007

**Signalized**

Intersection	Type	Collision History				Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions/ yr)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Butler Dr & 12th St	PDO	2	0	2						Angle	0	Light	1
	INJ	0	0	0						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>1.00</b>	<b>15980</b>	<b>0.34</b>	<b>0.00</b>	<b>0.17</b>				<b>2</b>
Butler Dr & 23rd Ave	PDO	1	1	2						Angle	1	Light	4
	INJ	1	1	2						Left Turn	1	Dark	0
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>2.00</b>	<b>13872</b>	<b>0.40</b>	<b>0.40</b>	<b>0.40</b>				<b>4</b>
Campbell Ave & 12th St	PDO	0	1	1						Angle	0	Light	3
	INJ	2	0	2						Left Turn	1	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>1.50</b>	<b>12192</b>	<b>0.45</b>	<b>0.22</b>	<b>0.34</b>				<b>3</b>
Campbell Ave & 20th St	PDO	3	1	4						Angle	2	Light	5
	INJ	2	0	2						Left Turn	0	Dark	0
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>5</b>	<b>1</b>	<b>6</b>	<b>3.00</b>	<b>15537</b>	<b>0.88</b>	<b>0.18</b>	<b>0.53</b>				<b>6</b>
Campbell Ave & 15th Ave	PDO	4	5	9						Angle	9	Light	11
	INJ	2	3	5						Left Turn	1	Dark	2
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>6</b>	<b>8</b>	<b>14</b>	<b>7.00</b>	<b>17543</b>	<b>0.94</b>	<b>1.25</b>	<b>1.09</b>				<b>14</b>
40th St & Campbell Ave	PDO	3	4	7						Angle	1	Light	5
	INJ	0	0	0						Left Turn	0	Dark	2
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>4</b>	<b>7</b>	<b>3.50</b>	<b>16017</b>	<b>0.51</b>	<b>0.68</b>	<b>0.60</b>				<b>7</b>
40th St & Oak St	PDO	5	9	14						Angle	11	Light	16
	INJ	5	2	7						Left Turn	1	Dark	4
	FTL	1	0	1						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>11</b>	<b>11</b>	<b>22</b>	<b>11.00</b>	<b>24359</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>				<b>22</b>
Campbell Ave & 23rd Ave	PDO	1	3	4						Angle	2	Light	4
	INJ	1	1	2						Left Turn	2	Dark	2
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>4</b>	<b>6</b>	<b>3.00</b>	<b>8583</b>	<b>0.64</b>	<b>1.28</b>	<b>0.96</b>				<b>6</b>
Maryland Ave & 12th St	PDO	3	4	7						Angle	4	Light	8
	INJ	3	1	4						Left Turn	3	Dark	2
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>6</b>	<b>5</b>	<b>11</b>	<b>5.50</b>	<b>19533</b>	<b>0.84</b>	<b>0.70</b>	<b>0.77</b>				<b>11</b>

## Collector - Collector Intersections

2006-2007

**Signalized**

Intersection	Type	Collision History				Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions/ yr)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Maryland Ave & 15th Ave	PDO	4	2	6						Angle	4	Light	12
	INJ	5	3	8						Left Turn	4	Dark	0
	FTL	0	0	0						B/P	1	Twilight	2
	<b>TOTAL</b>	<b>9</b>	<b>5</b>	<b>14</b>	<b>7.00</b>	<b>16313</b>	<b>1.51</b>	<b>0.84</b>	<b>1.18</b>				<b>14</b>
Missouri Ave & 20th St	PDO	2	6	8						Angle	2	Light	7
	INJ	0	1	1						Left Turn	4	Dark	2
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>7</b>	<b>9</b>	<b>4.50</b>	<b>22842</b>	<b>0.24</b>	<b>0.84</b>	<b>0.54</b>				<b>9</b>
Missouri Ave & 12th St	PDO	8	11	19						Angle	5	Light	25
	INJ	4	4	8						Left Turn	9	Dark	2
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>12</b>	<b>15</b>	<b>27</b>	<b>13.50</b>	<b>23844</b>	<b>1.38</b>	<b>1.72</b>	<b>1.55</b>				<b>27</b>
Missouri Ave & 15th Ave	PDO	5	8	13						Angle	14	Light	17
	INJ	3	6	9						Left Turn	3	Dark	5
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>8</b>	<b>14</b>	<b>22</b>	<b>11.00</b>	<b>30194</b>	<b>0.73</b>	<b>1.27</b>	<b>1.00</b>				<b>22</b>
Oak St & 36th St	PDO	5	5	10						Angle	12	Light	12
	INJ	3	4	7						Left Turn	2	Dark	5
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>8</b>	<b>9</b>	<b>17</b>	<b>8.50</b>	<b>18104</b>	<b>1.21</b>	<b>1.36</b>	<b>1.29</b>				<b>17</b>
Osborn Rd & 20th St	PDO	4	9	13						Angle	6	Light	12
	INJ	1	3	4						Left Turn	3	Dark	3
	FTL	0	0	0						B/P	0	Twilight	2
	<b>TOTAL</b>	<b>5</b>	<b>12</b>	<b>17</b>	<b>8.50</b>	<b>23811</b>	<b>0.58</b>	<b>1.38</b>	<b>0.98</b>				<b>17</b>
Osborn Rd & 15th Ave	PDO	1	2	3						Angle	10	Light	12
	INJ	6	4	10						Left Turn	2	Dark	1
	FTL	0	1	1						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>7</b>	<b>7</b>	<b>14</b>	<b>7.00</b>	<b>26884</b>	<b>0.71</b>	<b>0.71</b>	<b>0.71</b>				<b>14</b>
Osborn Rd & 28th St	PDO	7	2	9						Angle	4	Light	11
	INJ	1	3	4						Left Turn	2	Dark	1
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>8</b>	<b>5</b>	<b>13</b>	<b>6.50</b>	<b>13889</b>	<b>1.58</b>	<b>0.99</b>	<b>1.28</b>				<b>13</b>
Rose Garden Ln & 23rd Ave	PDO	4	2	6						Angle	2	Light	7
	INJ	1	3	4						Left Turn	4	Dark	3
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5.00</b>	<b>16486</b>	<b>0.83</b>	<b>0.83</b>	<b>0.83</b>				<b>10</b>

Appendix D

### **Collector - Collector Intersections**

**2006-2007**

**Signalized**

Intersection	Type	Collision History				Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions/ yr)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Hatcher Rd & 12th St	PDO	0	2	2						Angle	2	Light	4
	INJ	1	2	3						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>2.50</b>	<b>18236</b>	<b>0.15</b>	<b>0.60</b>	<b>0.38</b>				<b>5</b>
Missouri Ave & 23rd Ave	PDO	0	1	1						Angle	0	Light	2
	INJ	2	0	2						Left Turn	1	Dark	1
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>1.50</b>	<b>10300</b>	<b>0.53</b>	<b>0.27</b>	<b>0.40</b>				<b>3</b>

Appendix D

**Unsignalized**

Intersection	Type	Collision History				Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions/ yr)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Acoma Dr & 36th St	PDO	0	2	2						Angle	3	Light	2
	INJ	2	0	2						Left Turn	0	Dark	2
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>2.00</b>	<b>6063</b>	<b>0.90</b>	<b>0.90</b>	<b>0.90</b>				<b>4</b>
Acoma Dr & 47th Ave	PDO	0	0	0						Angle	0	Light	0
	INJ	0	0	0						Left Turn	0	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>3241</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>				<b>0</b>
Campbell Ave & 31st Ave	PDO	1	0	1						Angle	1	Light	3
	INJ	2	1	3						Left Turn	0	Dark	0
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>2.00</b>	<b>6538</b>	<b>1.26</b>	<b>0.42</b>	<b>0.84</b>				<b>4</b>
Campbell Ave & 55th Ave	PDO	2	2	4						Angle	3	Light	4
	INJ	0	1	1						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>2.50</b>	<b>8981</b>	<b>0.61</b>	<b>0.92</b>	<b>0.76</b>				<b>5</b>
Campbell Ave & 63rd Ave	PDO	2	2	4						Angle	4	Light	4
	INJ	1	0	1						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>2</b>	<b>5</b>	<b>2.50</b>	<b>5722</b>	<b>1.44</b>	<b>0.96</b>	<b>1.20</b>				<b>5</b>
Cholla St & 23rd Ave	PDO	3	1	4						Angle	2	Light	4
	INJ	1	0	1						Left Turn	0	Dark	0
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>4</b>	<b>1</b>	<b>5</b>	<b>2.50</b>	<b>6978</b>	<b>1.57</b>	<b>0.39</b>	<b>0.98</b>				<b>5</b>
Cholla St & 36th St	PDO	0	0	0						Angle	0	Light	1
	INJ	0	1	1						Left Turn	1	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0.50</b>	<b>4873</b>	<b>0.00</b>	<b>0.56</b>	<b>0.28</b>				<b>1</b>
Cholla St & 39th Ave	PDO	0	0	0						Angle	3	Light	2
	INJ	2	1	3						Left Turn	0	Dark	0
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>1.50</b>	<b>5657</b>	<b>0.97</b>	<b>0.48</b>	<b>0.73</b>				<b>3</b>
Encanto Blvd & 39th Ave	PDO	2	0	2						Angle	2	Light	3
	INJ	1	1	2						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>2.00</b>	<b>10472</b>	<b>0.78</b>	<b>0.26</b>	<b>0.52</b>				<b>4</b>
Encanto Blvd & 47th Ave	PDO	1	1	2						Angle	0	Light	3
	INJ	1	0	1						Left Turn	0	Dark	0
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>1.50</b>	<b>7744</b>	<b>0.71</b>	<b>0.35</b>	<b>0.53</b>				<b>3</b>

Appendix D

**Unsignalized**

Intersection	Type	Collision History				Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions/ yr)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Encanto Blvd & 55th Ave	PDO	1	0	1						Angle	3	Light	3
	INJ	2	0	2						Left Turn	0	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>1.50</b>	<b>9443</b>	<b>0.87</b>	<b>0.00</b>	<b>0.44</b>				<b>3</b>
Encanto Blvd & 71st Ave	PDO	1	2	3						Angle	3	Light	2
	INJ	0	0	0						Left Turn	0	Dark	0
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>1.50</b>	<b>8816</b>	<b>0.31</b>	<b>0.62</b>	<b>0.47</b>				<b>3</b>
Encanto Blvd & 79th Ave	PDO	0	0	0						Angle	0	Light	1
	INJ	0	1	1						Left Turn	1	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0.50</b>	<b>7489</b>	<b>0.00</b>	<b>0.37</b>	<b>0.18</b>				<b>1</b>
Grovers Ave & 15th Ave	PDO	1	0	1						Angle	0	Light	0
	INJ	0	0	0						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0.50</b>	<b>12055</b>	<b>0.23</b>	<b>0.00</b>	<b>0.11</b>				<b>1</b>
Grovers Ave & 20th St	PDO	0	0	0						Angle	2	Light	1
	INJ	1	1	2						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1.00</b>	<b>6952</b>	<b>0.39</b>	<b>0.39</b>	<b>0.39</b>				<b>2</b>
Grovers Ave & 39th Ave	PDO	0	0	0						Angle	0	Light	0
	INJ	0	0	0						Left Turn	0	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>5216</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>				<b>0</b>
Maryland Ave & 31st Ave	PDO	0	1	1						Angle	1	Light	1
	INJ	1	0	1						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1.00</b>	<b>5655</b>	<b>0.48</b>	<b>0.48</b>	<b>0.48</b>				<b>2</b>
Maryland Ave & 39th Ave	PDO	2	0	2						Angle	1	Light	3
	INJ	1	1	2						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	1	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>2.00</b>	<b>6644</b>	<b>1.24</b>	<b>0.41</b>	<b>0.82</b>				<b>4</b>
Oak St & 12th St	PDO	0	0	0						Angle	0	Light	0
	INJ	0	0	0						Left Turn	0	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>5602</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>				<b>0</b>
Orangewood Ave & 31st Ave	PDO	1	2	3						Angle	0	Light	2
	INJ	0	0	0						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>1.50</b>	<b>5945</b>	<b>0.46</b>	<b>0.92</b>	<b>0.69</b>				<b>3</b>

Appendix D

**Unsignalized**

Intersection	Type	Collision History				Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions/ yr)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Orangewood Ave & 39th Ave	PDO	0	1	1						Angle	2	Light	0
	INJ	1	0	1						Left Turn	0	Dark	2
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1.00</b>	<b>7268</b>	<b>0.38</b>	<b>0.38</b>	<b>0.38</b>				<b>2</b>
Osborn Rd & 55th Ave	PDO	4	2	6						Angle	4	Light	6
	INJ	1	3	4						Left Turn	0	Dark	4
	FTL	0	0	0						B/P	2	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5.00</b>	<b>11363</b>	<b>1.21</b>	<b>1.21</b>	<b>1.21</b>				<b>10</b>
Osborn Rd & 48th St	PDO	0	0	0						Angle	2	Light	1
	INJ	1	1	2						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1.00</b>	<b>9526</b>	<b>0.29</b>	<b>0.29</b>	<b>0.29</b>				<b>2</b>
Osborn Rd & 71st Ave	PDO	1	3	4						Angle	3	Light	4
	INJ	1	1	2						Left Turn	0	Dark	2
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>4</b>	<b>6</b>	<b>3.00</b>	<b>8649</b>	<b>0.63</b>	<b>1.27</b>	<b>0.95</b>				<b>6</b>
Paradise Ln & 39th Ave	PDO	0	0	0						Angle	0	Light	0
	INJ	0	1	1						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0.50</b>	<b>3980</b>	<b>0.00</b>	<b>0.69</b>	<b>0.34</b>				<b>1</b>
Paradise Ln & 52nd St	PDO	1	0	1						Angle	0	Light	0
	INJ	0	0	0						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0.50</b>	<b>4762</b>	<b>0.58</b>	<b>0.00</b>	<b>0.29</b>				<b>1</b>
Roeser Rd & 15th Ave	PDO	1	2	3						Angle	1	Light	3
	INJ	0	1	1						Left Turn	0	Dark	1
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>2.00</b>	<b>6032</b>	<b>0.45</b>	<b>1.36</b>	<b>0.91</b>				<b>4</b>
Roosevelt St & 39th Ave	PDO	1	3	4						Angle	2	Light	1
	INJ	1	1	2						Left Turn	1	Dark	4
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>2</b>	<b>4</b>	<b>6</b>	<b>3.00</b>	<b>12029</b>	<b>0.46</b>	<b>0.91</b>	<b>0.68</b>				<b>6</b>
Roosevelt St & 28th St	PDO	3	2	5						Angle	6	Light	10
	INJ	3	6	9						Left Turn	4	Dark	3
	FTL	0	0	0						B/P	1	Twilight	1
	<b>TOTAL</b>	<b>6</b>	<b>8</b>	<b>14</b>	<b>7.00</b>	<b>12983</b>	<b>1.27</b>	<b>1.69</b>	<b>1.48</b>				<b>14</b>
Sweetwater Ave & 31st Ave	PDO	3	1	4						Angle	2	Light	1
	INJ	0	0	0						Left Turn	0	Dark	2
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>2.00</b>	<b>8459</b>	<b>0.97</b>	<b>0.32</b>	<b>0.65</b>				<b>4</b>

Appendix D

**Unsignalized**

Intersection	Type	Collision History				Rate Calculations				Characteristics			
		2006	2007	Total	Average (collisions/ yr)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Sweetwater Ave & 36th St	PDO	0	1	1						Angle	1	Light	0
	INJ	0	0	0						Left Turn	0	Dark	0
	FTL	0	0	0						B/P	0	Twilight	1
	<b>TOTAL</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0.50</b>	<b>8117</b>	<b>0.00</b>	<b>0.34</b>	<b>0.17</b>				<b>1</b>
Sweetwater Ave & 28th St	PDO	2	0	2						Angle	1	Light	2
	INJ	0	0	0						Left Turn	0	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>1.00</b>	<b>9935</b>	<b>0.55</b>	<b>0.00</b>	<b>0.28</b>				<b>2</b>
Utopia Rd & 12th St	PDO	0	0	0						Angle	0	Light	0
	INJ	0	0	0						Left Turn	0	Dark	0
	FTL	0	0	0						B/P	0	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>3704</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>				<b>0</b>

Appendix D

2008-2010  
Signalized

Intersection		Collision History					Rate Calculations					Characteristics			
	Type	2008	2009	2010	Total	Average (collisions/yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
Butler Dr & 12th St	PDO	0	1	0	1							Angle	0	Light	2
	INJ	2	0	0	2							Left Turn	1	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>1.00</b>	<b>14665</b>	<b>0.37</b>	<b>0.19</b>	<b>0.00</b>	<b>0.19</b>				<b>3</b>
Butler Dr & 23rd Ave	PDO	1	2	2	5							Angle	5	Light	6
	INJ	1	1	2	4							Left Turn	0	Dark	2
	FTL	0	0	0	0							B/P	2	Twilight	1
	<b>TOTAL</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>9</b>	<b>3.00</b>	<b>10601</b>	<b>0.52</b>	<b>0.78</b>	<b>1.03</b>	<b>0.78</b>				<b>9</b>
Campbell Ave & 12th St	PDO	2	0	1	3							Angle	2	Light	3
	INJ	0	0	1	1							Left Turn	1	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>4</b>	<b>1.33</b>	<b>12122</b>	<b>0.45</b>	<b>0.00</b>	<b>0.45</b>	<b>0.30</b>				<b>4</b>
Campbell Ave & 20th St	PDO	1	1	0	2							Angle	0	Light	3
	INJ	0	0	2	2							Left Turn	1	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>1.33</b>	<b>10820</b>	<b>0.25</b>	<b>0.25</b>	<b>0.51</b>	<b>0.34</b>				<b>4</b>
Campbell Ave & 15th Ave	PDO	4	3	1	8							Angle	1	Light	9
	INJ	1	0	0	1							Left Turn	2	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>3</b>	<b>1</b>	<b>9</b>	<b>3.00</b>	<b>13221</b>	<b>1.04</b>	<b>0.62</b>	<b>0.21</b>	<b>0.62</b>				<b>9</b>
40th St & Campbell Ave	PDO	1	2	5	8							Angle	4	Light	6
	INJ	0	0	2	2							Left Turn	2	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>1</b>	<b>2</b>	<b>7</b>	<b>10</b>	<b>3.33</b>	<b>15246</b>	<b>0.18</b>	<b>0.36</b>	<b>1.26</b>	<b>0.60</b>				<b>10</b>
40th St & Oak St	PDO	4	1	3	8							Angle	6	Light	11
	INJ	1	2	2	5							Left Turn	3	Dark	2
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>3</b>	<b>5</b>	<b>13</b>	<b>4.33</b>	<b>19006</b>	<b>0.72</b>	<b>0.43</b>	<b>0.72</b>	<b>0.62</b>				<b>13</b>
Campbell Ave & 23rd Ave	PDO	3	0	2	5							Angle	2	Light	5
	INJ	0	1	0	1							Left Turn	1	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>6</b>	<b>2.00</b>	<b>8819</b>	<b>0.93</b>	<b>0.31</b>	<b>0.62</b>	<b>0.62</b>				<b>6</b>
Maryland Ave & 12th St	PDO	2	0	3	5							Angle	2	Light	7
	INJ	0	3	0	3							Left Turn	1	Dark	1
	FTL	0	0	0	0							B/P	2	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>8</b>	<b>2.67</b>	<b>16820</b>	<b>0.33</b>	<b>0.49</b>	<b>0.49</b>	<b>0.43</b>				<b>8</b>
Maryland Ave & 15th Ave	PDO	1	1	3	5							Angle	7	Light	15
	INJ	5	2	8	15							Left Turn	8	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	2
	<b>TOTAL</b>	<b>6</b>	<b>3</b>	<b>11</b>	<b>20</b>	<b>6.67</b>	<b>11370</b>	<b>1.45</b>	<b>0.72</b>	<b>2.65</b>	<b>1.61</b>				<b>20</b>
*Above 2 std. dev's	PDO	0	2	2	4							Angle	6	Light	7
	INJ	3	1	0	4							Left Turn	1	Dark	1
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>8</b>	<b>2.67</b>	<b>23511</b>	<b>0.35</b>	<b>0.35</b>	<b>0.23</b>	<b>0.31</b>				<b>8</b>

Appendix D

2008-2010  
Signalized

Intersection		Collision History					Rate Calculations					Characteristics			
	Type	2008	2009	2010	Total	Average (collisions/yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
Missouri Ave & 12th St	PDO	4	1	5	10							Angle	4	Light	13
	INJ	0	3	3	6							Left Turn	2	Dark	2
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>16</b>	<b>5.33</b>	<b>32925</b>	<b>0.33</b>	<b>0.33</b>	<b>0.67</b>	<b>0.44</b>				<b>16</b>
Missouri Ave & 15th Ave	PDO	7	4	2	13							Angle	20	Light	21
	INJ	4	6	6	16							Left Turn	1	Dark	8
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>11</b>	<b>10</b>	<b>8</b>	<b>29</b>	<b>9.67</b>	<b>22297</b>	<b>1.35</b>	<b>1.23</b>	<b>0.98</b>	<b>1.19</b>				<b>29</b>
Oak St & 36th St	PDO	2	2	1	5							Angle	2	Light	4
	INJ	2	2	0	4							Left Turn	0	Dark	5
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>1</b>	<b>9</b>	<b>3.00</b>	<b>15485</b>	<b>0.71</b>	<b>0.71</b>	<b>0.18</b>	<b>0.53</b>				<b>9</b>
Osborn Rd & 20th St	PDO	2	0	0	2							Angle	2	Light	3
	INJ	0	0	1	1							Left Turn	1	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>1.00</b>	<b>21352</b>	<b>0.26</b>	<b>0.00</b>	<b>0.13</b>	<b>0.13</b>				<b>3</b>
Osborn Rd & 15th Ave	PDO	0	3	5	8							Angle	11	Light	11
	INJ	3	2	1	6							Left Turn	0	Dark	3
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>5</b>	<b>6</b>	<b>14</b>	<b>4.67</b>	<b>21616</b>	<b>0.38</b>	<b>0.63</b>	<b>0.76</b>	<b>0.59</b>				<b>14</b>
Osborn Rd & 28th St	PDO	3	5	3	11							Angle	9	Light	14
	INJ	2	3	0	5							Left Turn	2	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	2
	<b>TOTAL</b>	<b>5</b>	<b>8</b>	<b>3</b>	<b>16</b>	<b>5.33</b>	<b>11663</b>	<b>1.17</b>	<b>1.88</b>	<b>0.70</b>	<b>1.25</b>				<b>16</b>
Rose Garden Ln & 23rd Ave	PDO	2	4	3	9							Angle	6	Light	14
	INJ	3	1	3	7							Left Turn	3	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>5</b>	<b>5</b>	<b>6</b>	<b>16</b>	<b>5.33</b>	<b>16728</b>	<b>0.82</b>	<b>0.82</b>	<b>0.98</b>	<b>0.87</b>				<b>16</b>
Hatcher Rd & 12th St	PDO	2	4	3	9							Angle	6	Light	13
	INJ	3	0	4	7							Left Turn	1	Dark	4
	FTL	0	0	1	1							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>4</b>	<b>8</b>	<b>17</b>	<b>5.67</b>	<b>11486</b>	<b>1.19</b>	<b>0.95</b>	<b>1.91</b>	<b>1.35</b>				<b>17</b>
Missouri Ave & 23rd Ave	PDO	2	3	0	5							Angle	1	Light	3
	INJ	1	0	0	1							Left Turn	1	Dark	2
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>6</b>	<b>2.00</b>	<b>7298</b>	<b>1.13</b>	<b>1.13</b>	<b>0.00</b>	<b>0.75</b>				<b>6</b>

Appendix D

**Unsignalized**

Intersection	Collision History					Rate Calculations					Characteristics				
	Type	2008	2009	2010	Total	Average (collisions/yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
Acoma Dr & 36th St	PDO	0	0	0	0							Angle	0	Light	0
	INJ	0	0	0	0							Left Turn	0	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>5607</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>				0
Acoma Dr & 47th Ave	PDO	0	1	0	1							Angle	0	Light	0
	INJ	0	0	0	0							Left Turn	0	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0.33</b>	<b>3182</b>	<b>0.00</b>	<b>0.86</b>	<b>0.00</b>	<b>0.29</b>				1
Campbell Ave & 31st Ave	PDO	2	1	0	3							Angle	1	Light	2
	INJ	0	0	0	0							Left Turn	0	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>1.00</b>	<b>6486</b>	<b>0.84</b>	<b>0.42</b>	<b>0.00</b>	<b>0.42</b>				3
Campbell Ave & 55th Ave	PDO	0	3	1	4							Angle	3	Light	5
	INJ	1	1	0	2							Left Turn	1	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>6</b>	<b>2.00</b>	<b>9218</b>	<b>0.30</b>	<b>1.19</b>	<b>0.30</b>	<b>0.59</b>				6
Campbell Ave & 63rd Ave	PDO	1	1	0	2							Angle	0	Light	1
	INJ	0	0	0	0							Left Turn	0	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0.67</b>	<b>3846</b>	<b>0.71</b>	<b>0.71</b>	<b>0.00</b>	<b>0.47</b>				2
Cholla St & 23rd Ave	PDO	1	2	0	3							Angle	4	Light	4
	INJ	1	1	1	3							Left Turn	0	Dark	2
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>6</b>	<b>2.00</b>	<b>8322</b>	<b>0.66</b>	<b>0.99</b>	<b>0.33</b>	<b>0.66</b>				6
Cholla St & 36th St	PDO	1	0	2	3							Angle	2	Light	3
	INJ	0	0	0	0							Left Turn	0	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>1.00</b>	<b>4947</b>	<b>0.55</b>	<b>0.00</b>	<b>1.11</b>	<b>0.55</b>				3
Cholla St & 39th Ave	PDO	2	0	2	4							Angle	4	Light	6
	INJ	2	0	0	2							Left Turn	1	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>0</b>	<b>2</b>	<b>6</b>	<b>2.00</b>	<b>5445</b>	<b>2.01</b>	<b>0.00</b>	<b>1.01</b>	<b>1.01</b>				6
Encanto Blvd & 39th Ave	PDO	0	0	0	0							Angle	1	Light	1
	INJ	1	0	0	1							Left Turn	0	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0.33</b>	<b>9084</b>	<b>0.30</b>	<b>0.00</b>	<b>0.00</b>	<b>0.10</b>				1
Encanto Blvd & 47th Ave	PDO	2	2	1	5							Angle	2	Light	3
	INJ	0	0	0	0							Left Turn	0	Dark	2
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>5</b>	<b>1.67</b>	<b>5429</b>	<b>1.01</b>	<b>1.01</b>	<b>0.50</b>	<b>0.84</b>				5
Encanto Blvd & 55th Ave	PDO	1	2	0	3							Angle	1	Light	3
	INJ	0	0	0	0							Left Turn	0	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>1.00</b>	<b>6739</b>	<b>0.41</b>	<b>0.81</b>	<b>0.00</b>	<b>0.41</b>				3

Appendix D

**Unsignalized**

Intersection	Collision History					Rate Calculations					Characteristics				
	Type	2008	2009	2010	Total	Average (collisions/yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
Encanto Blvd & 71st Ave	PDO	1	1	0	2							Angle	2	Light	2
	INJ	1	1	0	2							Left Turn	1	Dark	2
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>4</b>	<b>1.33</b>	<b>7603</b>	<b>0.72</b>	<b>0.72</b>	<b>0.00</b>	<b>0.48</b>				<b>4</b>
Encanto Blvd & 79th Ave	PDO	2	1	1	4							Angle	3	Light	3
	INJ	1	0	1	2							Left Turn	1	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>6</b>	<b>2.00</b>	<b>8088</b>	<b>1.02</b>	<b>0.34</b>	<b>0.68</b>	<b>0.68</b>				<b>6</b>
Grovers Ave & 15th Ave	PDO	0	1	0	1							Angle	1	Light	1
	INJ	0	0	0	0							Left Turn	0	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0.33</b>	<b>12756</b>	<b>0.00</b>	<b>0.21</b>	<b>0.00</b>	<b>0.07</b>				<b>1</b>
Grovers Ave & 20th St	PDO	2	0	1	3							Angle	1	Light	3
	INJ	1	0	0	1							Left Turn	2	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>1.33</b>	<b>6117</b>	<b>1.34</b>	<b>0.00</b>	<b>0.45</b>	<b>0.60</b>				<b>4</b>
Grovers Ave & 39th Ave	PDO	0	0	0	0							Angle	0	Light	0
	INJ	0	0	0	0							Left Turn	0	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>4031</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>				<b>0</b>
Maryland Ave & 31st Ave	PDO	2	1	0	3							Angle	2	Light	4
	INJ	2	0	0	2							Left Turn	0	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>5</b>	<b>1.67</b>	<b>5463</b>	<b>2.01</b>	<b>0.50</b>	<b>0.00</b>	<b>0.84</b>				<b>5</b>
Maryland Ave & 39th Ave	PDO	2	1	0	3							Angle	5	Light	7
	INJ	3	0	1	4							Left Turn	0	Dark	0
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>7</b>	<b>2.33</b>	<b>6140</b>	<b>2.23</b>	<b>0.45</b>	<b>0.45</b>	<b>1.04</b>				<b>7</b>
Oak St & 12th St	PDO	0	1	0	1							Angle	0	Light	2
	INJ	0	1	1	2							Left Turn	0	Dark	1
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>1.00</b>	<b>5176</b>	<b>0.00</b>	<b>1.06</b>	<b>0.53</b>	<b>0.53</b>				<b>3</b>
Orangewood Ave & 31st Ave	PDO	0	0	1	1							Angle	1	Light	1
	INJ	0	0	0	0							Left Turn	0	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0.33</b>	<b>4752</b>	<b>0.00</b>	<b>0.00</b>	<b>0.58</b>	<b>0.19</b>				<b>1</b>
Orangewood Ave & 39th Ave	PDO	1	2	0	3							Angle	3	Light	5
	INJ	2	1	0	3							Left Turn	0	Dark	1
	FTL	0	0	0	0							B/P	1	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>6</b>	<b>2.00</b>	<b>6359</b>	<b>1.29</b>	<b>1.29</b>	<b>0.00</b>	<b>0.86</b>				<b>6</b>
Osborn Rd & 55th Ave	PDO	2	1	3	6							Angle	6	Light	13
	INJ	5	1	3	9							Left Turn	1	Dark	1
	FTL	0	0	0	0							B/P	1	Twilight	1
	<b>TOTAL</b>	<b>7</b>	<b>2</b>	<b>6</b>	<b>15</b>	<b>5.00</b>	<b>12788</b>	<b>1.50</b>	<b>0.43</b>	<b>1.29</b>	<b>1.07</b>				<b>15</b>

## Appendix D

**Unsignalized**

Intersection	Collision History					Rate Calculations					Characteristics				
	Type	2008	2009	2010	Total	Average (collisions/yr)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
Osborn Rd & 48th St	PDO	0	0	0	0							Angle	0	Light	0
	INJ	0	0	0	0							Left Turn	0	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>8297</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>				<b>0</b>
Osborn Rd & 71st Ave	PDO	2	0	0	2							Angle	0	Light	3
	INJ	1	0	0	1							Left Turn	1	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>1.00</b>	<b>6176</b>	<b>1.33</b>	<b>0.00</b>	<b>0.00</b>	<b>0.44</b>				<b>3</b>
Paradise Ln & 39th Ave	PDO	1	0	0	1							Angle	1	Light	1
	INJ	0	1	0	1							Left Turn	0	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	1
	<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0.67</b>	<b>3396</b>	<b>0.81</b>	<b>0.81</b>	<b>0.00</b>	<b>0.54</b>				<b>2</b>
Paradise Ln & 52nd St	PDO	0	1	0	1							Angle	0	Light	0
	INJ	0	0	0	0							Left Turn	1	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0.33</b>	<b>4242</b>	<b>0.00</b>	<b>0.65</b>	<b>0.00</b>	<b>0.22</b>				<b>1</b>
Roeser Rd & 15th Ave	PDO	2	1	1	4							Angle	1	Light	1
	INJ	0	0	0	0							Left Turn	0	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>1.33</b>	<b>7862</b>	<b>0.70</b>	<b>0.35</b>	<b>0.35</b>	<b>0.46</b>				<b>4</b>
Roosevelt St & 39th Ave	PDO	0	2	0	2							Angle	3	Light	2
	INJ	1	0	0	1							Left Turn	0	Dark	1
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>1.00</b>	<b>7396</b>	<b>0.37</b>	<b>0.74</b>	<b>0.00</b>	<b>0.37</b>				<b>3</b>
Roosevelt St & 28th St	PDO	2	3	1	6							Angle	2	Light	4
	INJ	0	0	0	0							Left Turn	2	Dark	2
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>6</b>	<b>2.00</b>	<b>12196</b>	<b>0.45</b>	<b>0.67</b>	<b>0.22</b>	<b>0.45</b>				<b>6</b>
Sweetwater Ave & 31st Ave	PDO	1	1	1	3							Angle	2	Light	2
	INJ	0	0	0	0							Left Turn	0	Dark	2
	FTL	1	0	0	1							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>1.33</b>	<b>6772</b>	<b>0.81</b>	<b>0.40</b>	<b>0.40</b>	<b>0.54</b>				<b>4</b>
Sweetwater Ave & 36th St	PDO	0	0	1	1							Angle	3	Light	4
	INJ	1	2	0	3							Left Turn	0	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>4</b>	<b>1.33</b>	<b>5767</b>	<b>0.48</b>	<b>0.95</b>	<b>0.48</b>	<b>0.63</b>				<b>4</b>
Sweetwater Ave & 28th St	PDO	0	1	3	4							Angle	3	Light	3
	INJ	0	1	1	2							Left Turn	1	Dark	3
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>0</b>	<b>2</b>	<b>4</b>	<b>6</b>	<b>2.00</b>	<b>8635</b>	<b>0.00</b>	<b>0.63</b>	<b>1.27</b>	<b>0.63</b>				<b>6</b>
Utopia Rd & 12th St	PDO	1	0	0	1							Angle	1	Light	0
	INJ	0	0	0	0							Left Turn	0	Dark	0
	FTL	0	0	0	0							B/P	0	Twilight	0
	<b>TOTAL</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0.33</b>	<b>3532</b>	<b>0.78</b>	<b>0.00</b>	<b>0.00</b>	<b>0.26</b>				<b>0</b>

**Arterial Segments**

2006-2007

Road	Segment	Type	Collision History				Rate Calculations				Characteristics				
			2006	2007	Total	Average (collisions/ yr)	Length (miles)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Southern	32nd to 40th st	PDO	11	8	19							Angle	2	Light	22
		INJ	3	3	6							Left Turn	0	Dark	3
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>14</b>	<b>11</b>	<b>25</b>	<b>12.50</b>	<b>0.94</b>	<b>28731</b>	<b>1.42</b>	<b>1.11</b>	<b>1.26</b>				<b>25</b>
Southern	7th st to 16th St	PDO	11	8	19							Angle	9	Light	26
		INJ	7	9	16							Left Turn	2	Dark	7
		FTL	0	0	0							B/P	2	Twilight	2
		<b>TOTAL</b>	<b>18</b>	<b>17</b>	<b>35</b>	<b>17.50</b>	<b>0.95</b>	<b>25653</b>	<b>2.03</b>	<b>1.92</b>	<b>1.97</b>				<b>35</b>
Broadway	7th Ave to Central	PDO	6	10	16							Angle	6	Light	22
		INJ	7	4	11							Left Turn	2	Dark	3
		FTL	0	0	0							B/P	1	Twilight	2
		<b>TOTAL</b>	<b>13</b>	<b>14</b>	<b>27</b>	<b>13.50</b>	<b>0.44</b>	<b>23148</b>	<b>3.47</b>	<b>3.74</b>	<b>3.61</b>				<b>27</b>
Broadway	Central to 7th St	PDO	13	5	18							Angle	11	Light	22
		INJ	9	6	15							Left Turn	4	Dark	8
		FTL	0	0	0							B/P	1	Twilight	3
		<b>TOTAL</b>	<b>22</b>	<b>11</b>	<b>33</b>	<b>16.50</b>	<b>0.44</b>	<b>26068</b>	<b>5.22</b>	<b>2.61</b>	<b>3.91</b>				<b>33</b>
Buckeye	35th Ave to 27th Ave	PDO	19	14	33							Angle	10	Light	42
		INJ	13	11	24							Left Turn	5	Dark	14
		FTL	1	0	1							B/P	4	Twilight	2
		<b>TOTAL</b>	<b>33</b>	<b>25</b>	<b>58</b>	<b>29.00</b>	<b>0.94</b>	<b>30978</b>	<b>3.09</b>	<b>2.34</b>	<b>2.72</b>				<b>58</b>
Buckeye	51st Ave to 43rd Ave	PDO	7	7	14							Angle	2	Light	18
		INJ	2	4	6							Left Turn	0	Dark	2
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>9</b>	<b>11</b>	<b>20</b>	<b>10.00</b>	<b>0.94</b>	<b>25356</b>	<b>1.03</b>	<b>1.26</b>	<b>1.15</b>				<b>20</b>
Buckeye	59th Ave to 67th Ave	PDO	11	7	18							Angle	5	Light	23
		INJ	5	6	11							Left Turn	1	Dark	4
		FTL	1	0	1							B/P	1	Twilight	3
		<b>TOTAL</b>	<b>17</b>	<b>13</b>	<b>30</b>	<b>15.00</b>	<b>0.94</b>	<b>22914</b>	<b>2.16</b>	<b>1.65</b>	<b>1.90</b>				<b>30</b>
Baseline	19th Ave to 27th Ave	PDO	6	9	15							Angle	1	Light	20
		INJ	2	8	10							Left Turn	3	Dark	4
		FTL	0	0	0							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>8</b>	<b>17</b>	<b>25</b>	<b>12.50</b>	<b>0.94</b>	<b>26651</b>	<b>0.87</b>	<b>1.85</b>	<b>1.36</b>				<b>25</b>
Lower Buckeye	35th Ave to 27th Ave	PDO	4	3	7							Angle	0	Light	6
		INJ	0	1	1							Left Turn	0	Dark	1
		FTL	0	0	0							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>4.00</b>	<b>0.94</b>	<b>15668</b>	<b>0.74</b>	<b>0.74</b>	<b>0.74</b>				<b>8</b>
Lower Buckeye	43rd Ave to 51st Ave	PDO	3	6	9							Angle	1	Light	10
		INJ	1	4	5							Left Turn	1	Dark	3
		FTL	0	0	0							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>4</b>	<b>10</b>	<b>14</b>	<b>7.00</b>	<b>0.94</b>	<b>14447</b>	<b>0.80</b>	<b>2.01</b>	<b>1.41</b>				<b>14</b>
Van Buren	24th St to 28th St	PDO	5	3	8							Angle	1	Light	16
		INJ	3	5	8							Left Turn	0	Dark	1
		FTL	0	1	1							B/P	2	Twilight	0
		<b>TOTAL</b>	<b>8</b>	<b>9</b>	<b>17</b>	<b>8.50</b>	<b>0.44</b>	<b>22511</b>	<b>2.20</b>	<b>2.47</b>	<b>2.33</b>				<b>17</b>

Appendix E

## Arterial Segments

2006-2007

Road	Segment	Type	Collision History				Rate Calculations				Characteristics				
			2006	2007	Total	Average (collisions/ yr)	Length (miles)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Van Buren	28th St to 32nd St	PDO	9	8	17							Angle	4	Light	19
		INJ	6	6	12							Left Turn	2	Dark	7
		FTL	0	1	1							B/P	3	Twilight	4
		<b>TOTAL</b>	<b>15</b>	<b>15</b>	<b>30</b>	<b>15.00</b>	<b>0.44</b>	<b>22800</b>	<b>4.07</b>	<b>4.07</b>	<b>4.07</b>				<b>30</b>
Van Buren	43rd Ave to 35th Ave	PDO	21	12	33							Angle	31	Light	46
		INJ	10	13	23							Left Turn	1	Dark	8
		FTL	0	0	0							B/P	2	Twilight	2
		<b>TOTAL</b>	<b>31</b>	<b>25</b>	<b>56</b>	<b>28.00</b>	<b>0.94</b>	<b>23960</b>	<b>3.76</b>	<b>3.03</b>	<b>3.39</b>				<b>56</b>
Van Buren	67th Ave to 59th Ave	PDO	12	4	16							Angle	5	Light	17
		INJ	4	9	13							Left Turn	0	Dark	6
		FTL	0	0	0							B/P	1	Twilight	6
		<b>TOTAL</b>	<b>16</b>	<b>13</b>	<b>29</b>	<b>14.50</b>	<b>0.94</b>	<b>15496</b>	<b>3.00</b>	<b>2.44</b>	<b>2.72</b>				<b>29</b>
Van Buren	32nd St to 40th St	PDO	17	16	33							Angle	8	Light	34
		INJ	9	2	11							Left Turn	1	Dark	8
		FTL	0	0	0							B/P	3	Twilight	2
		<b>TOTAL</b>	<b>26</b>	<b>18</b>	<b>44</b>	<b>22.00</b>	<b>0.94</b>	<b>22200</b>	<b>3.40</b>	<b>2.36</b>	<b>2.88</b>				<b>44</b>
Van Buren	31st Ave to 35th Ave	PDO	20	14	34							Angle	19	Light	42
		INJ	11	10	21							Left Turn	5	Dark	15
		FTL	0	2	2							B/P	6	Twilight	0
		<b>TOTAL</b>	<b>31</b>	<b>26</b>	<b>57</b>	<b>28.50</b>	<b>0.44</b>	<b>30300</b>	<b>6.32</b>	<b>5.30</b>	<b>5.81</b>				<b>57</b>
McDowell	24th St to 28th St	PDO	10	15	25							Angle	13	Light	27
		INJ	8	5	13							Left Turn	4	Dark	10
		FTL	0	0	0							B/P	5	Twilight	1
		<b>TOTAL</b>	<b>18</b>	<b>20</b>	<b>38</b>	<b>19.00</b>	<b>0.44</b>	<b>28773</b>	<b>3.87</b>	<b>4.30</b>	<b>4.08</b>				<b>38</b>
McDowell	28th St to 32nd St	PDO	7	9	16							Angle	6	Light	22
		INJ	9	5	14							Left Turn	3	Dark	7
		FTL	1	0	1							B/P	2	Twilight	2
		<b>TOTAL</b>	<b>17</b>	<b>14</b>	<b>31</b>	<b>15.50</b>	<b>0.44</b>	<b>36000</b>	<b>2.92</b>	<b>2.40</b>	<b>2.66</b>				<b>31</b>
McDowell	35th Ave to 31st Ave	PDO	6	8	14							Angle	6	Light	14
		INJ	2	5	7							Left Turn	4	Dark	6
		FTL	0	0	0							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>8</b>	<b>13</b>	<b>21</b>	<b>10.50</b>	<b>0.44</b>	<b>27632</b>	<b>1.79</b>	<b>2.91</b>	<b>2.35</b>				<b>21</b>
McDowell	59th Ave to 67th Ave	PDO	20	30	50							Angle	23	Light	45
		INJ	4	5	9							Left Turn	4	Dark	11
		FTL	1	0	1							B/P	1	Twilight	4
		<b>TOTAL</b>	<b>25</b>	<b>35</b>	<b>60</b>	<b>30.00</b>	<b>0.94</b>	<b>24000</b>	<b>3.03</b>	<b>4.24</b>	<b>3.63</b>				<b>60</b>
McDowell	40th St to 44th St	PDO	18	21	39							Angle	8	Light	40
		INJ	9	8	17							Left Turn	5	Dark	11
		FTL	1	0	1							B/P	4	Twilight	6
		<b>TOTAL</b>	<b>28</b>	<b>29</b>	<b>57</b>	<b>28.50</b>	<b>0.44</b>	<b>31702</b>	<b>5.46</b>	<b>5.65</b>	<b>5.56</b>				<b>57</b>
McDowell	67th Ave to 71st Ave	PDO	7	13	20							Angle	15	Light	18
		INJ	5	3	8							Left Turn	2	Dark	8
		FTL	1	0	1							B/P	0	Twilight	3
		<b>TOTAL</b>	<b>13</b>	<b>16</b>	<b>29</b>	<b>14.50</b>	<b>0.44</b>	<b>24738</b>	<b>3.25</b>	<b>4.00</b>	<b>3.62</b>				<b>29</b>

**Arterial Segments**

2006-2007

Road	Segment	Type	Collision History				Rate Calculations				Characteristics				
			2006	2007	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
McDowell	15th Ave to 7th Ave	PDO	3	4	7							Angle	2	Light	15
		INJ	4	5	9							Left Turn	2	Dark	1
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>7</b>	<b>9</b>	<b>16</b>	<b>8.00</b>	<b>0.44</b>	<b>21220</b>	<b>2.04</b>	<b>2.62</b>	<b>2.33</b>				<b>16</b>
Thomas	7th St to 12th St	PDO	4	2	6							Angle	2	Light	11
		INJ	4	1	5							Left Turn	0	Dark	0
		FTL	0	0	0							B/P	1	Twilight	0
		<b>TOTAL</b>	<b>8</b>	<b>3</b>	<b>11</b>	<b>5.50</b>	<b>0.44</b>	<b>36000</b>	<b>1.37</b>	<b>0.52</b>	<b>0.94</b>				<b>11</b>
Thomas	12th st to 16th St	PDO	9	11	20							Angle	9	Light	27
		INJ	6	6	12							Left Turn	4	Dark	3
		FTL	0	0	0							B/P	3	Twilight	2
		<b>TOTAL</b>	<b>15</b>	<b>17</b>	<b>32</b>	<b>16.00</b>	<b>0.44</b>	<b>36676</b>	<b>2.53</b>	<b>2.87</b>	<b>2.70</b>				<b>32</b>
Thomas	23rd Ave to 19th Ave	PDO	7	10	17							Angle	4	Light	18
		INJ	4	4	8							Left Turn	4	Dark	5
		FTL	0	0	0							B/P	0	Twilight	2
		<b>TOTAL</b>	<b>11</b>	<b>14</b>	<b>25</b>	<b>12.50</b>	<b>0.44</b>	<b>35000</b>	<b>1.94</b>	<b>2.47</b>	<b>2.21</b>				<b>25</b>
Thomas	19th Ave to 15th Ave	PDO	10	2	12							Angle	2	Light	10
		INJ	1	1	2							Left Turn	1	Dark	3
		FTL	0	0	0							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>11</b>	<b>3</b>	<b>14</b>	<b>7.00</b>	<b>0.44</b>	<b>34000</b>	<b>2.00</b>	<b>0.55</b>	<b>1.27</b>				<b>14</b>
Thomas	67th Ave to 71st Ave	PDO	13	5	18							Angle	14	Light	17
		INJ	3	4	7							Left Turn	2	Dark	6
		FTL	0	0	0							B/P	0	Twilight	2
		<b>TOTAL</b>	<b>16</b>	<b>9</b>	<b>25</b>	<b>12.50</b>	<b>0.44</b>	<b>32500</b>	<b>3.04</b>	<b>1.71</b>	<b>2.38</b>				<b>25</b>
Thomas	40th St to 44th St	PDO	18	19	37							Angle	11	Light	48
		INJ	11	7	18							Left Turn	9	Dark	4
		FTL	0	0	0							B/P	3	Twilight	3
		<b>TOTAL</b>	<b>29</b>	<b>26</b>	<b>55</b>	<b>27.50</b>	<b>0.44</b>	<b>41000</b>	<b>4.37</b>	<b>3.92</b>	<b>4.15</b>				<b>55</b>
Thomas	39th Ave to 35th Ave	PDO	15	21	36							Angle	14	Light	38
		INJ	8	7	15							Left Turn	4	Dark	8
		FTL	0	0	0							B/P	1	Twilight	5
		<b>TOTAL</b>	<b>23</b>	<b>28</b>	<b>51</b>	<b>25.50</b>	<b>0.44</b>	<b>32000</b>	<b>4.44</b>	<b>5.41</b>	<b>4.93</b>				<b>51</b>
Indian School	7th St to 12th St	PDO	48	38	86							Angle	31	Light	99
		INJ	13	13	26							Left Turn	17	Dark	9
		FTL	0	0	0							B/P	3	Twilight	4
		<b>TOTAL</b>	<b>61</b>	<b>51</b>	<b>112</b>	<b>56.00</b>	<b>0.44</b>	<b>44000</b>	<b>8.57</b>	<b>7.17</b>	<b>7.87</b>				<b>112</b>
Indian School	20th St to 24th St	PDO	13	19	32							Angle	10	Light	33
		INJ	4	4	8							Left Turn	2	Dark	6
		FTL	1	0	1							B/P	2	Twilight	2
		<b>TOTAL</b>	<b>18</b>	<b>23</b>	<b>41</b>	<b>20.50</b>	<b>0.44</b>	<b>44000</b>	<b>2.53</b>	<b>3.23</b>	<b>2.88</b>				<b>41</b>
Indian School	59th Ave to 63rd Ave	PDO	8	10	18							Angle	6	Light	21
		INJ	5	3	8							Left Turn	1	Dark	4
		FTL	1	0	1							B/P	0	Twilight	2
		<b>TOTAL</b>	<b>14</b>	<b>13</b>	<b>27</b>	<b>13.50</b>	<b>0.44</b>	<b>34500</b>	<b>2.51</b>	<b>2.33</b>	<b>2.42</b>				<b>27</b>

## Arterial Segments

2006-2007

Road	Segment	Type	Collision History				Rate Calculations				Characteristics				
			2006	2007	Total	Average (collisions/ yr)	Length (miles)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Indian School	27th Ave to 31st Ave	PDO	23	20	43							Angle	12	Light	56
		INJ	15	13	28							Left Turn	9	Dark	14
		FTL	1	1	2							B/P	3	Twilight	3
		<b>TOTAL</b>	<b>39</b>	<b>34</b>	<b>73</b>	<b>36.50</b>	<b>0.44</b>	<b>51000</b>	<b>4.73</b>	<b>4.12</b>	<b>4.42</b>				<b>73</b>
Indian School	32nd St to 36th St	PDO	15	9	24							Angle	8	Light	43
		INJ	11	10	21							Left Turn	2	Dark	2
		FTL	0	0	0							B/P	2	Twilight	0
		<b>TOTAL</b>	<b>26</b>	<b>19</b>	<b>45</b>	<b>22.50</b>	<b>0.44</b>	<b>33500</b>	<b>4.80</b>	<b>3.51</b>	<b>4.15</b>				<b>45</b>
Indian School	19th Ave to 15th Ave	PDO	8	4	12							Angle	3	Light	20
		INJ	3	10	13							Left Turn	1	Dark	5
		FTL	0	0	0							B/P	1	Twilight	0
		<b>TOTAL</b>	<b>11</b>	<b>14</b>	<b>25</b>	<b>12.50</b>	<b>0.44</b>	<b>43500</b>	<b>1.56</b>	<b>1.99</b>	<b>1.78</b>				<b>25</b>
Camelback	32nd St to 36th St	PDO	4	2	6							Angle	1	Light	9
		INJ	4	2	6							Left Turn	2	Dark	3
		FTL	0	0	0							B/P	1	Twilight	0
		<b>TOTAL</b>	<b>8</b>	<b>4</b>	<b>12</b>	<b>6.00</b>	<b>0.44</b>	<b>44500</b>	<b>1.11</b>	<b>0.56</b>	<b>0.83</b>				<b>12</b>
Camelback	12th St to 16th St	PDO	24	11	35							Angle	12	Light	43
		INJ	4	9	13							Left Turn	0	Dark	3
		FTL	0	0	0							B/P	1	Twilight	2
		<b>TOTAL</b>	<b>28</b>	<b>20</b>	<b>48</b>	<b>24.00</b>	<b>0.44</b>	<b>40500</b>	<b>4.27</b>	<b>3.05</b>	<b>3.66</b>				<b>48</b>
Camelback	27th Ave to 31st Ave	PDO	26	34	60							Angle	24	Light	62
		INJ	18	6	24							Left Turn	3	Dark	18
		FTL	0	0	0							B/P	4	Twilight	4
		<b>TOTAL</b>	<b>44</b>	<b>40</b>	<b>84</b>	<b>42.00</b>	<b>0.44</b>	<b>39000</b>	<b>6.97</b>	<b>6.34</b>	<b>6.66</b>				<b>84</b>
*Above 2 std. dev's		PDO	12	4	16							Angle	8	Light	16
		INJ	5	8	13							Left Turn	6	Dark	13
		FTL	1	0	1							B/P	1	Twilight	1
		<b>TOTAL</b>	<b>18</b>	<b>12</b>	<b>30</b>	<b>15.00</b>	<b>0.44</b>	<b>34000</b>	<b>3.27</b>	<b>2.18</b>	<b>2.73</b>				<b>30</b>
Bethany Home Rd	43rd Ave to 39th Ave	PDO	9	7	16							Angle	9	Light	21
		INJ	2	6	8							Left Turn	1	Dark	4
		FTL	0	1	1							B/P	2	Twilight	0
		<b>TOTAL</b>	<b>11</b>	<b>14</b>	<b>25</b>	<b>12.50</b>	<b>0.44</b>	<b>30500</b>	<b>2.23</b>	<b>2.84</b>	<b>2.53</b>				<b>25</b>
Bethany Home Rd	15th Ave to 7th Ave	PDO	11	17	28							Angle	16	Light	30
		INJ	6	7	13							Left Turn	1	Dark	7
		FTL	0	0	0							B/P	0	Twilight	4
		<b>TOTAL</b>	<b>17</b>	<b>24</b>	<b>41</b>	<b>20.50</b>	<b>0.44</b>	<b>30000</b>	<b>3.50</b>	<b>4.95</b>	<b>4.22</b>				<b>41</b>
Bethany Home Rd	7th St to 12th St	PDO	13	1	14							Angle	11	Light	25
		INJ	6	7	13							Left Turn	7	Dark	8
		FTL	0	0	0							B/P	1	Twilight	0
		<b>TOTAL</b>	<b>17</b>	<b>24</b>	<b>41</b>	<b>16.50</b>	<b>0.44</b>	<b>32500</b>	<b>4.57</b>	<b>1.71</b>	<b>3.14</b>				<b>33</b>
Glendale Ave	39th Ave to 35th Ave	PDO	7	9	16							Angle	2	Light	21
		INJ	3	7	10							Left Turn	6	Dark	3
		FTL	0	0	0							B/P	0	Twilight	2
		<b>TOTAL</b>	<b>10</b>	<b>16</b>	<b>26</b>	<b>13.00</b>	<b>0.44</b>	<b>36500</b>	<b>1.69</b>	<b>2.71</b>	<b>2.20</b>				<b>26</b>

Appendix E

## Arterial Segments

2006-2007

Road	Segment	Type	Collision History				Rate Calculations				Characteristics				
			2006	2007	Total	Average (collisions/ yr)	Length (miles)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Glendale Ave	15th Ave to 7th Ave	PDO	11	5	16							Angle	5	Light	22
		INJ	6	5	11							Left Turn	2	Dark	4
		FTL	0	0	0							B/P	1	Twilight	1
		<b>TOTAL</b>	<b>17</b>	<b>10</b>	<b>27</b>	<b>13.50</b>	<b>0.44</b>	<b>31000</b>	<b>3.39</b>	<b>1.99</b>	<b>2.69</b>				<b>27</b>
Glendale Ave	Central to 7th St	PDO	6	12	18							Angle	2	Light	24
		INJ	5	7	12							Left Turn	1	Dark	5
		FTL	0	0	0							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>11</b>	<b>19</b>	<b>30</b>	<b>15.00</b>	<b>0.44</b>	<b>41000</b>	<b>1.66</b>	<b>2.86</b>	<b>2.26</b>				<b>30</b>
Northern Ave	43rd Ave to 39th Ave	PDO	12	13	25							Angle	11	Light	37
		INJ	11	10	21							Left Turn	7	Dark	8
		FTL	0	0	0							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>23</b>	<b>23</b>	<b>46</b>	<b>23.00</b>	<b>0.44</b>	<b>39000</b>	<b>3.65</b>	<b>3.65</b>	<b>3.65</b>				<b>46</b>
Northern Ave	15th Ave to 7th Ave	PDO	9	2	11							Angle	2	Light	17
		INJ	2	6	8							Left Turn	1	Dark	1
		FTL	0	0	0							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>11</b>	<b>8</b>	<b>19</b>	<b>9.50</b>	<b>0.44</b>	<b>37000</b>	<b>1.84</b>	<b>1.34</b>	<b>1.59</b>				<b>19</b>
Northern Ave	7th St to 12th St	PDO	6	9	15							Angle	4	Light	18
		INJ	4	5	9							Left Turn	2	Dark	2
		FTL	0	0	0							B/P	0	Twilight	4
		<b>TOTAL</b>	<b>10</b>	<b>14</b>	<b>24</b>	<b>12.00</b>	<b>0.44</b>	<b>39000</b>	<b>1.59</b>	<b>2.22</b>	<b>1.90</b>				<b>24</b>
Dunlap Rd	39th Ave to 35th Ave	PDO	12	8	20							Angle	8	Light	26
		INJ	9	6	15							Left Turn	2	Dark	7
		FTL	1	0	1							B/P	0	Twilight	3
		<b>TOTAL</b>	<b>22</b>	<b>14</b>	<b>36</b>	<b>18.00</b>	<b>0.44</b>	<b>35000</b>	<b>3.89</b>	<b>2.47</b>	<b>3.18</b>				<b>36</b>
Dunlap Rd	7th Ave to Central	PDO	15	6	21							Angle	5	Light	24
		INJ	2	8	10							Left Turn	2	Dark	6
		FTL	0	0	0							B/P	3	Twilight	1
		<b>TOTAL</b>	<b>17</b>	<b>14</b>	<b>31</b>	<b>15.50</b>	<b>0.44</b>	<b>31000</b>	<b>3.39</b>	<b>2.79</b>	<b>3.09</b>				<b>31</b>
Peoria Ave	43rd Ave to 39th Ave	PDO	10	15	25							Angle	6	Light	21
		INJ	5	5	10							Left Turn	2	Dark	15
		FTL	1	0	1							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>16</b>	<b>20</b>	<b>36</b>	<b>18.00</b>	<b>0.44</b>	<b>34000</b>	<b>2.91</b>	<b>3.64</b>	<b>3.27</b>				<b>36</b>
Peoria Ave	19th Ave to 15th Ave	PDO	8	3	11							Angle	7	Light	14
		INJ	5	3	8							Left Turn	0	Dark	2
		FTL	0	0	0							B/P	1	Twilight	3
		<b>TOTAL</b>	<b>13</b>	<b>6</b>	<b>19</b>	<b>9.50</b>	<b>0.44</b>	<b>10600</b>	<b>7.58</b>	<b>3.50</b>	<b>5.54</b>				<b>19</b>
Shea Blvd	36th St to 40th St	PDO	3	4	7							Angle	0	Light	10
		INJ	1	2	3							Left Turn	1	Dark	0
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>4</b>	<b>6</b>	<b>10</b>	<b>5.00</b>	<b>0.44</b>	<b>41000</b>	<b>0.60</b>	<b>0.90</b>	<b>0.75</b>				<b>10</b>
Shea Blvd	40th St to Tatum Blvd	PDO	15	16	31							Angle	13	Light	39
		INJ	5	8	13							Left Turn	3	Dark	5
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>20</b>	<b>24</b>	<b>44</b>	<b>22.00</b>	<b>0.94</b>	<b>43000</b>	<b>1.35</b>	<b>1.62</b>	<b>1.49</b>				<b>44</b>

## Arterial Segments

2006-2007

Road	Segment	Type	Collision History				Rate Calculations				Characteristics				
			2006	2007	Total	Average (collisions/ yr)	Length (miles)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Cactus	47th Ave to 43rd Ave	PDO	3	5	8							Angle	3	Light	8
		INJ	2	2	4							Left Turn	1	Dark	4
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>5</b>	<b>7</b>	<b>12</b>	<b>6.00</b>	<b>0.44</b>	<b>31000</b>	<b>1.00</b>	<b>1.40</b>	<b>1.20</b>				<b>12</b>
Cactus	35th Ave to 31st Ave	PDO	4	6	10							Angle	7	Light	10
		INJ	1	3	4							Left Turn	0	Dark	4
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>5</b>	<b>9</b>	<b>14</b>	<b>7.00</b>	<b>0.44</b>	<b>27500</b>	<b>1.12</b>	<b>2.02</b>	<b>1.57</b>				<b>14</b>
Cactus	28th St to 32nd St	PDO	9	8	17							Angle	8	Light	21
		INJ	4	7	11							Left Turn	2	Dark	7
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>13</b>	<b>15</b>	<b>28</b>	<b>14.00</b>	<b>0.44</b>	<b>44500</b>	<b>1.81</b>	<b>2.08</b>	<b>1.94</b>				<b>28</b>
Cactus	36th St to 40th St	PDO	6	9	15							Angle	2	Light	15
		INJ	2	3	5							Left Turn	2	Dark	5
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>8</b>	<b>12</b>	<b>20</b>	<b>10.00</b>	<b>0.44</b>	<b>46000</b>	<b>1.08</b>	<b>1.61</b>	<b>1.34</b>				<b>20</b>
Thunderbird	52nd St to Tatum Blvd	PDO	6	5	11							Angle	7	Light	14
		INJ	4	4	8							Left Turn	2	Dark	3
		FTL	0	0	0							B/P	0	Twilight	2
		<b>TOTAL</b>	<b>10</b>	<b>9</b>	<b>19</b>	<b>9.50</b>	<b>0.44</b>	<b>22000</b>	<b>2.81</b>	<b>2.53</b>	<b>2.67</b>				<b>19</b>
Thunderbird	Tatum Bld to 44th St	PDO	2	1	3							Angle	4	Light	8
		INJ	1	4	5							Left Turn	0	Dark	0
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>3</b>	<b>5</b>	<b>8</b>	<b>4.00</b>	<b>0.44</b>	<b>22000</b>	<b>0.84</b>	<b>1.40</b>	<b>1.12</b>				<b>8</b>
Thunderbird	7th St to Central/Canterbur	PDO	8	6	14							Angle	9	Light	14
		INJ	4	1	5							Left Turn	1	Dark	4
		FTL	0	0	0							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>12</b>	<b>7</b>	<b>19</b>	<b>9.50</b>	<b>0.44</b>	<b>34000</b>	<b>2.18</b>	<b>1.27</b>	<b>1.73</b>				<b>19</b>
Thunderbird	35th Ave to 39th Ave	PDO	4	7	11							Angle	10	Light	19
		INJ	8	8	16							Left Turn	5	Dark	8
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>12</b>	<b>15</b>	<b>27</b>	<b>13.50</b>	<b>0.44</b>	<b>42500</b>	<b>1.75</b>	<b>2.18</b>	<b>1.96</b>				<b>27</b>
Greenway Rd	40th St to 44th St	PDO	2	2	4							Angle	5	Light	6
		INJ	3	2	5							Left Turn	0	Dark	3
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>5</b>	<b>4</b>	<b>9</b>	<b>4.50</b>	<b>0.44</b>	<b>36100</b>	<b>0.86</b>	<b>0.68</b>	<b>0.77</b>				<b>9</b>
Greenway Rd	43rd Ave to 39th Ave	PDO	2	5	7							Angle	5	Light	13
		INJ	3	3	6							Left Turn	0	Dark	0
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>5</b>	<b>8</b>	<b>13</b>	<b>6.50</b>	<b>0.44</b>	<b>26500</b>	<b>1.17</b>	<b>1.87</b>	<b>1.52</b>				<b>13</b>
Greenway Rd	36th St to 40th St	PDO	6	7	13							Angle	4	Light	14
		INJ	4	3	7							Left Turn	1	Dark	5
		FTL	0	0	0							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>10</b>	<b>10</b>	<b>20</b>	<b>10.00</b>	<b>0.44</b>	<b>42000</b>	<b>1.47</b>	<b>1.47</b>	<b>1.47</b>				<b>20</b>

## Arterial Segments

2006-2007

Road	Segment	Type	Collision History				Rate Calculations				Characteristics				
			2006	2007	Total	Average (collisions/ yr)	Length (miles)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Greenway Rd	44th St to Tatum Blvd	PDO	2	7	9							Angle	3	Light	9
		INJ	2	1	3							Left Turn	0	Dark	3
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>4</b>	<b>8</b>	<b>12</b>	<b>6.00</b>	<b>0.44</b>	<b>35000</b>	<b>0.71</b>	<b>1.41</b>	<b>1.06</b>				<b>12</b>
Bell Rd	56th St to 60th St	PDO	7	5	12							Angle	4	Light	12
		INJ	2	0	2							Left Turn	1	Dark	2
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>9</b>	<b>5</b>	<b>14</b>	<b>7.00</b>	<b>0.44</b>	<b>35000</b>	<b>1.59</b>	<b>0.88</b>	<b>1.24</b>				<b>14</b>
Bell Rd	40th St to 44th St	PDO	9	13	22							Angle	2	Light	23
		INJ	5	2	7							Left Turn	6	Dark	4
		FTL	0	0	0							B/P	2	Twilight	2
		<b>TOTAL</b>	<b>14</b>	<b>15</b>	<b>29</b>	<b>14.50</b>	<b>0.44</b>	<b>36300</b>	<b>2.38</b>	<b>2.55</b>	<b>2.47</b>				<b>29</b>
Bell Rd	Cave Creek to 20th St	PDO	22	15	37							Angle	15	Light	37
		INJ	7	5	12							Left Turn	6	Dark	11
		FTL	0	0	0							B/P	1	Twilight	1
		<b>TOTAL</b>	<b>29</b>	<b>20</b>	<b>49</b>	<b>24.50</b>	<b>0.44</b>	<b>42000</b>	<b>4.27</b>	<b>2.94</b>	<b>3.61</b>				<b>49</b>
Bell Rd	7th Ave to Central	PDO	19	10	29							Angle	15	Light	31
		INJ	12	2	14							Left Turn	2	Dark	8
		FTL	0	0	0							B/P	1	Twilight	4
		<b>TOTAL</b>	<b>31</b>	<b>12</b>	<b>43</b>	<b>21.50</b>	<b>0.44</b>	<b>44000</b>	<b>4.36</b>	<b>1.69</b>	<b>3.02</b>				<b>43</b>
Bell Rd	35th Ave to 39th Ave	PDO	9	7	16							Angle	5	Light	15
		INJ	3	1	4							Left Turn	2	Dark	6
		FTL	0	1	1							B/P	1	Twilight	0
		<b>TOTAL</b>	<b>12</b>	<b>9</b>	<b>21</b>	<b>10.50</b>	<b>0.44</b>	<b>38000</b>	<b>1.95</b>	<b>1.46</b>	<b>1.71</b>				<b>21</b>
Bell Rd	43rd Ave to 51st Ave	PDO	18	7	25							Angle	18	Light	36
		INJ	9	15	24							Left Turn	3	Dark	14
		FTL	1	0	1							B/P	1	Twilight	0
		<b>TOTAL</b>	<b>28</b>	<b>22</b>	<b>50</b>	<b>25.00</b>	<b>0.94</b>	<b>40200</b>	<b>2.02</b>	<b>1.59</b>	<b>1.81</b>				<b>50</b>
Union Hills Dr	40th St to Tatum Blvd	PDO	3	3	6							Angle	4	Light	8
		INJ	4	3	7							Left Turn	0	Dark	3
		FTL	0	0	0							B/P	0	Twilight	2
		<b>TOTAL</b>	<b>7</b>	<b>6</b>	<b>13</b>	<b>6.50</b>	<b>0.94</b>	<b>15000</b>	<b>1.36</b>	<b>1.16</b>	<b>1.26</b>				<b>13</b>
Union Hills Dr	28th St to Cave Creek	PDO	11	4	15							Angle	5	Light	20
		INJ	7	5	12							Left Turn	1	Dark	5
		FTL	0	0	0							B/P	0	Twilight	2
		<b>TOTAL</b>	<b>18</b>	<b>9</b>	<b>27</b>	<b>13.50</b>	<b>0.44</b>	<b>26000</b>	<b>4.28</b>	<b>2.14</b>	<b>3.21</b>				<b>27</b>
Union Hills Dr	12th St to 7th St	PDO	8	4	12							Angle	7	Light	15
		INJ	6	2	8							Left Turn	1	Dark	5
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>14</b>	<b>6</b>	<b>20</b>	<b>10.00</b>	<b>0.44</b>	<b>24300</b>	<b>3.56</b>	<b>1.53</b>	<b>2.54</b>				<b>20</b>
Union Hills Dr	19th Ave to 15th Ave	PDO	3	9	12							Angle	7	Light	17
		INJ	2	6	8							Left Turn	2	Dark	3
		FTL	0	1	1							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>5</b>	<b>16</b>	<b>21</b>	<b>10.50</b>	<b>0.44</b>	<b>27000</b>	<b>1.14</b>	<b>3.66</b>	<b>2.40</b>				<b>21</b>

## Arterial Segments

2006-2007

Road	Segment	Type	Collision History				Rate Calculations				Characteristics				
			2006	2007	Total	Average (collisions/ yr)	Length (miles)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Union Hills Dr	35th Ave to 39th Ave	PDO	5	2	7							Angle	1	Light	6
		INJ	2	1	3							Left Turn	1	Dark	3
		FTL	0	0	0							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>7</b>	<b>3</b>	<b>10</b>	<b>5.00</b>	<b>0.44</b>	<b>29000</b>	<b>1.49</b>	<b>0.64</b>	<b>1.07</b>				<b>10</b>
Deer Valley Dr	31st Ave to 27th Ave	PDO	6	2	8							Angle	2	Light	9
		INJ	5	3	8							Left Turn	2	Dark	6
		FTL	0	1	1							B/P	0	Twilight	2
		<b>TOTAL</b>	<b>11</b>	<b>6</b>	<b>17</b>	<b>8.50</b>	<b>0.44</b>	<b>17000</b>	<b>4.00</b>	<b>2.18</b>	<b>3.09</b>				<b>17</b>
Deer Valley Dr	23rd Ave to 19th Ave	PDO	11	7	18							Angle	12	Light	25
		INJ	8	3	11							Left Turn	5	Dark	2
		FTL	0	0	0							B/P	0	Twilight	2
		<b>TOTAL</b>	<b>19</b>	<b>10</b>	<b>29</b>	<b>14.50</b>	<b>0.44</b>	<b>26200</b>	<b>4.48</b>	<b>2.36</b>	<b>3.42</b>				<b>29</b>
Pinnacle Peak Rd	51st Ave to 43rd Ave	PDO	1	1	2							Angle	0	Light	2
		INJ	1	0	1							Left Turn	0	Dark	1
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>1.50</b>	<b>0.94</b>	<b>14600</b>	<b>0.40</b>	<b>0.20</b>	<b>0.30</b>				<b>3</b>
Happy Valley Rd	51st Ave to 43rd Ave	PDO	3	6	9							Angle	3	Light	10
		INJ	2	3	5							Left Turn	0	Dark	4
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>5</b>	<b>9</b>	<b>14</b>	<b>7.00</b>	<b>0.94</b>	<b>18000</b>	<b>0.81</b>	<b>1.45</b>	<b>1.13</b>				<b>14</b>
64th St	Greenway to Thunderbird	PDO	2	5	7							Angle	9	Light	11
		INJ	2	5	7							Left Turn	0	Dark	3
		FTL	0	0	0							B/P	1	Twilight	0
		<b>TOTAL</b>	<b>4</b>	<b>10</b>	<b>14</b>	<b>7.00</b>	<b>0.94</b>	<b>14800</b>	<b>0.79</b>	<b>1.96</b>	<b>1.37</b>				<b>14</b>
56th St	Bell Rd to Paradise Ln	PDO	4	3	7							Angle	3	Light	9
		INJ	1	2	3							Left Turn	3	Dark	1
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5.00</b>	<b>0.44</b>	<b>17000</b>	<b>1.82</b>	<b>1.82</b>	<b>1.82</b>				<b>10</b>
56th St	Thunderbird to Sweetwater	PDO	1	2	3							Angle	0	Light	4
		INJ	1	0	1							Left Turn	0	Dark	0
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>2.00</b>	<b>0.44</b>	<b>15000</b>	<b>0.82</b>	<b>0.82</b>	<b>0.82</b>				<b>4</b>
Tatum Blvd	Greenway Rd to Acoma Dr	PDO	7	10	17							Angle	6	Light	15
		INJ	1	3	4							Left Turn	2	Dark	5
		FTL	0	0	0							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>8</b>	<b>13</b>	<b>21</b>	<b>10.50</b>	<b>0.44</b>	<b>35000</b>	<b>1.41</b>	<b>2.30</b>	<b>1.85</b>				<b>21</b>
Tatum Blvd	Acoma Dr to Thunderbird	PDO	5	0	5							Angle	0	Light	11
		INJ	3	4	7							Left Turn	1	Dark	0
		FTL	0	0	0							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>8</b>	<b>4</b>	<b>12</b>	<b>6.00</b>	<b>0.44</b>	<b>35000</b>	<b>1.41</b>	<b>0.71</b>	<b>1.06</b>				<b>12</b>
40th St	Bell Rd to Paradise Ln	PDO	2	8	10							Angle	9	Light	13
		INJ	2	2	4							Left Turn	1	Dark	0
		FTL	0	0	0							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>4</b>	<b>10</b>	<b>14</b>	<b>7.00</b>	<b>0.44</b>	<b>13500</b>	<b>1.83</b>	<b>4.58</b>	<b>3.21</b>				<b>14</b>

Appendix E

## Arterial Segments

2006-2007

Road	Segment	Type	Collision History				Rate Calculations				Characteristics				
			2006	2007	Total	Average (collisions/ yr)	Length (miles)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
40th St	Greenway Rd to Acoma Dr	PDO	1	3	4							Angle	4	Light	8
		INJ	1	4	5							Left Turn	2	Dark	1
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>2</b>	<b>7</b>	<b>9</b>	<b>4.50</b>	<b>0.44</b>	<b>16000</b>	<b>0.77</b>	<b>2.70</b>	<b>1.74</b>				<b>9</b>
40th St	Broadway to Roeser Rd	PDO	10	5	15							Angle	6	Light	20
		INJ	2	4	6							Left Turn	5	Dark	1
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>12</b>	<b>9</b>	<b>21</b>	<b>10.50</b>	<b>0.44</b>	<b>28000</b>	<b>2.65</b>	<b>1.99</b>	<b>2.32</b>				<b>21</b>
32nd St	Bell Rd to Paradise Ln	PDO	2	6	8							Angle	6	Light	12
		INJ	4	6	10							Left Turn	5	Dark	6
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>6</b>	<b>12</b>	<b>18</b>	<b>9.00</b>	<b>0.44</b>	<b>21000</b>	<b>1.77</b>	<b>3.53</b>	<b>2.65</b>				<b>18</b>
32nd St	Cactus Rd to Cholla St	PDO	2	5	7							Angle	7	Light	14
		INJ	5	4	9							Left Turn	2	Dark	2
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>7</b>	<b>9</b>	<b>16</b>	<b>8.00</b>	<b>0.44</b>	<b>17000</b>	<b>2.55</b>	<b>3.27</b>	<b>2.91</b>				<b>16</b>
32nd St	Campbell Ave to Indian Sch	PDO	5	8	13							Angle	5	Light	16
		INJ	3	1	4							Left Turn	2	Dark	1
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>8</b>	<b>9</b>	<b>17</b>	<b>8.50</b>	<b>0.44</b>	<b>25000</b>	<b>1.98</b>	<b>2.23</b>	<b>2.10</b>				<b>17</b>
32nd St	Osborn Rd to Thomas	PDO	20	23	43							Angle	19	Light	41
		INJ	5	8	13							Left Turn	12	Dark	11
		FTL	0	0	0							B/P	3	Twilight	4
		<b>TOTAL</b>	<b>25</b>	<b>31</b>	<b>56</b>	<b>28.00</b>	<b>0.44</b>	<b>29500</b>	<b>5.24</b>	<b>6.50</b>	<b>5.87</b>				<b>56</b>
Cave Creek	Union Hills Dr to Grovers A	PDO	12	4	16							Angle	6	Light	12
		INJ	6	6	12							Left Turn	2	Dark	10
		FTL	0	0	0							B/P	1	Twilight	6
		<b>TOTAL</b>	<b>18</b>	<b>10</b>	<b>28</b>	<b>14.00</b>	<b>0.44</b>	<b>29000</b>	<b>3.84</b>	<b>2.13</b>	<b>2.98</b>				<b>28</b>
Cave Creek	Sweetwater to Cactus	PDO	13	9	22							Angle	9	Light	25
		INJ	11	5	16							Left Turn	6	Dark	13
		FTL	0	0	0							B/P	1	Twilight	0
		<b>TOTAL</b>	<b>24</b>	<b>14</b>	<b>38</b>	<b>19.00</b>	<b>0.45</b>	<b>28500</b>	<b>5.12</b>	<b>2.99</b>	<b>4.05</b>				<b>38</b>
44th St	Camelback to Campbell Av	PDO	3	3	6							Angle	1	Light	8
		INJ	3	0	3							Left Turn	1	Dark	1
		FTL	0	0	0							B/P	1	Twilight	0
		<b>TOTAL</b>	<b>6</b>	<b>3</b>	<b>9</b>	<b>4.50</b>	<b>0.44</b>	<b>34000</b>	<b>1.09</b>	<b>0.55</b>	<b>0.82</b>				<b>9</b>
44th St	Osborn Rd to Thomas	PDO	23	15	38							Angle	9	Light	53
		INJ	10	9	19							Left Turn	11	Dark	3
		FTL	0	0	0							B/P	1	Twilight	1
		<b>TOTAL</b>	<b>33</b>	<b>24</b>	<b>57</b>	<b>28.50</b>	<b>0.44</b>	<b>41000</b>	<b>4.98</b>	<b>3.62</b>	<b>4.30</b>				<b>57</b>
24th St	Campbell Ave to Indian Sch	PDO	8	4	12							Angle	6	Light	14
		INJ	1	2	3							Left Turn	2	Dark	1
		FTL	0	0	0							B/P	1	Twilight	0
		<b>TOTAL</b>	<b>9</b>	<b>6</b>	<b>15</b>	<b>7.50</b>	<b>0.44</b>	<b>25700</b>	<b>2.16</b>	<b>1.44</b>	<b>1.80</b>				<b>15</b>

Appendix E

## Arterial Segments

2006-2007

Road	Segment	Type	Collision History				Rate Calculations				Characteristics				
			2006	2007	Total	Average (collisions/ yr)	Length (miles)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
24th St	Oak St to McDowell Rd	PDO	13	11	24							Angle	7	Light	25
		INJ	8	5	13							Left Turn	8	Dark	9
		FTL	0	0	0							B/P	1	Twilight	3
		<b>TOTAL</b>	<b>21</b>	<b>16</b>	<b>37</b>	<b>18.50</b>	<b>0.44</b>	<b>31000</b>	<b>4.19</b>	<b>3.19</b>	<b>3.69</b>				<b>37</b>
24th St	Broadway to University	PDO	16	11	27							Angle	12	Light	26
		INJ	8	4	12							Left Turn	3	Dark	12
		FTL	1	0	1							B/P	0	Twilight	2
		<b>TOTAL</b>	<b>25</b>	<b>15</b>	<b>40</b>	<b>20.00</b>	<b>1.13</b>	<b>20000</b>	<b>3.04</b>	<b>1.82</b>	<b>2.43</b>				<b>40</b>
16th St	Bell Rd to Union Hills Dr	PDO	0	5	5							Angle	2	Light	4
		INJ	2	0	2							Left Turn	0	Dark	2
		FTL	0	0	0							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>2</b>	<b>5</b>	<b>7</b>	<b>3.50</b>	<b>0.94</b>	<b>5100</b>	<b>1.14</b>	<b>2.85</b>	<b>1.99</b>				<b>7</b>
16th St	Glendale Ave to Maryland	PDO	6	1	7							Angle	5	Light	11
		INJ	2	3	5							Left Turn	1	Dark	0
		FTL	0	1	1							B/P	2	Twilight	2
		<b>TOTAL</b>	<b>8</b>	<b>5</b>	<b>13</b>	<b>6.50</b>	<b>0.44</b>	<b>21600</b>	<b>2.29</b>	<b>1.43</b>	<b>1.86</b>				<b>13</b>
16th St	Campbell Ave to Indian Sch	PDO	6	6	12							Angle	3	Light	17
		INJ	2	9	11							Left Turn	3	Dark	6
		FTL	0	1	1							B/P	3	Twilight	1
		<b>TOTAL</b>	<b>8</b>	<b>16</b>	<b>24</b>	<b>12.00</b>	<b>0.44</b>	<b>24500</b>	<b>2.02</b>	<b>4.04</b>	<b>3.03</b>				<b>24</b>
16th St	Thomas to Oak St	PDO	24	19	43							Angle	21	Light	52
		INJ	10	10	20							Left Turn	4	Dark	10
		FTL	0	0	0							B/P	1	Twilight	1
		<b>TOTAL</b>	<b>34</b>	<b>29</b>	<b>63</b>	<b>31.50</b>	<b>0.44</b>	<b>30500</b>	<b>6.89</b>	<b>5.88</b>	<b>6.38</b>				<b>63</b>
16th St	Broadway to Roeser Rd	PDO	4	4	8							Angle	4	Light	16
		INJ	7	5	12							Left Turn	2	Dark	5
		FTL	0	1	1							B/P	1	Twilight	0
		<b>TOTAL</b>	<b>11</b>	<b>10</b>	<b>21</b>	<b>10.50</b>	<b>0.44</b>	<b>29600</b>	<b>2.30</b>	<b>2.09</b>	<b>2.19</b>				<b>21</b>
7th St	Utopia Rd to Union Hills Dr	PDO	2	3	5							Angle	3	Light	5
		INJ	2	1	3							Left Turn	0	Dark	3
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>4.00</b>	<b>0.44</b>	<b>39100</b>	<b>0.63</b>	<b>0.63</b>	<b>0.63</b>				<b>8</b>
7th St	Grovers Ave to Bell Rd	PDO	11	11	22							Angle	8	Light	25
		INJ	8	3	11							Left Turn	1	Dark	6
		FTL	0	0	0							B/P	1	Twilight	2
		<b>TOTAL</b>	<b>19</b>	<b>14</b>	<b>33</b>	<b>16.50</b>	<b>0.44</b>	<b>32200</b>	<b>3.65</b>	<b>2.69</b>	<b>3.17</b>				<b>33</b>
7th St	Missouri Ave to Camelback	PDO	22	29	51							Angle	16	Light	69
		INJ	12	15	27							Left Turn	11	Dark	7
		FTL	0	1	1							B/P	2	Twilight	3
		<b>TOTAL</b>	<b>34</b>	<b>45</b>	<b>79</b>	<b>39.50</b>	<b>0.44</b>	<b>38000</b>	<b>5.53</b>	<b>7.32</b>	<b>6.43</b>				<b>79</b>
7th St	Glendale Ave to Maryland	PDO	12	5	17							Angle	1	Light	19
		INJ	3	4	7							Left Turn	0	Dark	4
		FTL	0	0	0							B/P	3	Twilight	1
		<b>TOTAL</b>	<b>15</b>	<b>9</b>	<b>24</b>	<b>12.00</b>	<b>0.44</b>	<b>28000</b>	<b>3.31</b>	<b>1.99</b>	<b>2.65</b>				<b>24</b>

## Arterial Segments

2006-2007

Road	Segment	Type	Collision History				Rate Calculations				Characteristics				
			2006	2007	Total	Average (collisions/ yr)	Length (miles)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
7th St	Bethany Home Rd to Missoula Rd	PDO	26	17	43							Angle	12	Light	67
		INJ	18	16	34							Left Turn	5	Dark	8
		FTL	0	0	0							B/P	4	Twilight	2
		<b>TOTAL</b>	<b>44</b>	<b>33</b>	<b>77</b>	<b>38.50</b>	<b>0.44</b>	<b>31000</b>	<b>8.77</b>	<b>6.58</b>	<b>7.68</b>				<b>77</b>
7th St	Indian School to Osborn Rd	PDO	33	32	65							Angle	32	Light	76
		INJ	15	12	27							Left Turn	6	Dark	10
		FTL	0	0	0							B/P	1	Twilight	6
		<b>TOTAL</b>	<b>48</b>	<b>44</b>	<b>92</b>	<b>46.00</b>	<b>0.44</b>	<b>30000</b>	<b>9.89</b>	<b>9.07</b>	<b>9.48</b>				<b>92</b>
7th St	Broadway Rd to Roeser Rd	PDO	6	7	13							Angle	4	Light	12
		INJ	2	3	5							Left Turn	4	Dark	7
		FTL	1	0	1							B/P	2	Twilight	0
		<b>TOTAL</b>	<b>9</b>	<b>10</b>	<b>19</b>	<b>9.50</b>	<b>0.44</b>	<b>22000</b>	<b>2.53</b>	<b>2.81</b>	<b>2.67</b>				<b>19</b>
7th St	Southern to Vineyard Dr	PDO	4	1	5							Angle	1	Light	9
		INJ	1	5	6							Left Turn	3	Dark	2
		FTL	0	0	0							B/P	1	Twilight	0
		<b>TOTAL</b>	<b>5</b>	<b>6</b>	<b>11</b>	<b>5.50</b>	<b>0.44</b>	<b>18400</b>	<b>1.68</b>	<b>2.02</b>	<b>1.85</b>				<b>11</b>
Central	Glendale to Maryland Ave	PDO	4	1	5							Angle	0	Light	6
		INJ	2	2	4							Left Turn	0	Dark	3
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>6</b>	<b>3</b>	<b>9</b>	<b>4.50</b>	<b>0.44</b>	<b>26500</b>	<b>1.40</b>	<b>0.70</b>	<b>1.05</b>				<b>9</b>
Central	Broadway Rd to Roeser Rd	PDO	9	5	14							Angle	3	Light	21
		INJ	8	5	13							Left Turn	2	Dark	4
		FTL	0	0	0							B/P	0	Twilight	2
		<b>TOTAL</b>	<b>17</b>	<b>10</b>	<b>27</b>	<b>13.50</b>	<b>0.44</b>	<b>25000</b>	<b>4.20</b>	<b>2.47</b>	<b>3.34</b>				<b>27</b>
7th Ave	Union Hills Dr to Grovers Ave	PDO	3	3	6							Angle	3	Light	6
		INJ	0	2	2							Left Turn	1	Dark	2
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>3</b>	<b>5</b>	<b>8</b>	<b>4.00</b>	<b>0.44</b>	<b>17500</b>	<b>1.06</b>	<b>1.77</b>	<b>1.41</b>				<b>8</b>
7th Ave	Dunlap Rd to Butler Dr	PDO	2	2	4							Angle	1	Light	3
		INJ	0	0	0							Left Turn	0	Dark	1
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>2.00</b>	<b>0.44</b>	<b>15000</b>	<b>0.82</b>	<b>0.82</b>	<b>0.82</b>				<b>4</b>
7th Ave	Glendale Ave to Maryland Ave	PDO	5	3	8							Angle	1	Light	12
		INJ	3	1	4							Left Turn	0	Dark	0
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>8</b>	<b>4</b>	<b>12</b>	<b>6.00</b>	<b>0.44</b>	<b>20141</b>	<b>2.46</b>	<b>1.23</b>	<b>1.84</b>				<b>12</b>
7th Ave	Indian School Rd to Osborn Rd	PDO	19	24	43							Angle	15	Light	55
		INJ	9	12	21							Left Turn	4	Dark	4
		FTL	1	0	1							B/P	6	Twilight	6
		<b>TOTAL</b>	<b>29</b>	<b>36</b>	<b>65</b>	<b>32.50</b>	<b>0.44</b>	<b>36000</b>	<b>4.98</b>	<b>6.18</b>	<b>5.58</b>				<b>65</b>
19th Ave	Deer Valley to Rose Garden	PDO	4	1	5							Angle	3	Light	11
		INJ	3	3	6							Left Turn	1	Dark	0
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>7</b>	<b>4</b>	<b>11</b>	<b>5.50</b>	<b>0.44</b>	<b>25500</b>	<b>1.70</b>	<b>0.97</b>	<b>1.33</b>				<b>11</b>

Appendix E

## Arterial Segments

2006-2007

Road	Segment	Type	Collision History				Rate Calculations				Characteristics				
			2006	2007	Total	Average (collisions/ yr)	Length (miles)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
19th Ave	Grovers Ave to Bell Rd	PDO	9	4	13							Angle	11	Light	21
		INJ	10	9	19							Left Turn	7	Dark	10
		FTL	1	0	1							B/P	3	Twilight	2
		<b>TOTAL</b>	<b>20</b>	<b>13</b>	<b>33</b>	<b>16.50</b>	<b>0.44</b>	<b>26800</b>	<b>4.61</b>	<b>3.00</b>	<b>3.81</b>				<b>33</b>
19th Ave	Peoria Ave to Mountain Vie	PDO	19	13	32							Angle	15	Light	31
		INJ	7	6	13							Left Turn	7	Dark	12
		FTL	0	0	0							B/P	0	Twilight	2
		<b>TOTAL</b>	<b>26</b>	<b>19</b>	<b>45</b>	<b>22.50</b>	<b>0.44</b>	<b>38800</b>	<b>4.14</b>	<b>3.03</b>	<b>3.58</b>				<b>45</b>
19th Ave	Osborn Rd to Thomas	PDO	6	10	16							Angle	5	Light	14
		INJ	3	1	4							Left Turn	0	Dark	6
		FTL	0	0	0							B/P	1	Twilight	0
		<b>TOTAL</b>	<b>9</b>	<b>11</b>	<b>20</b>	<b>10.00</b>	<b>0.44</b>	<b>19284</b>	<b>2.89</b>	<b>3.53</b>	<b>3.21</b>				<b>20</b>
19th Ave	Lower Buckeye to Broadwa	PDO	12	7	19							Angle	4	Light	19
		INJ	9	6	15							Left Turn	0	Dark	12
		FTL	0	0	0							B/P	0	Twilight	3
		<b>TOTAL</b>	<b>21</b>	<b>13</b>	<b>34</b>	<b>17.00</b>	<b>0.94</b>	<b>32800</b>	<b>1.86</b>	<b>1.15</b>	<b>1.51</b>				<b>34</b>
27th Ave	Maryland to Bethany Home	PDO	6	5	11							Angle	1	Light	12
		INJ	5	4	9							Left Turn	1	Dark	8
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>11</b>	<b>9</b>	<b>20</b>	<b>10.00</b>	<b>0.44</b>	<b>23100</b>	<b>2.94</b>	<b>2.41</b>	<b>2.68</b>				<b>20</b>
27th Ave	Missouri Ave to Camelback	PDO	10	16	26							Angle	10	Light	31
		INJ	11	6	17							Left Turn	6	Dark	8
		FTL	0	0	0							B/P	4	Twilight	4
		<b>TOTAL</b>	<b>21</b>	<b>22</b>	<b>43</b>	<b>21.50</b>	<b>0.44</b>	<b>24000</b>	<b>5.41</b>	<b>5.67</b>	<b>5.54</b>				<b>43</b>
35th Ave	Yorkshire Dr to Union Hills	PDO	3	4	7							Angle	2	Light	7
		INJ	5	2	7							Left Turn	1	Dark	4
		FTL	0	0	0							B/P	1	Twilight	3
		<b>TOTAL</b>	<b>8</b>	<b>6</b>	<b>14</b>	<b>7.00</b>	<b>0.44</b>	<b>32000</b>	<b>1.55</b>	<b>1.16</b>	<b>1.35</b>				<b>14</b>
35th Ave	Paradise Ln to Greenway R	PDO	11	10	21							Angle	7	Light	29
		INJ	9	8	17							Left Turn	1	Dark	7
		FTL	0	0	0							B/P	1	Twilight	2
		<b>TOTAL</b>	<b>20</b>	<b>18</b>	<b>38</b>	<b>19.00</b>	<b>0.44</b>	<b>30000</b>	<b>4.12</b>	<b>3.71</b>	<b>3.92</b>				<b>38</b>
35th Ave	Thunderbird to Sweetwater	PDO	4	12	16							Angle	9	Light	16
		INJ	3	2	5							Left Turn	5	Dark	5
		FTL	0	0	0							B/P	2	Twilight	0
		<b>TOTAL</b>	<b>7</b>	<b>14</b>	<b>21</b>	<b>10.50</b>	<b>0.44</b>	<b>33000</b>	<b>1.31</b>	<b>2.62</b>	<b>1.97</b>				<b>21</b>
35th Ave	Dunlap Rd to Butler Dr	PDO	10	11	21							Angle	9	Light	31
		INJ	9	10	19							Left Turn	4	Dark	9
		FTL	0	1	1							B/P	4	Twilight	1
		<b>TOTAL</b>	<b>19</b>	<b>22</b>	<b>41</b>	<b>20.50</b>	<b>0.44</b>	<b>36000</b>	<b>3.26</b>	<b>3.78</b>	<b>3.52</b>				<b>41</b>
35th Ave	Bethany Home Rd to Misso	PDO	10	10	20							Angle	5	Light	23
		INJ	9	2	11							Left Turn	1	Dark	8
		FTL	0	0	0							B/P	1	Twilight	0
		<b>TOTAL</b>	<b>19</b>	<b>12</b>	<b>31</b>	<b>15.50</b>	<b>0.44</b>	<b>31000</b>	<b>3.79</b>	<b>2.39</b>	<b>3.09</b>				<b>31</b>

Appendix E

## Arterial Segments

2006-2007

Road	Segment	Type	Collision History				Rate Calculations				Characteristics				
			2006	2007	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
35th Ave	Encanto to McDowell Rd	PDO	15	14	29							Angle	5	Light	25
		INJ	4	6	10							Left Turn	3	Dark	10
		FTL	0	0	0							B/P	1	Twilight	4
		<b>TOTAL</b>	<b>19</b>	<b>20</b>	<b>39</b>	<b>19.50</b>	<b>0.44</b>	<b>32800</b>	<b>3.58</b>	<b>3.77</b>	<b>3.68</b>				<b>39</b>
35th Ave	Buckeye to Durango	PDO	15	11	26							Angle	19	Light	30
		INJ	8	4	12							Left Turn	3	Dark	6
		FTL	0	0	0							B/P	1	Twilight	2
		<b>TOTAL</b>	<b>23</b>	<b>15</b>	<b>38</b>	<b>19.00</b>	<b>0.44</b>	<b>20800</b>	<b>6.84</b>	<b>4.46</b>	<b>5.65</b>				<b>38</b>
35th Ave	Lower Buckeye to Broadwater	PDO	9	13	22							Angle	4	Light	31
		INJ	9	15	24							Left Turn	2	Dark	13
		FTL	0	0	0							B/P	0	Twilight	2
		<b>TOTAL</b>	<b>18</b>	<b>28</b>	<b>46</b>	<b>23.00</b>	<b>0.94</b>	<b>19900</b>	<b>2.63</b>	<b>4.09</b>	<b>3.36</b>				<b>46</b>
43rd Ave	Paradise Ln to Greenway Pkwy	PDO	0	2	2							Angle	0	Light	2
		INJ	1	1	2							Left Turn	1	Dark	1
		FTL	0	0	0							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>2.00</b>	<b>0.44</b>	<b>22500</b>	<b>0.27</b>	<b>0.82</b>	<b>0.55</b>				<b>4</b>
43rd Ave	Thunderbird to Sweetwater	PDO	10	7	17							Angle	7	Light	15
		INJ	2	0	2							Left Turn	0	Dark	4
		FTL	0	1	1							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>12</b>	<b>8</b>	<b>20</b>	<b>10.00</b>	<b>0.44</b>	<b>29500</b>	<b>2.51</b>	<b>1.68</b>	<b>2.10</b>				<b>20</b>
43rd Ave	Cactus Rd to Cholla St	PDO	3	6	9							Angle	5	Light	11
		INJ	5	5	10							Left Turn	1	Dark	3
		FTL	0	0	0							B/P	2	Twilight	5
		<b>TOTAL</b>	<b>8</b>	<b>11</b>	<b>19</b>	<b>9.50</b>	<b>0.44</b>	<b>32500</b>	<b>1.52</b>	<b>2.09</b>	<b>1.81</b>				<b>19</b>
43rd Ave	Indian School Rd to Osborn	PDO	25	21	46							Angle	22	Light	46
		INJ	8	10	18							Left Turn	6	Dark	14
		FTL	1	0	1							B/P	3	Twilight	5
		<b>TOTAL</b>	<b>34</b>	<b>31</b>	<b>65</b>	<b>32.50</b>	<b>0.44</b>	<b>40600</b>	<b>5.18</b>	<b>4.72</b>	<b>4.95</b>				<b>65</b>
43rd Ave	Roosevelt to Van Buren	PDO	4	7	11							Angle	7	Light	13
		INJ	7	0	7							Left Turn	0	Dark	2
		FTL	0	0	0							B/P	0	Twilight	3
		<b>TOTAL</b>	<b>11</b>	<b>7</b>	<b>18</b>	<b>9.00</b>	<b>0.44</b>	<b>29000</b>	<b>2.34</b>	<b>1.49</b>	<b>1.92</b>				<b>18</b>
51st Ave	Indian School Rd to Osborn	PDO	29	34	63							Angle	14	Light	71
		INJ	7	15	22							Left Turn	46	Dark	7
		FTL	0	0	0							B/P	1	Twilight	7
		<b>TOTAL</b>	<b>36</b>	<b>49</b>	<b>85</b>	<b>42.50</b>	<b>0.44</b>	<b>37000</b>	<b>6.01</b>	<b>8.19</b>	<b>7.10</b>				<b>85</b>
51st Ave	Roosevelt to Van Buren	PDO	7	8	15							Angle	3	Light	13
		INJ	1	1	2							Left Turn	0	Dark	3
		FTL	0	0	0							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>8</b>	<b>9</b>	<b>17</b>	<b>8.50</b>	<b>0.44</b>	<b>47700</b>	<b>1.04</b>	<b>1.17</b>	<b>1.10</b>				<b>17</b>
51st Ave	Van Buren to Buckeye	PDO	11	17	28							Angle	2	Light	26
		INJ	2	4	6							Left Turn	0	Dark	6
		FTL	0	0	0							B/P	1	Twilight	2
		<b>TOTAL</b>	<b>13</b>	<b>21</b>	<b>34</b>	<b>17.00</b>	<b>0.94</b>	<b>31000</b>	<b>1.22</b>	<b>1.97</b>	<b>1.59</b>				<b>34</b>

Appendix E

## Arterial Segments

2006-2007

Road	Segment	Type	Collision History				Rate Calculations				Characteristics				
			2006	2007	Total	Average (collisions/ yr)	Length (miles)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
59th Ave	Thomas Rd to Encanto	PDO	4	8	12							Angle	3	Light	11
		INJ	1	3	4							Left Turn	2	Dark	2
		FTL	1	0	1							B/P	2	Twilight	4
		<b>TOTAL</b>	<b>6</b>	<b>11</b>	<b>17</b>	<b>8.50</b>	<b>0.44</b>	<b>36100</b>	<b>1.03</b>	<b>1.88</b>	<b>1.46</b>				<b>17</b>
59th Ave	Indian School to Campbell	PDO	3	7	10							Angle	5	Light	12
		INJ	4	3	7							Left Turn	0	Dark	5
		FTL	0	0	0							B/P	1	Twilight	0
		<b>TOTAL</b>	<b>7</b>	<b>10</b>	<b>17</b>	<b>8.50</b>	<b>0.44</b>	<b>30500</b>	<b>1.42</b>	<b>2.03</b>	<b>1.72</b>				<b>17</b>
67th Ave	Indian School Rd to Osborn	PDO	8	11	19							Angle	10	Light	20
		INJ	8	7	15							Left Turn	5	Dark	10
		FTL	0	0	0							B/P	1	Twilight	4
		<b>TOTAL</b>	<b>16</b>	<b>18</b>	<b>34</b>	<b>17.00</b>	<b>0.44</b>	<b>40200</b>	<b>2.46</b>	<b>2.77</b>	<b>2.61</b>				<b>34</b>
67th Ave	Thomas Rd to Encanto	PDO	9	10	19							Angle	7	Light	19
		INJ	8	3	11							Left Turn	6	Dark	7
		FTL	0	0	0							B/P	1	Twilight	4
		<b>TOTAL</b>	<b>17</b>	<b>13</b>	<b>30</b>	<b>15.00</b>	<b>0.44</b>	<b>40100</b>	<b>2.62</b>	<b>2.00</b>	<b>2.31</b>				<b>30</b>
67th Ave	Van Buren to Buckeye	PDO	9	15	24							Angle	2	Light	27
		INJ	4	5	9							Left Turn	1	Dark	5
		FTL	0	0	0							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>13</b>	<b>20</b>	<b>33</b>	<b>16.50</b>	<b>0.94</b>	<b>20700</b>	<b>1.82</b>	<b>2.81</b>	<b>2.32</b>				<b>33</b>
75th Ave	Indian School Rd to Osborn	PDO	8	6	14							Angle	7	Light	15
		INJ	3	1	4							Left Turn	1	Dark	3
		FTL	0	0	0							B/P	1	Twilight	0
		<b>TOTAL</b>	<b>11</b>	<b>7</b>	<b>18</b>	<b>9.00</b>	<b>0.44</b>	<b>21700</b>	<b>3.13</b>	<b>1.99</b>	<b>2.56</b>				<b>18</b>
83rd Ave	Osborn Rd to Thomas	PDO	11	4	15							Angle	3	Light	8
		INJ	2	0	2							Left Turn	0	Dark	8
		FTL	1	0	1							B/P	1	Twilight	2
		<b>TOTAL</b>	<b>14</b>	<b>4</b>	<b>18</b>	<b>9.00</b>	<b>0.44</b>	<b>30600</b>	<b>2.83</b>	<b>0.81</b>	<b>1.82</b>				<b>18</b>
83rd Ave	Encanto to McDowell Rd	PDO	8	7	15							Angle	10	Light	10
		INJ	3	5	8							Left Turn	0	Dark	13
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>11</b>	<b>12</b>	<b>23</b>	<b>11.50</b>	<b>0.44</b>	<b>31000</b>	<b>2.19</b>	<b>2.39</b>	<b>2.29</b>				<b>23</b>
48th St	Chandler Blvd to Thistle Ln	PDO	4	3	7							Angle	1	Light	6
		INJ	0	0	0							Left Turn	1	Dark	1
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>4</b>	<b>3</b>	<b>7</b>	<b>3.50</b>	<b>0.44</b>	<b>38100</b>	<b>0.65</b>	<b>0.49</b>	<b>0.57</b>				<b>7</b>
Chandler Blvd	44th St to 40th St	PDO	12	5	17							Angle	7	Light	18
		INJ	2	6	8							Left Turn	2	Dark	7
		FTL	0	0	0							B/P	2	Twilight	0
		<b>TOTAL</b>	<b>14</b>	<b>11</b>	<b>25</b>	<b>12.50</b>	<b>0.44</b>	<b>35800</b>	<b>2.42</b>	<b>1.90</b>	<b>2.16</b>				<b>25</b>

Appendix E

2008-2010

Road	Segment	Type	Collision History					Rate Calculations					Characteristics				
			2008	2009	2010	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
Southern	32nd to 40th st	PDO	7	4	3	14								Angle	4	Light	26
		INJ	4	5	3	12								Left Turn	0	Dark	1
		FTL	0	0	1	1								B/P	1	Twilight	0
		<b>TOTAL</b>	<b>11</b>	<b>9</b>	<b>7</b>	<b>27</b>	<b>9.00</b>	<b>0.94</b>	<b>21868</b>	<b>1.46</b>	<b>1.20</b>	<b>0.93</b>	<b>1.20</b>				<b>27</b>
Southern	7th st to 16th St	PDO	12	10	5	27								Angle	10	Light	37
		INJ	7	6	3	16								Left Turn	3	Dark	7
		FTL	1	0	0	1								B/P	2	Twilight	0
		<b>TOTAL</b>	<b>20</b>	<b>16</b>	<b>8</b>	<b>44</b>	<b>14.67</b>	<b>0.95</b>	<b>26684</b>	<b>2.17</b>	<b>1.73</b>	<b>0.87</b>	<b>1.59</b>				<b>44</b>
Broadway	7th Ave to Central	PDO	6	4	1	11								Angle	5	Light	12
		INJ	1	3	0	4								Left Turn	1	Dark	4
		FTL	0	0	1	1								B/P	1	Twilight	0
		<b>TOTAL</b>	<b>7</b>	<b>7</b>	<b>2</b>	<b>16</b>	<b>5.33</b>	<b>0.44</b>	<b>18517</b>	<b>2.34</b>	<b>2.34</b>	<b>0.67</b>	<b>1.78</b>				<b>16</b>
Broadway	Central to 7th St	PDO	7	4	4	15								Angle	13	Light	26
		INJ	10	5	2	17								Left Turn	2	Dark	6
		FTL	0	0	0	0								B/P	2	Twilight	
		<b>TOTAL</b>	<b>17</b>	<b>9</b>	<b>6</b>	<b>32</b>	<b>10.67</b>	<b>0.44</b>	<b>24205</b>	<b>4.34</b>	<b>2.30</b>	<b>1.53</b>	<b>2.72</b>				<b>32</b>
Buckeye	35th Ave to 27th Ave	PDO	12	7	8	27								Angle	6	Light	34
		INJ	5	3	7	15								Left Turn	4	Dark	5
		FTL	0	0	0	0								B/P	2	Twilight	3
		<b>TOTAL</b>	<b>17</b>	<b>10</b>	<b>15</b>	<b>42</b>	<b>14.00</b>	<b>0.94</b>	<b>29427</b>	<b>1.68</b>	<b>0.99</b>	<b>1.48</b>	<b>1.38</b>				<b>42</b>
Buckeye	51st Ave to 43rd Ave	PDO	2	1	1	4								Angle	2	Light	7
		INJ	0	2	2	4								Left Turn	2	Dark	1
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>8</b>	<b>2.67</b>	<b>0.94</b>	<b>22072</b>	<b>0.26</b>	<b>0.39</b>	<b>0.39</b>	<b>0.35</b>				<b>8</b>
Buckeye	59th Ave to 67th Ave	PDO	12	4	6	22								Angle	1	Light	22
		INJ	3	9	5	17								Left Turn	0	Dark	11
		FTL	0	0	1	1								B/P	0	Twilight	7
		<b>TOTAL</b>	<b>15</b>	<b>13</b>	<b>12</b>	<b>40</b>	<b>13.33</b>	<b>0.94</b>	<b>25908</b>	<b>1.68</b>	<b>1.46</b>	<b>1.35</b>	<b>1.49</b>				<b>40</b>
Baseline	19th Ave to 27th Ave	PDO	10	5	8	23								Angle	4	Light	28
		INJ	4	1	6	11								Left Turn	1	Dark	5
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>14</b>	<b>6</b>	<b>14</b>	<b>34</b>	<b>11.33</b>	<b>0.94</b>	<b>34047</b>	<b>1.19</b>	<b>0.51</b>	<b>1.19</b>	<b>0.97</b>				<b>34</b>
Lower Buckeye	35th Ave to 27th Ave	PDO	4	2	3	9								Angle	3	Light	7
		INJ	0	2	1	3								Left Turn	0	Dark	3
		FTL	0	0	0	0								B/P	0	Twilight	2
		<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>12</b>	<b>4.00</b>	<b>0.94</b>	<b>16406</b>	<b>0.71</b>	<b>0.71</b>	<b>0.71</b>	<b>0.71</b>				<b>12</b>
Lower Buckeye	43rd Ave to 51st Ave	PDO	2	1	3	6								Angle	1	Light	9
		INJ	3	1	1	5								Left Turn	0	Dark	1
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>5</b>	<b>2</b>	<b>4</b>	<b>11</b>	<b>3.67</b>	<b>0.94</b>	<b>17151</b>	<b>0.85</b>	<b>0.34</b>	<b>0.68</b>	<b>0.62</b>				<b>11</b>
Van Buren	24th St to 28th St	PDO	6	2	4	12								Angle	3	Light	18
		INJ	3	4	2	9								Left Turn	2	Dark	3
		FTL	0	0	0	0								B/P	1	Twilight	0
		<b>TOTAL</b>	<b>9</b>	<b>6</b>	<b>6</b>	<b>21</b>	<b>7.00</b>	<b>0.44</b>	<b>16569</b>	<b>3.36</b>	<b>2.24</b>	<b>2.24</b>	<b>2.61</b>				<b>21</b>
Van Buren	28th St to 32nd St	PDO	4	1	2	7								Angle	8	Light	11
		INJ	4	4	3	11								Left Turn	1	Dark	7
		FTL	0	0	0	0								B/P	1	Twilight	0
		<b>TOTAL</b>	<b>8</b>	<b>5</b>	<b>5</b>	<b>18</b>	<b>6.00</b>	<b>0.44</b>	<b>15274</b>	<b>3.24</b>	<b>2.02</b>	<b>2.02</b>	<b>2.43</b>				<b>18</b>
Van Buren	43rd Ave to 35th Ave	PDO	12	8	8	28								Angle	16	Light	34
		INJ	5	6	5	16								Left Turn	4	Dark	8
		FTL	0	0	0	0								B/P	1	Twilight	2
		<b>TOTAL</b>	<b>17</b>	<b>14</b>	<b>13</b>	<b>44</b>	<b>14.67</b>	<b>0.94</b>	<b>22062</b>	<b>2.24</b>	<b>1.84</b>	<b>1.71</b>	<b>1.93</b>				<b>44</b>

Appendix E

2008-2010

Road	Segment	Type	Collision History					Rate Calculations					Characteristics				
			2008	2009	2010	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
Van Buren	67th Ave to 59th Ave	PDO	2	1	3	6								Angle	3	Light	9
		INJ	2	2	1	5								Left Turn	2	Dark	2
		FTL	0	0	0	0								B/P	1	Twilight	0
		<b>TOTAL</b>	<b>4</b>	<b>3</b>	<b>4</b>	<b>11</b>	<b>3.67</b>	<b>0.94</b>	<b>14160</b>	<b>0.82</b>	<b>0.62</b>	<b>0.82</b>	<b>0.75</b>				<b>11</b>
Van Buren	32nd St to 40th St	PDO	8	5	6	19								Angle	6	Light	15
		INJ	3	2	1	6								Left Turn	1	Dark	7
		FTL	0	0	0	0								B/P	1	Twilight	3
		<b>TOTAL</b>	<b>11</b>	<b>7</b>	<b>7</b>	<b>25</b>	<b>8.33</b>	<b>0.94</b>	<b>14914</b>	<b>2.14</b>	<b>1.36</b>	<b>1.36</b>	<b>1.62</b>				<b>25</b>
Van Buren	31st Ave to 35th Ave	PDO	10	12	5	27								Angle	7	Light	33
		INJ	6	8	6	20								Left Turn	5	Dark	12
		FTL	0	0	0	0								B/P	5	Twilight	2
		<b>TOTAL</b>	<b>16</b>	<b>20</b>	<b>11</b>	<b>47</b>	<b>15.67</b>	<b>0.44</b>	<b>26157</b>	<b>3.78</b>	<b>4.73</b>	<b>2.60</b>	<b>3.70</b>				<b>47</b>
McDowell	24th St to 28th St	PDO	8	10	5	23								Angle	12	Light	35
		INJ	8	7	5	20								Left Turn	5	Dark	8
		FTL	0	0	1	1								B/P	4	Twilight	1
		<b>TOTAL</b>	<b>16</b>	<b>17</b>	<b>11</b>	<b>44</b>	<b>14.67</b>	<b>0.44</b>	<b>28238</b>	<b>3.50</b>	<b>3.72</b>	<b>2.41</b>	<b>3.21</b>				<b>44</b>
McDowell	28th St to 32nd St	PDO	5	4	5	14								Angle	9	Light	17
		INJ	4	5	0	9								Left Turn	4	Dark	5
		FTL	0	0	0	0								B/P	1	Twilight	1
		<b>TOTAL</b>	<b>9</b>	<b>9</b>	<b>5</b>	<b>23</b>	<b>7.67</b>	<b>0.44</b>	<b>28454</b>	<b>1.96</b>	<b>1.96</b>	<b>1.09</b>	<b>1.67</b>				<b>23</b>
McDowell	35th Ave to 31st Ave	PDO	11	4	1	16								Angle	6	Light	21
		INJ	7	1	2	10								Left Turn	5	Dark	3
		FTL	0	0	0	0								B/P	2	Twilight	2
		<b>TOTAL</b>	<b>18</b>	<b>5</b>	<b>3</b>	<b>26</b>	<b>8.67</b>	<b>0.44</b>	<b>26937</b>	<b>4.13</b>	<b>1.15</b>	<b>0.69</b>	<b>1.99</b>				<b>26</b>
McDowell	59th Ave to 67th Ave	PDO	16	18	12	46								Angle	25	Light	58
		INJ	9	10	9	28								Left Turn	13	Dark	16
		FTL	1	0	0	1								B/P	2	Twilight	1
		<b>TOTAL</b>	<b>26</b>	<b>28</b>	<b>21</b>	<b>75</b>	<b>25.00</b>	<b>0.94</b>	<b>27123</b>	<b>2.78</b>	<b>3.00</b>	<b>2.25</b>	<b>2.68</b>				<b>75</b>
McDowell	40th St to 44th St	PDO	10	9	17	36								Angle	15	Light	31
		INJ	4	8	4	16								Left Turn	2	Dark	22
		FTL	1	0	0	1								B/P	4	Twilight	0
		<b>TOTAL</b>	<b>15</b>	<b>17</b>	<b>21</b>	<b>53</b>	<b>17.67</b>	<b>0.44</b>	<b>30628</b>	<b>3.03</b>	<b>3.43</b>	<b>4.24</b>	<b>3.57</b>				<b>53</b>
McDowell	67th Ave to 71st Ave	PDO	7	3	6	16								Angle	6	Light	15
		INJ	4	1	5	10								Left Turn	1	Dark	7
		FTL	0	0	0	0								B/P	0	Twilight	4
		<b>TOTAL</b>	<b>11</b>	<b>4</b>	<b>11</b>	<b>26</b>	<b>8.67</b>	<b>0.44</b>	<b>25916</b>	<b>2.62</b>	<b>0.95</b>	<b>2.62</b>	<b>2.07</b>				<b>26</b>
McDowell	15th Ave to 7th Ave	PDO	5	3	8	16								Angle	3	Light	17
		INJ	1	2	2	5								Left Turn	1	Dark	4
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>6</b>	<b>5</b>	<b>10</b>	<b>21</b>	<b>7.00</b>	<b>0.44</b>	<b>17214</b>	<b>2.15</b>	<b>1.80</b>	<b>3.59</b>	<b>2.51</b>				<b>21</b>
Thomas	7th St to 12th St	PDO	11	5	6	22								Angle	6	Light	25
		INJ	3	1	1	5								Left Turn	1	Dark	1
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>14</b>	<b>6</b>	<b>7</b>	<b>27</b>	<b>9.00</b>	<b>0.44</b>	<b>30600</b>	<b>2.83</b>	<b>1.21</b>	<b>1.41</b>	<b>1.82</b>				<b>27</b>
Thomas	12th st to 16th St	PDO	11	2	5	18								Angle	7	Light	29
		INJ	7	1	7	15								Left Turn	6	Dark	4
		FTL	0	0	0	0								B/P	1	Twilight	0
		<b>TOTAL</b>	<b>18</b>	<b>3</b>	<b>12</b>	<b>33</b>	<b>11.00</b>	<b>0.44</b>	<b>30643</b>	<b>3.63</b>	<b>0.61</b>	<b>2.42</b>	<b>2.22</b>				<b>33</b>
Thomas	23rd Ave to 19th Ave	PDO	7	6	11	24								Angle	4	Light	29
		INJ	4	1	4	9								Left Turn	2	Dark	3
		FTL	0	0	0	0								B/P	1	Twilight	1
		<b>TOTAL</b>	<b>11</b>	<b>7</b>	<b>15</b>	<b>33</b>	<b>11.00</b>	<b>0.44</b>	<b>30000</b>	<b>2.27</b>	<b>1.44</b>	<b>3.09</b>	<b>2.27</b>				<b>33</b>

Appendix E

2008-2010

Road	Segment	Type	Collision History					Rate Calculations					Characteristics				
			2008	2009	2010	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
Thomas	19th Ave to 15th Ave	PDO	3	4	2	9								Angle	0	Light	17
		INJ	3	2	3	8								Left Turn	0	Dark	0
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>6</b>	<b>6</b>	<b>5</b>	<b>17</b>	<b>5.67</b>	<b>0.44</b>	<b>30337</b>	<b>1.22</b>	<b>1.22</b>	<b>1.02</b>	<b>1.15</b>				<b>17</b>
Thomas	67th Ave to 71st Ave	PDO	6	9	4	19								Angle	5	Light	23
		INJ	5	1	4	10								Left Turn	4	Dark	6
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>11</b>	<b>10</b>	<b>8</b>	<b>29</b>	<b>9.67</b>	<b>0.44</b>	<b>33900</b>	<b>2.01</b>	<b>1.82</b>	<b>1.46</b>	<b>1.76</b>				<b>29</b>
Thomas	40th St to 44th St	PDO	18	7	13	38								Angle	13	Light	52
		INJ	8	5	8	21								Left Turn	5	Dark	7
		FTL	0	0	0	0								B/P	4	Twilight	0
		<b>TOTAL</b>	<b>26</b>	<b>12</b>	<b>21</b>	<b>59</b>	<b>19.67</b>	<b>0.44</b>	<b>38100</b>	<b>4.22</b>	<b>1.95</b>	<b>3.41</b>	<b>3.19</b>				<b>59</b>
Thomas	39th Ave to 35th Ave	PDO	13	4	6	23								Angle	4	Light	28
		INJ	6	4	0	10								Left Turn	6	Dark	4
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>19</b>	<b>8</b>	<b>6</b>	<b>33</b>	<b>11.00</b>	<b>0.44</b>	<b>36000</b>	<b>3.26</b>	<b>1.37</b>	<b>1.03</b>	<b>1.89</b>				<b>33</b>
Indian School	7th St to 12th St	PDO	24	23	25	72								Angle	26	Light	106
		INJ	18	15	17	50								Left Turn	12	Dark	11
		FTL	1	0	0	1								B/P	4	Twilight	6
		<b>TOTAL</b>	<b>43</b>	<b>38</b>	<b>42</b>	<b>123</b>	<b>41.00</b>	<b>0.44</b>	<b>38000</b>	<b>7.00</b>	<b>6.18</b>	<b>6.83</b>	<b>6.67</b>				<b>123</b>
Indian School	20th St to 24th St	PDO	10	13	3	26								Angle	9	Light	32
		INJ	7	5	1	13								Left Turn	0	Dark	7
		FTL	0	0	0	0								B/P	1	Twilight	0
		<b>TOTAL</b>	<b>17</b>	<b>18</b>	<b>4</b>	<b>39</b>	<b>13.00</b>	<b>0.44</b>	<b>40000</b>	<b>2.63</b>	<b>2.78</b>	<b>0.62</b>	<b>2.01</b>				<b>39</b>
Indian School	59th Ave to 63rd Ave	PDO	4	8	7	19								Angle	3	Light	17
		INJ	2	0	1	3								Left Turn	0	Dark	5
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>6</b>	<b>8</b>	<b>8</b>	<b>22</b>	<b>7.33</b>	<b>0.44</b>	<b>46500</b>	<b>0.80</b>	<b>1.06</b>	<b>1.06</b>	<b>0.97</b>				<b>22</b>
Indian School	27th Ave to 31st Ave	PDO	17	14	9	40								Angle	8	Light	47
		INJ	6	6	7	19								Left Turn	5	Dark	12
		FTL	1	0	0	1								B/P	2	Twilight	1
		<b>TOTAL</b>	<b>24</b>	<b>20</b>	<b>16</b>	<b>60</b>	<b>20.00</b>	<b>0.44</b>	<b>50000</b>	<b>2.97</b>	<b>2.47</b>	<b>1.98</b>	<b>2.47</b>				<b>60</b>
Indian School	32nd St to 36th St	PDO	13	5	5	23								Angle	9	Light	34
		INJ	4	7	5	16								Left Turn	3	Dark	5
		FTL	0	0	0	0								B/P	1	Twilight	0
		<b>TOTAL</b>	<b>17</b>	<b>12</b>	<b>10</b>	<b>39</b>	<b>13.00</b>	<b>0.44</b>	<b>28000</b>	<b>3.75</b>	<b>2.65</b>	<b>2.21</b>	<b>2.87</b>				<b>39</b>
Indian School	19th Ave to 15th Ave	PDO	8	5	2	15								Angle	6	Light	20
		INJ	5	3	3	11								Left Turn	0	Dark	6
		FTL	0	1	0	1								B/P	2	Twilight	1
		<b>TOTAL</b>	<b>13</b>	<b>9</b>	<b>5</b>	<b>27</b>	<b>9.00</b>	<b>0.44</b>	<b>40000</b>	<b>2.01</b>	<b>1.39</b>	<b>0.77</b>	<b>1.39</b>				<b>27</b>
Camelback	32nd St to 36th St	PDO	7	4	1	12								Angle	6	Light	11
		INJ	1	1	0	2								Left Turn	1	Dark	3
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>8</b>	<b>5</b>	<b>1</b>	<b>14</b>	<b>4.67</b>	<b>0.44</b>	<b>43000</b>	<b>1.15</b>	<b>0.72</b>	<b>0.14</b>	<b>0.67</b>				<b>14</b>
Camelback	12th St to 16th St	PDO	7	15	14	36								Angle	7	Light	50
		INJ	8	9	2	19								Left Turn	3	Dark	4
		FTL	0	0	0	0								B/P	4	Twilight	1
		<b>TOTAL</b>	<b>15</b>	<b>24</b>	<b>16</b>	<b>55</b>	<b>18.33</b>	<b>0.44</b>	<b>46000</b>	<b>2.02</b>	<b>3.23</b>	<b>2.15</b>	<b>2.46</b>				<b>55</b>
Camelback	27th Ave to 31st Ave	PDO	15	19	24	58								Angle	21	Light	78
		INJ	11	14	14	39								Left Turn	7	Dark	18
		FTL	0	1	1	2								B/P	5	Twilight	3
		<b>TOTAL</b>	<b>26</b>	<b>34</b>	<b>39</b>	<b>99</b>	<b>33.00</b>	<b>0.44</b>	<b>42000</b>	<b>3.83</b>	<b>5.00</b>	<b>5.74</b>	<b>4.86</b>				<b>99</b>
*Above 2 std. dev's																	

Appendix E

2008-2010

Road	Segment	Type	Collision History					Rate Calculations					Characteristics				
			2008	2009	2010	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
Bethany Home Rd	43rd Ave to 39th Ave	PDO	14	5	5	24								Angle	8	Light	30
		INJ	7	4	4	15								Left Turn	5	Dark	9
		FTL	0	0	1	1								B/P	2	Twilight	1
		<b>TOTAL</b>	<b>21</b>	<b>9</b>	<b>10</b>	<b>40</b>	<b>13.33</b>	<b>0.44</b>	<b>38000</b>	<b>3.42</b>	<b>1.46</b>	<b>1.63</b>	<b>2.17</b>				<b>40</b>
Bethany Home Rd	15th Ave to 7th Ave	PDO	3	8	4	15								Angle	5	Light	21
		INJ	6	2	4	12								Left Turn	1	Dark	4
		FTL	0	0	0	0								B/P	0	Twilight	2
		<b>TOTAL</b>	<b>9</b>	<b>10</b>	<b>8</b>	<b>27</b>	<b>9.00</b>	<b>0.44</b>	<b>30000</b>	<b>1.85</b>	<b>2.06</b>	<b>1.65</b>	<b>1.85</b>				<b>27</b>
Bethany Home Rd	7th St to 12th St	PDO	10	9	10	29								Angle	14	Light	35
		INJ	4	3	5	12								Left Turn	2	Dark	6
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>14</b>	<b>12</b>	<b>15</b>	<b>41</b>	<b>13.67</b>	<b>0.44</b>	<b>28000</b>	<b>3.09</b>	<b>2.65</b>	<b>3.31</b>	<b>3.02</b>				<b>41</b>
Glendale Ave	39th Ave to 35th Ave	PDO	8	9	9	26								Angle	15	Light	33
		INJ	5	5	7	17								Left Turn	8	Dark	9
		FTL	0	0	1	1								B/P	2	Twilight	2
		<b>TOTAL</b>	<b>13</b>	<b>14</b>	<b>17</b>	<b>44</b>	<b>14.67</b>	<b>0.44</b>	<b>40500</b>	<b>1.98</b>	<b>2.14</b>	<b>2.59</b>	<b>2.24</b>				<b>44</b>
Glendale Ave	31st Ave to 27th Ave	PDO	11	6	3	20								Angle	4	Light	28
		INJ	3	6	8	17								Left Turn	2	Dark	8
		FTL	0	0	0	0								B/P	1	Twilight	1
		<b>TOTAL</b>	<b>14</b>	<b>12</b>	<b>11</b>	<b>37</b>	<b>12.33</b>	<b>0.44</b>	<b>37500</b>	<b>2.31</b>	<b>1.98</b>	<b>1.81</b>	<b>2.03</b>				<b>37</b>
Glendale Ave	15th Ave to 7th Ave	PDO	4	4	4	12								Angle	2	Light	8
		INJ	1	1	0	2								Left Turn	1	Dark	5
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>5</b>	<b>5</b>	<b>4</b>	<b>14</b>	<b>4.67</b>	<b>0.44</b>	<b>37000</b>	<b>0.84</b>	<b>0.84</b>	<b>0.67</b>	<b>0.78</b>				<b>14</b>
Glendale Ave	Central to 7th St	PDO	12	7	9	28								Angle	4	Light	31
		INJ	2	1	4	7								Left Turn	3	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	2
		<b>TOTAL</b>	<b>14</b>	<b>8</b>	<b>13</b>	<b>35</b>	<b>11.67</b>	<b>0.44</b>	<b>32500</b>	<b>2.66</b>	<b>1.52</b>	<b>2.47</b>	<b>2.22</b>				<b>35</b>
Northern Ave	43rd Ave to 39th Ave	PDO	16	4	4	24								Angle	9	Light	28
		INJ	9	3	4	16								Left Turn	4	Dark	12
		FTL	1	0	0	1								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>26</b>	<b>7</b>	<b>8</b>	<b>41</b>	<b>13.67</b>	<b>0.44</b>	<b>34000</b>	<b>4.73</b>	<b>1.27</b>	<b>1.45</b>	<b>2.48</b>				<b>41</b>
Northern Ave	15th Ave to 7th Ave	PDO	3	5	4	12								Angle	5	Light	12
		INJ	2	2	4	8								Left Turn	0	Dark	8
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>5</b>	<b>7</b>	<b>8</b>	<b>20</b>	<b>6.67</b>	<b>0.44</b>	<b>34500</b>	<b>0.90</b>	<b>1.25</b>	<b>1.43</b>	<b>1.19</b>				<b>20</b>
Northern Ave	7th St to 12th St	PDO	3	4	8	15								Angle	4	Light	16
		INJ	3	2	2	7								Left Turn	1	Dark	3
		FTL	0	0	0	0								B/P	2	Twilight	3
		<b>TOTAL</b>	<b>6</b>	<b>6</b>	<b>10</b>	<b>22</b>	<b>7.33</b>	<b>0.44</b>	<b>43500</b>	<b>0.85</b>	<b>0.85</b>	<b>1.42</b>	<b>1.04</b>				<b>22</b>
Dunlap Rd	39th Ave to 35th Ave	PDO	5	7	7	19								Angle	12	Light	38
		INJ	11	8	9	28								Left Turn	3	Dark	8
		FTL	0	0	0	0								B/P	1	Twilight	1
		<b>TOTAL</b>	<b>16</b>	<b>15</b>	<b>16</b>	<b>47</b>	<b>15.67</b>	<b>0.44</b>	<b>36000</b>	<b>2.75</b>	<b>2.58</b>	<b>2.75</b>	<b>2.69</b>				<b>47</b>
Dunlap Rd	7th Ave to Central	PDO	7	7	8	22								Angle	8	Light	29
		INJ	4	8	0	12								Left Turn	3	Dark	4
		FTL	0	0	0	0								B/P	1	Twilight	1
		<b>TOTAL</b>	<b>11</b>	<b>15</b>	<b>8</b>	<b>34</b>	<b>11.33</b>	<b>0.44</b>	<b>31000</b>	<b>2.19</b>	<b>2.99</b>	<b>1.60</b>	<b>2.26</b>				<b>34</b>
Peoria Ave	43rd Ave to 39th Ave	PDO	12	8	3	23								Angle	10	Light	31
		INJ	2	4	4	10								Left Turn	3	Dark	2
		FTL	0	0	0	0								B/P	2	Twilight	0
		<b>TOTAL</b>	<b>14</b>	<b>12</b>	<b>7</b>	<b>33</b>	<b>11.00</b>	<b>0.44</b>	<b>40000</b>	<b>2.16</b>	<b>1.85</b>	<b>1.08</b>	<b>1.70</b>				<b>33</b>

Appendix E

2008-2010

Road	Segment	Type	Collision History					Rate Calculations					Characteristics				
			2008	2009	2010	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
Peoria Ave	19th Ave to 15th Ave	PDO	5	0	0	5								Angle	3	Light	7
		INJ	1	3	1	5								Left Turn	0	Dark	3
		FTL	0	0	0	0								B/P	1	Twilight	0
		<b>TOTAL</b>	<b>6</b>	<b>3</b>	<b>1</b>	<b>10</b>	<b>3.33</b>	<b>0.44</b>	<b>13000</b>	<b>2.85</b>	<b>1.43</b>	<b>0.48</b>	<b>1.59</b>				<b>10</b>
Shea Blvd	36th St to 40th St	PDO	7	6	6	19								Angle	2	Light	26
		INJ	2	2	6	10								Left Turn	1	Dark	3
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>9</b>	<b>8</b>	<b>12</b>	<b>29</b>	<b>9.67</b>	<b>0.44</b>	<b>47000</b>	<b>1.18</b>	<b>1.05</b>	<b>1.58</b>	<b>1.27</b>				<b>29</b>
Shea Blvd	40th St to Tatum Blvd	PDO	15	8	13	36								Angle	19	Light	44
		INJ	7	4	4	15								Left Turn	6	Dark	6
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>22</b>	<b>12</b>	<b>17</b>	<b>51</b>	<b>17.00</b>	<b>0.94</b>	<b>44000</b>	<b>1.45</b>	<b>0.79</b>	<b>1.12</b>	<b>1.12</b>				<b>51</b>
Cactus	47th Ave to 43rd Ave	PDO	4	3	5	12								Angle	7	Light	18
		INJ	5	2	3	10								Left Turn	1	Dark	4
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>9</b>	<b>5</b>	<b>8</b>	<b>22</b>	<b>7.33</b>	<b>0.44</b>	<b>31000</b>	<b>1.79</b>	<b>1.00</b>	<b>1.60</b>	<b>1.46</b>				<b>22</b>
Cactus	35th Ave to 31st Ave	PDO	6	2	1	9								Angle	6	Light	9
		INJ	1	3	2	6								Left Turn	0	Dark	5
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>7</b>	<b>5</b>	<b>3</b>	<b>15</b>	<b>5.00</b>	<b>0.44</b>	<b>32000</b>	<b>1.35</b>	<b>0.97</b>	<b>0.58</b>	<b>0.97</b>				<b>15</b>
Cactus	28th St to 32nd St	PDO	4	4	9	17								Angle	6	Light	18
		INJ	2	0	0	2								Left Turn	2	Dark	1
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>6</b>	<b>4</b>	<b>9</b>	<b>19</b>	<b>6.33</b>	<b>0.44</b>	<b>41000</b>	<b>0.90</b>	<b>0.60</b>	<b>1.36</b>	<b>0.95</b>				<b>19</b>
Cactus	36th St to 40th St	PDO	7	4	4	15								Angle	2	Light	20
		INJ	5	5	1	11								Left Turn	0	Dark	4
		FTL	0	0	0	0								B/P	0	Twilight	2
		<b>TOTAL</b>	<b>12</b>	<b>9</b>	<b>5</b>	<b>26</b>	<b>8.67</b>	<b>0.44</b>	<b>44500</b>	<b>1.67</b>	<b>1.25</b>	<b>0.69</b>	<b>1.20</b>				<b>26</b>
Thunderbird	52nd St to Tatum Blvd	PDO	3	1	3	7								Angle	4	Light	14
		INJ	4	2	3	9								Left Turn	3	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>7</b>	<b>3</b>	<b>6</b>	<b>16</b>	<b>5.33</b>	<b>0.44</b>	<b>22000</b>	<b>1.97</b>	<b>0.84</b>	<b>1.69</b>	<b>1.50</b>				<b>16</b>
Thunderbird	Tatum Blvd to 44th St	PDO	2	2	2	6								Angle	7	Light	9
		INJ	2	2	0	4								Left Turn	0	Dark	1
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>2</b>	<b>10</b>	<b>3.33</b>	<b>0.44</b>	<b>22000</b>	<b>1.12</b>	<b>1.12</b>	<b>0.56</b>	<b>0.94</b>				<b>10</b>
Thunderbird	7th St to Central/Canterbury	PDO	9	4	5	18								Angle	14	Light	20
		INJ	0	7	2	9								Left Turn	3	Dark	6
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>9</b>	<b>11</b>	<b>7</b>	<b>27</b>	<b>9.00</b>	<b>0.44</b>	<b>30000</b>	<b>1.85</b>	<b>2.27</b>	<b>1.44</b>	<b>1.85</b>				<b>27</b>
Thunderbird	35th Ave to 39th Ave	PDO	8	10	8	26								Angle	11	Light	31
		INJ	2	2	5	9								Left Turn	2	Dark	3
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>10</b>	<b>12</b>	<b>13</b>	<b>35</b>	<b>11.67</b>	<b>0.44</b>	<b>46000</b>	<b>1.34</b>	<b>1.61</b>	<b>1.75</b>	<b>1.57</b>				<b>35</b>
Greenway Rd	40th St to 44th St	PDO	8	3	6	17								Angle	3	Light	19
		INJ	4	1	2	7								Left Turn	0	Dark	6
		FTL	0	1	0	1								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>12</b>	<b>5</b>	<b>8</b>	<b>25</b>	<b>8.33</b>	<b>0.44</b>	<b>38000</b>	<b>1.95</b>	<b>0.81</b>	<b>1.30</b>	<b>1.36</b>				<b>25</b>
Greenway Rd	43rd Ave to 39th Ave	PDO	7	0	3	10								Angle	3	Light	8
		INJ	1	0	4	5								Left Turn	1	Dark	5
		FTL	0	0	0	0								B/P	0	Twilight	2
		<b>TOTAL</b>	<b>8</b>	<b>0</b>	<b>7</b>	<b>15</b>	<b>5.00</b>	<b>0.44</b>	<b>25000</b>	<b>1.98</b>	<b>0.00</b>	<b>1.73</b>	<b>1.24</b>				<b>15</b>

Appendix E

2008-2010

Road	Segment	Type	Collision History					Rate Calculations					Characteristics				
			2008	2009	2010	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
Greenway Rd	36th St to 40th St	PDO	4	6	4	14								Angle	6	Light	18
		INJ	0	3	4	7								Left Turn	1	Dark	3
		FTL	1	0	0	1								B/P	2	Twilight	1
		<b>TOTAL</b>	<b>5</b>	<b>9</b>	<b>8</b>	<b>22</b>	<b>7.33</b>	<b>0.44</b>	<b>37000</b>	<b>0.84</b>	<b>1.50</b>	<b>1.34</b>	<b>1.23</b>				<b>22</b>
Greenway Rd	44th St to Tatum Blvd	PDO	5	4	1	10								Angle	1	Light	13
		INJ	4	0	1	5								Left Turn	1	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>9</b>	<b>4</b>	<b>2</b>	<b>15</b>	<b>5.00</b>	<b>0.44</b>	<b>34500</b>	<b>1.61</b>	<b>0.72</b>	<b>0.36</b>	<b>0.90</b>				<b>15</b>
Bell Rd	56th St to 60th St	PDO	2	4	1	7								Angle	2	Light	6
		INJ	2	0	0	2								Left Turn	0	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>1</b>	<b>9</b>	<b>3.00</b>	<b>0.44</b>	<b>35500</b>	<b>0.70</b>	<b>0.70</b>	<b>0.17</b>	<b>0.52</b>				<b>9</b>
Bell Rd	40th St to 44th St	PDO	15	2	5	22								Angle	4	Light	32
		INJ	5	6	4	15								Left Turn	3	Dark	4
		FTL	0	0	0	0								B/P	2	Twilight	1
		<b>TOTAL</b>	<b>20</b>	<b>8</b>	<b>9</b>	<b>37</b>	<b>12.33</b>	<b>0.44</b>	<b>39000</b>	<b>3.17</b>	<b>1.27</b>	<b>1.43</b>	<b>1.95</b>				<b>37</b>
Bell Rd	Cave Creek to 20th St	PDO	13	8	8	29								Angle	15	Light	36
		INJ	7	7	2	16								Left Turn	5	Dark	6
		FTL	0	0	0	0								B/P	1	Twilight	3
		<b>TOTAL</b>	<b>20</b>	<b>15</b>	<b>10</b>	<b>45</b>	<b>15.00</b>	<b>0.44</b>	<b>41000</b>	<b>3.02</b>	<b>2.26</b>	<b>1.51</b>	<b>2.26</b>				<b>45</b>
Bell Rd	7th Ave to Central	PDO	6	4	5	15								Angle	3	Light	19
		INJ	6	1	4	11								Left Turn	2	Dark	6
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>12</b>	<b>5</b>	<b>9</b>	<b>26</b>	<b>8.67</b>	<b>0.44</b>	<b>40700</b>	<b>1.82</b>	<b>0.76</b>	<b>1.37</b>	<b>1.32</b>				<b>26</b>
Bell Rd	35th Ave to 39th Ave	PDO	8	4	2	14								Angle	5	Light	17
		INJ	5	6	2	13								Left Turn	2	Dark	9
		FTL	0	0	0	0								B/P	1	Twilight	1
		<b>TOTAL</b>	<b>13</b>	<b>10</b>	<b>4</b>	<b>27</b>	<b>9.00</b>	<b>0.44</b>	<b>40000</b>	<b>2.01</b>	<b>1.55</b>	<b>0.62</b>	<b>1.39</b>				<b>27</b>
Bell Rd	43rd Ave to 51st Ave	PDO	13	8	12	33								Angle	17	Light	40
		INJ	9	4	8	21								Left Turn	2	Dark	13
		FTL	1	0	0	1								B/P	1	Twilight	2
		<b>TOTAL</b>	<b>23</b>	<b>12</b>	<b>20</b>	<b>55</b>	<b>18.33</b>	<b>0.94</b>	<b>40000</b>	<b>1.67</b>	<b>0.87</b>	<b>1.45</b>	<b>1.33</b>				<b>55</b>
Union Hills Dr	40th St to Tatum Blvd	PDO	5	5	5	15								Angle	9	Light	20
		INJ	3	3	4	10								Left Turn	1	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	3
		<b>TOTAL</b>	<b>8</b>	<b>8</b>	<b>9</b>	<b>25</b>	<b>8.33</b>	<b>0.94</b>	<b>16800</b>	<b>1.38</b>	<b>1.38</b>	<b>1.56</b>	<b>1.44</b>				<b>25</b>
Union Hills Dr	28th St to Cave Creek	PDO	3	2	11	16								Angle	15	Light	24
		INJ	1	5	7	13								Left Turn	2	Dark	3
		FTL	0	0	0	0								B/P	1	Twilight	2
		<b>TOTAL</b>	<b>4</b>	<b>7</b>	<b>18</b>	<b>29</b>	<b>9.67</b>	<b>0.44</b>	<b>29000</b>	<b>0.85</b>	<b>1.49</b>	<b>3.84</b>	<b>2.06</b>				<b>29</b>
Union Hills Dr	12th St to 7th St	PDO	5	4	5	14								Angle	8	Light	15
		INJ	2	5	2	9								Left Turn	2	Dark	8
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>7</b>	<b>9</b>	<b>7</b>	<b>23</b>	<b>7.67</b>	<b>0.44</b>	<b>23000</b>	<b>1.88</b>	<b>2.42</b>	<b>1.88</b>	<b>2.06</b>				<b>23</b>
Union Hills Dr	19th Ave to 15th Ave	PDO	4	0	2	6								Angle	1	Light	4
		INJ	2	2	1	5								Left Turn	0	Dark	7
		FTL	0	0	0	0								B/P	2	Twilight	0
		<b>TOTAL</b>	<b>6</b>	<b>2</b>	<b>3</b>	<b>11</b>	<b>3.67</b>	<b>0.44</b>	<b>25000</b>	<b>1.48</b>	<b>0.49</b>	<b>0.74</b>	<b>0.91</b>				<b>11</b>
Union Hills Dr	35th Ave to 39th Ave	PDO	7	2	3	12								Angle	4	Light	13
		INJ	2	1	1	4								Left Turn	1	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>9</b>	<b>3</b>	<b>4</b>	<b>16</b>	<b>5.33</b>	<b>0.44</b>	<b>27000</b>	<b>2.06</b>	<b>0.69</b>	<b>0.92</b>	<b>1.22</b>				<b>16</b>

Appendix E

2008-2010

Road	Segment	Type	Collision History					Rate Calculations					Characteristics				
			2008	2009	2010	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
Deer Valley Dr	31st Ave to 27th Ave	PDO	4	6	3	13								Angle	9	Light	13
		INJ	3	3	4	10								Left Turn	2	Dark	9
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>7</b>	<b>9</b>	<b>7</b>	<b>23</b>	<b>7.67</b>	<b>0.44</b>	<b>17900</b>	<b>2.42</b>	<b>3.11</b>	<b>2.42</b>	<b>2.65</b>				<b>23</b>
Deer Valley Dr	23rd Ave to 19th Ave	PDO	4	4	5	13								Angle	8	Light	17
		INJ	3	0	5	8								Left Turn	0	Dark	1
		FTL	0	0	0	0								B/P	0	Twilight	3
		<b>TOTAL</b>	<b>7</b>	<b>4</b>	<b>10</b>	<b>21</b>	<b>7.00</b>	<b>0.44</b>	<b>20000</b>	<b>2.16</b>	<b>1.24</b>	<b>3.09</b>	<b>2.16</b>				<b>21</b>
Pinnacle Peak Rd	51st Ave to 43rd Ave	PDO	2	2	2	6								Angle	3	Light	8
		INJ	3	1	1	5								Left Turn	0	Dark	3
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>5</b>	<b>3</b>	<b>3</b>	<b>11</b>	<b>3.67</b>	<b>0.94</b>	<b>14400</b>	<b>1.01</b>	<b>0.61</b>	<b>0.61</b>	<b>0.74</b>				<b>11</b>
Happy Valley Rd	51st Ave to 43rd Ave	PDO	3	1	2	6								Angle	1	Light	8
		INJ	1	2	1	4								Left Turn	0	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>10</b>	<b>3.33</b>	<b>0.94</b>	<b>28000</b>	<b>0.41</b>	<b>0.31</b>	<b>0.31</b>	<b>0.35</b>				<b>10</b>
64th St	Greenway to Thunderbird	PDO	5	2	2	9								Angle	9	Light	17
		INJ	8	2	3	13								Left Turn	3	Dark	5
		FTL	0	0	0	0								B/P	1	Twilight	0
		<b>TOTAL</b>	<b>13</b>	<b>4</b>	<b>5</b>	<b>22</b>	<b>7.33</b>	<b>0.94</b>	<b>16000</b>	<b>2.36</b>	<b>0.73</b>	<b>0.91</b>	<b>1.33</b>				<b>22</b>
56th St	Bell Rd to Paradise Ln	PDO	2	0	1	3								Angle	1	Light	3
		INJ	1	1	1	3								Left Turn	0	Dark	3
		FTL	0	0	0	0								B/P	1	Twilight	0
		<b>TOTAL</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>6</b>	<b>2.00</b>	<b>0.44</b>	<b>20000</b>	<b>0.93</b>	<b>0.31</b>	<b>0.62</b>	<b>0.62</b>				<b>6</b>
56th St	Thunderbird to Sweetwater	PDO	0	1	0	1								Angle	0	Light	4
		INJ	0	1	4	5								Left Turn	0	Dark	1
		FTL	0	0	0	0								B/P	1	Twilight	1
		<b>TOTAL</b>	<b>0</b>	<b>2</b>	<b>4</b>	<b>6</b>	<b>2.00</b>	<b>0.44</b>	<b>14800</b>	<b>0.00</b>	<b>0.84</b>	<b>1.67</b>	<b>0.84</b>				<b>6</b>
Tatum Blvd	Greenway Rd to Acoma Dr	PDO	8	9	6	23								Angle	15	Light	31
		INJ	6	6	3	15								Left Turn	3	Dark	4
		FTL	0	0	0	0								B/P	0	Twilight	3
		<b>TOTAL</b>	<b>14</b>	<b>15</b>	<b>9</b>	<b>38</b>	<b>12.67</b>	<b>0.44</b>	<b>33500</b>	<b>2.58</b>	<b>2.77</b>	<b>1.66</b>	<b>2.34</b>				<b>38</b>
Tatum Blvd	Acoma Dr to Thunderbird	PDO	3	3	3	9								Angle	1	Light	15
		INJ	6	2	2	10								Left Turn	0	Dark	4
		FTL	0	0	0	0								B/P	2	Twilight	0
		<b>TOTAL</b>	<b>9</b>	<b>5</b>	<b>5</b>	<b>19</b>	<b>6.33</b>	<b>0.44</b>	<b>34500</b>	<b>1.61</b>	<b>0.90</b>	<b>0.90</b>	<b>1.13</b>				<b>19</b>
40th St	Bell Rd to Paradise Ln	PDO	1	2	5	8								Angle	4	Light	8
		INJ	1	1	0	2								Left Turn	0	Dark	2
		FTL	0	0	0	0								B/P	2	Twilight	0
		<b>TOTAL</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>10</b>	<b>3.33</b>	<b>0.44</b>	<b>13000</b>	<b>0.95</b>	<b>1.43</b>	<b>2.38</b>	<b>1.59</b>				<b>10</b>
40th St	Greenway Rd to Acoma Dr	PDO	2	2	5	9								Angle	5	Light	12
		INJ	1	3	1	5								Left Turn	2	Dark	1
		FTL	0	0	0	0								B/P	1	Twilight	1
		<b>TOTAL</b>	<b>3</b>	<b>5</b>	<b>6</b>	<b>14</b>	<b>4.67</b>	<b>0.44</b>	<b>15000</b>	<b>1.24</b>	<b>2.06</b>	<b>2.47</b>	<b>1.92</b>				<b>14</b>
40th St	Broadway to Roeser Rd	PDO	8	6	6	20								Angle	7	Light	26
		INJ	3	2	1	6								Left Turn	4	Dark	1
		FTL	1	0	0	1								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>12</b>	<b>8</b>	<b>7</b>	<b>27</b>	<b>9.00</b>	<b>0.44</b>	<b>23000</b>	<b>3.23</b>	<b>2.15</b>	<b>1.88</b>	<b>2.42</b>				<b>27</b>
32nd St	Bell Rd to Paradise Ln	PDO	4	0	4	8								Angle	6	Light	15
		INJ	5	3	4	12								Left Turn	4	Dark	4
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>9</b>	<b>3</b>	<b>8</b>	<b>20</b>	<b>6.67</b>	<b>0.44</b>	<b>19700</b>	<b>2.82</b>	<b>0.94</b>	<b>2.51</b>	<b>2.09</b>				<b>20</b>

Appendix E

2008-2010

Road	Segment	Type	Collision History					Rate Calculations					Characteristics					
			2008	2009	2010	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total	
32nd St	Cactus Rd to Cholla St	PDO	1	3	1	5								Angle	6	Light	9	
		INJ	4	1	3	8								Left Turn	1	Dark	2	
		FTL	0	0	1	1								B/P	0	Twilight	3	
		<b>TOTAL</b>	<b>5</b>	<b>4</b>	<b>5</b>	<b>14</b>	<b>4.67</b>	<b>0.44</b>	<b>14400</b>	<b>2.15</b>	<b>1.72</b>	<b>2.15</b>	<b>2.00</b>				<b>14</b>	
32nd St	Campbell Ave to Indian Sch	PDO	3	5	3	11								Angle	3	Light	16	
		INJ	2	2	5	9								Left Turn	4	Dark	3	
		FTL	0	0	0	0								B/P	2	Twilight	1	
		<b>TOTAL</b>	<b>5</b>	<b>7</b>	<b>8</b>	<b>20</b>	<b>6.67</b>	<b>0.44</b>	<b>24600</b>	<b>1.26</b>	<b>1.76</b>	<b>2.01</b>	<b>1.68</b>				<b>20</b>	
32nd St	Osborn Rd to Thomas	PDO	16	10	16	42								Angle	15	Light	44	
*Above 2 std. dev's		INJ	4	3	3	10								Left Turn	7	Dark	9	
		FTL	0	1	0	1								B/P	2	Twilight	0	
		<b>TOTAL</b>	<b>20</b>	<b>14</b>	<b>19</b>	<b>53</b>	<b>17.67</b>	<b>0.44</b>	<b>26700</b>	<b>4.63</b>	<b>3.24</b>	<b>4.40</b>	<b>4.09</b>				<b>53</b>	
Cave Creek	Union Hills Dr to Grovers A	PDO	10	3	4	17								Angle	7	Light	20	
Cave Creek		INJ	7	4	2	13								Left Turn	1	Dark	10	
		FTL	0	0	0	0								B/P	1	Twilight	0	
		<b>TOTAL</b>	<b>17</b>	<b>7</b>	<b>6</b>	<b>30</b>	<b>10.00</b>	<b>0.44</b>	<b>30000</b>	<b>3.50</b>	<b>1.44</b>	<b>1.24</b>	<b>2.06</b>				<b>30</b>	
Cave Creek	Sweetwater to Cactus	PDO	7	3	6	16								Angle	14	Light	29	
44th St		INJ	4	8	5	17								Left Turn	4	Dark	4	
		FTL	0	0	0	0								B/P	3	Twilight	0	
		<b>TOTAL</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>33</b>	<b>11.00</b>	<b>0.45</b>	<b>28500</b>	<b>2.35</b>	<b>2.35</b>	<b>2.35</b>	<b>2.35</b>				<b>33</b>	
44th St	Camelback to Campbell Av	PDO	3	3	9	15								Angle	5	Light	19	
44th St		INJ	4	3	1	8								Left Turn	2	Dark	2	
		FTL	0	0	0	0								B/P	1	Twilight	2	
		<b>TOTAL</b>	<b>7</b>	<b>6</b>	<b>10</b>	<b>23</b>	<b>7.67</b>	<b>0.44</b>	<b>28000</b>	<b>1.55</b>	<b>1.32</b>	<b>2.21</b>	<b>1.69</b>				<b>23</b>	
44th St	Osborn Rd to Thomas	PDO	13	16	12	41								Angle	6	Light	44	
24th St		INJ	6	2	4	12								Left Turn	5	Dark	7	
		FTL	0	0	0	0								B/P	1	Twilight	2	
		<b>TOTAL</b>	<b>19</b>	<b>18</b>	<b>16</b>	<b>53</b>	<b>17.67</b>	<b>0.44</b>	<b>44000</b>	<b>2.67</b>	<b>2.53</b>	<b>2.25</b>	<b>2.48</b>				<b>53</b>	
24th St	Campbell Ave to Indian Sch	PDO	7	8	7	22								Angle	6	Light	25	
24th St		INJ	4	2	1	7								Left Turn	5	Dark	3	
		FTL	0	0	0	0								B/P	1	Twilight	1	
		<b>TOTAL</b>	<b>11</b>	<b>10</b>	<b>8</b>	<b>29</b>	<b>9.67</b>	<b>0.44</b>	<b>22000</b>	<b>3.09</b>	<b>2.81</b>	<b>2.25</b>	<b>2.72</b>				<b>29</b>	
24th St	Oak St to McDowell Rd	PDO	10	5	4	19								Angle	1	Light	24	
24th St		INJ	1	6	4	11								Left Turn	6	Dark	6	
		FTL	0	0	0	0								B/P	6	Twilight	0	
		<b>TOTAL</b>	<b>11</b>	<b>11</b>	<b>8</b>	<b>30</b>	<b>10.00</b>	<b>0.44</b>	<b>29500</b>	<b>2.31</b>	<b>2.31</b>	<b>1.68</b>	<b>2.10</b>				<b>30</b>	
24th St	Broadway to University	PDO	9	3	4	16								Angle	9	Light	17	
16th St		INJ	4	2	3	9								Left Turn	1	Dark	7	
		FTL	0	0	0	0								B/P	0	Twilight	1	
		<b>TOTAL</b>	<b>13</b>	<b>5</b>	<b>7</b>	<b>25</b>	<b>8.33</b>	<b>1.13</b>	<b>18500</b>	<b>1.71</b>	<b>0.66</b>	<b>0.92</b>	<b>1.10</b>				<b>25</b>	
16th St	Bell Rd to Union Hills Dr	PDO	2	1	2	5								Angle	6	Light	7	
16th St		INJ	1	2	1	4								Left Turn	0	Dark	1	
		FTL	0	0	0	0								B/P	0	Twilight	1	
		<b>TOTAL</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>9</b>	<b>3.00</b>	<b>0.94</b>	<b>16600</b>	<b>0.52</b>	<b>0.52</b>	<b>0.52</b>	<b>0.52</b>				<b>9</b>	
16th St	Glendale Ave to Maryland A	PDO	2	5	2	9								Angle	5	Light	12	
16th St		INJ	4	0	2	6								Left Turn	3	Dark	3	
		FTL	0	0	0	0								B/P	0	Twilight	0	
		<b>TOTAL</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>15</b>	<b>5.00</b>	<b>0.44</b>	<b>20000</b>	<b>1.85</b>	<b>1.55</b>	<b>1.24</b>	<b>1.55</b>				<b>15</b>	
16th St	Campbell Ave to Indian Sch	PDO	8	3	9	20								Angle	5	Light	24	
16th St		INJ	4	3	3	10								Left Turn	1	Dark	6	
		FTL	0	0	0	0								B/P	1	Twilight	0	
		<b>TOTAL</b>	<b>12</b>	<b>6</b>	<b>12</b>	<b>30</b>	<b>10.00</b>	<b>0.44</b>	<b>20750</b>	<b>3.58</b>	<b>1.79</b>	<b>3.58</b>	<b>2.98</b>				<b>30</b>	

Appendix E

2008-2010

Road	Segment	Type	Collision History					Rate Calculations					Characteristics				
			2008	2009	2010	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
16th St *Above 2 std. dev's	Thomas to Oak St	PDO	9	15	7	31								Angle	11	Light	42
		INJ	9	10	5	24								Left Turn	7	Dark	11
		FTL	0	0	0	0								B/P	4	Twilight	2
		<b>TOTAL</b>	<b>18</b>	<b>25</b>	<b>12</b>	<b>55</b>	<b>18.33</b>	<b>0.44</b>	<b>26800</b>	<b>4.15</b>	<b>5.77</b>	<b>2.77</b>	<b>4.23</b>				<b>55</b>
16th St	Broadway to Roeser Rd	PDO	4	3	2	9								Angle	6	Light	15
		INJ	4	4	2	10								Left Turn	1	Dark	4
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>8</b>	<b>7</b>	<b>4</b>	<b>19</b>	<b>6.33</b>	<b>0.44</b>	<b>21500</b>	<b>2.30</b>	<b>2.01</b>	<b>1.15</b>	<b>1.82</b>				<b>19</b>
7th St	Utopia Rd to Union Hills Dr	PDO	2	0	3	5								Angle	3	Light	4
		INJ	3	3	0	6								Left Turn	1	Dark	6
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>5</b>	<b>3</b>	<b>3</b>	<b>11</b>	<b>3.67</b>	<b>0.44</b>	<b>30600</b>	<b>1.01</b>	<b>0.61</b>	<b>0.61</b>	<b>0.74</b>				<b>11</b>
7th St	Grovers Ave to Bell Rd	PDO	2	6	11	19								Angle	13	Light	29
		INJ	7	4	4	15								Left Turn	4	Dark	4
		FTL	0	0	0	0								B/P	1	Twilight	1
		<b>TOTAL</b>	<b>9</b>	<b>10</b>	<b>15</b>	<b>34</b>	<b>11.33</b>	<b>0.44</b>	<b>30000</b>	<b>1.85</b>	<b>2.06</b>	<b>3.09</b>	<b>2.34</b>				<b>34</b>
7th St *Above 2 std. dev's	Missouri Ave to Camelback	PDO	23	12	22	57								Angle	20	Light	75
		INJ	11	9	10	30								Left Turn	5	Dark	9
		FTL	0	0	0	0								B/P	3	Twilight	3
		<b>TOTAL</b>	<b>34</b>	<b>21</b>	<b>32</b>	<b>87</b>	<b>29.00</b>	<b>0.44</b>	<b>34000</b>	<b>6.18</b>	<b>3.82</b>	<b>5.82</b>	<b>5.27</b>				<b>87</b>
7th St	Glendale Ave to Maryland	PDO	8	8	5	21								Angle	6	Light	29
		INJ	9	0	4	13								Left Turn	1	Dark	4
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>17</b>	<b>8</b>	<b>9</b>	<b>34</b>	<b>11.33</b>	<b>0.44</b>	<b>30800</b>	<b>3.41</b>	<b>1.61</b>	<b>1.81</b>	<b>2.27</b>				<b>34</b>
7th St *Above 2 std. dev's	Bethany Home Rd to Missouri Ave	PDO	22	15	14	51								Angle	11	Light	66
		INJ	8	10	4	22								Left Turn	6	Dark	4
		FTL	0	0	0	0								B/P	1	Twilight	3
		<b>TOTAL</b>	<b>30</b>	<b>25</b>	<b>18</b>	<b>73</b>	<b>24.33</b>	<b>0.44</b>	<b>27000</b>	<b>6.87</b>	<b>5.72</b>	<b>4.12</b>	<b>5.57</b>				<b>73</b>
7th St *Above 2 std. dev's	Indian School to Osborn Rd	PDO	18	18	14	50								Angle	16	Light	63
		INJ	8	6	9	23								Left Turn	9	Dark	9
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>26</b>	<b>24</b>	<b>23</b>	<b>73</b>	<b>24.33</b>	<b>0.44</b>	<b>31000</b>	<b>5.18</b>	<b>4.79</b>	<b>4.59</b>	<b>4.85</b>				<b>73</b>
7th St	Broadway Rd to Roeser Rd	PDO	4	4	3	11								Angle	4	Light	15
		INJ	4	3	2	9								Left Turn	1	Dark	3
		FTL	0	0	0	0								B/P	0	Twilight	2
		<b>TOTAL</b>	<b>8</b>	<b>7</b>	<b>5</b>	<b>20</b>	<b>6.67</b>	<b>0.44</b>	<b>25000</b>	<b>1.98</b>	<b>1.73</b>	<b>1.24</b>	<b>1.65</b>				<b>20</b>
7th St	Southern to Vineyard Dr	PDO	7	2	3	12								Angle	6	Light	14
		INJ	1	5	2	8								Left Turn	2	Dark	5
		FTL	0	0	0	0								B/P	2	Twilight	1
		<b>TOTAL</b>	<b>8</b>	<b>7</b>	<b>5</b>	<b>20</b>	<b>6.67</b>	<b>0.44</b>	<b>20000</b>	<b>2.47</b>	<b>2.16</b>	<b>1.55</b>	<b>2.06</b>				<b>20</b>
Central	Glendale to Maryland Ave	PDO	2	2	7	11								Angle	4	Light	16
		INJ	3	3	3	9								Left Turn	1	Dark	3
		FTL	0	0	0	0								B/P	1	Twilight	1
		<b>TOTAL</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>20</b>	<b>6.67</b>	<b>0.44</b>	<b>15000</b>	<b>2.06</b>	<b>2.06</b>	<b>4.12</b>	<b>2.75</b>				<b>20</b>
Central	Broadway Rd to Roeser Rd	PDO	4	6	4	14								Angle	7	Light	21
		INJ	7	4	5	16								Left Turn	2	Dark	7
		FTL	0	0	1	1								B/P	3	Twilight	3
		<b>TOTAL</b>	<b>11</b>	<b>10</b>	<b>10</b>	<b>31</b>	<b>10.33</b>	<b>0.44</b>	<b>23000</b>	<b>2.96</b>	<b>2.69</b>	<b>2.69</b>	<b>2.78</b>				<b>31</b>
7th Ave	Union Hills Dr to Grovers Ave	PDO	1	0	2	3								Angle	2	Light	5
		INJ	2	0	0	2								Left Turn	0	Dark	0
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>5</b>	<b>1.67</b>	<b>0.44</b>	<b>18500</b>	<b>1.00</b>	<b>0.00</b>	<b>0.67</b>	<b>0.56</b>				<b>5</b>

Appendix E

2008-2010

Road	Segment	Type	Collision History					Rate Calculations					Characteristics				
			2008	2009	2010	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
7th Ave	Dunlap Rd to Butler Dr	PDO	1	1	3	5								Angle	0	Light	5
		INJ	1	0	0	1								Left Turn	2	Dark	1
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>6</b>	<b>2.00</b>	<b>0.44</b>	<b>14500</b>	<b>0.85</b>	<b>0.43</b>	<b>1.28</b>	<b>0.85</b>				<b>6</b>
7th Ave	Glendale Ave to Maryland	PDO	2	1	1	4								Angle	1	Light	9
		INJ	2	4	0	6								Left Turn	2	Dark	1
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>4</b>	<b>5</b>	<b>1</b>	<b>10</b>	<b>3.33</b>	<b>0.44</b>	<b>17300</b>	<b>1.43</b>	<b>1.79</b>	<b>0.36</b>	<b>1.19</b>				<b>10</b>
7th Ave	Indian School Rd to Osborn	PDO	20	14	4	38								Angle	16	Light	60
*Above 2 std. dev's		INJ	14	7	7	28								Left Turn	5	Dark	5
		FTL	0	0	0	0								B/P	2	Twilight	1
		<b>TOTAL</b>	<b>34</b>	<b>21</b>	<b>11</b>	<b>66</b>	<b>22.00</b>	<b>0.44</b>	<b>27000</b>	<b>7.78</b>	<b>4.81</b>	<b>2.52</b>	<b>5.04</b>				<b>66</b>
19th Ave	Deer Valley to Rose Garden	PDO	7	4	4	15								Angle	6	Light	19
19th Ave	Grovers Ave to Bell Rd	INJ	3	5	1	9								Left Turn	2	Dark	4
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>10</b>	<b>9</b>	<b>5</b>	<b>24</b>	<b>8.00</b>	<b>0.44</b>	<b>24800</b>	<b>2.49</b>	<b>2.24</b>	<b>1.25</b>	<b>1.99</b>				<b>24</b>
19th Ave	Peoria Ave to Mountain Vie	PDO	8	5	2	15								Angle	6	Light	21
19th Ave	Osborn Rd to Thomas	INJ	7	8	3	18								Left Turn	3	Dark	12
		FTL	0	0	0	0								B/P	3	Twilight	0
		<b>TOTAL</b>	<b>15</b>	<b>13</b>	<b>5</b>	<b>33</b>	<b>11.00</b>	<b>0.44</b>	<b>27600</b>	<b>3.36</b>	<b>2.91</b>	<b>1.12</b>	<b>2.46</b>				<b>33</b>
19th Ave	Maryland to Bethany Home	PDO	15	5	8	28								Angle	14	Light	36
19th Ave	Lower Buckeye to Broadwa	INJ	6	7	6	19								Left Turn	11	Dark	11
		FTL	1	0	0	1								B/P	2	Twilight	1
		<b>TOTAL</b>	<b>11</b>	<b>4</b>	<b>0</b>	<b>15</b>	<b>5.00</b>	<b>0.44</b>	<b>20000</b>	<b>3.40</b>	<b>1.24</b>	<b>0.00</b>	<b>1.55</b>				<b>15</b>
19th Ave	Missouri Ave to Camelback	PDO	5	3	7	15								Angle	4	Light	22
27th Ave	Maryland to Bethany Home	INJ	5	4	6	15								Left Turn	1	Dark	8
		FTL	1	0	0	1								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>11</b>	<b>7</b>	<b>13</b>	<b>31</b>	<b>10.33</b>	<b>0.94</b>	<b>32000</b>	<b>1.00</b>	<b>0.64</b>	<b>1.18</b>	<b>0.94</b>				<b>31</b>
27th Ave	Paradise Ln to Greenway R	PDO	3	2	6	11								Angle	4	Light	15
35th Ave	Yorkshire Dr to Union Hills	INJ	4	2	2	8								Left Turn	1	Dark	3
		FTL	0	0	0	0								B/P	1	Twilight	1
		<b>TOTAL</b>	<b>7</b>	<b>4</b>	<b>8</b>	<b>19</b>	<b>6.33</b>	<b>0.44</b>	<b>20000</b>	<b>2.16</b>	<b>1.24</b>	<b>2.47</b>	<b>1.96</b>				<b>19</b>
35th Ave	Thunderbird to Sweetwater	PDO	4	8	8	20								Angle	2	Light	22
35th Ave		INJ	1	3	3	7								Left Turn	2	Dark	5
		FTL	0	0	0	0								B/P	1	Twilight	0
		<b>TOTAL</b>	<b>5</b>	<b>11</b>	<b>11</b>	<b>27</b>	<b>9.00</b>	<b>0.44</b>	<b>20200</b>	<b>1.53</b>	<b>3.37</b>	<b>3.37</b>	<b>2.75</b>				<b>27</b>
35th Ave	Paradise Ln to Greenway R	PDO	5	8	3	16								Angle	11	Light	23
35th Ave		INJ	6	4	4	14								Left Turn	5	Dark	5
		FTL	0	0	0	0								B/P	0	Twilight	2
		<b>TOTAL</b>	<b>11</b>	<b>12</b>	<b>7</b>	<b>30</b>	<b>10.00</b>	<b>0.44</b>	<b>33000</b>	<b>2.06</b>	<b>2.25</b>	<b>1.31</b>	<b>1.87</b>				<b>30</b>
35th Ave	Thunderbird to Sweetwater	PDO	7	5	4	16								Angle	12	Light	29
35th Ave		INJ	7	6	10	23								Left Turn	4	Dark	11
		FTL	1	1	0	2								B/P	2	Twilight	1
		<b>TOTAL</b>	<b>15</b>	<b>12</b>	<b>14</b>	<b>41</b>	<b>13.67</b>	<b>0.44</b>	<b>24000</b>	<b>3.86</b>	<b>3.09</b>	<b>3.61</b>	<b>3.52</b>				<b>41</b>
35th Ave	Thunderbird to Sweetwater	PDO	3	3	6	12								Angle	4	Light	19
35th Ave		INJ	4	8	1	13								Left Turn	3	Dark	6
		FTL	0	0	0	0								B/P	1	Twilight	0
		<b>TOTAL</b>	<b>7</b>	<b>11</b>	<b>7</b>	<b>25</b>	<b>8.33</b>	<b>0.44</b>	<b>28000</b>	<b>1.55</b>	<b>2.43</b>	<b>1.55</b>	<b>1.84</b>				<b>25</b>

Appendix E

2008-2010

Road	Segment	Type	Collision History					Rate Calculations					Characteristics				
			2008	2009	2010	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
35th Ave	Dunlap Rd to Butler Dr	PDO	11	10	7	28								Angle	9	Light	31
		INJ	6	2	7	15								Left Turn	1	Dark	11
		FTL	0	0	0	0								B/P	2	Twilight	1
		<b>TOTAL</b>	<b>17</b>	<b>12</b>	<b>14</b>	<b>43</b>	<b>14.33</b>	<b>0.44</b>	<b>30100</b>	<b>3.49</b>	<b>2.46</b>	<b>2.88</b>	<b>2.94</b>				<b>43</b>
35th Ave	Bethany Home Rd to Misso	PDO	9	6	5	20								Angle	9	Light	16
		INJ	0	4	2	6								Left Turn	1	Dark	9
		FTL	0	0	0	0								B/P	3	Twilight	1
		<b>TOTAL</b>	<b>9</b>	<b>10</b>	<b>7</b>	<b>26</b>	<b>8.67</b>	<b>0.44</b>	<b>26500</b>	<b>2.10</b>	<b>2.33</b>	<b>1.63</b>	<b>2.02</b>				<b>26</b>
35th Ave	Encanto to McDowell Rd	PDO	7	8	8	23								Angle	8	Light	29
		INJ	6	1	6	13								Left Turn	1	Dark	5
		FTL	0	0	0	0								B/P	3	Twilight	2
		<b>TOTAL</b>	<b>13</b>	<b>9</b>	<b>14</b>	<b>36</b>	<b>12.00</b>	<b>0.44</b>	<b>31000</b>	<b>2.59</b>	<b>1.79</b>	<b>2.79</b>	<b>2.39</b>				<b>36</b>
35th Ave	Buckeye to Durango	PDO	6	1	4	11								Angle	8	Light	13
		INJ	3	4	1	8								Left Turn	2	Dark	5
		FTL	0	0	0	0								B/P	1	Twilight	1
		<b>TOTAL</b>	<b>9</b>	<b>5</b>	<b>5</b>	<b>19</b>	<b>6.33</b>	<b>0.44</b>	<b>27200</b>	<b>2.05</b>	<b>1.14</b>	<b>1.14</b>	<b>1.44</b>				<b>19</b>
35th Ave	Lower Buckeye to Broadwa	PDO	11	5	5	21								Angle	8	Light	27
		INJ	5	3	2	10								Left Turn	0	Dark	3
		FTL	0	0	0	0								B/P	1	Twilight	1
		<b>TOTAL</b>	<b>16</b>	<b>8</b>	<b>7</b>	<b>31</b>	<b>10.33</b>	<b>0.94</b>	<b>28000</b>	<b>1.66</b>	<b>0.83</b>	<b>0.73</b>	<b>1.07</b>				<b>31</b>
43rd Ave	Paradise Ln to Greenway R	PDO	0	3	0	3								Angle	0	Light	4
		INJ	0	0	1	1								Left Turn	0	Dark	0
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>1.33</b>	<b>0.44</b>	<b>23300</b>	<b>0.00</b>	<b>0.80</b>	<b>0.27</b>	<b>0.35</b>				<b>4</b>
43rd Ave	Thunderbird to Sweetwater	PDO	6	5	4	15								Angle	9	Light	16
		INJ	2	3	0	5								Left Turn	3	Dark	3
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>8</b>	<b>8</b>	<b>4</b>	<b>20</b>	<b>6.67</b>	<b>0.44</b>	<b>25000</b>	<b>1.98</b>	<b>1.98</b>	<b>0.99</b>	<b>1.65</b>				<b>19</b>
43rd Ave	Cactus Rd to Cholla St	PDO	3	3	3	9								Angle	4	Light	8
		INJ	0	2	0	2								Left Turn	0	Dark	3
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>3</b>	<b>5</b>	<b>3</b>	<b>11</b>	<b>3.67</b>	<b>0.44</b>	<b>29700</b>	<b>0.62</b>	<b>1.04</b>	<b>0.62</b>	<b>0.76</b>				<b>11</b>
43rd Ave	Indian School Rd to Osborn	PDO	13	5	12	30								Angle	8	Light	25
		INJ	2	0	4	6								Left Turn	3	Dark	11
		FTL	0	0	1	1								B/P	1	Twilight	1
		<b>TOTAL</b>	<b>15</b>	<b>5</b>	<b>17</b>	<b>37</b>	<b>12.33</b>	<b>0.44</b>	<b>26400</b>	<b>3.51</b>	<b>1.17</b>	<b>3.98</b>	<b>2.89</b>				<b>37</b>
43rd Ave	Roosevelt to Van Buren	PDO	5	0	0	5								Angle	1	Light	6
		INJ	0	0	1	1								Left Turn	0	Dark	0
		FTL	0	0	0	0								B/P	1	Twilight	0
		<b>TOTAL</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>6</b>	<b>2.00</b>	<b>0.44</b>	<b>32700</b>	<b>0.95</b>	<b>0.00</b>	<b>0.19</b>	<b>0.38</b>				<b>6</b>
51st Ave	Indian School Rd to Osborn	PDO	19	26	17	62								Angle	16	Light	82
		INJ	7	8	12	27								Left Turn	48	Dark	5
		FTL	0	0	0	0								B/P	1	Twilight	2
		<b>TOTAL</b>	<b>26</b>	<b>34</b>	<b>29</b>	<b>89</b>	<b>29.67</b>	<b>0.44</b>	<b>40700</b>	<b>3.95</b>	<b>5.16</b>	<b>4.40</b>	<b>4.51</b>				<b>89</b>
51st Ave	Roosevelt to Van Buren	PDO	9	3	4	16								Angle	2	Light	16
		INJ	1	1	2	4								Left Turn	2	Dark	4
		FTL	0	0	1	1								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>10</b>	<b>4</b>	<b>7</b>	<b>21</b>	<b>7.00</b>	<b>0.44</b>	<b>44000</b>	<b>1.40</b>	<b>0.56</b>	<b>0.98</b>	<b>0.98</b>				<b>21</b>
51st Ave	Van Buren to Buckeye	PDO	10	8	5	23								Angle	1	Light	24
		INJ	4	4	5	13								Left Turn	2	Dark	10
		FTL	0	0	0	0								B/P	0	Twilight	2
		<b>TOTAL</b>	<b>14</b>	<b>12</b>	<b>10</b>	<b>36</b>	<b>12.00</b>	<b>0.94</b>	<b>46023</b>	<b>0.88</b>	<b>0.76</b>	<b>0.63</b>	<b>0.76</b>				<b>36</b>

Appendix E

2008-2010

Road	Segment	Type	Collision History					Rate Calculations					Characteristics				
			2008	2009	2010	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
59th Ave	Thomas Rd to Encanto	PDO	9	5	7	21								Angle	3	Light	20
		INJ	1	1	0	2								Left Turn	5	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>10</b>	<b>6</b>	<b>7</b>	<b>23</b>	<b>7.67</b>	<b>0.44</b>	<b>33000</b>	<b>1.87</b>	<b>1.12</b>	<b>1.31</b>	<b>1.44</b>				<b>23</b>
59th Ave	Indian School to Campbell	PDO	3	2	1	6								Angle	5	Light	9
		INJ	3	2	3	8								Left Turn	0	Dark	3
		FTL	0	0	0	0								B/P	1	Twilight	2
		<b>TOTAL</b>	<b>6</b>	<b>4</b>	<b>4</b>	<b>14</b>	<b>4.67</b>	<b>0.44</b>	<b>22600</b>	<b>1.64</b>	<b>1.09</b>	<b>1.09</b>	<b>1.28</b>				<b>14</b>
67th Ave	Indian School Rd to Osborn	PDO	9	7	6	22								Angle	9	Light	31
		INJ	2	9	5	16								Left Turn	2	Dark	5
		FTL	0	0	0	0								B/P	3	Twilight	2
		<b>TOTAL</b>	<b>11</b>	<b>16</b>	<b>11</b>	<b>38</b>	<b>12.67</b>	<b>0.44</b>	<b>39000</b>	<b>1.74</b>	<b>2.54</b>	<b>1.74</b>	<b>2.01</b>				<b>38</b>
67th Ave	Thomas Rd to Encanto	PDO	8	4	5	17								Angle	12	Light	15
		INJ	5	3	3	11								Left Turn	2	Dark	13
		FTL	0	0	1	1								B/P	4	Twilight	1
		<b>TOTAL</b>	<b>13</b>	<b>7</b>	<b>9</b>	<b>29</b>	<b>9.67</b>	<b>0.44</b>	<b>35000</b>	<b>2.30</b>	<b>1.24</b>	<b>1.59</b>	<b>1.71</b>				<b>29</b>
67th Ave	Van Buren to Buckeye	PDO	10	2	7	19								Angle	0	Light	18
		INJ	2	0	3	5								Left Turn	0	Dark	5
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>12</b>	<b>2</b>	<b>10</b>	<b>24</b>	<b>8.00</b>	<b>0.94</b>	<b>31500</b>	<b>1.11</b>	<b>0.18</b>	<b>0.92</b>	<b>0.74</b>				<b>24</b>
75th Ave	Indian School Rd to Osborn	PDO	4	6	6	16								Angle	3	Light	14
		INJ	2	5	4	11								Left Turn	4	Dark	10
		FTL	0	0	0	0								B/P	1	Twilight	3
		<b>TOTAL</b>	<b>6</b>	<b>11</b>	<b>10</b>	<b>27</b>	<b>9.00</b>	<b>0.44</b>	<b>30700</b>	<b>1.21</b>	<b>2.22</b>	<b>2.01</b>	<b>1.81</b>				<b>27</b>
83rd Ave	Osborn Rd to Thomas	PDO	6	3	2	11								Angle	1	Light	12
		INJ	3	1	1	5								Left Turn	2	Dark	3
		FTL	0	0	0	0								B/P	1	Twilight	1
		<b>TOTAL</b>	<b>9</b>	<b>4</b>	<b>3</b>	<b>16</b>	<b>5.33</b>	<b>0.44</b>	<b>32800</b>	<b>1.70</b>	<b>0.75</b>	<b>0.57</b>	<b>1.01</b>				<b>16</b>
83rd Ave	Encanto to McDowell Rd	PDO	9	7	7	23								Angle	17	Light	18
		INJ	3	1	3	7								Left Turn	1	Dark	9
		FTL	0	0	0	0								B/P	0	Twilight	3
		<b>TOTAL</b>	<b>12</b>	<b>8</b>	<b>10</b>	<b>30</b>	<b>10.00</b>	<b>0.44</b>	<b>28589</b>	<b>2.59</b>	<b>1.73</b>	<b>2.16</b>	<b>2.16</b>				<b>30</b>
48th St	Chandler Blvd to Thistle Ln	PDO	2	1	1	4								Angle	4	Light	8
		INJ	3	0	1	4								Left Turn	0	Dark	0
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>5</b>	<b>1</b>	<b>2</b>	<b>8</b>	<b>2.67</b>	<b>0.44</b>	<b>21000</b>	<b>1.47</b>	<b>0.29</b>	<b>0.59</b>	<b>0.79</b>				<b>8</b>
Chandler Blvd	44th St to 40th St	PDO	3	4	2	9								Angle	4	Light	13
		INJ	4	3	1	8								Left Turn	3	Dark	4
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>7</b>	<b>7</b>	<b>3</b>	<b>17</b>	<b>5.67</b>	<b>0.44</b>	<b>40000</b>	<b>1.08</b>	<b>1.08</b>	<b>0.46</b>	<b>0.88</b>				<b>17</b>

## Collector Segments

2006-2007

Road	Segment	Type	Collision History				Rate Calculations				Characteristics					
			2006	2007	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total	
12th St	Indian School to Campbell	PDO	6	9	15							Angle	5	Light	19	
		INJ	2	3	5							Left Turn	3	Dark	1	
		FTL	0	0	0							B/P	0	Twilight	0	
		<b>TOTAL</b>	<b>8</b>	<b>12</b>	<b>20</b>	<b>10.00</b>	<b>0.44</b>	<b>13100</b>	<b>3.78</b>	<b>5.66</b>	<b>4.72</b>				<b>20</b>	
12th St	Bell Rd to Union Hills	PDO	3	4	7							Angle	4	Light	7	
		INJ	2	2	4							Left Turn	0	Dark	4	
		FTL	0	0	0							B/P	0	Twilight	0	
		<b>TOTAL</b>	<b>5</b>	<b>6</b>	<b>11</b>	<b>5.50</b>	<b>0.94</b>	<b>5030</b>	<b>2.89</b>	<b>3.46</b>	<b>3.18</b>				<b>11</b>	
12th St	Dunlap to Butler Dr	PDO	2	2	4							Angle	2	Light	5	
		INJ	0	3	3							Left Turn	0	Dark	2	
		FTL	0	0	0							B/P	0	Twilight	0	
		<b>TOTAL</b>	<b>2</b>	<b>5</b>	<b>7</b>	<b>3.50</b>	<b>0.44</b>	<b>16620</b>	<b>0.74</b>	<b>1.86</b>	<b>1.30</b>				<b>7</b>	
15th Ave	Broadway to Southern	PDO	9	4	13							Angle	3	Light	10	
*Above 2 std. dev's		INJ	3	1	4							Left Turn	0	Dark	6	
		FTL	0	0	0							B/P	0	Twilight	1	
		<b>TOTAL</b>	<b>12</b>	<b>5</b>	<b>17</b>	<b>8.50</b>	<b>0.94</b>	<b>3600</b>	<b>9.68</b>	<b>4.03</b>	<b>6.86</b>				<b>17</b>	
15th Ave	Osborn Rd to Thomas	PDO	4	5	9							Angle	2	Light	14	
		INJ	5	2	7							Left Turn	5	Dark	2	
		FTL	0	0	0							B/P	0	Twilight	0	
		<b>TOTAL</b>	<b>9</b>	<b>7</b>	<b>16</b>	<b>8.00</b>	<b>0.44</b>	<b>13800</b>	<b>4.03</b>	<b>3.14</b>	<b>3.58</b>				<b>16</b>	
15th Ave	Northern to Glendale	PDO	0	1	1							Angle	2	Light	4	
		INJ	0	3	3							Left Turn	0	Dark	0	
		FTL	0	0	0							B/P	0	Twilight	0	
		<b>TOTAL</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>2.00</b>	<b>0.94</b>	<b>7000</b>	<b>0.00</b>	<b>1.66</b>	<b>0.83</b>				<b>4</b>	
20th st	Bell to Union Hills	PDO	3	0	3							Angle	3	Light	5	
		INJ	2	3	5							Left Turn	0	Dark	3	
		FTL	0	0	0							B/P	0	Twilight	0	
		<b>TOTAL</b>	<b>5</b>	<b>3</b>	<b>8</b>	<b>4.00</b>	<b>0.94</b>	<b>3200</b>	<b>4.54</b>	<b>2.72</b>	<b>3.63</b>				<b>8</b>	
20th St	Campbell to Indian School Rd	PDO	1	4	5							Angle	0	Light	3	
		INJ	0	0	0							Left Turn	0	Dark	2	
		FTL	0	0	0							B/P	0	Twilight	0	
		<b>TOTAL</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>2.50</b>	<b>0.44</b>	<b>11200</b>	<b>0.55</b>	<b>2.21</b>	<b>1.38</b>				<b>5</b>	
23rd Ave	Deer Valley to Rose Garden Ln	PDO	0	4	4							Angle	2	Light	2	
		INJ	1	3	4							Left Turn	0	Dark	6	
		FTL	0	0	0							B/P	0	Twilight	0	
		<b>TOTAL</b>	<b>1</b>	<b>7</b>	<b>8</b>	<b>4.00</b>	<b>0.44</b>	<b>5100</b>	<b>1.21</b>	<b>8.49</b>	<b>4.85</b>				<b>8</b>	
23rd Ave	Missouri Ave to Bethany Home	PDO	1	3	4							Angle	0	Light	4	
		INJ	1	0	1							Left Turn	0	Dark	1	
		FTL	0	0	0							B/P	0	Twilight	0	
		<b>TOTAL</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>2.50</b>	<b>0.44</b>	<b>6200</b>	<b>1.99</b>	<b>2.99</b>	<b>2.49</b>				<b>5</b>	
28th St	Camelback to Campbell	PDO	3	1	4							Angle	0	Light	2	
		INJ	0	0	0							Left Turn	1	Dark	2	
		FTL	0	0	0							B/P	0	Twilight	0	
		<b>TOTAL</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>2.00</b>	<b>0.44</b>	<b>5000</b>	<b>3.71</b>	<b>1.24</b>	<b>2.47</b>				<b>4</b>	

Appendix F

## Collector Segments

2006-2007

Road	Segment	Type	Collision History				Rate Calculations				Characteristics				
			2006	2007	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
31st Ave	Indian School to Camelback	PDO	6	4	10							Angle	6	Light	11
		INJ	3	2	5							Left Turn	0	Dark	2
		FTL	0	0	0							B/P	0	Twilight	2
		<b>TOTAL</b>	<b>9</b>	<b>6</b>	<b>15</b>	<b>7.50</b>	<b>0.94</b>	<b>4700</b>	<b>5.56</b>	<b>3.71</b>	<b>4.64</b>				<b>15</b>
36th St	Cactus to Shea	PDO	0	1	1							Angle	1	Light	2
		INJ	1	2	3							Left Turn	1	Dark	2
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>2.00</b>	<b>0.94</b>	<b>2000</b>	<b>1.45</b>	<b>4.36</b>	<b>2.90</b>				<b>4</b>
36th St	Thunderbird to Cactus	PDO	1	1	2							Angle	0	Light	1
		INJ	0	0	0							Left Turn	0	Dark	1
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1.00</b>	<b>1.06</b>	<b>5000</b>	<b>0.52</b>	<b>0.52</b>	<b>0.52</b>				<b>2</b>
39th Ave	Cactus to Peoria	PDO	1	1	2							Angle	4	Light	7
		INJ	5	3	8							Left Turn	0	Dark	2
		FTL	0	0	0							B/P	1	Twilight	1
		<b>TOTAL</b>	<b>6</b>	<b>4</b>	<b>10</b>	<b>5.00</b>	<b>0.94</b>	<b>4200</b>	<b>4.15</b>	<b>2.77</b>	<b>3.46</b>				<b>10</b>
39th Ave	Thomas to McDowell	PDO	6	3	9							Angle	9	Light	7
		INJ	3	3	6							Left Turn	0	Dark	5
		FTL	0	0	0							B/P	0	Twilight	3
		<b>TOTAL</b>	<b>9</b>	<b>6</b>	<b>15</b>	<b>7.50</b>	<b>0.94</b>	<b>4200</b>	<b>6.22</b>	<b>4.15</b>	<b>5.19</b>				<b>15</b>
39th Ave	McDowell to Van Buren	PDO	4	4	8							Angle	4	Light	5
		INJ	3	2	5							Left Turn	1	Dark	5
		FTL	0	0	0							B/P	1	Twilight	3
		<b>TOTAL</b>	<b>7</b>	<b>6</b>	<b>13</b>	<b>6.50</b>	<b>0.94</b>	<b>4100</b>	<b>4.96</b>	<b>4.25</b>	<b>4.61</b>				<b>13</b>
39th Dr	Happy Valley to Pinnacle Peak R	PDO	0	2	2							Angle	2	Light	4
		INJ	1	2	3							Left Turn	0	Dark	1
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>2.50</b>	<b>0.98</b>	<b>9600</b>	<b>0.29</b>	<b>1.16</b>	<b>0.72</b>				<b>5</b>
44th St	Bell to Greenway	PDO	0	1	1							Angle	1	Light	1
		INJ	0	0	0							Left Turn	0	Dark	0
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0.50</b>	<b>0.94</b>	<b>4000</b>	<b>0.00</b>	<b>0.73</b>	<b>0.36</b>				<b>1</b>
47th Ave	Greenway to Thunderbird	PDO	1	0	1							Angle	1	Light	1
		INJ	0	0	0							Left Turn	0	Dark	0
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0.50</b>	<b>0.94</b>	<b>2050</b>	<b>1.42</b>	<b>0.00</b>	<b>0.71</b>				<b>1</b>
47th Ave	Camelback to Indian School	PDO	1	2	3							Angle	0	Light	2
		INJ	0	1	1							Left Turn	0	Dark	2
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>2.00</b>	<b>0.94</b>	<b>3700</b>	<b>0.79</b>	<b>2.36</b>	<b>1.57</b>				<b>4</b>
52nd St	Thomas to Oak St	PDO	4	2	6							Angle	0	Light	6
		INJ	0	0	0							Left Turn	0	Dark	0
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>4</b>	<b>2</b>	<b>6</b>	<b>3.00</b>	<b>0.44</b>	<b>14600</b>	<b>1.69</b>	<b>0.85</b>	<b>1.27</b>				<b>6</b>

## Collector Segments

2006-2007

Road	Segment	Type	Collision History				Rate Calculations				Characteristics				
			2006	2007	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
60th St	Bell to Greenway	PDO	0	1	1							Angle	0	Light	1
		INJ	1	0	1							Left Turn	0	Dark	1
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1.00</b>	<b>0.94</b>	<b>3626</b>	<b>0.80</b>	<b>0.80</b>	<b>0.80</b>				<b>2</b>
55th Ave	McDowell to Encanto	PDO	3	3	6							Angle	0	Light	1
		INJ	0	0	0							Left Turn	0	Dark	5
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>3.00</b>	<b>0.44</b>	<b>4600</b>	<b>4.03</b>	<b>4.03</b>	<b>4.03</b>				<b>6</b>
71st Ave	Thomas to McDowell	PDO	10	4	14							Angle	6	Light	11
		INJ	2	2	4							Left Turn	0	Dark	5
		FTL	0	0	0							B/P	2	Twilight	2
		<b>TOTAL</b>	<b>12</b>	<b>6</b>	<b>18</b>	<b>9.00</b>	<b>0.94</b>	<b>7233</b>	<b>4.82</b>	<b>2.41</b>	<b>3.61</b>				<b>18</b>
87th Ave	Indian School to Thomas	PDO	1	1	2							Angle	0	Light	1
		INJ	1	0	1							Left Turn	0	Dark	2
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>1.50</b>	<b>0.94</b>	<b>3300</b>	<b>1.76</b>	<b>0.88</b>	<b>1.32</b>				<b>3</b>
Acoma	Tatum to 56th St	PDO	1	3	4							Angle	1	Light	2
		INJ	0	0	0							Left Turn	0	Dark	2
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>2.00</b>	<b>0.94</b>	<b>2000</b>	<b>1.45</b>	<b>4.36</b>	<b>2.90</b>				<b>4</b>
Campbell	24th St to 28th St	PDO	3	2	5							Angle	1	Light	4
		INJ	0	1	1							Left Turn	0	Dark	2
		FTL	0	0	0							B/P	1	Twilight	0
		<b>TOTAL</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>3.00</b>	<b>0.44</b>	<b>7300</b>	<b>2.54</b>	<b>2.54</b>	<b>2.54</b>				<b>6</b>
Campbell	35th Ave to 31st Ave	PDO	2	3	5							Angle	0	Light	4
		INJ	1	0	1							Left Turn	0	Dark	1
		FTL	0	0	0							B/P	1	Twilight	1
		<b>TOTAL</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>3.00</b>	<b>0.44</b>	<b>3500</b>	<b>5.30</b>	<b>5.30</b>	<b>5.30</b>				<b>6</b>
Cholla	32nd St to 40th St	PDO	1	0	1							Angle	2	Light	3
		INJ	1	1	2							Left Turn	1	Dark	0
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>1.50</b>	<b>0.94</b>	<b>2540</b>	<b>2.29</b>	<b>1.14</b>	<b>1.72</b>				<b>3</b>
Durango St	35th Ave to 27th Ave	PDO	2	1	3							Angle	1	Light	6
		INJ	1	2	3							Left Turn	1	Dark	0
		FTL	0	1	1							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>3</b>	<b>4</b>	<b>7</b>	<b>3.50</b>	<b>0.94</b>	<b>9000</b>	<b>0.97</b>	<b>1.29</b>	<b>1.13</b>				<b>7</b>
Elwood St	7th St to 16th St	PDO	1	0	1							Angle	1	Light	1
		INJ	1	0	1							Left Turn	0	Dark	2
		FTL	1	0	1							B/P	1	Twilight	0
		<b>TOTAL</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>1.50</b>	<b>0.94</b>	<b>2070</b>	<b>4.21</b>	<b>0.00</b>	<b>2.10</b>				<b>3</b>
Encanto	43rd Ave to 39th Ave	PDO	0	3	3							Angle	2	Light	3
		INJ	4	0	4							Left Turn	1	Dark	4
		FTL	0	0	0							B/P	1	Twilight	0
		<b>TOTAL</b>	<b>4</b>	<b>3</b>	<b>7</b>	<b>3.50</b>	<b>0.44</b>	<b>4300</b>	<b>5.75</b>	<b>4.31</b>	<b>5.03</b>				<b>7</b>

## Collector Segments

2006-2007

Road	Segment	Type	Collision History				Rate Calculations				Characteristics				
			2006	2007	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Encanto	27th Ave to 31st Ave	PDO	0	1	1							Angle	0	Light	2
		INJ	1	0	1							Left Turn	0	Dark	0
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1.00</b>	<b>0.94</b>	<b>4140</b>	<b>0.70</b>	<b>0.70</b>	<b>0.70</b>				<b>2</b>
Grovers Ave	51st Ave to 43rd Ave	PDO	0	1	1							Angle	0	Light	1
		INJ	1	0	1							Left Turn	0	Dark	1
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1.00</b>	<b>0.94</b>	<b>1700</b>	<b>1.71</b>	<b>1.71</b>	<b>1.71</b>				<b>2</b>
Grovers Ave	35th Ave to 31st Ave	PDO	0	1	1							Angle	0	Light	1
		INJ	1	0	1							Left Turn	0	Dark	1
		FTL	0	0	0							B/P	0	Dawn/Dusk	0
		<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1.00</b>	<b>0.44</b>	<b>2400</b>	<b>2.58</b>	<b>2.58</b>	<b>2.58</b>				<b>2</b>
Grovers Ave	7th St to 16th St	PDO	3	3	6							Angle	5	Light	8
		INJ	2	1	3							Left Turn	0	Dark	1
		FTL	0	0	0							B/P	1	Twilight	0
		<b>TOTAL</b>	<b>5</b>	<b>4</b>	<b>9</b>	<b>4.50</b>	<b>0.94</b>	<b>5000</b>	<b>2.90</b>	<b>2.32</b>	<b>2.61</b>				<b>9</b>
Hatcher	19th ave to 15th Ave	PDO	4	4	8							Angle	4	Light	7
		INJ	2	2	4							Left Turn	1	Dark	5
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>6</b>	<b>6</b>	<b>12</b>	<b>6.00</b>	<b>0.44</b>	<b>14000</b>	<b>2.65</b>	<b>2.65</b>	<b>2.65</b>				<b>12</b>
Knox	36th St to 44th St	PDO	2	1	3							Angle	0	Light	4
		INJ	2	0	2							Left Turn	1	Dark	1
		FTL	0	0	0							B/P	1	Twilight	0
		<b>TOTAL</b>	<b>4</b>	<b>1</b>	<b>5</b>	<b>2.50</b>	<b>0.94</b>	<b>5200</b>	<b>2.23</b>	<b>0.56</b>	<b>1.40</b>				<b>5</b>
Maryland Ave	7th Ave to Central	PDO	3	2	5							Angle	0	Light	5
		INJ	0	1	1							Left Turn	1	Dark	1
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>3.00</b>	<b>0.44</b>	<b>5600</b>	<b>3.31</b>	<b>3.31</b>	<b>3.31</b>				<b>6</b>
Maryland Ave	31st Ave to 27th Ave	PDO	0	2	2							Angle	1	Light	2
		INJ	0	0	0							Left Turn	0	Dark	0
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>1.00</b>	<b>0.44</b>	<b>3940</b>	<b>0.00</b>	<b>3.14</b>	<b>1.57</b>				<b>2</b>
Missouri Ave	15th Ave to 7th Ave	PDO	6	1	7							Angle	4	Light	8
		INJ	1	2	3							Left Turn	1	Dark	1
		FTL	0	0	0							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>7</b>	<b>3</b>	<b>10</b>	<b>5.00</b>	<b>0.44</b>	<b>14900</b>	<b>2.90</b>	<b>1.24</b>	<b>2.07</b>				<b>10</b>
Missouri Ave	7th St to 12th St	PDO	11	8	19							Angle	15	Light	35
		INJ	12	6	18							Left Turn	6	Dark	2
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>23</b>	<b>14</b>	<b>37</b>	<b>18.50</b>	<b>0.94</b>	<b>19000</b>	<b>3.52</b>	<b>2.14</b>	<b>2.83</b>				<b>37</b>
Oak st	32nd St to 36th St	PDO	6	5	11							Angle	5	Light	10
		INJ	0	2	2							Left Turn	0	Dark	2
		FTL	0	0	0							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>6</b>	<b>7</b>	<b>13</b>	<b>6.50</b>	<b>0.44</b>	<b>7880</b>	<b>4.71</b>	<b>5.49</b>	<b>5.10</b>				<b>13</b>

Appendix F

## Collector Segments

2006-2007

Road	Segment	Type	Collision History				Rate Calculations				Characteristics				
			2006	2007	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Oak st	40th St to 44th St	PDO	2	3	5							Angle	2	Light	6
		INJ	3	0	3							Left Turn	0	Dark	1
		FTL	0	0	0							B/P	0	Twilight	1
		<b>TOTAL</b>	<b>5</b>	<b>3</b>	<b>8</b>	<b>4.00</b>	<b>0.44</b>	<b>4900</b>	<b>6.31</b>	<b>3.78</b>	<b>5.05</b>				<b>8</b>
Orangewood	35th Ave to 27th Ave	PDO	0	1	1							Angle	0	Light	1
		INJ	1	0	1							Left Turn	0	Dark	1
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1.00</b>	<b>0.94</b>	<b>3200</b>	<b>0.91</b>	<b>0.91</b>	<b>0.91</b>				<b>2</b>
Osborn Rd	44th St to 48th St	PDO	0	1	1							Angle	0	Light	0
		INJ	0	0	0							Left Turn	1	Dark	1
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0.50</b>	<b>0.44</b>	<b>4757</b>	<b>0.00</b>	<b>1.30</b>	<b>0.65</b>				<b>1</b>
Osborn Rd	32nd St to 36th St	PDO	0	1	1							Angle	0	Light	2
		INJ	1	1	2							Left Turn	0	Dark	1
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>1.50</b>	<b>0.44</b>	<b>5000</b>	<b>1.24</b>	<b>2.47</b>	<b>1.85</b>				<b>3</b>
Osborn Rd	43rd Ave to 35th Ave	PDO	8	6	14							Angle	5	Light	12
		INJ	3	4	7							Left Turn	0	Dark	9
		FTL	0	0	0							B/P	4	Twilight	0
		<b>TOTAL</b>	<b>11</b>	<b>10</b>	<b>21</b>	<b>10.50</b>	<b>0.94</b>	<b>6968</b>	<b>4.59</b>	<b>4.17</b>	<b>4.38</b>				<b>21</b>
Osborn Rd	7th Ave to 15th Ave	PDO	5	2	7							Angle	4	Light	7
		INJ	1	2	3							Left Turn	2	Dark	3
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>6</b>	<b>4</b>	<b>10</b>	<b>5.00</b>	<b>0.44</b>	<b>15000</b>	<b>2.47</b>	<b>1.65</b>	<b>2.06</b>				<b>10</b>
Paradise Ln	Tatum to 56th St	PDO	0	1	1							Angle	1	Light	2
		INJ	2	0	2							Left Turn	0	Dark	1
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>1.50</b>	<b>0.94</b>	<b>2200</b>	<b>2.64</b>	<b>1.32</b>	<b>1.98</b>				<b>3</b>
Roosevelt St	35th Ave to 43rd Ave	PDO	8	9	17							Angle	4	Light	7
		INJ	5	0	5							Left Turn	1	Dark	10
		FTL	0	0	0							B/P	1	Twilight	5
		<b>TOTAL</b>	<b>13</b>	<b>9</b>	<b>22</b>	<b>11.00</b>	<b>0.94</b>	<b>5600</b>	<b>6.74</b>	<b>4.67</b>	<b>5.71</b>				<b>22</b>
Roosevelt St	59th Ave to 55th Ave	PDO	0	1	1							Angle	1	Light	2
		INJ	0	1	1							Left Turn	0	Dark	0
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>1.00</b>	<b>0.44</b>	<b>7160</b>	<b>0.00</b>	<b>1.73</b>	<b>0.86</b>				<b>2</b>
Rose Garden Ln	19th Ave to 7th Ave	PDO	2	1	3							Angle	1	Light	5
		INJ	1	1	2							Left Turn	0	Dark	0
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>3</b>	<b>2</b>	<b>5</b>	<b>2.50</b>	<b>0.94</b>	<b>3800</b>	<b>2.29</b>	<b>1.53</b>	<b>1.91</b>				<b>5</b>
Sweetwater	35th Ave to 43rd Ave	PDO	1	3	4							Angle	1	Light	3
		INJ	0	0	0							Left Turn	1	Dark	1
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>2.00</b>	<b>0.94</b>	<b>2730</b>	<b>1.06</b>	<b>3.19</b>	<b>2.13</b>				<b>4</b>

Appendix F

**Collector Segments**

2006-2007

Road	Segment	Type	Collision History				Rate Calculations				Characteristics				
			2006	2007	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2006 (Colls/Million Vehicles)	2007 (Colls/Million Vehicles)	2 Year Average	Type of collision	Total	Light Condition	Total
Sweetwater Ave	56th St to 64th St	PDO	0	0	0							Angle	1	Light	1
		INJ	0	1	1							Left Turn	0	Dark	0
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0.50</b>	<b>0.94</b>	<b>3000</b>	<b>0.00</b>	<b>0.97</b>	<b>0.48</b>				<b>1</b>
Utopia	Cave Creek to 32nd St	PDO	1	0	1							Angle	0	Light	2
		INJ	1	1	2							Left Turn	0	Dark	1
		FTL	0	0	0							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>1.50</b>	<b>0.94</b>	<b>1600</b>	<b>3.63</b>	<b>1.82</b>	<b>2.72</b>				<b>3</b>
Yorkshire Dr.	35th Ave to 31st Ave	PDO	2	1	3							Angle	0	Light	3
		INJ	1	0	1							Left Turn	1	Dark	2
		FTL	1	0	1							B/P	0	Twilight	0
		<b>TOTAL</b>	<b>4</b>	<b>1</b>	<b>5</b>	<b>2.50</b>	<b>0.45</b>	<b>14600</b>	<b>1.67</b>	<b>0.42</b>	<b>1.04</b>				<b>5</b>

Appendix F

2008-2010

Road	Segment	Type	Collision History					Rate Calculations					Characteristics				
			2008	2009	2010	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
12th St *Above 2 std. dev's	Indian School to Campbell	PDO	5	5	9	19								Angle	8	Light	22
		INJ	3	1	2	6								Left Turn	3	Dark	3
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>8</b>	<b>6</b>	<b>11</b>	<b>25</b>	<b>8.33</b>	<b>0.44</b>	<b>10950</b>	<b>4.52</b>	<b>3.39</b>	<b>6.21</b>	<b>4.70</b>				<b>25</b>
12th St	Bell Rd to Union Hills	PDO	4	6	1	11								Angle	8	Light	13
		INJ	1	1	2	4								Left Turn	1	Dark	2
		FTL	0	0	0	0								B/P	1	Twilight	0
		<b>TOTAL</b>	<b>5</b>	<b>7</b>	<b>3</b>	<b>15</b>	<b>5.00</b>	<b>0.94</b>	<b>3483</b>	<b>4.17</b>	<b>5.84</b>	<b>2.50</b>	<b>4.17</b>				<b>15</b>
12th St	Dunlap to Butler Dr	PDO	4	3	3	10								Angle	5	Light	10
		INJ	1	1	3	5								Left Turn	0	Dark	4
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>5</b>	<b>4</b>	<b>6</b>	<b>15</b>	<b>5.00</b>	<b>0.44</b>	<b>14230</b>	<b>2.17</b>	<b>1.74</b>	<b>2.61</b>	<b>2.17</b>				<b>15</b>
15th Ave	Broadway to Southern	PDO	2	2	1	5								Angle	2	Light	6
		INJ	2	2	1	5								Left Turn	0	Dark	4
		FTL	0	0	0	0								B/P	3	Twilight	0
		<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>2</b>	<b>10</b>	<b>3.33</b>	<b>0.94</b>	<b>2740</b>	<b>4.24</b>	<b>4.24</b>	<b>2.12</b>	<b>3.53</b>				<b>10</b>
15th Ave	Osborn Rd to Thomas	PDO	6	1	2	9								Angle	2	Light	9
		INJ	0	0	2	2								Left Turn	2	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>6</b>	<b>1</b>	<b>4</b>	<b>11</b>	<b>3.67</b>	<b>0.44</b>	<b>12300</b>	<b>3.02</b>	<b>0.50</b>	<b>2.01</b>	<b>1.84</b>				<b>11</b>
15th Ave	Northern to Glendale	PDO	1	1	4	6								Angle	3	Light	5
		INJ	1	0	1	2								Left Turn	0	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>5</b>	<b>8</b>	<b>2.67</b>	<b>0.94</b>	<b>5000</b>	<b>1.16</b>	<b>0.58</b>	<b>2.90</b>	<b>1.55</b>				<b>8</b>
20th st	Bell to Union Hills	PDO	1	0	2	3								Angle	3	Light	5
		INJ	1	1	1	3								Left Turn	2	Dark	1
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>6</b>	<b>2.00</b>	<b>0.94</b>	<b>2204</b>	<b>2.64</b>	<b>1.32</b>	<b>3.95</b>	<b>2.64</b>				<b>6</b>
20th St	Campbell to Indian School Rd	PDO	1	2	1	4								Angle	4	Light	7
		INJ	3	1	2	6								Left Turn	0	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>10</b>	<b>3.33</b>	<b>0.44</b>	<b>7014</b>	<b>3.53</b>	<b>2.64</b>	<b>2.64</b>	<b>2.94</b>				<b>10</b>
23rd Ave	Deer Valley to Rose Garden Ln	PDO	1	2	2	5								Angle	1	Light	9
		INJ	2	0	3	5								Left Turn	0	Dark	1
		FTL	0	0	0	0								B/P	1	Twilight	0
		<b>TOTAL</b>	<b>3</b>	<b>2</b>	<b>5</b>	<b>10</b>	<b>3.33</b>	<b>0.44</b>	<b>10280</b>	<b>1.80</b>	<b>1.20</b>	<b>3.01</b>	<b>2.00</b>				<b>10</b>
23rd Ave	Missouri Ave to Bethany Home	PDO	2	1	1	4								Angle	1	Light	1
		INJ	2	0	0	2								Left Turn	1	Dark	4
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>6</b>	<b>2.00</b>	<b>0.44</b>	<b>4144</b>	<b>5.97</b>	<b>1.49</b>	<b>1.49</b>	<b>2.98</b>				<b>6</b>
28th St	Camelback to Campbell	PDO	1	0	3	4								Angle	0	Light	7
		INJ	0	0	3	3								Left Turn	0	Dark	0
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>1</b>	<b>0</b>	<b>6</b>	<b>7</b>	<b>2.33</b>	<b>0.44</b>	<b>7016</b>	<b>0.88</b>	<b>0.00</b>	<b>5.29</b>	<b>2.06</b>				<b>7</b>
31st Ave	Indian School to Camelback	PDO	5	3	1	9								Angle	6	Light	6
		INJ	0	1	1	2								Left Turn	0	Dark	3
		FTL	0	0	0	0								B/P	0	Twilight	2
		<b>TOTAL</b>	<b>5</b>	<b>4</b>	<b>2</b>	<b>11</b>	<b>3.67</b>	<b>0.94</b>	<b>3887</b>	<b>3.74</b>	<b>2.99</b>	<b>1.49</b>	<b>2.74</b>				<b>11</b>
36th St	Cactus to Shea	PDO	3	0	1	4								Angle	2	Light	2
		INJ	0	0	0	0								Left Turn	0	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>1.33</b>	<b>0.94</b>	<b>2690</b>	<b>3.24</b>	<b>0.00</b>	<b>1.08</b>	<b>1.44</b>				<b>4</b>

Appendix F

2008-2010

Road	Segment	Type	Collision History					Rate Calculations					Characteristics				
			2008	2009	2010	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
36th St	Thunderbird to Cactus	PDO	0	0	2	2								Angle	3	Light	4
		INJ	1	3	0	4								Left Turn	0	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>6</b>	<b>2.00</b>	<b>1.06</b>	<b>3900</b>	<b>0.66</b>	<b>1.98</b>	<b>1.32</b>	<b>1.32</b>				<b>6</b>
39th Ave	Cactus to Peoria	PDO	2	4	2	8								Angle	7	Light	11
		INJ	2	2	2	6								Left Turn	2	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>4</b>	<b>6</b>	<b>4</b>	<b>14</b>	<b>4.67</b>	<b>0.94</b>	<b>3700</b>	<b>3.14</b>	<b>4.71</b>	<b>3.14</b>	<b>3.66</b>				<b>14</b>
39th Ave	Thomas to McDowell	PDO	2	4	1	7								Angle	2	Light	5
		INJ	1	0	0	1								Left Turn	0	Dark	3
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>8</b>	<b>2.67</b>	<b>0.94</b>	<b>4100</b>	<b>2.13</b>	<b>2.83</b>	<b>0.71</b>	<b>1.89</b>				<b>8</b>
39th Ave	McDowell to Van Buren	PDO	1	2	1	4								Angle	4	Light	5
		INJ	3	0	0	3								Left Turn	1	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>7</b>	<b>2.33</b>	<b>0.94</b>	<b>2500</b>	<b>4.65</b>	<b>2.32</b>	<b>1.16</b>	<b>2.71</b>				<b>7</b>
39th Dr	Happy Valley to Pinnacle Peak R	PDO	2	1	1	4								Angle	5	Light	7
		INJ	2	2	1	5								Left Turn	1	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>9</b>	<b>3.00</b>	<b>0.98</b>	<b>8660</b>	<b>1.28</b>	<b>0.96</b>	<b>0.64</b>	<b>0.96</b>				<b>9</b>
44th St	Bell to Greenway	PDO	1	2	0	3								Angle	0	Light	3
		INJ	0	0	0	0								Left Turn	0	Dark	0
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>1.00</b>	<b>0.94</b>	<b>2900</b>	<b>1.00</b>	<b>2.00</b>	<b>0.00</b>	<b>1.00</b>				<b>3</b>
47th Ave	Greenway to Thunderbird	PDO	2	1	1	4								Angle	2	Light	4
		INJ	0	2	0	2								Left Turn	0	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>6</b>	<b>2.00</b>	<b>0.94</b>	<b>1900</b>	<b>3.06</b>	<b>4.59</b>	<b>1.53</b>	<b>3.06</b>				<b>6</b>
47th Ave	Camelback to Indian School	PDO	2	3	0	5								Angle	2	Light	5
		INJ	1	0	0	1								Left Turn	0	Dark	1
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>6</b>	<b>2.00</b>	<b>0.94</b>	<b>2808</b>	<b>3.10</b>	<b>3.10</b>	<b>0.00</b>	<b>2.07</b>				<b>6</b>
52nd St	Thomas to Oak St	PDO	0	1	4	5								Angle	3	Light	4
		INJ	0	1	0	1								Left Turn	0	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>0</b>	<b>2</b>	<b>4</b>	<b>6</b>	<b>2.00</b>	<b>0.44</b>	<b>7600</b>	<b>0.00</b>	<b>1.63</b>	<b>3.25</b>	<b>1.63</b>				<b>6</b>
60th St	Bell to Greenway	PDO	1	3	1	5								Angle	3	Light	6
		INJ	1	0	0	1								Left Turn	0	Dark	0
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>6</b>	<b>2.00</b>	<b>0.94</b>	<b>3300</b>	<b>1.76</b>	<b>2.64</b>	<b>0.88</b>	<b>1.76</b>				<b>6</b>
55th Ave	McDowell to Encanto	PDO	3	1	2	6								Angle	1	Light	2
		INJ	0	0	0	0								Left Turn	0	Dark	3
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>6</b>	<b>2.00</b>	<b>0.44</b>	<b>3644</b>	<b>5.09</b>	<b>1.70</b>	<b>3.39</b>	<b>3.39</b>				<b>6</b>
71st Ave	Thomas to McDowell	PDO	4	3	4	11								Angle	2	Light	9
		INJ	1	2	0	3								Left Turn	2	Dark	5
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>5</b>	<b>5</b>	<b>4</b>	<b>14</b>	<b>4.67</b>	<b>0.94</b>	<b>2702</b>	<b>5.38</b>	<b>5.38</b>	<b>4.30</b>	<b>5.02</b>				<b>14</b>
87th Ave	Indian School to Thomas	PDO	6	6	1	13								Angle	3	Light	7
		INJ	1	1	0	2								Left Turn	0	Dark	8
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>7</b>	<b>7</b>	<b>1</b>	<b>15</b>	<b>5.00</b>	<b>0.94</b>	<b>2660</b>	<b>7.64</b>	<b>7.64</b>	<b>1.09</b>	<b>5.46</b>				<b>15</b>

Appendix F

Appendix F

2008-2010

Road	Segment	Type	Collision History					Rate Calculations					Characteristics				
			2008	2009	2010	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
Acoma	Tatum to 56th St	PDO	1	0	0	1								Angle	1	Light	1
		INJ	1	0	0	1								Left Turn	0	Dark	1
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0.67</b>	<b>0.94</b>	<b>2400</b>	<b>2.42</b>	<b>0.00</b>	<b>0.00</b>	<b>0.81</b>				<b>2</b>
Campbell	24th St to 28th St	PDO	5	2	1	8								Angle	3	Light	7
		INJ	2	1	0	3								Left Turn	2	Dark	4
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>7</b>	<b>3</b>	<b>1</b>	<b>11</b>	<b>3.67</b>	<b>0.44</b>	<b>8500</b>	<b>5.09</b>	<b>2.18</b>	<b>0.73</b>	<b>2.67</b>				<b>11</b>
Campbell	35th Ave to 31st Ave	PDO	3	1	0	4								Angle	1	Light	3
		INJ	0	0	0	0								Left Turn	0	Dark	1
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>4</b>	<b>1.33</b>	<b>0.44</b>	<b>3000</b>	<b>6.18</b>	<b>2.06</b>	<b>0.00</b>	<b>2.75</b>				<b>4</b>
Cholla	32nd St to 40th St	PDO	1	1	5	7								Angle	2	Light	8
		INJ	1	0	0	1								Left Turn	0	Dark	0
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>5</b>	<b>8</b>	<b>2.67</b>	<b>0.94</b>	<b>3500</b>	<b>1.66</b>	<b>0.83</b>	<b>4.15</b>	<b>2.21</b>				<b>8</b>
Durango St	35th Ave to 27th Ave	PDO	7	2	0	9								Angle	3	Light	10
		INJ	2	0	3	5								Left Turn	2	Dark	4
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>9</b>	<b>2</b>	<b>3</b>	<b>14</b>	<b>4.67</b>	<b>0.94</b>	<b>9260</b>	<b>2.82</b>	<b>0.63</b>	<b>0.94</b>	<b>1.46</b>				<b>14</b>
Elwood St	7th St to 16th St	PDO	1	0	0	1								Angle	1	Light	2
		INJ	1	1	0	2								Left Turn	0	Dark	1
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>1.00</b>	<b>0.94</b>	<b>1500</b>	<b>3.87</b>	<b>1.94</b>	<b>0.00</b>	<b>1.94</b>				<b>3</b>
Encanto	43rd Ave to 39th Ave	PDO	2	2	2	6								Angle	4	Light	6
		INJ	2	0	0	2								Left Turn	1	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>8</b>	<b>2.67</b>	<b>0.44</b>	<b>3680</b>	<b>6.72</b>	<b>3.36</b>	<b>3.36</b>	<b>4.48</b>				<b>8</b>
Encanto	27th Ave to 31st Ave	PDO	3	1	2	6								Angle	1	Light	3
		INJ	0	1	0	1								Left Turn	1	Dark	4
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>7</b>	<b>2.33</b>	<b>0.94</b>	<b>3000</b>	<b>2.90</b>	<b>1.94</b>	<b>1.94</b>	<b>2.26</b>				<b>7</b>
Grovers Ave	51st Ave to 43rd Ave	PDO	3	3	1	7								Angle	3	Light	4
		INJ	0	1	2	3								Left Turn	0	Dark	4
		FTL	0	0	0	0								B/P	0	Twilight	2
		<b>TOTAL</b>	<b>3</b>	<b>4</b>	<b>3</b>	<b>10</b>	<b>3.33</b>	<b>0.94</b>	<b>2600</b>	<b>3.35</b>	<b>4.47</b>	<b>3.35</b>	<b>3.72</b>				<b>10</b>
Grovers Ave	35th Ave to 31st Ave	PDO	0	0	0	0								Angle	0	Light	0
		INJ	0	0	0	0								Left Turn	0	Dark	0
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0.44</b>	<b>2318</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>				<b>0</b>
Grovers Ave	7th St to 16th St	PDO	3	2	1	6								Angle	5	Light	5
		INJ	1	0	0	1								Left Turn	0	Dark	2
		FTL	0	0	0	0								B/P	1	Twilight	0
		<b>TOTAL</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>7</b>	<b>2.33</b>	<b>0.94</b>	<b>3370</b>	<b>3.45</b>	<b>1.72</b>	<b>0.86</b>	<b>2.01</b>				<b>7</b>
Hatcher	19th ave to 15th Ave	PDO	2	0	0	2								Angle	2	Light	4
		INJ	0	2	0	2								Left Turn	0	Dark	0
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>4</b>	<b>1.33</b>	<b>0.44</b>	<b>11200</b>	<b>1.10</b>	<b>1.10</b>	<b>0.00</b>	<b>0.74</b>				<b>4</b>
Knox	36th St to 44th St	PDO	3	3	3	9								Angle	4	Light	8
		INJ	3	1	0	4								Left Turn	1	Dark	4
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>6</b>	<b>4</b>	<b>3</b>	<b>13</b>	<b>4.33</b>	<b>0.94</b>	<b>4610</b>	<b>3.78</b>	<b>2.52</b>	<b>1.89</b>	<b>2.73</b>				<b>13</b>

Appendix F

2008-2010

Road	Segment	Type	Collision History					Rate Calculations					Characteristics				
			2008	2009	2010	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
Maryland Ave	7th Ave to Central	PDO	3	0	1	4								Angle	0	Light	3
		INJ	0	0	0	0								Left Turn	0	Dark	1
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>1.33</b>	<b>0.44</b>	<b>4960</b>	<b>3.74</b>	<b>0.00</b>	<b>1.25</b>	<b>1.66</b>				<b>4</b>
Maryland Ave	31st Ave to 27th Ave	PDO	2	0	0	2								Angle	0	Light	0
		INJ	0	0	0	0								Left Turn	0	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0.67</b>	<b>0.44</b>	<b>2500</b>	<b>4.95</b>	<b>0.00</b>	<b>0.00</b>	<b>1.65</b>				<b>2</b>
Missouri Ave	15th Ave to 7th Ave	PDO	0	1	1	2								Angle	0	Light	2
		INJ	0	0	0	0								Left Turn	0	Dark	0
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>0.67</b>	<b>0.44</b>	<b>7412</b>	<b>0.00</b>	<b>0.83</b>	<b>0.83</b>	<b>0.56</b>				<b>2</b>
Missouri Ave	7th St to 12th St	PDO	7	11	6	24								Angle	13	Light	28
		INJ	2	2	9	13								Left Turn	6	Dark	6
		FTL	0	0	0	0								B/P	0	Twilight	3
		<b>TOTAL</b>	<b>9</b>	<b>13</b>	<b>15</b>	<b>37</b>	<b>12.33</b>	<b>0.94</b>	<b>20000</b>	<b>1.31</b>	<b>1.89</b>	<b>2.18</b>	<b>1.79</b>				<b>37</b>
Oak st	32nd St to 36th St	PDO	5	1	0	6								Angle	4	Light	8
		INJ	0	1	1	2								Left Turn	1	Dark	0
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>5</b>	<b>2</b>	<b>1</b>	<b>8</b>	<b>2.67</b>	<b>0.44</b>	<b>6400</b>	<b>4.83</b>	<b>1.93</b>	<b>0.97</b>	<b>2.58</b>				<b>8</b>
Oak st	40th St to 44th St	PDO	0	1	1	2								Angle	1	Light	3
		INJ	1	0	0	1								Left Turn	0	Dark	0
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>1.00</b>	<b>0.44</b>	<b>5000</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>	<b>1.24</b>				<b>3</b>
Orangewood	35th Ave to 27th Ave	PDO	1	1	1	3								Angle	2	Light	2
		INJ	0	0	0	0								Left Turn	1	Dark	2
		FTL	0	0	1	1								B/P	1	Twilight	0
		<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>1.33</b>	<b>0.94</b>	<b>2623</b>	<b>1.11</b>	<b>1.11</b>	<b>2.21</b>	<b>1.48</b>				<b>4</b>
Osborn Rd	44th St to 48th St	PDO	0	1	1	2								Angle	0	Light	2
		INJ	1	1	0	2								Left Turn	0	Dark	2
		FTL	0	0	0	0								B/P	1	Twilight	0
		<b>TOTAL</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>4</b>	<b>1.33</b>	<b>0.44</b>	<b>4100</b>	<b>1.51</b>	<b>3.02</b>	<b>1.51</b>	<b>2.01</b>				<b>4</b>
Osborn Rd	32nd St to 36th St	PDO	0	1	0	1								Angle	0	Light	0
		INJ	0	0	0	0								Left Turn	0	Dark	0
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0.33</b>	<b>0.44</b>	<b>4390</b>	<b>0.00</b>	<b>1.41</b>	<b>0.00</b>	<b>0.47</b>				<b>1</b>
Osborn Rd	43rd Ave to 35th Ave	PDO	4	3	4	11								Angle	1	Light	12
		INJ	0	0	2	2								Left Turn	2	Dark	0
		FTL	0	0	0	0								B/P	0	Twilight	1
		<b>TOTAL</b>	<b>4</b>	<b>3</b>	<b>6</b>	<b>13</b>	<b>4.33</b>	<b>0.94</b>	<b>7930</b>	<b>1.47</b>	<b>1.10</b>	<b>2.20</b>	<b>1.59</b>				<b>13</b>
Osborn Rd	7th Ave to 15th Ave	PDO	0	3	1	4								Angle	1	Light	9
		INJ	4	0	1	5								Left Turn	0	Dark	0
		FTL	0	0	0	0								B/P	1	Twilight	0
		<b>TOTAL</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>9</b>	<b>3.00</b>	<b>0.44</b>	<b>12500</b>	<b>1.98</b>	<b>1.48</b>	<b>0.99</b>	<b>1.48</b>				<b>9</b>
Paradise Ln	Tatum to 56th St	PDO	0	2	0	2								Angle	1	Light	2
		INJ	0	0	2	2								Left Turn	1	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>1.33</b>	<b>0.94</b>	<b>2500</b>	<b>0.00</b>	<b>2.32</b>	<b>2.32</b>	<b>1.55</b>				<b>4</b>
Roosevelt St	35th Ave to 43rd Ave	PDO	1	8	3	12								Angle	8	Light	10
		INJ	1	1	1	3								Left Turn	0	Dark	5
		FTL	0	0	0	0								B/P	1	Twilight	0
		<b>TOTAL</b>	<b>2</b>	<b>9</b>	<b>4</b>	<b>15</b>	<b>5.00</b>	<b>0.94</b>	<b>3870</b>	<b>1.50</b>	<b>6.76</b>	<b>3.00</b>	<b>3.75</b>				<b>15</b>

Appendix F

2008-2010

Road	Segment	Type	Collision History					Rate Calculations					Characteristics				
			2008	2009	2010	Total	Average (collisions/yr)	Length (miles)	Volume (veh/day)	2008 (Colls/Million Vehicles)	2009 (Colls/Million Vehicles)	2010 (Colls/Million Vehicles)	3 Year Average	Type of collision	Total	Light Condition	Total
Roosevelt St	59th Ave to 55th Ave	PDO	0	0	0	0								Angle	0	Light	0
		INJ	0	0	0	0								Left Turn	0	Dark	0
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0.44</b>	<b>4744</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>				<b>0</b>
Rose Garden Ln	19th Ave to 7th Ave	PDO	2	0	1	3								Angle	3	Light	5
		INJ	1	1	2	4								Left Turn	0	Dark	2
		FTL	0	0	0	0								B/P	1	Twilight	0
		<b>TOTAL</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>7</b>	<b>2.33</b>	<b>0.94</b>	<b>4730</b>	<b>1.84</b>	<b>0.61</b>	<b>1.84</b>	<b>1.43</b>				<b>7</b>
Sweetwater	35th Ave to 43rd Ave	PDO	3	1	0	4								Angle	4	Light	5
		INJ	1	2	1	4								Left Turn	1	Dark	3
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>8</b>	<b>2.67</b>	<b>0.94</b>	<b>4000</b>	<b>2.90</b>	<b>2.18</b>	<b>0.73</b>	<b>1.94</b>				<b>8</b>
Sweetwater Ave	56th St to 64th St	PDO	0	0	0	0								Angle	0	Light	1
		INJ	1	0	0	1								Left Turn	0	Dark	0
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0.33</b>	<b>0.94</b>	<b>3231</b>	<b>0.90</b>	<b>0.00</b>	<b>0.00</b>	<b>0.30</b>				<b>1</b>
Utopia	Cave Creek to 32nd St	PDO	2	0	0	2								Angle	3	Light	3
		INJ	1	2	0	3								Left Turn	0	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>5</b>	<b>1.67</b>	<b>0.94</b>	<b>2600</b>	<b>3.35</b>	<b>2.23</b>	<b>0.00</b>	<b>1.86</b>				<b>5</b>
Yorkshire Dr.	35th Ave to 31st Ave	PDO	1	1	0	2								Angle	2	Light	2
		INJ	1	0	1	2								Left Turn	0	Dark	2
		FTL	0	0	0	0								B/P	0	Twilight	0
		<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>1.33</b>	<b>0.45</b>	<b>12340</b>	<b>0.99</b>	<b>0.49</b>	<b>0.49</b>	<b>0.66</b>				<b>4</b>

# 2010 Phoenix Collision Rate Summary

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## Acknowledgements

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