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TECHNICAL MEMORANDUM

Date: July 7, 2021 *Project Number:* 089-388

To: Joanna X.J. Liu, P.E.
Assistant Civil Engineer *Project Name:* East Avenue Corridor Study

From: Ruta Jariwala
Project Manager *Jurisdiction:* City of Livermore

Subject: **Collision Data Analysis – East Avenue Corridor**

This technical memorandum summarizes the collision analysis results conducted on East Avenue, between S Livermore Avenue and Vasco Road, from January 2015 to December 2019, as part of the East Avenue Corridor Study. This memorandum includes the following information:

- Summary of findings
- Data collection
- Collision data analysis results
- Collision rate analysis

1. SUMMARY OF FINDINGS

This section summarizes the collision analysis findings, as per severity, yearly trend, primary violation factor, type of collision, time of day, lighting condition, and facility type. During the five-year period, 110 collisions were recorded in the database.

Intersection Key Findings

- A total of 88 collisions occurred at intersections.
- Broadside (26%) and rear-end (25%) collisions were the most common collision types.
- About 2% of the intersection collision were fatal and severe injury (FSI) collisions, and 54% were property damage only collisions.
- Improper turning (20%), unsafe speed (19%), and automobile right-of-way violation (16%) were the most common primary violation factors.
- About 30% of the collisions occurred between 4:00 PM and 8:00 PM.

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- 70% of collisions occurred in daylight, 27% occurred in dark locations but had streetlights present, 1% occurred in dark locations without streetlight, and 2% occurred during dusk or dawn.
- The intersection of East Avenue and Jensen Street recorded the highest number of collisions (16 collisions) out of 88 intersection collisions.
- East Avenue and Jensen Street intersection had the highest intersection collision rate (0.433 per million vehicle-miles of travel).

Roadway Segment Key Findings

- A total of 22 collisions occurred along roadway segments.
- Broadside (32%), rear-end (32%), and sideswipe (27%) collisions were the most common collision types.
- About 50% of the roadway segment collisions were property damage only (PDO) collisions, 18% were visible injury collisions, and the remaining 32% collisions included complain of pain.
- Improper turning (33%), automobile right-of-way (23%), and unsafe speed (18%) were the most common primary violation factors.
- Most collisions occurred between 8:00 AM and 10:00 AM, 2:00 PM and 4:00 PM, and 6:00 PM and 8:00 PM (at 18% each).
- About 77% of the collisions occurred during daylight, and the rest 23% occurred in dark locations but had street light present.
- The segment of East Avenue between S Livermore Avenue and Estates Avenue recorded the highest number of collisions (11 collisions) out of 22 roadway segment collisions.
- East Avenue, from Estates Street to Madison Avenue, had the highest collision rate (0.491 per million vehicle-miles of travel).

2. DATA COLLECTION

Collision Data

A five-year collision data, from 2015 to 2019, was retrieved from the City of Livermore through the Crossroads Software's Traffic Collision Database. The collision data was collected only along the study segment's extent, i.e., East Avenue corridor between Livermore Avenue and Vasco Road. Crossroads dataset includes collisions of 4 levels of severity and property damage only (PDO). The essential information analyzed had collision severity, collision types, primary violation factors, time of day, lighting conditions, and geographic co-ordinates.

Volume Data

Average Daily Traffic (ADT) counts (2016) at roadway segments were obtained from the City of Livermore. Turning Movement Counts (TMC) at intersections were collected through field observation on September 16, 2020 (during COVID-19 pandemic period) for a.m. and p.m. peak periods. The counts were then adjusted to pre-COVID-19 conditions based on past counts and volume balancing. This data was

validated using data collected from Streetlight¹. TMC at intersections and ADT on roadway segments can be found in **Attachment A**.

3. COLLISION DATA ANALYSIS RESULTS

Based on the collision data, a total of 110 collisions were reported from the year 2015 to 2019. Out of the total collisions, 80% (88) collisions occurred at an intersection, and 20% (22) collisions occurred on roadway segments. Note that collisions that occurred within a 150-foot radius of an intersection were considered as intersection collisions. Collisions that occurred at a distance greater than 150 feet were considered occurring at a mid-block location, i.e., at a roadway segment. The number of collisions that occurred each year, as per facility type, is shown in **Table 1**.

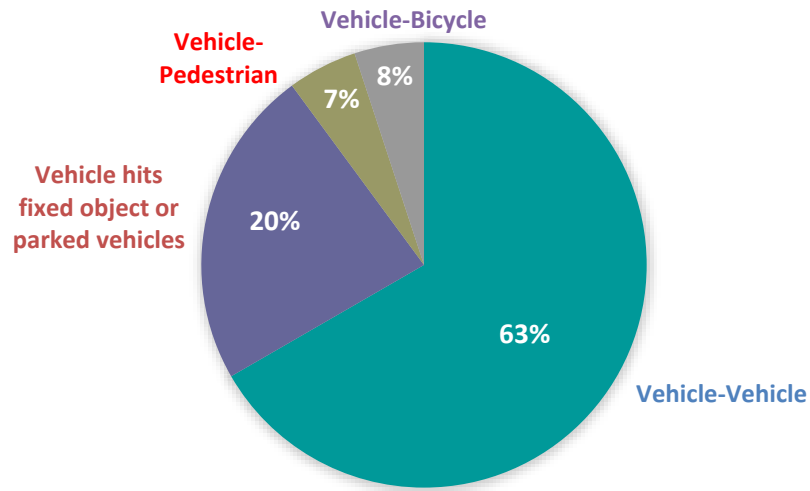
Table 1. Intersection and Roadway Segment Collisions by Year

Facility Type	2015	2016	2017	2018	2019	Total
Roadway Segment Collisions	6	5	1	3	7	22
Intersection Collisions	16	18	21	18	15	88
Total	22	23	22	21	22	110

Based on the collision data, out of the 88 collisions that occurred at an intersection, as shown in **Figure 1**, 63% were vehicle-vehicle collisions, 20% vehicles hit fixed objects or parked cars, 7% were vehicle-pedestrian, and 8% were vehicle-bicycle collisions.

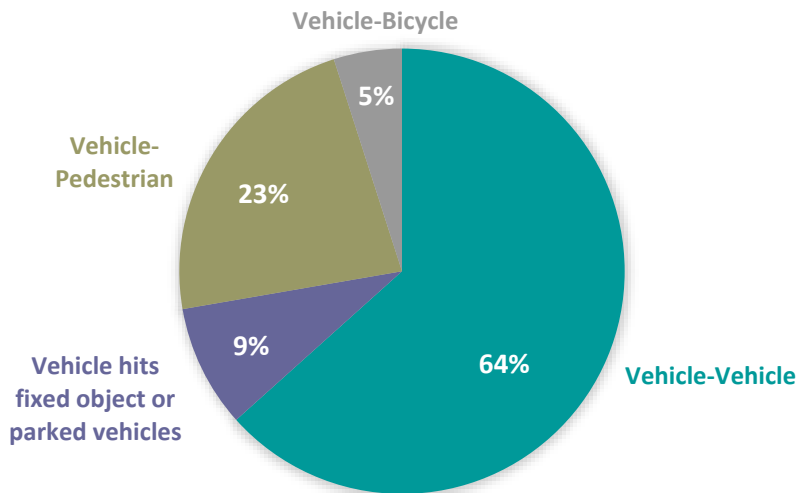
¹ Streetlight is a web-based software that allows transportation planners, modelers, and engineers to run dynamic analytics on billions of bits of travel information gathered from multiple sources such as smartphones, navigation-GPS connected in motor vehicles, and wearable devices (referred to as Big Data). Big Data platform uses location-based services (LBS), supported by other contextual data such as the US Census, American Community Surveys, road network maps, and parcel data.

Figure 1. Intersection Collision Type



As shown in **Figure 2**, out of the 21 collisions at roadway segments, 64% were vehicle-vehicle collisions, 23% were vehicle-pedestrian, 5% were vehicle-bicycle collisions, and 9% were vehicles hit fixed objects.

Figure 2. Roadway Segment Collision Type

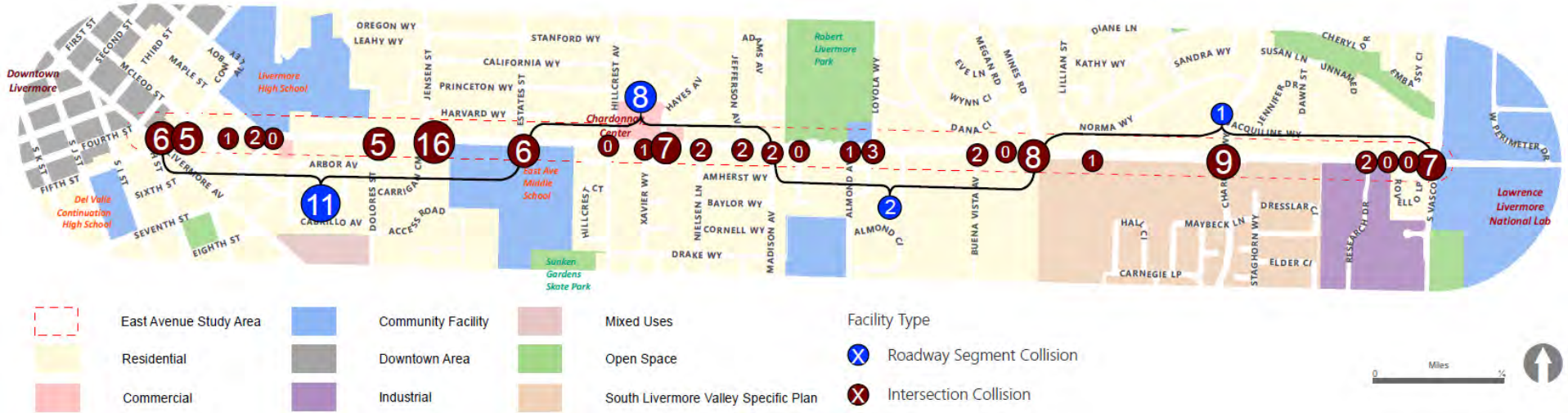


All the collisions occurring on East Avenue, between the intersection of S Livermore Avenue and Vasco Road were further analyzed based on facility type by the following factors:

- Collision Types
- Collision Severity
- Primary Violation Factors
- Time of Day
- Lighting

Figure 3 shows the locations of collisions at intersections and on roadway segments.

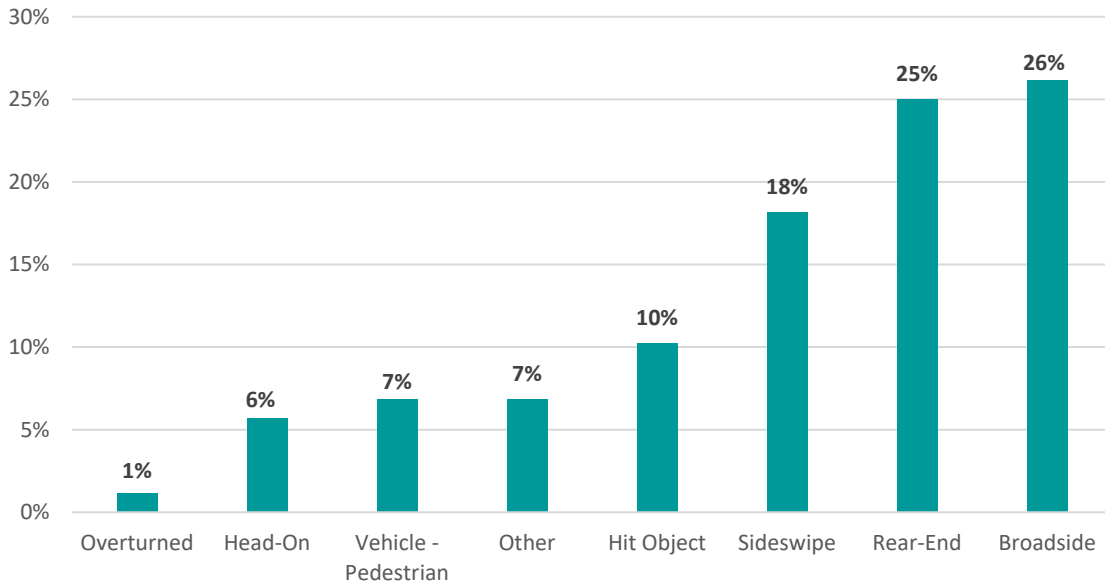
Figure 3. Collisions by Facility Type



3.1 INTERSECTION ANALYSIS

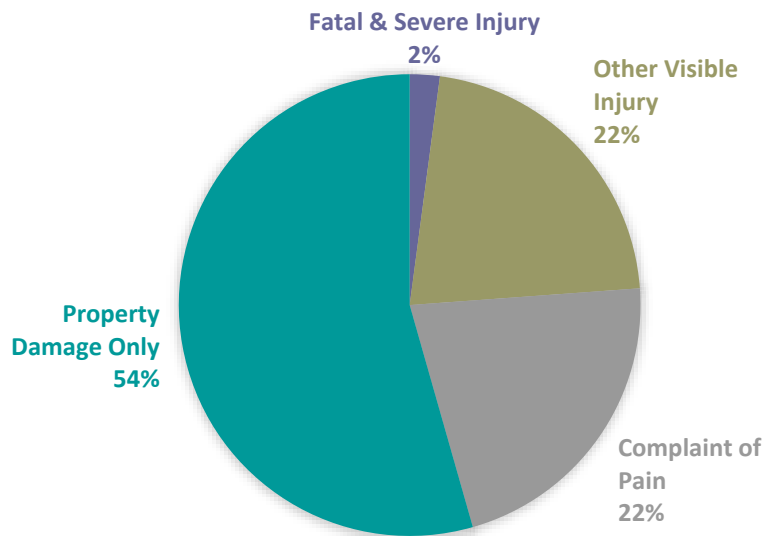
Broadside (26%) and rear-end (25%) collisions were the most commonly occurring collision types at intersections. Other significant collision types included sideswipe (18%) and hit object (10%).

Figure 4. Intersection Collision Type



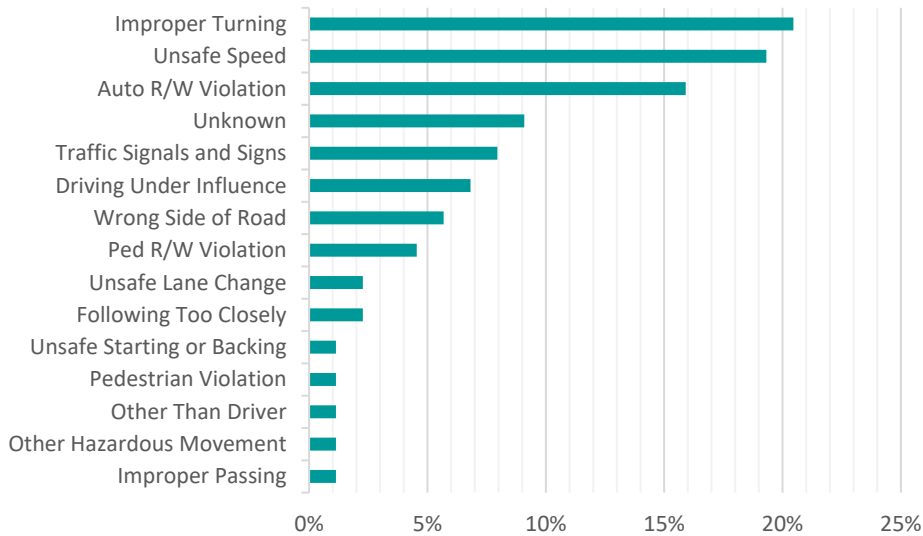
Vehicle-pedestrian collisions resulted in two reported FSI collisions. About 2% of the intersection collisions were FSI collisions, and 54% were PDO collisions.

Figure 5. Intersection Collision Severity



Improper turning (20%), unsafe speed (19%), and automobile right-of-way violation (16%) were the most common primary collision factors that lead to collisions at intersections in the study area.

Figure 6. Intersection Primary Collision Factor



About 30% of the collisions occurred between 4:00 PM and 8:00 PM. 70% of collisions occurred in daylight, 27% occurred in dark locations but had streetlights present, 1% occurred in dark locations without streetlight, and 2% occurred during dusk or dawn.

Table 2 summarizes the intersection collision analysis based on all the factors analyzed.

Table 2. Intersection Collision Analysis

Collision Attribute	2015		2016		2017		2018		2019		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
Collisions by Mode												
Pedestrian	1	1%	2	2%					3	3%	6	7%
Bicycle			1	1%	1	1%	2	2%	3	3%	7	8%
Other Motor Vehicle	9	10%	12	14%	16	18%	11	13%	7	8%	55	63%
Parked Motor Vehicle	3	3%	3	3%	2	2%	1	1%			9	10%
Fixed Object	2	2%	0	0%	1	1%	4	4%	1	1%	8	9%
Other	1	1%			1	1%			1	1%	3	3%
Total	16	18%	18	20%	21	24%	18	20%	15	17%	88	100%
Collision Type												
Broadside	6	7%	2	2%	8	9%	6	7%	1	1%	23	26%
Head-On					3	3%	2	2%			5	6%
Hit Object	2	2%			1	1%	4	4%	2	2%	9	10%

Collision Attribute	2015		2016		2017		2018		2019		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
Collision Type												
Overtuned					1	1%					1	1%
Rear-End	2	2%	9	10%	4	4%	2	2%	5	6%	22	25%
Sideswipe	4	4%	5	6%	3	3%	3	3%	1	1%	16	18%
Vehicle Pedestrian	1	1%	2	2%					3	3%	6	7%
Other	1	1%			1	1%	1	1%	3	3%	6	7%
Total	16	18%	18	20%	21	24%	18	20%	15	17%	88	100%
Severity												
Fatal									1	1%	1	1%
Severe Injury									1	1%	1	1%
Other Visible Injury	2	2%	4	4%	5	6%	5	6%	3	3%	19	22%
Complaint of Pain	1	1%	5	6%	4	4%	5	6%	4	4%	19	22%
Property Damage Only	13	15%	9	10%	12	14%	8	9%	6	7%	48	54%
Total	16	18%	18	20%	21	24%	18	20%	15	17%	88	100%
Primary Collision Factor												
Automobile R/W Violation	1	1%	1	1%	6	7%	6	7%			14	16%
Driving Under Influence			1	1%	1	1%	3	3%	1	1%	6	7%
Following Too Closely	1	1%					1	1%			2	2%
Improper Passing	1	1%									1	1%
Improper Turning	9	10%	3	3%	3	3%	2	2%	1	1%	18	20%
Other Hazardous Movement					1	1%					1	1%
Other Than Driver			1	1%							1	1%
Pedestrian R/W Violation	1	1%	1	1%					2	2%	4	5%
Pedestrian Violation									1	1%	1	1%
Traffic Signals and Signs	1	1%			3		2	2%	1	1%	7	8%
Unknown	1	1%	1	1%	3	3%	1	1%	2	2%	8	9%
Unsafe Lane Change			1	1%	1	1%					2	2%
Unsafe Speed	1	1%	7	8%	3	3%	1	1%	5	6%	17	19%
Unsafe Starting or Backing			1	1%							1	1%
Wrong Side of Road			1	1%			2	2%	2	2%	5	6%
Total	16	18%	18	20%	21	24%	18	20%	15	17%	88	100%
Time of Day												
12:00 AM-2:00 AM			1	1%	1	1%	2	2%	1	1%	5	6%
2:00 AM-4:00 AM											0	0%
4:00 AM-6:00 AM			1	1%	1	1%	1	1%			3	3%

Collision Attribute	2015		2016		2017		2018		2019		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
Time of Day												
6:00 AM-8:00 AM	1	1%	2	2%	1	1%			1	1%	5	6%
8:00 AM-10:00 AM	1	1%	2	2%	1	1%			2	2%	6	7%
10:00 AM-12:00 PM	4	4%	3	3%	1	1%	3	3%	1	1%	12	14%
12:00 PM-2:00 PM	1	1%	2	2%	4	4%	1	1%	2	2%	10	11%
2:00 PM-4:00 PM	1	1%	2	2%	5	6%	1	1%	1	1%	10	11%
4:00 PM-6:00 PM	3	3%	2	2%	2	2%	3	3%	3	3%	13	15%
6:00 PM-8:00 PM	4	4%	1	1%	2	2%	4	4%	2	2%	13	15%
8:00 PM-10:00 PM	1	1%	2	2%	2	2%			2	2%	7	8%
10:00 PM-12:00 AM					1	1%	3	3%			4	5%
Total	16	18%	18	20%	21	24%	18	20%	15	17%	88	100%
Lighting												
Dark No Street Lights									1	1%	1	1%
Dark Street Lights	1	1%	6	7%	6	7%	7	8%	3	3%	23	26%
Daylight	13	15%	12	14%	15	17%	11	13%	11	13%	62	70%
Dusk Dawn	2	2%									2	2%
Total	16	18%	18	20%	21	24%	18	20%	15	17%	88	100%

Note: Red cell indicates the highest contribution in each attribute type, followed by blue as the second-highest and yellow as the third-highest

The intersection of East Avenue and Jensen Street had the maximum number of collisions. **Table 3** lists the number of collisions that occurred at each intersection in the study area.

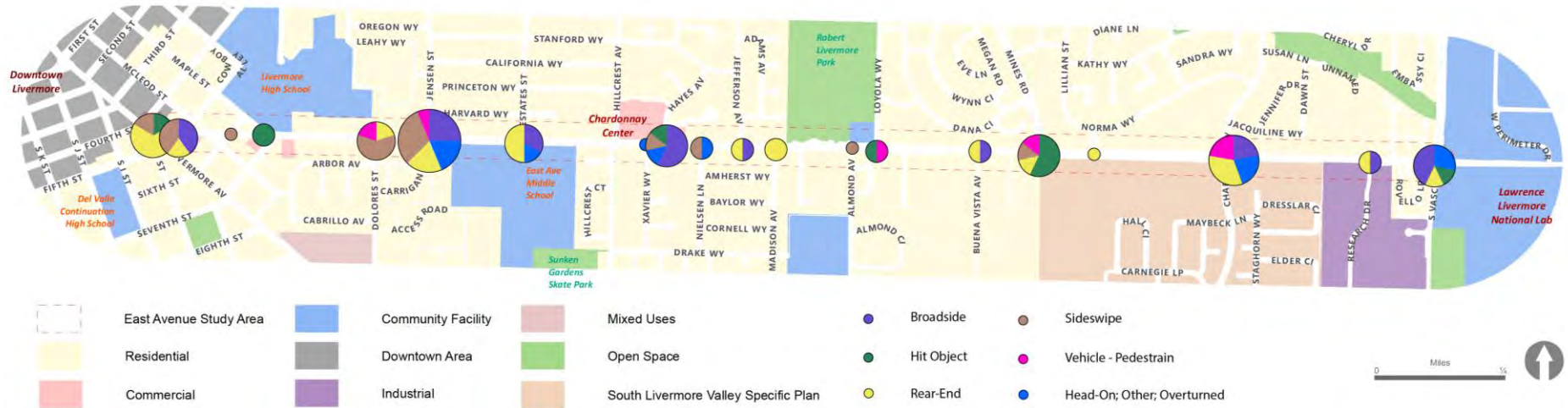
Table 3. Collisions per Intersection

Rank	Intersection	#Collisions
1	East Avenue/Jensen Street	16
2	East Avenue/Charlotte Way	9
3	East Avenue/Mines Road	8
4	East Avenue/Hayes Avenue	7
4	East Avenue/Vasco Road	7
5	East Avenue/Estates Street	6
5	East Avenue/S Livermore Avenue	6
6	East Avenue/5 th Street	5

Rank	Intersection	#Collisions
6	East Avenue/Dolores Street	5
7	East Avenue/Loyola Way	3
8	East Avenue/Buena Vista Avenue	2
8	East Avenue/Jefferson Avenue	2
8	East Avenue/Madison Avenue	2
8	East Avenue/Nielsen Lane	2
8	East Avenue/Research Drive	2
8	East Avenue/Maple Street	2
9	East Avenue/Almond Avenue	1
9	East Avenue/Mitra Street	1
9	East Avenue/6 th Street	1
9	East Avenue/Xavier Way	1
10	East Avenue/7 th Street	0
10	East Avenue/Hillcrest Avenue	0
10	East Avenue/Auburn Street	0
10	East Avenue/Calvary Lane	0
10	East Avenue/Birchwood Common	0
10	East Avenue/Rovello Loop	0

Figure 7 shows the type of collisions at intersections on East Avenue.

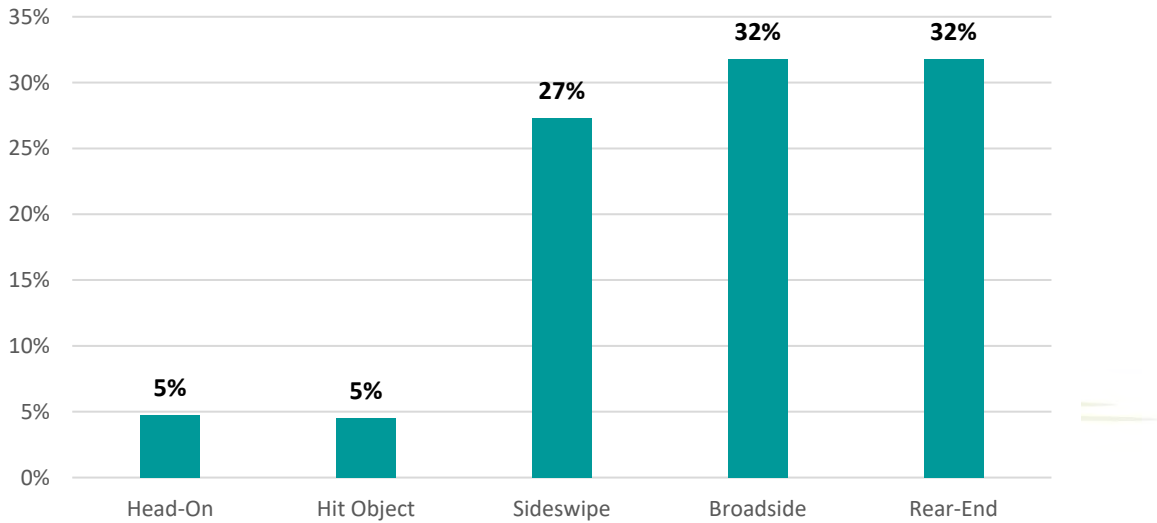
Figure 7. Types of Collisions at Intersections



3.2 ROADWAY SEGMENT ANALYSIS

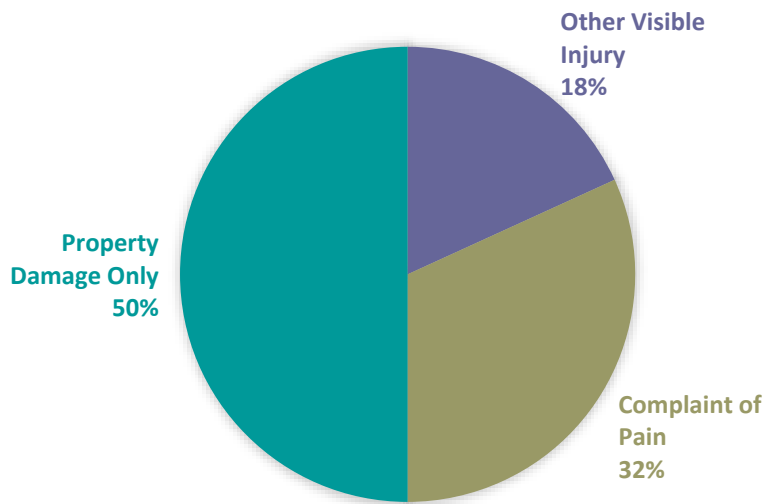
For the collisions observed at mid-block locations (or roadway segments), the most common collision types were broadside (32%), rear-end (32%), and sideswipe (27%) collisions.

Figure 8. Roadway Segment Collision Type



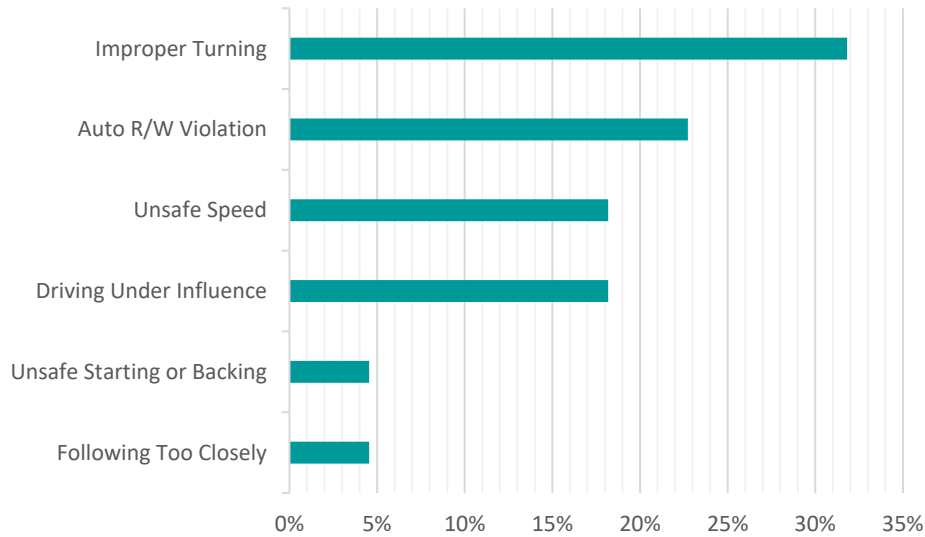
About 50% of the roadway segment collisions were property damage only collisions, and 18% were visible injury collisions. There were no fatalities or severe injury collisions.

Figure 9. Roadway Segment Collision Severity



Improper turning (33%), automobile right-of-way (24%), and unsafe speed (19%) were the most common primary collision factors leading to collisions at roadway segments in the study area.

Figure 10. Roadway Segment Primary Collision Factor



Most collisions occurred between 8:00 AM and 10:00 AM, 2:00 PM and 4:00 PM, and 6:00 PM and 8:00 PM (at 18% each). About 77% of the collisions occurred during daylight, and the rest 23% occurred in dark locations but had street light present.

Table 4 summarizes the roadway segment collision analysis based on all the factors analyzed.

Table 4. Roadway Segment Collision Analysis

Collision Attribute	2015		2016		2017		2018		2019		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
Mode												
Pedestrian												
Bicycle			1	5%							1	5%
Other Motor Vehicle	3	14%	2	9%	1	5%	3	14%	5	23%	14	64%
Parked Vehicle	3	14%							2	9%	5	23%
Fixed Object			2	9%							2	9%
Others												
Total	6	27%	5	23%	1	5%	3	14%	7	32%	22	100%
Collision Type												
Broadside	2	9%	2	9%	1	5%	1	5%	1	5%	7	32%
Head-On			1	5%							1	5%
Hit Object			1	5%							1	5%
Overtaken												
Rear-End	1	5%	1	5%			2	9%	3	14%	7	32%

Collision Attribute	2015		2016		2017		2018		2019		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
Collision Type												
Sideswipe	3	14%							3	14%	6	27%
Vehicle-Pedestrian												
Other												
Total	6	27%	5	23%	1	5%	3	14%	7	32%	22	100%
Severity												
Other Visible Injury			1	5%	1	5%	1	5%	1	5%	4	18%
Complaint of Pain	2	9%	2	9%			1	5%	2	9%	7	32%
Property Damage Only	4	18%	2	5%			1	5%	4	18%	11	50%
Total	6	27%	5	23%	1	5%	3	14%	7	32%	22	100%
Primary Collision Factor												
Automobile R/W Violation	1	5%	2	2%	1	5%			1	5%	5	23%
Driving Under Influence	2	9%	2	9%							4	18%
Following Too Closely							1	5%			1	5%
Improper Turning	3	14%					1	5%	3	14%	7	32%
Unsafe Speed			1	5%			1	5%	2	10%	4	18%
Unsafe Starting or Backing									1	5%	1	5%
Total	6	27%	5	23%	1	5%	3	14%	7	32%	22	100%
Time of Day												
4:00 AM-6:00 AM									1	5%	1	5%
6:00 AM-8:00 AM			1	5%			1	5%			2	9%
8:00 AM-10:00 AM	1	5%					1	5%	2	9%	4	18%
10:00 AM-12:00 PM					1	5%					1	5%
2:00 PM-4:00 PM			2	9%			1	5%	1	5%	4	18%
4:00 PM-6:00 PM	1	5%	1	5%					1	5%	3	14%
6:00 PM-8:00 PM	3	14%							1	5%	4	18%
8:00 PM-10:00 PM									1	5%	1	5%
10:00 PM-12:00 AM	1	5%	1	5%							2	9%
Total	6	27%	5	23%	1	5%	3	14%	7	32%	22	100%
Lighting												
Dark Street Lights	1	5%	1	5%					3	14%	5	23%
Daylight	5	23%	4	18%	1	5%	3	14%	4	18%	17	77%
Total	6	29%	5	23%	1	5%	3	14%	7	32%	22	100%

Note: Red cell indicates the highest contribution in each attribute type followed by blue as the second-highest and yellow as the third-highest

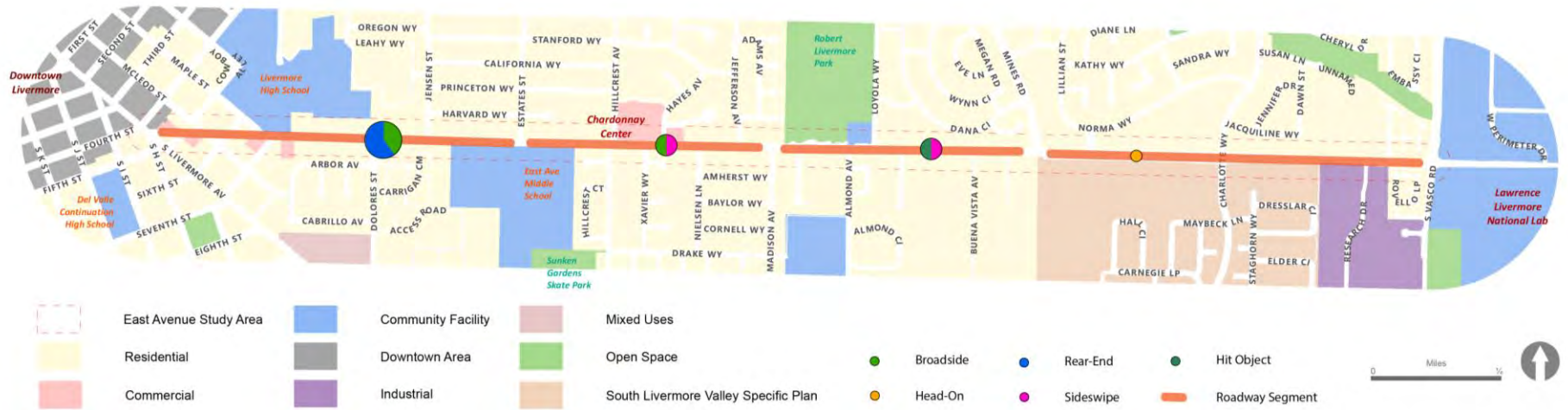
The segment on East Avenue between S Livermore Avenue and Estates Avenue had the maximum number of collisions. **Table 5** lists the number of collisions that occurred at each segment in the study area.

Table 5. Collisions per Roadway Segment

Rank	From	To	# Collisions
1	East Avenue/S Livermore Avenue	East Avenue/Estates Street	11
2	East Avenue/Estates Street	East Avenue/Madison Avenue	8
3	East Avenue/Madison Avenue	East Avenue/Mines Road	2
4	East Avenue/Mines Road	East Avenue/Vasco Road	1

Figure 11 shows the types of collision on four roadway segments of East Avenue study area.

Figure 11. Types of Collision on Roadway Segment



4. COLLISION RATE ANALYSIS

A collision rate analysis was conducted for collisions that occurred both at intersections and roadway segments in the study area. Collision rates were calculated for each study intersection and study segment separately. Note that the collision rates are conservative since the average daily traffic for minor streets were not available.

4.1 INTERSECTION COLLISION RATES

Table 6 summarizes the total number of collisions reported at the study intersections during the five-year analysis period and the calculated intersection collision rate for each intersection. The collision rates at the intersections along the study corridor were compared with the Caltrans statewide mean collision rates for intersections² with similar characteristics, such as intersection geometry and control type. **Attachment A** contains the complete dataset used to conduct the collision analysis, including intersection type, control type, and average daily traffic.

Table 6. Intersection Collision Rate Summary

#	Study Intersections	Total # of Collisions (2016-2019)	Caltrans Statewide Average Collision Rate ¹ per million vehicle-miles of travel	Intersection Collision Rate (ICR) per million vehicle-miles of travel	Intersection Collision Rate > Statewide Average Collision Rate per million vehicle-miles of travel
1	East Avenue/Jensen Street	16	0.08	0.433	Yes
2	East Avenue/Charlotte Way	9	0.24	0.303	Yes
3	East Avenue/Mines Road	8	0.19	0.208	Yes
4	East Avenue/Hayes Avenue	7	0.08	0.199	Yes
5	East Avenue/Vasco Road	7	0.24	0.172	No
6	East Avenue/Estates Street	6	0.08	0.175	Yes
7	East Avenue/S Livermore Avenue	6	0.19	0.18	No
8	East Avenue/5 th Street	5	0.08	0.15	Yes
9	East Avenue/Dolores Street	5	0.19	0.132	No
10	East Avenue/Loyola Way	3	0.19	0.091	No

² 2016 Collision Data on California State Highways, Basic Average Accident Rate Table for Intersections, Page 86 and 87

#	Study Intersections	Total # of Collisions (2016-2019)	Caltrans Statewide Average Collision Rate ¹ per million vehicle-miles of travel	Intersection Collision Rate (ICR) per million vehicle-miles of travel	Intersection Collision Rate > Statewide Average Collision Rate per million vehicle-miles of travel
11	East Avenue/Buena Vista Avenue	2	0.08	0.059	No
12	East Avenue/Jefferson Avenue	2	0.08	0.061	No
13	East Avenue/Madison Avenue	2	0.19	0.062	No
14	East Avenue/Nielsen Lane	2	0.08	0.060	No
15	East Avenue/Research Drive	2	0.08	0.089	Yes
16	East Avenue/Maple Street	2	0.19	0.066	No
17	East Avenue/Almond Avenue	1	0.08	0.029	No
18	East Avenue/Mitra Street	1	0.08	0.035	No
19	East Avenue/6 th Street	1	0.19	0.042	No
20	East Avenue/Xavier Way	1	0.08	0.031	No
21	East Avenue/7th Street	0	0.08	0	No
22	East Avenue/Hillcrest Avenue	0	0.19	0	No
23	East Avenue/Auburn Street	0	0.08	0	No
24	East Avenue/Calvary Lane	0	0.05	0	No
25	East Avenue/Birchwood Common	0	0.05	0	No
26	East Avenue/Rovello Loop	0	0.08	0	No

Source: Field Data Collection on 9/16/2020

Notes: $ICR = \frac{\text{Number of accidents}}{\text{vehicles miles traveled}} = \frac{1000000 * A}{365 * T * ADT}$

A = Number of collisions over study period

T = Total number of years over which intersection accidents were collected; January 2015 to December 2019 = 5 years

ADT = Average Daily Traffic (2020 data collected at intersections)

¹Obtained from 2016 Collision Data on California State Highways, Basic Average Accident Rate Table - Intersections, Page 86 and 87

4.2 ROADWAY SEGMENT COLLISION RATES

Table 7 summarizes the total number of collisions reported at roadway segments during the five-year analysis period and the calculated roadway segment collision rate for each segment in the study area. The collision rates of each roadway segment along the study corridor were compared with the Caltrans statewide mean collision rates for roadways³ with similar characteristics, such as roadway type (divided or undivided), number of lanes, terrain, and speed limit. The analysis determined that all of the roadway segments on East Avenue had a collision rate lower than the state average, as shown in the table below.

Attachment A contains the complete dataset used to conduct the collision analysis, including roadway type, number of lanes, speed limit, and average daily traffic.

Table 7. Roadway Segment Collision Rate Summary

#	Roadway Segment	Total # of Collisions (2016-2019)	Length (in miles)	ADT ⁴	Caltrans Statewide Average Collision Rate ² per million vehicle-miles of travel	Roadway Segment Collision Rate (RSCR) per million vehicle-miles of travel	Roadway Segment Collision Rate > Statewide Average Collision Rate
1	East Avenue from S Livermore Avenue to Estates Street	11	0.73	21,269	1.98	0.388	No
2	East Avenue from Estates Street to Madison Avenue	8	0.50	17,842	1.98	0.491	No
3	East Avenue from Madison Avenue to Mines Road	2	0.52	17,842	1.98	0.118	No
4	East Avenue from Mines Road to Vasco Road	1	0.78	11,032	1.71	0.064	No

Source: City of Livermore

Notes: $RSCR \text{ (Observed collision rate)} = 1000000 * A / (L * 365 * T * ADT)$

A = Number of collisions over study period

L = Length of the study segment in miles

³ 2016 Collision Data on California State Highways, Basic Average Accident Rate Table for Roadway Segments, Page 83 and 84

⁴ 2016 Average Daily Traffic collected from the City of Livermore



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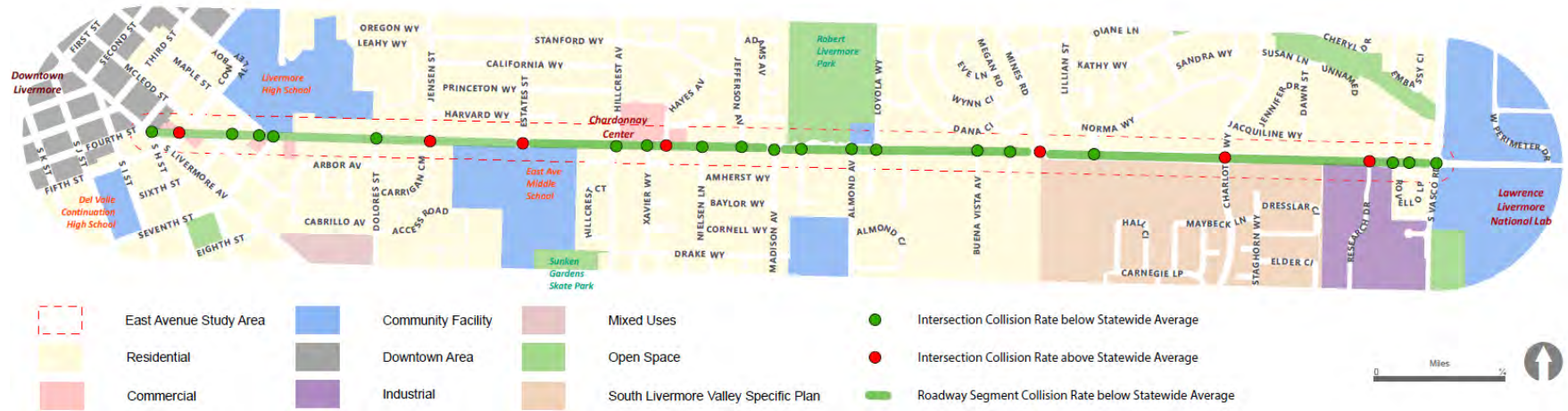
T = Total number of years over which roadway segment collisions were collected; January 2015 to December 2019 = 5 years

ADT = Average Daily Traffic (2016 data from the City of Livermore)

²Obtained from 2016 Collision Data on California State Highways, Basic Average Accident Rate Table - Roadway Segments, Page 83 and 84

Figure 12 shows the comparison of East Avenue collision rate and Caltrans statewide average collision rate.

Figure 12. Intersection and Roadway Segment Collision Rate





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Attachment A

Intersection and Roadway Segment Data

Table A1. Intersection Data Summary

No.	Intersection	Intersection Type*	Control Type	ADT
1	East Avenue/Jensen Street	T	Stop & Yield Signs	19,800
2	East Avenue/S Livermore Avenue	Y	Signals	18,570
3	East Avenue/5 th Street	Y	Stop & Yield Signs	18,570
4	East Avenue/Charlotte Way	F	Signals	16,270
5	East Avenue/Mines Road	T	Signals	21,100
6	East Avenue/Hayes Avenue	T	Stop & Yield Signs	19,260
7	East Avenue/Vasco Road	F	Signals	22,300
8	East Avenue/Estates Street	T	Stop & Yield Signs	18,780
9	East Avenue/Dolores Street	T	Signals	20,760
10	East Avenue/Loyola Way	T	Signals	18,080
11	East Avenue/Buena Vista Avenue	T	Stop & Yield Signs	18,530
12	East Avenue/Jefferson Avenue	T	Stop & Yield Signs	18,070
13	East Avenue/Madison Avenue	T	Signals	17,790
14	East Avenue/Nielsen Lane	T	Stop & Yield Signs	18,220
15	East Avenue/Research Drive	T	Stop & Yield Signs	12,370
16	East Avenue/Maple Street	Y	Signals	16,580
17	East Avenue/Almond Avenue	T	Stop & Yield Signs	18,620
18	East Avenue/Mitra Street	T	Stop & Yield Signs	15,610
19	East Avenue/Pegan Common	T	No Control	16,760
20	East Avenue/6 th Street	Y	Signals	12,910
21	East Avenue/Xavier Way	T	Stop & Yield Signs	17,450

* Intersection Types

- F - FOUR-LEGGED
- T - TEE
- Y - Y WYE

Table A2. Roadway Segment Summary

No.	From	To	Roadway Type	No. of Lanes	Speed	ADT
1	East Avenue/S Livermore Avenue	East Avenue/Estates Street	Undivided	4	30	21,269
2	East Avenue/Estates Street	East Avenue/Madison Avenue	Undivided	4	30	17,842
3	East Avenue/Madison Avenue	East Avenue/Mines Road	Undivided	4	40	17,842
4	East Avenue/Mines Road	East Avenue/Vasco Road	Divided	4	40	11,032

Table A3. Collision Data

Accident Number	City	Report Number	Expr2	Year	Time	Hour_Day	Bracket	Hour_Range	Collision Day of Week
12797080500046	Livermore	15-000237	1/14/2015	2015	08:05	8	5	8:00 AM-10:00 AM	Wednesday
13165172200075	Livermore	16-000346	1/17/2016	2016	17:22	17	9	4:00 PM-6:00 PM	Sunday
13897180000083	Livermore	18-419	1/18/2018	2018	18:00	18	10	6:00 PM-8:00 PM	Thursday
13535121500006	Livermore	17-523	1/21/2017	2017	12:15	12	7	12:00 PM-2:00 PM	Saturday
13170181600054	Livermore	16-000470	1/22/2016	2016	18:16	18	10	6:00 PM-8:00 PM	Friday
12806160700054	Livermore	15-000412	1/23/2015	2015	16:07	16	9	4:00 PM-6:00 PM	Friday
14269144200016	Livermore	19-472	1/25/2019	2019	14:42	14	8	2:00 PM-4:00 PM	Friday
13518174200016	Livermore	17-106	1/4/2017	2017	17:42	17	9	4:00 PM-6:00 PM	Wednesday
13884073600010	Livermore	18-80	1/5/2018	2018	07:36	7	4	6:00 AM-8:00 AM	Friday
13066103800010	Livermore	15-007530	10/10/2015	2015	10:38	10	6	10:00 AM-12:00 PM	Saturday
13434104700016	Livermore	16-6359	10/12/2016	2016	10:47	10	6	10:00 AM-12:00 PM	Wednesday
13799200600083	Livermore	17-6401	10/12/2017	2017	20:06	20	11	8:00 PM-10:00 PM	Thursday
13436005200079	Livermore	16-6398	10/14/2016	2016	00:52	0	1	12:00 AM-2:00 AM	Friday
13803114300079	Livermore	17-6476	10/16/2017	2017	11:43	11	6	10:00 AM-12:00 PM	Monday
13439200000067	Livermore	16-6473	10/17/2016	2016	20:00	20	11	8:00 PM-10:00 PM	Monday
14176164900016	Livermore	18-6607	10/24/2018	2018	16:49	16	9	4:00 PM-6:00 PM	Wednesday
14548190000036	Livermore	19-6658	10/31/2019	2019	19:00	19	10	6:00 PM-8:00 PM	Thursday
13064173700054	Livermore	15-006142	10/8/2015	2015	17:37	17	9	4:00 PM-6:00 PM	Thursday
14161113100079	Livermore	18-6265	10/9/2018	2018	11:31	11	6	10:00 AM-12:00 PM	Tuesday
14526092600079	Livermore	19-6195	10/9/2019	2019	09:26	9	5	8:00 AM-10:00 AM	Wednesday
13819144900900	Livermore	17-6816	11/1/2017	2017	14:49	14	8	2:00 PM-4:00 PM	Wednesday
13097153000034	Livermore	15-006872	11/10/2015	2015	15:30	15	8	2:00 PM-4:00 PM	Tuesday
13471110000054	Livermore	16-7193	11/18/2016	2016	11:00	11	6	10:00 AM-12:00 PM	Friday
13471140600006	Livermore	16-7196	11/18/2016	2016	14:06	14	8	2:00 PM-4:00 PM	Friday
14550132500025	Livermore	19-6691	11/2/2019	2019	13:25	13	7	12:00 PM-2:00 PM	Saturday
13479053200023	Livermore	16-7348	11/26/2016	2016	05:32	5	3	4:00 AM-6:00 AM	Saturday
13092082500010	Livermore	15-006749	11/5/2015	2015	08:25	8	5	8:00 AM-10:00 AM	Thursday
13461074900010	Livermore	16-6984	11/8/2016	2016	07:49	7	4	6:00 AM-8:00 AM	Tuesday
14590003800087	Livermore	19-7590	12/12/2019	2019	00:38	0	1	12:00 AM-2:00 AM	Thursday
14227081000079	Livermore	18-7721	12/14/2018	2018	08:10	8	5	8:00 AM-10:00 AM	Friday

Table A3. Collision Data

Accident Number	City	Report Number	Expr2	Year	Time	Hour_Day	Bracket	Hour_Range	Collision Day of Week
13863055400010	Livermore	17-7882	12/15/2017	2017	05:54	5	3	4:00 AM-6:00 AM	Friday
13133071800010	Livermore	15-007672	12/16/2015	2015	07:18	7	4	6:00 AM-8:00 AM	Wednesday
14608084700079	Livermore	19-7942	12/30/2019	2019	08:47	8	5	8:00 AM-10:00 AM	Monday
14219190200012	Livermore	18-7568	12/6/2018	2018	19:02	19	10	6:00 PM-8:00 PM	Thursday
13192111100060	Livermore	16-000972	2/13/2016	2016	11:11	11	6	10:00 AM-12:00 PM	Saturday
13559093000075	Livermore	17-1050	2/14/2017	2017	09:30	9	5	8:00 AM-10:00 AM	Tuesday
14656023200038	Livermore	20-1083	2/16/2020	2020	02:32	2	2	2:00 AM-4:00 AM	Sunday
13568190500075	Livermore	17-1252	2/23/2017	2017	19:05	19	10	6:00 PM-8:00 PM	Thursday
13184152700054	Livermore	16-000794	2/5/2016	2016	15:27	15	8	2:00 PM-4:00 PM	Friday
14282054400079	Livermore	19-729	2/7/2019	2019	05:44	5	3	4:00 AM-6:00 AM	Thursday
14282172600016	Livermore	19-748	2/7/2019	2019	17:26	17	9	4:00 PM-6:00 PM	Thursday
14282191600012	Livermore	19-751	2/7/2019	2019	19:16	19	10	6:00 PM-8:00 PM	Thursday
13554120000008	Livermore	17-934	2/9/2017	2017	12:00	12	7	12:00 PM-2:00 PM	Thursday
13584141100078	Livermore	17-1578	3/11/2017	2017	14:11	14	8	2:00 PM-4:00 PM	Saturday
13949011000014	Livermore	18-1527	3/11/2018	2018	01:10	1	1	12:00 AM-2:00 AM	Sunday
14318211300063	Livermore	19-1637	3/15/2019	2019	21:13	21	11	8:00 PM-10:00 PM	Friday
13595145600016	Livermore	17-1875	3/22/2017	2017	14:56	14	8	2:00 PM-4:00 PM	Wednesday
12867191200061	Livermore	15-001707	3/25/2015	2015	19:12	19	10	6:00 PM-8:00 PM	Wednesday
13965000100900	Livermore	18-1891	3/27/2018	2018	00:01	0	1	12:00 AM-2:00 AM	Tuesday
13237010600064	Livermore	16-1840	3/29/2016	2016	01:06	1	1	12:00 AM-2:00 AM	Tuesday
12847180900016	Livermore	15-001255	3/5/2015	2015	18:09	18	10	6:00 PM-8:00 PM	Thursday
13582123500040	Livermore	17-1521	3/9/2017	2017	12:35	12	7	12:00 PM-2:00 PM	Thursday
13970110300084	Livermore	18-1986	4/1/2018	2018	11:03	11	6	10:00 AM-12:00 PM	Sunday
12884203000060	Livermore	15-002055	4/11/2015	2015	20:30	20	11	8:00 PM-10:00 PM	Saturday
14346075600079	Livermore	19-2283	4/12/2019	2019	07:56	7	4	6:00 AM-8:00 AM	Friday
12891115600045	Livermore	15-002201	4/18/2015	2015	11:56	11	6	10:00 AM-12:00 PM	Saturday

Table A3. Collision Data

Accident Number	City	Report Number	Expr2	Year	Time	Hour_Day	Bracket	Hour_Range	Collision Day of Week
13992043900007	Livermore	18-2441	4/23/2018	2018	04:39	4	3	4:00 AM-6:00 AM	Monday
12898225400055	Livermore	15-002361	4/25/2015	2015	22:54	22	12	10:00 PM-12:00 AM	Saturday
13266130000038	Livermore	16-2416	4/27/2016	2016	13:00	13	7	12:00 PM-2:00 PM	Wednesday
14729142800040	Livermore	20-2383	4/29/2020	2020	14:28	14	8	2:00 PM-4:00 PM	Wednesday
13635131600040	Livermore	17-2724	5/1/2017	2017	13:16	13	7	12:00 PM-2:00 PM	Monday
13646151500016	Livermore	17-2994	5/12/2017	2017	15:15	15	8	2:00 PM-4:00 PM	Friday
14384114400900	Livermore	19-3043	5/20/2019	2019	11:44	11	6	10:00 AM-12:00 PM	Monday
14021135200900	Livermore	18-3097	5/22/2018	2018	13:52	13	7	12:00 PM-2:00 PM	Tuesday
14388171000016	Livermore	19-3114	5/24/2019	2019	17:10	17	9	4:00 PM-6:00 PM	Friday
14388175500016	Livermore	19-3116	5/24/2019	2019	17:55	17	9	4:00 PM-6:00 PM	Friday
12928173300003	Livermore	15-003028	5/25/2015	2015	17:33	17	9	4:00 PM-6:00 PM	Monday
14394143600016	Livermore	19-3217	5/30/2019	2019	14:36	14	8	2:00 PM-4:00 PM	Thursday
12935180100012	Livermore	15-003200	6/1/2015	2015	18:01	18	10	6:00 PM-8:00 PM	Monday
12945182700003	Livermore	15-003443	6/11/2015	2015	18:27	18	10	6:00 PM-8:00 PM	Thursday
13313151400016	Livermore	16-3367	6/13/2016	2016	15:14	15	8	2:00 PM-4:00 PM	Monday
14046150300026	Livermore	18-3607	6/16/2018	2018	15:03	15	8	2:00 PM-4:00 PM	Saturday
12951191200003	Livermore	15-003585	6/17/2015	2015	19:12	19	10	6:00 PM-8:00 PM	Wednesday
12954133000018	Livermore	15-003634	6/20/2015	2015	13:30	13	7	12:00 PM-2:00 PM	Saturday
13322173400054	Livermore	16-3588	6/22/2016	2016	17:34	17	9	4:00 PM-6:00 PM	Wednesday
14055115100040	Livermore	18-3808	6/25/2018	2018	11:51	11	6	10:00 AM-12:00 PM	Monday
14055221000038	Livermore	18-3822	6/25/2018	2018	22:10	22	12	10:00 PM-12:00 AM	Monday
13695191200900	Livermore	17-4071	6/30/2017	2017	19:12	19	10	6:00 PM-8:00 PM	Friday
12938170600075	Livermore	15-003275	6/4/2015	2015	17:06	17	9	4:00 PM-6:00 PM	Thursday
14399164000080	Livermore	19-3310	6/4/2019	2019	16:40	16	9	4:00 PM-6:00 PM	Tuesday
14035140100016	Livermore	18-3392	6/5/2018	2018	14:01	14	8	2:00 PM-4:00 PM	Tuesday
12943100300031	Livermore	15-003397	6/9/2015	2015	10:03	10	6	10:00 AM-12:00 PM	Tuesday
14061173200012	Livermore	18-3955	7/1/2018	2018	17:32	17	9	4:00 PM-6:00 PM	Sunday
14061222700014	Livermore	18-3957	7/1/2018	2018	22:27	22	12	10:00 PM-12:00 AM	Sunday
13706105000900	Livermore	17-5588	7/11/2017	2017	10:50	10	6	10:00 AM-12:00 PM	Tuesday
14075160000083	Livermore	18-4253	7/15/2018	2018	16:00	16	9	4:00 PM-6:00 PM	Sunday

Table A3. Collision Data

Accident Number	City	Report Number	Expr2	Year	Time	Hour_Day	Bracket	Hour_Range	Collision Day of Week
13714075500069	Livermore	17-4446	7/19/2017	2017	07:55	7	4	6:00 AM-8:00 AM	Wednesday
12987115700045	Livermore	15-004383	7/23/2015	2015	11:57	11	6	10:00 AM-12:00 PM	Thursday
13719230600067	Livermore	17-4601	7/24/2017	2017	23:06	23	12	10:00 PM-12:00 AM	Monday
13355090000072	Livermore	16-4422	7/25/2016	2016	09:00	9	5	8:00 AM-10:00 AM	Monday
13357085700013	Livermore	16-4485	7/27/2016	2016	08:57	8	5	8:00 AM-10:00 AM	Wednesday
14428093700040	Livermore	19-4017	7/3/2019	2019	09:37	9	5	8:00 AM-10:00 AM	Wednesday
14091184100047	Livermore	18-4665	7/31/2018	2018	18:41	18	10	6:00 PM-8:00 PM	Tuesday
14064221700005	Livermore	18-4033	7/4/2018	2018	22:17	22	12	10:00 PM-12:00 AM	Wednesday
14433180200016	Livermore	19-4131	7/8/2019	2019	18:02	18	10	6:00 PM-8:00 PM	Monday
13362120400016	Livermore	16-4602	8/1/2016	2016	12:04	12	7	12:00 PM-2:00 PM	Monday
13378164900054	Livermore	16-5002	8/17/2016	2016	16:49	16	9	4:00 PM-6:00 PM	Wednesday
13379202100034	Livermore	16-5038	8/18/2016	2016	20:21	20	11	8:00 PM-10:00 PM	Thursday
13748152800040	Livermore	17-5238	8/22/2017	2017	15:28	15	8	2:00 PM-4:00 PM	Tuesday
14478202000050	Livermore	19-5230	8/22/2019	2019	20:20	20	11	8:00 PM-10:00 PM	Thursday
13729000600013	Livermore	17-4801	8/3/2017	2017	00:06	0	1	12:00 AM-2:00 AM	Thursday
13756203900074	Livermore	17-5446	8/30/2017	2017	20:39	20	11	8:00 PM-10:00 PM	Wednesday
13392073300016	Livermore	16-5310	8/31/2016	2016	07:33	7	4	6:00 AM-8:00 AM	Wednesday
14460204300079	Livermore	19-4768	8/4/2019	2019	20:43	20	11	8:00 PM-10:00 PM	Sunday
13405152000008	Livermore	16-5624	9/13/2016	2016	15:20	15	8	2:00 PM-4:00 PM	Tuesday
14504082200059	Livermore	19-5761	9/17/2019	2019	08:22	8	5	8:00 AM-10:00 AM	Tuesday
13044190300079	Livermore	15-005671	9/18/2015	2015	19:03	19	10	6:00 PM-8:00 PM	Friday
14140183600900	Livermore	18-5822	9/18/2018	2018	18:36	18	10	6:00 PM-8:00 PM	Tuesday
13779171200040	Livermore	17-5963	9/22/2017	2017	17:12	17	9	4:00 PM-6:00 PM	Friday
13049180500034	Livermore	15-005790	9/23/2015	2015	18:05	18	10	6:00 PM-8:00 PM	Wednesday
13415074900016	Livermore	16-5855	9/23/2016	2016	07:49	7	4	6:00 AM-8:00 AM	Friday
14514130000016	Livermore	19-5940	9/27/2019	2019	13:00	13	7	12:00 PM-2:00 PM	Friday

Table A3. Collision Data

Accident Number	Primary Road	Secondary Road	Distance in Feet	Int_TJKM	Direction	X	Y	Latitude	Longitude
12797080500046	EAST AV	SEVENTH ST	160	Y	East	6197020.974	2072507.109	37.67988127	-121.7600129
13165172200075	EAST AV	MITRA ST	327	N	East	6205729.947	2072352.086	37.67988841	-121.7299985
13897180000083	EAST AV	LOYOLA WY	12	Y	West	6203124.002	2072400.23	37.67979856	-121.7389923
13535121500006	EAST AV	CHARLOTTE WY	0	Y	Not Stated	6206785	2072333	37.679836	-121.726353
13170181600054	EAST AV	DOLORES ST	100	Y	West	6197803.017	2072492.826	37.68005285	-121.7573779
12806160700054	EAST AV	ESTATES ST	300	N	East	6199736.94	2072459.008	37.67995998	-121.7506956
14269144200016	EAST AV	ESTATES ST	292	N	East	6199728.941	2072459.159	37.67996039	-121.7507232
13518174200016	EAST AV	CHARLOTTE WY	0	Y	Not Stated	6206785	2072333	37.679836	-121.726353
13884073600010	EAST AV	DOLORES ST	405	N	West	6197498.068	2072498.396	37.68006814	-121.7584316
13066103800010	EAST AV	JENSEN ST	25	Y	West	6198434.002	2072482.309	37.68002396	-121.7551976
13434104700016	EAST AV	JENSEN ST	55	Y	West	6198404.004	2072482.679	37.68002498	-121.7553013
13799200600083	EAST AV	JEFFERSON AV	111	Y	West	6201619.015	2072425.845	37.67986891	-121.7441925
13436005200079	EAST AV	PEGAN CO	40	Y	West	6203387.006	2072395.687	37.67978609	-121.7380836
13803114300079	EAST AV	BUENA VISTA AV	0	Y	Not Stated	6204193	2072382	37.67997056	-121.7353091
13439200000067	EAST AV	HAYES AV	0	Y	Not Stated	6200939	2072438	37.67990228	-121.7465421
14176164900016	EAST AV	HAYES AV	131	Y	East	6201069.977	2072435.522	37.67989548	-121.7460896
14548190000036	EAST AV	ESTATES ST	333	N	East	6199769.934	2072458.387	37.67995827	-121.7505816
13064173700054	EAST AV	JENSEN ST	75	Y	East	6198533.986	2072480.537	37.6800191	-121.7548522
14161113100079	EAST AV	SIXTH ST	3	Y	West	6196376.001	2072522.091	37.67992241	-121.7622415
14526092600079	VASCO RD	EAST AV	0	Y	Not Stated	6208997	2072295	37.679831	-121.71873
13819144900900	EAST AV	CHARLOTTE WY	0	Y	Not Stated	6206785	2072333	37.679836	-121.726353
13097153000034	JENSEN ST	EAST AV	0	Y	Not Stated	6198459	2072482	37.68002312	-121.7551113
13471110000054	EAST AV	DOLORES ST	0	Y	Not Stated	6197903	2072491	37.68004783	-121.7570324
13471140600006	MINES RD	EAST AV	0	Y	Not Stated	6204853	2072370	37.67993761	-121.7330286
14550132500025	EAST AV	MINES RD	142	Y	West	6204711.026	2072372.713	37.67994506	-121.7335192
13479053200023	LIVERMORE AV	EAST AV	0	Y	Not Stated	6195539	2072540	37.67997159	-121.7651336
13092082500010	EAST AV	NIELSEN LN	110	Y	West	6201199.02	2072433.081	37.67988877	-121.7456437
13461074900010	EAST AV	LIVERMORE AV	0	Y	Not Stated	6195539	2072540	37.67997159	-121.7651336
14590003800087	MINES RD	EAST AV	0	Y	Not Stated	6204853	2072370	37.67993761	-121.7330286
14227081000079	EAST AV	HAYES AV	190	Y	East	6201128.966	2072434.406	37.67989241	-121.7458857

Table A3. Collision Data

Accident Number	Primary Road	Secondary Road	Distance in Feet	Int_TJKM	Direction	X	Y	Latitude	Longitude
13863055400010	EAST AV	LIVERMORE AV	0	Y	Not Stated	6195539	2072540	37.67997159	-121.7651336
13133071800010	EAST AV	LOYOLA WY	0	Y	Not Stated	6203136	2072400	37.67979793	-121.7389509
14608084700079	EAST AV	JENSEN ST	216	Y	East	6198674.963	2072478.023	37.68001219	-121.754365
14219190200012	EAST AV	VASCO RD	0	Y	Not Stated	6208997	2072295	37.679831	-121.71873
13192111100060	EAST AV	DOLORES ST	20	Y	West	6197883.003	2072491.365	37.68004884	-121.7571015
13559093000075	EAST AV	JENSEN ST	100	Y	East	6198558.982	2072480.091	37.68001787	-121.7547658
14656023200038	EAST AV	JENSEN ST	69	Y	West	6198390.005	2072482.852	37.68002546	-121.7553496
13568190500075	EAST AV	JENSEN ST	0	Y	Not Stated	6198459	2072482	37.68002312	-121.7551113
13184152700054	EAST AV	ESTATES ST	225	Y	West	6199212.026	2072468.445	37.67998589	-121.7525093
14282054400079	EAST AV	JENSEN ST	360	N	East	6198818.94	2072475.455	37.68000514	-121.7538675
14282172600016	EAST AV	NIELSEN LN	52	Y	West	6201257.009	2072431.984	37.67988576	-121.7454433
14282191600012	EAST AV	ALMOND AV	0	Y	Not Stated	6202875	2072405	37.67981166	-121.7398527
13554120000008	EAST AV	MADISON AV	0	Y	Not Stated	6202076	2072418	37.67984736	-121.7426135
13584141100078	EAST AV	JENSEN ST	80	Y	East	6198538.985	2072480.447	37.68001885	-121.7548349
13949011000014	MINES RD	EAST AV	0	Y	Not Stated	6204853	2072370	37.67993761	-121.7330286
14318211300063	EAST AV	JENSEN ST	175	Y	East	6198633.97	2072478.754	37.6800142	-121.7545067
13595145600016	ESTATES ST	EAST AV	0	Y	Not Stated	6199437	2072465	37.67997643	-121.751732
12867191200061	EAST AV	JENSEN ST	239	Y	West	6198220.029	2072485.661	37.68003317	-121.755937
13965000100900	EAST AV	MITRA ST	0	Y	Not Stated	6205403	2072358	37.67990465	-121.7311282
13237010600064	EAST AV	DOLORES ST	0	Y	Not Stated	6197903	2072491	37.68004783	-121.7570324
12847180900016	VASCO RD	EAST AV	0	Y	Not Stated	6208997	2072295	37.679831	-121.71873
13582123500040	EAST AV	ESTATES ST	100	Y	East	6199536.977	2072462.873	37.67997059	-121.7513865
13970110300084	EAST AV	JENSEN ST	0	Y	Not Stated	6198459	2072482	37.68002312	-121.7551113
12884203000060	EAST AV	RESEARCH DR	0	Y	Not Stated	6208292	2072307	37.67986395	-121.721166
14346075600079	EAST AV	ESTATES ST	106	Y	East	6199542.976	2072462.745	37.67997024	-121.7513658
12891115600045	MINES RD	EAST AV	0	Y	Not Stated	6204853	2072370	37.67993761	-121.7330286

Table A3. Collision Data

Accident Number	Primary Road	Secondary Road	Distance in Feet	Int_TJKM	Direction	X	Y	Latitude	Longitude
13992043900007	EAST AV	VASCO RD	24	Y	East	6209020.997	2072295.404	37.67983211	-121.7186471
12898225400055	EAST AV	JENSEN ST	310	N	East	6198768.948	2072476.347	37.68000759	-121.7540403
13266130000038	MINES RD	EAST AV	0	Y	Not Stated	6204853	2072370	37.67993761	-121.7330286
14729142800040	EAST AV	CHARLOTTE WY	0	Y	Not Stated	6206785	2072333	37.679836	-121.726353
13635131600040	EAST AV	FIFTH ST	0	Y	Not Stated	6195894	2072532	37.67994962	-121.763907
13646151500016	EAST AV	BUENA VISTA AV	70	Y	East	6204262.989	2072380.786	37.67996723	-121.7350673
14384114400900	EAST AV	CHARLOTTE WY	11	Y	West	6206774.002	2072333.199	37.67983655	-121.726391
14021135200900	EAST AV	ESTATES ST	0	Y	Not Stated	6199437	2072465	37.67997643	-121.751732
14388171000016	EAST AV	ALMOND AV	228	Y	West	6202647.033	2072408.871	37.67982229	-121.7406404
14388175500016	EAST AV	MADISON AV	0	Y	Not Stated	6202076	2072418	37.67984736	-121.7426135
12928173300003	EAST AV	LOYOLA WY	56	Y	West	6203080.01	2072401.073	37.67980087	-121.7391443
14394143600016	EAST AV	HAYES AV	0	Y	Not Stated	6200939	2072438	37.67990228	-121.7465421
12935180100012	EAST AV	HAYES AV	211	Y	East	6201149.962	2072434.009	37.67989132	-121.7458132
12945182700003	EAST AV	MADISON AV	323	N	West	6201753.049	2072423.6	37.67986274	-121.7437294
13313151400016	EAST AV	HILLCREST AV (E)	229	Y	West	6200189.045	2072450.352	37.67993621	-121.7491334
14046150300026	VASCO RD	EAST AV	0	Y	Not Stated	6208997	2072295	37.679831	-121.71873
12951191200003	MAPLE ST	EAST AV	0	Y	Not Stated	6196760	2072515	37.67990294	-121.7609147
12954133000018	EAST AV	JENSEN ST	0	Y	Not Stated	6198459	2072482	37.68002312	-121.7551113
13322173400054	EAST AV	CHARLOTTE WY	20	Y	East	6206804.997	2072332.653	37.67983505	-121.7262839
14055115100040	EAST AV	CHARLOTTE WY	0	Y	Not Stated	6206785	2072333	37.679836	-121.726353
14055221000038	EAST AV	MINES RD	9	Y	East	6204861.998	2072369.847	37.67993719	-121.7329975
13695191200900	EAST AV	JENSEN ST	0	Y	Not Stated	6198459	2072482	37.68002312	-121.7551113
12938170600075	EAST AV	JEFFERSON AV	0	Y	Not Stated	6201730	2072424	37.67986384	-121.743809
14399164000080	EAST AV	ESTATES ST	0	Y	Not Stated	6199437	2072465	37.67997643	-121.751732
14035140100016	EAST AV	DOLORES ST	223	Y	East	6198125.968	2072487.245	37.68003752	-121.756262
12943100300031	EAST AV	FIFTH ST	0	Y	Not Stated	6195894	2072532	37.67994962	-121.763907
14061173200012	EAST AV	HAYES AV	0	Y	Not Stated	6200939	2072438	37.67990228	-121.7465421
14061222700014	EAST AV	DOLORES ST	0	Y	Not Stated	6197903	2072491	37.68004783	-121.7570324
13706105000900	EAST AV	DOLORES ST	180	Y	West	6197723.03	2072494.287	37.68005686	-121.7576542
14075160000083	EAST AV	LIVERMORE AV	0	Y	Not Stated	6195539	2072540	37.67997159	-121.7651336

Table A3. Collision Data

Accident Number	Primary Road	Secondary Road	Distance in Feet	Int_TJKM	Direction	X	Y	Latitude	Longitude
13714075500069	EAST AV	HAYES AV	148	Y	East	6201086.974	2072435.201	37.6798946	-121.7460308
12987115700045	HAYES AV	EAST AV	0	Y	Not Stated	6200939	2072438	37.67990228	-121.7465421
13719230600067	EAST AV	VASCO RD	0	Y	Not Stated	6208997	2072295	37.679831	-121.71873
13355090000072	EAST AV	FIFTH ST	0	Y	Not Stated	6195894	2072532	37.67994962	-121.763907
13357085700013	EAST AV	CHARLOTTE WY	24	Y	East	6206808.996	2072332.584	37.67983486	-121.7262701
14428093700040	EAST AV	HAYES AV	153	Y	East	6201091.973	2072435.106	37.67989434	-121.7460136
14091184100047	EAST AV	LIVERMORE AV	55	Y	East	6195593.929	2072537.245	37.67996403	-121.7649438
14064221700005	EAST AV	FIFTH ST	130	Y	East	6196023.992	2072530.549	37.67994564	-121.7634578
14433180200016	EAST AV	CHARLOTTE WY	35	Y	West	6206750.006	2072333.633	37.67983774	-121.7264739
13362120400016	EAST AV	JENSEN ST	85	Y	West	6198374.007	2072483.067	37.68002605	-121.7554049
13378164900054	EAST AV	JENSEN ST	75	Y	East	6198533.986	2072480.537	37.6800191	-121.7548522
13379202100034	EAST AV	VASCO RD	0	Y	Not Stated	6208997	2072295	37.679831	-121.71873
13748152800040	EAST AV	JENSEN ST	0	Y	Not Stated	6198459	2072482	37.68002312	-121.7551113
14478202000050	EAST AV	LIVERMORE AV	136	Y	East	6195674.916	2072535.819	37.67996011	-121.764664
13729000600013	EAST AV	MAPLE ST	0	Y	Not Stated	6196760	2072515	37.67990294	-121.7609147
13756203900074	EAST AV	XAVIER WY	75	Y	West	6200672.009	2072442.14	37.67991365	-121.7474647
13392073300016	EAST AV	JENSEN ST	226	Y	East	6198684.962	2072477.844	37.6800117	-121.7543305
14460204300079	EAST AV	JENSEN ST	85	Y	East	6198543.984	2072480.358	37.68001861	-121.7548176
13405152000008	EAST AV	ESTATES ST	50	Y	West	6199387.006	2072465.75	37.67997849	-121.7519047
14504082200059	EAST AV	RESEARCH DR	40	Y	East	6208331.994	2072306.322	37.67986209	-121.7210278
13044190300079	EAST AV	JENSEN ST	43	Y	East	6198501.991	2072481.123	37.68002071	-121.7549627
14140183600900	EAST AV	FIFTH ST	0	Y	Not Stated	6195894	2072532	37.67994962	-121.763907
13779171200040	EAST AV	HAYES AV	123	Y	East	6201061.978	2072435.673	37.67989589	-121.7461172
13049180500034	EAST AV	MINES RD	0	Y	Not Stated	6204853	2072370	37.67993761	-121.7330286
13415074900016	EAST AV	JENSEN ST	0	Y	Not Stated	6198459	2072482	37.68002312	-121.7551113
14514130000016	EAST AV	CHARLOTTE WY	14	Y	East	6206798.998	2072332.757	37.67983533	-121.7263046

Table A3. Collision Data

Accident Number	Highest Degree of Injury	Number Injured	Number Killed	Party at Fault	Primary Collision Factor	Hit and Run	Collision Type
12797080500046	Complaint of Pain	7	0	1	Improper Turning	No	Broadside
13165172200075	Other Visible Injury	1	0	1	Driving Under Influence	No	Head-On
13897180000083	Complaint of Pain	1	0	1	Wrong Side of Road	No	Broadside
13535121500006	Property Damage Only	0	0	1	Traffic Signals and Signs	No	Head-On
13170181600054	Property Damage Only	0	0	1	Improper Turning	No	Sideswipe
12806160700054	Property Damage Only	0	0	1	Improper Turning	No	Sideswipe
14269144200016	Property Damage Only	0	0	1	Improper Turning	No	Sideswipe
13518174200016	Complaint of Pain	1	0	1	Traffic Signals and Signs	No	Broadside
13884073600010	Property Damage Only	0	0	1	Improper Turning	No	Broadside
13066103800010	Property Damage Only	0	0	1	Improper Turning	No	Sideswipe
13434104700016	Property Damage Only	0	0	1	Unsafe Starting or Backing	No	Sideswipe
13799200600083	Property Damage Only	0	0	1	Unsafe Lane Change	No	Rear-End
13436005200079	Property Damage Only	0	0	1	Driving Under Influence	No	Hit Object
13803114300079	Other Visible Injury	3	0	1	Auto R/W Violation	No	Broadside
13439200000067	Other Visible Injury	1	0	2	Wrong Side of Road	Felony	Broadside
14176164900016	Complaint of Pain	2	0	1	Auto R/W Violation	No	Broadside
14548190000036	Property Damage Only	0	0	1	Improper Turning	Misdemeanor	Sideswipe
13064173700054	Other Visible Injury	1	0	1	Unsafe Speed	No	Rear-End
14161113100079	Property Damage Only	0	0	1	Improper Turning	No	Sideswipe
14526092600079	Property Damage Only	0	0	1	Traffic Signals and Signs	No	Broadside
13819144900900	Complaint of Pain	1	0	1	Traffic Signals and Signs	No	Broadside
13097153000034	Property Damage Only	0	0	1	Improper Turning	Misdemeanor	Sideswipe
13471110000054	Complaint of Pain	1	0		Unknown	No	Vehicle - Pedestrian
13471140600006	Property Damage Only	0	0	1	Improper Turning	No	Sideswipe
14550132500025	Property Damage Only	0	0	1	Driving Under Influence	No	Hit Object
13479053200023	Complaint of Pain	1	0	1	Unsafe Speed	No	Rear-End
13092082500010	Property Damage Only	0	0	1	Improper Turning	No	Sideswipe
13461074900010	Other Visible Injury	1	0	1	Unsafe Speed	No	Rear-End
14590003800087	Property Damage Only	0	0		Unknown	Misdemeanor	Hit Object
14227081000079	Complaint of Pain	3	0	1	Unsafe Speed	No	Rear-End

Table A3. Collision Data

Accident Number	Highest Degree of Injury	Number Injured	Number Killed	Party at Fault	Primary Collision Factor	Hit and Run	Collision Type
13863055400010	Property Damage Only	0	0		Unknown	No	Rear-End
13133071800010	Complaint of Pain	1	0	1	Ped R/W Violation	Felony	Vehicle - Pedestrian
14608084700079	Other Visible Injury	2	0	1	Auto R/W Violation	No	Broadside
14219190200012	Complaint of Pain	1	0	1	Auto R/W Violation	No	Head-On
13192111100060	Property Damage Only	0	0	1	Unsafe Lane Change	Misdemeanor	Sideswipe
13559093000075	Property Damage Only	0	0		Unknown	Misdemeanor	Sideswipe
14656023200038	Property Damage Only	0	0	1	Improper Turning	Misdemeanor	Sideswipe
13568190500075	Property Damage Only	0	0	1	Improper Turning	No	Broadside
13184152700054	Complaint of Pain	1	0	1	Auto R/W Violation	No	Broadside
14282054400079	Complaint of Pain	1	0	1	Improper Turning	No	Rear-End
14282172600016	Complaint of Pain	1	0	1	Wrong Side of Road	No	Other
14282191600012	Property Damage Only	0	0	1	Improper Turning	Misdemeanor	Sideswipe
13554120000008	Property Damage Only	0	0	1	Other Hazardous Movement	No	Broadside
13584141100078	Other Visible Injury	3	0	1	Improper Turning	No	Broadside
13949011000014	Other Visible Injury	1	0	1	Driving Under Influence	Felony	Hit Object
14318211300063	Complaint of Pain	1	0	1	Unsafe Speed	No	Rear-End
13595145600016	Property Damage Only	0	0	1	Auto R/W Violation	No	Broadside
12867191200061	Property Damage Only	0	0	1	Driving Under Influence	No	Sideswipe
13965000100900	Property Damage Only	0	0	1	Following Too Closely	No	Rear-End
13237010600064	Property Damage Only	0	0	1	Driving Under Influence	No	Rear-End
12847180900016	Property Damage Only	0	0	1	Auto R/W Violation	No	Broadside
13582123500040	Property Damage Only	0	0	4	Unsafe Speed	Misdemeanor	Rear-End
13970110300084	Property Damage Only	0	0	1	Auto R/W Violation	No	Head-On
12884203000060	Property Damage Only	0	0	1	Improper Turning	No	Broadside
14346075600079	Other Visible Injury	1	0		Unknown	No	Other
12891115600045	Property Damage Only	0	0	1	Following Too Closely	No	Rear-End

Table A3. Collision Data

Accident Number	Highest Degree of Injury	Number Injured	Number Killed	Party at Fault	Primary Collision Factor	Hit and Run	Collision Type
13992043900007	Other Visible Injury	1	0	1	Driving Under Influence	No	Hit Object
12898225400055	Complaint of Pain	1	0	1	Driving Under Influence	No	Rear-End
13266130000038	Complaint of Pain	1	0	1	Ped R/W Violation	Felony	Vehicle - Pedestrian
14729142800040	Property Damage Only	0	0	1	Traffic Signals and Signs	No	Broadside
13635131600040	Property Damage Only	0	0		Unknown	No	Sideswipe
13646151500016	Property Damage Only	0	0	1	Unsafe Speed	No	Rear-End
14384114400900	Severe Injury	1	0	1	Ped R/W Violation	No	Vehicle - Pedestrian
14021135200900	Property Damage Only	0	0	1	Auto R/W Violation	No	Broadside
14388171000016	Property Damage Only	0	0	1	Unsafe Speed	No	Rear-End
14388175500016	Property Damage Only	0	0	1	Unsafe Speed	No	Rear-End
12928173300003	Property Damage Only	0	0	1	Improper Turning	No	Hit Object
14394143600016	Complaint of Pain	1	0	1	Wrong Side of Road	No	Other
12935180100012	Property Damage Only	0	0	1	Auto R/W Violation	No	Broadside
12945182700003	Property Damage Only	0	0	1	Improper Turning	Misdemeanor	Sideswipe
13313151400016	Complaint of Pain	3	0	1	Unsafe Speed	No	Rear-End
14046150300026	Complaint of Pain	1	0	1	Traffic Signals and Signs	No	Broadside
12951191200003	Property Damage Only	0	0	1	Traffic Signals and Signs	No	Broadside
12954133000018	Property Damage Only	0	0	1	Improper Passing	No	Broadside
13322173400054	Other Visible Injury	1	0	1	Unsafe Speed	No	Rear-End
14055115100040	Property Damage Only	0	0	1	Traffic Signals and Signs	No	Other
14055221000038	Property Damage Only	0	0	1	Driving Under Influence	Misdemeanor	Hit Object
13695191200900	Other Visible Injury	1	0	1	Auto R/W Violation	No	Overtaken
12938170600075	Property Damage Only	0	0	1	Improper Turning	No	Broadside
14399164000080	Other Visible Injury	1	0	1	Unsafe Speed	No	Rear-End
14035140100016	Other Visible Injury	2	0	1	Following Too Closely	No	Rear-End
12943100300031	Property Damage Only	0	0	1	Improper Turning	No	Sideswipe
14061173200012	Other Visible Injury	2	0	1	Auto R/W Violation	No	Broadside
14061222700014	Property Damage Only	0	0	1	Wrong Side of Road	Misdemeanor	Sideswipe
13706105000900	Other Visible Injury	1	0	1	Auto R/W Violation	No	Broadside
14075160000083	Property Damage Only	0	0		Unknown	Misdemeanor	Sideswipe

Table A3. Collision Data

Accident Number	Highest Degree of Injury	Number Injured	Number Killed	Party at Fault	Primary Collision Factor	Hit and Run	Collision Type
13714075500069	Other Visible Injury	1	0	1	Improper Turning	No	Sideswipe
12987115700045	Property Damage Only	0	0	1	Improper Turning	No	Hit Object
13719230600067	Property Damage Only	0	0	1	Auto R/W Violation	No	Head-On
13355090000072	Other Visible Injury	4	0	1	Auto R/W Violation	No	Broadside
13357085700013	Complaint of Pain	1	0	1	Unsafe Speed	No	Rear-End
14428093700040	Property Damage Only	0	0	1	Unsafe Starting or Backing	No	Sideswipe
14091184100047	Other Visible Injury	1	0	1	Improper Turning	No	Hit Object
14064221700005	Complaint of Pain	3	0	1	Unsafe Speed	No	Rear-End
14433180200016	Complaint of Pain	1	0	1	Unsafe Speed	No	Rear-End
13362120400016	Property Damage Only	0	0	1	Improper Turning	No	Sideswipe
13378164900054	Property Damage Only	0	0	1	Unsafe Speed	No	Rear-End
13379202100034	Property Damage Only	0	0		Other Than Driver	No	Rear-End
13748152800040	Complaint of Pain	1	0	1	Auto R/W Violation	No	Head-On
14478202000050	Complaint of Pain	2	0	1	Unsafe Speed	No	Rear-End
13729000600013	Property Damage Only	0	0	1	Driving Under Influence	No	Hit Object
13756203900074	Other Visible Injury	1	0	1	Unsafe Speed	No	Other
13392073300016	Property Damage Only	0	0	1	Auto R/W Violation	No	Broadside
14460204300079	Fatal	0	1	1	Pedestrian Violation	No	Vehicle - Pedestrian
13405152000008	Property Damage Only	0	0	1	Unsafe Speed	No	Rear-End
14504082200059	Property Damage Only	0	0	1	Unsafe Speed	No	Rear-End
13044190300079	Property Damage Only	0	0	1	Improper Turning	No	Broadside
14140183600900	Other Visible Injury	1	0	1	Auto R/W Violation	No	Broadside
13779171200040	Complaint of Pain	1	0	1	Auto R/W Violation	No	Broadside
13049180500034	Other Visible Injury	1	0		Unknown	No	Other
13415074900016	Complaint of Pain	1	0	1	Unsafe Speed	No	Rear-End
14514130000016	Other Visible Injury	1	0	1	Ped R/W Violation	No	Vehicle - Pedestrian

Table A3. Collision Data

Accident Number	Involved With	Pedestrian Action	Private Property	Officer ID	Violation	Violation Subsection	Weather	Road Surface Condition
12797080500046	Other Motor Vehicle	No Pedestrian Involved	FALSE	46	22100	B		
13165172200075	Fixed Object	No Pedestrian Involved	FALSE	75	23152	A		
13897180000083	Bicycle	No Pedestrian Involved	FALSE	83	21650	1		
13535121500006	Other Motor Vehicle	No Pedestrian Involved	FALSE	CSS 6	21453	A		
13170181600054	Other Motor Vehicle	No Pedestrian Involved	FALSE	54	22107			
12806160700054	Other Motor Vehicle	No Pedestrian Involved	FALSE	54	22107			
14269144200016	Other Motor Vehicle	No Pedestrian Involved	FALSE	16	22107			
13518174200016	Other Motor Vehicle	No Pedestrian Involved	FALSE	16	21453	A		
13884073600010	Other Motor Vehicle	No Pedestrian Involved	FALSE	10	22103			
13066103800010	Parked Motor Vehicle	No Pedestrian Involved	FALSE	10	22107			
13434104700016	Other Motor Vehicle	No Pedestrian Involved	FALSE	16	22106			
13799200600083	Other Motor Vehicle	No Pedestrian Involved	FALSE	83	21658	A		
13436005200079	Fixed Object	No Pedestrian Involved	FALSE	79	23152	E		
13803114300079	Other Motor Vehicle	No Pedestrian Involved	FALSE	79	21802	A		
13439200000067	Bicycle	No Pedestrian Involved	FALSE	67	21650			
14176164900016	Other Motor Vehicle	No Pedestrian Involved	FALSE	16	21804	A		
14548190000036	Parked Motor Vehicle	No Pedestrian Involved	FALSE	36	22107			
13064173700054	Other Motor Vehicle	No Pedestrian Involved	FALSE	54	22350			
14161113100079	Parked Motor Vehicle	No Pedestrian Involved	FALSE	79	22107			
14526092600079	Other Motor Vehicle	No Pedestrian Involved	FALSE	79	21453	A		
13819144900900	Other Motor Vehicle	No Pedestrian Involved	FALSE	900	21453	A		
13097153000034	Parked Motor Vehicle	No Pedestrian Involved	FALSE	34	22107			
13471110000054	Pedestrian	Crossing In Crosswalk At Intersection	FALSE	54				
13471140600006	Other Motor Vehicle	No Pedestrian Involved	FALSE	CSS 6	22107			
14550132500025	Other Object	No Pedestrian Involved	FALSE	25	23152	F		
13479053200023	Other Motor Vehicle	No Pedestrian Involved	FALSE	23	22350			
13092082500010	Other Motor Vehicle	No Pedestrian Involved	FALSE	10	22107			
13461074900010	Other Motor Vehicle	No Pedestrian Involved	FALSE	10	22350			
14590003800087	Fixed Object	No Pedestrian Involved	FALSE	87				
14227081000079	Other Motor Vehicle	No Pedestrian Involved	FALSE	79	22350			

Table A3. Collision Data

Accident Number	Involved With	Pedestrian Action	Private Property	Officer ID	Violation	Violation Subsection	Weather	Road Surface Condition
13863055400010	Other Motor Vehicle	No Pedestrian Involved	FALSE	10				
13133071800010	Pedestrian	Crossing In Crosswalk At Intersection	FALSE	10	21950	A		
14608084700079	Other Motor Vehicle	No Pedestrian Involved	FALSE	79	21804	A		
14219190200012	Other Motor Vehicle	No Pedestrian Involved	FALSE	12	21453	C		
13192111100060	Parked Motor Vehicle	No Pedestrian Involved	FALSE	60	21658	A		
13559093000075	Parked Motor Vehicle	No Pedestrian Involved	FALSE	75				
14656023200038	Parked Motor Vehicle	No Pedestrian Involved	FALSE	38	22107			
13568190500075	Other Motor Vehicle	No Pedestrian Involved	FALSE	75	22107			
13184152700054	Bicycle	No Pedestrian Involved	FALSE	54	21804	A		
14282054400079	Parked Motor Vehicle	No Pedestrian Involved	FALSE	79	22107			
14282172600016	Bicycle	No Pedestrian Involved	FALSE	16	21650	1		
14282191600012	Other Motor Vehicle	No Pedestrian Involved	FALSE	12	22107			
13554120000008	Other Motor Vehicle	No Pedestrian Involved	FALSE	CSS 8	21451	A		
13584141100078	Other Motor Vehicle	No Pedestrian Involved	FALSE	78	22103			
13949011000014	Fixed Object	No Pedestrian Involved	FALSE	14	23152	A		
14318211300063	Other Motor Vehicle	No Pedestrian Involved	FALSE	63	22350			
13595145600016	Other Motor Vehicle	No Pedestrian Involved	FALSE	16	21802	A		
12867191200061	Parked Motor Vehicle	No Pedestrian Involved	FALSE	61	23152	A		
13965000100900	Other Motor Vehicle	Crossing In Crosswalk At Intersection	FALSE	900	21703			
13237010600064	Parked Motor Vehicle	No Pedestrian Involved	FALSE	64	23152	A		
12847180900016	Other Motor Vehicle	No Pedestrian Involved	FALSE	16	21453	B		
13582123500040	Other Motor Vehicle	No Pedestrian Involved	FALSE	40	22350			
13970110300084	Other Motor Vehicle	No Pedestrian Involved	FALSE	84	21801	A		
12884203000060	Other Motor Vehicle	No Pedestrian Involved	FALSE	60	22107			
14346075600079	Bicycle	No Pedestrian Involved	FALSE	79				
12891115600045	Other Motor Vehicle	No Pedestrian Involved	FALSE	45	21703			

Table A3. Collision Data

Accident Number	Involved With	Pedestrian Action	Private Property	Officer ID	Violation	Violation Subsection	Weather	Road Surface Condition
13992043900007	Fixed Object	No Pedestrian Involved	FALSE	7	23152	A		
12898225400055	Parked Motor Vehicle	No Pedestrian Involved	FALSE	55	23152	E		
13266130000038	Pedestrian	Crossing In Crosswalk At Intersection	FALSE	38	21950	A		
14729142800040	Other Motor Vehicle	No Pedestrian Involved	FALSE	40	21453	A		
13635131600040	Other Motor Vehicle	No Pedestrian Involved	FALSE	40				
13646151500016	Parked Motor Vehicle	No Pedestrian Involved	FALSE	16	22350			
14384114400900	Pedestrian	Crossing In Crosswalk At Intersection	FALSE	900	21950	A		
14021135200900	Other Motor Vehicle	No Pedestrian Involved	FALSE	900	21800	A		
14388171000016	Other Motor Vehicle	No Pedestrian Involved	FALSE	16	22350			
14388175500016	Other Motor Vehicle	No Pedestrian Involved	FALSE	16	22350			
12928173300003	Fixed Object	No Pedestrian Involved	FALSE	CSS 3	22107			
14394143600016	Bicycle	No Pedestrian Involved	FALSE	16	21650	1		
12935180100012	Other Motor Vehicle	No Pedestrian Involved	FALSE	12	21801	A		
12945182700003	Parked Motor Vehicle	No Pedestrian Involved	FALSE	CSS 3	22107			
13313151400016	Other Motor Vehicle	No Pedestrian Involved	FALSE	16	22350			
14046150300026	Other Motor Vehicle	No Pedestrian Involved	FALSE	26	21453	A		
12951191200003	Other Motor Vehicle	No Pedestrian Involved	FALSE	CSS 3	21453	A		
12954133000018	Other Motor Vehicle	No Pedestrian Involved	FALSE	18	21951			
13322173400054	Other Motor Vehicle	No Pedestrian Involved	FALSE	54	22350			
14055115100040	Bicycle	No Pedestrian Involved	FALSE	40	21453	A		
14055221000038	Fixed Object	No Pedestrian Involved	FALSE	38	23152	A		
13695191200900	Non-Collision	No Pedestrian Involved	FALSE	900	21802	A		
12938170600075	Other Motor Vehicle	No Pedestrian Involved	FALSE	75	22107			
14399164000080	Other Motor Vehicle	No Pedestrian Involved	FALSE	80	22350			
14035140100016	Other Motor Vehicle	No Pedestrian Involved	FALSE	16	21703			
12943100300031	Parked Motor Vehicle	No Pedestrian Involved	FALSE	31	22107			
14061173200012	Other Motor Vehicle	No Pedestrian Involved	FALSE	12	21802	A		
14061222700014	Other Motor Vehicle	No Pedestrian Involved	FALSE	14	21651	A		
13706105000900	Other Motor Vehicle	No Pedestrian Involved	FALSE	900	21804	A		
14075160000083	Other Motor Vehicle	No Pedestrian Involved	FALSE	83				

Table A3. Collision Data

Accident Number	Involved With	Pedestrian Action	Private Property	Officer ID	Violation	Violation Subsection	Weather	Road Surface Condition
13714075500069	Other Motor Vehicle	No Pedestrian Involved	FALSE	69	22107			
12987115700045	Fixed Object	No Pedestrian Involved	FALSE	45	22107			
13719230600067	Other Motor Vehicle	No Pedestrian Involved	FALSE	67	21453	C		
13355090000072	Other Motor Vehicle	No Pedestrian Involved	FALSE	72	21801	A		
13357085700013	Other Motor Vehicle	No Pedestrian Involved	FALSE	13	22350			
14428093700040	Other Motor Vehicle	No Pedestrian Involved	FALSE	40	22106			
14091184100047	Fixed Object	No Pedestrian Involved	FALSE	47	22107			
14064221700005	Other Motor Vehicle	No Pedestrian Involved	FALSE	5	22350			
14433180200016	Other Motor Vehicle	No Pedestrian Involved	FALSE	16	22350			
13362120400016	Parked Motor Vehicle	No Pedestrian Involved	FALSE	16	22107			
13378164900054	Other Motor Vehicle	Crossing In Crosswalk At Intersection	FALSE	54	22350			
13379202100034	Other Motor Vehicle	No Pedestrian Involved	FALSE	34				
13748152800040	Other Motor Vehicle	No Pedestrian Involved	FALSE	40	21801	A		
14478202000050	Other Motor Vehicle	No Pedestrian Involved	FALSE	50	22350			
13729000600013	Fixed Object	No Pedestrian Involved	FALSE	13	23152	A		
13756203900074	Bicycle	No Pedestrian Involved	FALSE	74	22350			
13392073300016	Other Motor Vehicle	No Pedestrian Involved	FALSE	16	21804	A		
14460204300079	Pedestrian	Crossing Not In Crosswalk	FALSE	79	21954	A		
13405152000008	Other Motor Vehicle	No Pedestrian Involved	FALSE	CSS 8	22350			
14504082200059	Other Motor Vehicle	No Pedestrian Involved	FALSE	59	22350			
13044190300079	Other Motor Vehicle	No Pedestrian Involved	FALSE	79	22103			
14140183600900	Other Motor Vehicle	No Pedestrian Involved	FALSE	900	21801	A		
13779171200040	Other Motor Vehicle	No Pedestrian Involved	FALSE	40	21804	A		
13049180500034	Not Stated	No Pedestrian Involved	FALSE	34				
13415074900016	Other Motor Vehicle	No Pedestrian Involved	FALSE	16	22350			
14514130000016	Pedestrian	Crossing In Crosswalk At Intersection	FALSE	16	21950	A		

Table A3. Collision Data

Accident Number	Road Condition1	Lighting	Right of Way Controls
12797080500046		Daylight	
13165172200075		Daylight	
13897180000083		Dark - Street Lights	
13535121500006		Daylight	
13170181600054		Dark - Street Lights	
12806160700054		Daylight	
14269144200016		Daylight	
13518174200016		Dark - Street Lights	
13884073600010		Daylight	
13066103800010		Daylight	
13434104700016		Daylight	
13799200600083		Dark - Street Lights	
13436005200079		Dark - Street Lights	
13803114300079		Daylight	
13439200000067		Dark - Street Lights	
14176164900016		Daylight	
14548190000036		Dark - Street Lights	
13064173700054		Daylight	
14161113100079		Daylight	
14526092600079		Daylight	
13819144900900		Daylight	
13097153000034		Daylight	
13471110000054		Dark - Street Lights	
13471140600006		Daylight	
14550132500025		Daylight	
13479053200023		Dark - Street Lights	
13092082500010		Daylight	
13461074900010		Daylight	
14590003800087		Dark - No Street Lights	
14227081000079		Daylight	

Table A3. Collision Data

Accident Number	Road Condition1	Lighting	Right of Way Controls
13863055400010		Daylight	
13133071800010		Daylight	
14608084700079		Daylight	
14219190200012		Dark - Street Lights	
13192111100060		Daylight	
13559093000075		Daylight	
14656023200038		Dark - Street Lights	
13568190500075		Dark - Street Lights	
13184152700054		Daylight	
14282054400079		Dark - Street Lights	
14282172600016		Daylight	
14282191600012		Dark - Street Lights	
13554120000008		Daylight	
13584141100078		Daylight	
13949011000014		Dark - Street Lights	
14318211300063		Dark - Street Lights	
13595145600016		Daylight	
12867191200061		Daylight	
13965000100900		Daylight	
13237010600064		Dark - Street Lights	
12847180900016		Dusk - Dawn	
13582123500040		Daylight	
13970110300084		Daylight	
12884203000060		Dark - Street Lights	
14346075600079		Daylight	
12891115600045		Daylight	

Table A3. Collision Data

Accident Number	Road Condition1	Lighting	Right of Way Controls
13992043900007		Dark - Street Lights	
12898225400055		Dark - Street Lights	
13266130000038		Daylight	
14729142800040		Daylight	
13635131600040		Daylight	
13646151500016		Daylight	
14384114400900		Daylight	
14021135200900		Daylight	
14388171000016		Daylight	
14388175500016		Daylight	
12928173300003		Daylight	
14394143600016		Daylight	
12935180100012		Daylight	
12945182700003		Daylight	
13313151400016		Daylight	
14046150300026		Daylight	
12951191200003		Daylight	
12954133000018		Daylight	
13322173400054		Daylight	
14055115100040		Daylight	
14055221000038		Dark - Street Lights	
13695191200900		Daylight	
12938170600075		Daylight	
14399164000080		Daylight	
14035140100016		Daylight	
12943100300031		Daylight	
14061173200012		Daylight	
14061222700014		Dark - Street Lights	
13706105000900		Daylight	
14075160000083		Daylight	

Table A3. Collision Data

Accident Number	Road Condition1	Lighting	Right of Way Controls
13714075500069		Daylight	
12987115700045		Daylight	
13719230600067		Dark - Street Lights	
13355090000072		Daylight	
13357085700013		Daylight	
14428093700040		Daylight	
14091184100047		Daylight	
14064221700005		Dark - Street Lights	
14433180200016		Daylight	
13362120400016		Daylight	
13378164900054		Daylight	
13379202100034		Dark - Street Lights	
13748152800040		Daylight	
14478202000050		Dark - Street Lights	
13729000600013		Dark - Street Lights	
13756203900074		Dark - Street Lights	
13392073300016		Daylight	
14460204300079		Dark - Street Lights	
13405152000008		Daylight	
14504082200059		Daylight	
13044190300079		Dusk - Dawn	
14140183600900		Daylight	
13779171200040		Daylight	
13049180500034		Daylight	
13415074900016		Daylight	
14514130000016		Daylight	

Table A3. Collision Data

Accident Number	-----	Party Type 1	Party Age 1	Party Sex 1	Direction of Travel 1	Movement Preceding Collision 1	special information 1
12797080500046	FALSE	Driver	33		East	Making U Turn	
13165172200075	FALSE	Driver	19		West	Proceeding Straight	
13897180000083	FALSE	Bicyclist	18		North	Traveling Wrong Way	
13535121500006	FALSE	Driver	55		West	Proceeding Straight	
13170181600054	FALSE	Driver	21		East	Other Unsafe Turning	
12806160700054	FALSE	Driver	84		West	Proceeding Straight	
14269144200016	FALSE	Driver	53		East	Proceeding Straight	
13518174200016	FALSE	Driver	27		East	Slowing/Stopping	
13884073600010	FALSE	Driver	25		East	Making U Turn	
13066103800010	FALSE	Driver	52		West	Entering Traffic	
13434104700016	FALSE	Driver	20		East	Entering Traffic	
13799200600083	FALSE	Driver	68		East	Proceeding Straight	
13436005200079	FALSE	Driver	22		West	Making Left Turn	
13803114300079	FALSE	Driver	27		North	Making Left Turn	
13439200000067	FALSE	Driver			South	Proceeding Straight	
14176164900016	FALSE	Driver	25		South	Entering Traffic	
14548190000036	FALSE	Driver			West	Making Right Turn	
13064173700054	FALSE	Driver	23		West	Proceeding Straight	
14161113100079	FALSE	Driver	20		West	Making Right Turn	
14526092600079	FALSE	Driver	71		North	Proceeding Straight	
13819144900900	FALSE	Driver	77		East	Proceeding Straight	
13097153000034	FALSE	Driver			North	Other Unsafe Turning	
13471110000054	FALSE	Pedestrian	14		East		
13471140600006	FALSE	Driver	38		North	Making Left Turn	
14550132500025	FALSE	Driver	56		West	Proceeding Straight	
13479053200023	FALSE	Driver	51		North	Proceeding Straight	
13092082500010	FALSE	Driver	38		East	Slowing/Stopping	
13461074900010	FALSE	Driver	19		West	Making Left Turn	
14590003800087	FALSE	Driver			South	Other	
14227081000079	FALSE	Driver	55		West	Proceeding Straight	

Table A3. Collision Data

Accident Number	-----	Party Type 1	Party Age 1	Party Sex 1	Direction of Travel 1	Movement Preceding Collision 1	special information 1
13863055400010	FALSE	Driver	23		West	Proceeding Straight	
13133071800010	FALSE	Driver			North	Making Right Turn	
14608084700079	FALSE	Driver	39		North	Entering Traffic	
14219190200012	FALSE	Driver	45		East	Making Left Turn	
13192111100060	FALSE	Driver	26		West	Proceeding Straight	
13559093000075	FALSE	Driver				Parking Maneuver	
14656023200038	FALSE	Driver			East	Crossed Into Opposing Lane - Unplanned	
13568190500075	FALSE	Driver	51		East	Making U Turn	
13184152700054	FALSE	Driver	54		North	Slowing/Stopping	
14282054400079	FALSE	Driver	24		West	Making Right Turn	
14282172600016	FALSE	Bicyclist	11		East	Proceeding Straight	
14282191600012	FALSE	Driver	49		East	Proceeding Straight	
13554120000008	FALSE	Driver	35		South	Making Left Turn	
13584141100078	FALSE	Driver	48		East	Making U Turn	
13949011000014	FALSE	Driver	45		South	Making Left Turn	
14318211300063	FALSE	Driver	17		East	Proceeding Straight	
13595145600016	FALSE	Driver	76		South	Entering Traffic	
12867191200061	FALSE	Driver	22		West	Proceeding Straight	
13965000100900	FALSE	Driver	17		East	Proceeding Straight	
13237010600064	FALSE	Driver	28		East	Proceeding Straight	
12847180900016	FALSE	Driver	61		East	Proceeding Straight	
13582123500040	FALSE	Driver			East	Slowing/Stopping	
13970110300084	FALSE	Driver	75		East	Proceeding Straight	
12884203000060	FALSE	Driver	42		East	Making Left Turn	
14346075600079	FALSE	Bicyclist	14		West	Proceeding Straight	
12891115600045	FALSE	Driver	69		South	Proceeding Straight	

Table A3. Collision Data

Accident Number	-----	Party Type 1	Party Age 1	Party Sex 1	Direction of Travel 1	Movement Preceding Collision 1	special information 1
13992043900007	FALSE	Driver	56		North	Making Left Turn	
12898225400055	FALSE	Driver	30		West	Proceeding Straight	
13266130000038	FALSE	Driver			South	Making Right Turn	
14729142800040	FALSE	Driver	56		East	Proceeding Straight	
13635131600040	FALSE	Driver	36		West	Proceeding Straight	
13646151500016	FALSE	Driver	17		East	Proceeding Straight	
14384114400900	FALSE	Driver	52		South	Making Left Turn	
14021135200900	FALSE	Driver	73		North	Making Left Turn	
14388171000016	FALSE	Driver	24		East	Proceeding Straight	
14388175500016	FALSE	Driver	20		East	Proceeding Straight	
12928173300003	FALSE	Driver	20		West	Making Right Turn	
14394143600016	FALSE	Bicyclist	13		East	Proceeding Straight	
12935180100012	FALSE	Driver	35		West	Making U Turn	
12945182700003	FALSE	Driver				Proceeding Straight	
13313151400016	FALSE	Driver	51		East	Proceeding Straight	
14046150300026	FALSE	Driver	34		South	Proceeding Straight	
12951191200003	FALSE	Driver	35		West	Proceeding Straight	
12954133000018	FALSE	Driver	20		West	Proceeding Straight	
13322173400054	FALSE	Driver	55		West	Proceeding Straight	
14055115100040	FALSE	Bicyclist	15		North	Proceeding Straight	
14055221000038	FALSE	Driver	35		South		
13695191200900	FALSE	Driver	25		South	Making Left Turn	
12938170600075	FALSE	Driver	18		South	Making Left Turn	
14399164000080	FALSE	Driver	23		East	Proceeding Straight	
14035140100016	FALSE	Driver	17		East	Proceeding Straight	
12943100300031	FALSE	Driver			West	Proceeding Straight	
14061173200012	FALSE	Driver	70		South	Making Left Turn	
14061222700014	FALSE	Driver			West	Proceeding Straight	
13706105000900	FALSE	Driver	76		South	Entering Traffic	
14075160000083	FALSE	Driver			South	Proceeding Straight	

Table A3. Collision Data

Accident Number	-----	Party Type 1	Party Age 1	Party Sex 1	Direction of Travel 1	Movement Preceding Collision 1	special information 1
13714075500069	FALSE	Driver	37		East	Entering Traffic	
12987115700045	FALSE	Driver	23		East	Making Left Turn	
13719230600067	FALSE	Driver	44		West	Making Left Turn	
13355090000072	FALSE	Driver	41		South	Making Left Turn	
13357085700013	FALSE	Driver	55		West	Slowing/Stopping	
14428093700040	FALSE	Driver	19		East	Entering Traffic	
14091184100047	FALSE	Driver	34		East	Making Left Turn	
14064221700005	FALSE	Driver	20		West	Proceeding Straight	
14433180200016	FALSE	Driver	32		East	Proceeding Straight	
13362120400016	FALSE	Driver	47		West	Parking Maneuver	
13378164900054	FALSE	Driver	20		West	Proceeding Straight	
13379202100034	FALSE	Driver	59		East	Slowing/Stopping	
13748152800040	FALSE	Driver	16		East	Making Left Turn	
14478202000050	FALSE	Driver	25		West	Proceeding Straight	
13729000600013	FALSE	Driver	23		East	Proceeding Straight	
13756203900074	FALSE	Driver	17		East	Proceeding Straight	
13392073300016	FALSE	Driver	17		North	Entering Traffic	
14460204300079	FALSE	Pedestrian	26		North		
13405152000008	FALSE	Driver	35		East	Proceeding Straight	
14504082200059	FALSE	Driver	75		East	Proceeding Straight	
13044190300079	FALSE	Driver	20		East	Making U Turn	
14140183600900	FALSE	Driver	58		West	Making Left Turn	
13779171200040	FALSE	Driver	29		South	Making Left Turn	
13049180500034	FALSE	Bicyclist	72		West	Proceeding Straight	
13415074900016	FALSE	Driver	18		East	Proceeding Straight	
14514130000016	FALSE	Driver	40		South	Making Left Turn	

Table A3. Collision Data

Accident Number	Associated Cause - Factor 1 1	Party Sobriety 1 1	Vehicle Type 1	Vehicle Type Code 1	Vehicle Year 1	Vehicle Make 1
12797080500046	None Apparent	HNBD	Passenger Car	01	2001	HYUNDAI
13165172200075	Violation	HBD Under Influence	Passenger Car	01	1996	HONDA
13897180000083	None Apparent	Impairment Not Known	Bicycle	04		
13535121500006	None Apparent	HNBD	Passenger Car	07	2002	FORD
13170181600054	None Apparent	HNBD	Passenger Car	01	2005	DODGE
12806160700054	None Apparent	HNBD	Passenger Car	07	2008	SUBARU
14269144200016	None Apparent	HNBD	Passenger Car	01	2015	TOYOTA
13518174200016	None Apparent	HNBD	Passenger Car	01	2006	TOYOTA
13884073600010	None Apparent	HNBD	Passenger Car	01	2014	NISSAN
13066103800010	None Apparent	HNBD	Other Bus	20	2011	GILLIG
13434104700016	None Apparent	HNBD	Passenger Car	01	2005	BUICK
13799200600083	None Apparent	HNBD	Passenger Car	01	2013	TOYOTA
13436005200079	Violation	HBD Impairment Unknown	Passenger Car	01	2013	NISSAN
13803114300079	None Apparent	HNBD	Passenger Car	07	2008	HONDA
13439200000067	None Apparent	Impairment Not Known	Passenger Car	01		
14176164900016	None Apparent	HNBD	Passenger Car	01	2012	TOYOTA
14548190000036	None Apparent	Impairment Not Known	Pickup Truck	73		
13064173700054	None Apparent	HNBD	Motorcycle	02	2003	KAWASAKI
14161113100079	Inattention	HNBD	Passenger Car	01	2008	TOYOTA
14526092600079	None Apparent	HNBD	Passenger Car	01	2015	HONDA
13819144900900	None Apparent	HNBD	Passenger Car	01	2007	HONDA
13097153000034	Violation	Impairment Not Known	Other	99		
13471110000054		Impairment Not Known	Pedestrian	60		
13471140600006	Violation	HNBD	Passenger Car	07	2012	GMC
14550132500025	Violation	Under Drug Influence	Pickup Truck	72	1979	CHEVROLET
13479053200023	None Apparent	HNBD	Passenger Car	01	2007	TOYOTA
13092082500010	None Apparent	HNBD	Passenger Car	01	2005	NISSAN
13461074900010	None Apparent	HNBD	Passenger Car	01	2001	ACURA
14590003800087	None Apparent	Impairment Not Known	Passenger Car	01	2015	AUDI
14227081000079	None Apparent	HNBD	Passenger Car	01	2011	CHEVROLET

Table A3. Collision Data

Accident Number	Associated Cause - Factor 1 1	Party Sobriety 1 1	Vehicle Type 1	Vehicle Type Code 1	Vehicle Year 1	Vehicle Make 1
13863055400010	None Apparent	HNBD	Passenger Car	01	2016	TOYOTA
13133071800010	None Apparent	Impairment Not Known	Other	99		
14608084700079	None Apparent	HNBD	Passenger Car	01	2019	KIA
14219190200012	None Apparent	HNBD	Pickup Truck	72	2012	FORD
13192111100060	None Apparent	Under Drug Influence	Passenger Car	01	2014	HONDA
13559093000075	None Apparent	Impairment Not Known	Other	99		
14656023200038		HBD Under Influence	Passenger Car	07	2003	GMC
13568190500075	None Apparent	HNBD	Passenger Car	01	2002	FORD
13184152700054	None Apparent	HNBD	Passenger Car	01	2014	CHEVROLET
14282054400079	None Apparent	HNBD	Passenger Car	01	1997	VOLKSWAGEN
14282172600016	None Apparent	HNBD	Bicycle	04		
14282191600012	None Apparent	Impairment Not Known	Passenger Car	01	2001	FORD
13554120000008	None Apparent	HNBD	Passenger Car	01	2015	HONDA
13584141100078	None Apparent	HNBD	Passenger Car	01	2014	MAZDA
13949011000014	Violation	HBD Under Influence	Passenger Car	01	2012	HYUNDAI
14318211300063	Inattention	Not Applicable	Passenger Car	01	2000	FORD
13595145600016	None Apparent	HNBD	Passenger Car	01	2010	SUBARU
12867191200061	Violation	HBD Under Influence	Passenger Car	01	1997	TOYOTA
13965000100900	None Apparent	HNBD	Passenger Car	01	2002	VOLVO
13237010600064	None Apparent	HBD Under Influence	Passenger Car	01	2000	ISUZU
12847180900016	None Apparent	HNBD	Passenger Car	01	2013	LEXUS
13582123500040	None Apparent	Impairment Not Known	Passenger Car	07		
13970110300084	None Apparent	HNBD	Passenger Car	01	2013	CHEVROLET
12884203000060	None Apparent	HNBD	Passenger Car	01	2012	GMC
14346075600079	None Apparent	HNBD	Bicycle	04		
12891115600045	None Apparent	HNBD	Pickup Truck	22	2003	CHEVROLET

Table A3. Collision Data

Accident Number	Associated Cause - Factor 1 1	Party Sobriety 1 1	Vehicle Type 1	Vehicle Type Code 1	Vehicle Year 1	Vehicle Make 1
13992043900007	Violation	HBD Under Influence	Passenger Car	01	2000	TOYOTA
12898225400055	Violation	HBD Under Influence	Passenger Car	01	2003	MERCEDES-BENZ
13266130000038	Stop and Go Traffic	Impairment Not Known	Passenger Car	08		
14729142800040	None Apparent	HNBD	Pickup Truck	22	2016	CHEVROLET
13635131600040	None Apparent	HNBD	Passenger Car	01	2013	TOYOTA
13646151500016	None Apparent	HNBD	Passenger Car	01	2015	TOYOTA
14384114400900	None Apparent	HNBD	Pickup Truck	22	2015	GMC
14021135200900	None Apparent	HNBD	Passenger Car	01	1999	TOYOTA
14388171000016	None Apparent	HNBD	Passenger Car	01	1999	HONDA
14388175500016	None Apparent	HNBD	Pickup Truck	22	1997	GMC
12928173300003	None Apparent	HNBD	Passenger Car	01	2002	SUBARU
14394143600016	None Apparent	HNBD	Bicycle	04		
12935180100012	None Apparent	HNBD	Passenger Car	01	2007	LEXUS
12945182700003	None Apparent	Impairment Not Known	Other	99		
13313151400016	None Apparent	HNBD	Passenger Car	01	2004	HYUNDAI
14046150300026	None Apparent	HNBD	Passenger Car	07	2010	HONDA
12951191200003	Vision Obscurements	Impairment Not Known	Pickup Truck	22	2008	HONDA
12954133000018	None Apparent	HNBD	Passenger Car	01	1997	VOLVO
13322173400054	None Apparent	HNBD	Passenger Car	01	2010	HONDA
14055115100040	None Apparent	HNBD	Bicycle	04		
14055221000038	None Apparent	HBD Under Influence	Pickup Truck	22	2002	CHEVROLET
13695191200900	None Apparent	HNBD	Passenger Car	01	2014	TOYOTA
12938170600075	None Apparent	HNBD	Passenger Car	01	2001	TOYOTA
14399164000080	None Apparent	HNBD	Passenger Car	01	2000	TOYOTA
14035140100016	None Apparent	HNBD	Pickup Truck	22	2001	FORD
12943100300031	None Apparent	Impairment Not Known	Other	99		
14061173200012	None Apparent	HNBD	Passenger Car	01	2000	MERCURY
14061222700014	None Apparent	Impairment Not Known	Passenger Car	01		
13706105000900	None Apparent	HNBD	Passenger Car	01	2014	SUBARU
14075160000083	None Apparent	Impairment Not Known	Other	99		

Table A3. Collision Data

Accident Number	Associated Cause - Factor 1 1	Party Sobriety 1 1	Vehicle Type 1	Vehicle Type Code 1	Vehicle Year 1	Vehicle Make 1
13714075500069	None Apparent	HNBD	Passenger Car	01	2014	HYUNDAI
12987115700045	Previous Collision	HNBD	Passenger Car	01	2015	CHEVROLET
13719230600067	None Apparent	HNBD	Passenger Car	01	1966	VOLVO
13355090000072	None Apparent	HNBD	Passenger Car	01	2015	FORD
13357085700013	Inattention	HNBD	Passenger Car	01	1998	HONDA
14428093700040	None Apparent	HNBD	Passenger Car	01	2015	HONDA
14091184100047	None Apparent	HNBD	Passenger Car	07	2015	HONDA
14064221700005	None Apparent	HNBD	Pickup Truck	22	2005	FORD
14433180200016	None Apparent	HNBD	Passenger Car	01	2012	TOYOTA
13362120400016	None Apparent	HNBD	Other Bus	20	2009	GILLIG
13378164900054	None Apparent	HNBD	Passenger Car	01	2008	HYUNDAI
13379202100034	Other	HNBD	Passenger Car	01	1993	NISSAN
13748152800040	None Apparent	HNBD	Passenger Car	01	2014	JEEP
14478202000050	Inattention	HNBD	Pickup Truck	22	2017	FORD
13729000600013	Violation	HBD Under Influence	Passenger Car	01	2015	FORD
13756203900074	None Apparent	HNBD	Pickup Truck	22	2002	TOYOTA
13392073300016	None Apparent	HNBD	Passenger Car	01	2001	HYUNDAI
14460204300079	None Apparent	HBD Under Influence	Pedestrian	60		
13405152000008	None Apparent	HNBD	Passenger Car	01	2003	TOYOTA
14504082200059	Inattention	HNBD	Passenger Car	01	2004	TOYOTA
13044190300079	None Apparent	HNBD	Passenger Car	01	1995	FORD
14140183600900	None Apparent	HBD Not Under Influence	Pickup Truck	22	1994	GMC
13779171200040	None Apparent	HNBD	Passenger Car	01	2016	KIA
13049180500034	None Apparent	HNBD	Bicycle	04		
13415074900016	None Apparent	HNBD	Passenger Car	01	2002	HONDA
14514130000016	None Apparent	HNBD	Passenger Car	01	2012	TOYOTA

Table A3. Collision Data

Accident Number	Vehicle Model 1	Speed Limit 1	Extent of Damage 1	Safety Equipment 1	Party Type 2	Party Age 2	Party Sex 2	Direction of Travel 2
12797080500046				Lap/Shoulder Harness Used	Driver	37		East
13165172200075				Lap Belt Not Used				
13897180000083				M/C Helmet Driver - No				
13535121500006				Lap/Shoulder Harness Used	Driver	40		East
13170181600054				Lap/Shoulder Harness Used	Driver	40		East
12806160700054				Lap/Shoulder Harness Used	Driver	65		West
14269144200016				Lap/Shoulder Harness Used	Driver	42		East
13518174200016				Lap/Shoulder Harness Used	Driver	66		South
13884073600010				Lap/Shoulder Harness Used	Driver	25		East
13066103800010				Lap/Shoulder Harness Used	Parked Vehicle			West
13434104700016				Lap/Shoulder Harness Used	Driver	76		East
13799200600083				Lap/Shoulder Harness Used	Parked Vehicle			East
13436005200079				Lap/Shoulder Harness Used				
13803114300079				Lap/Shoulder Harness Used	Driver	23		East
13439200000067				Unknown	Bicyclist	15		East
14176164900016				Lap/Shoulder Harness Used	Driver	36		West
14548190000036				Unknown	Parked Vehicle			West
13064173700054				M/C Helmet Driver - Yes	Driver	65		West
14161113100079				Lap/Shoulder Harness Used	Parked Vehicle			West
14526092600079				Lap/Shoulder Harness Used	Driver	21		South
13819144900900				Lap/Shoulder Harness Used	Driver	47		West
13097153000034				Unknown	Parked Vehicle			North
13471110000054					Driver	48		South
13471140600006				Lap/Shoulder Harness Used	Driver	23		North
14550132500025				Lap/Shoulder Harness Used				
13479053200023				Lap/Shoulder Harness Used	Driver	85		North
13092082500010				Lap/Shoulder Harness Used	Driver	61		East
13461074900010				Lap/Shoulder Harness Used	Driver	46		West
14590003800087				Unknown				
14227081000079				Lap/Shoulder Harness Used	Driver	49		West

Table A3. Collision Data

Accident Number	Vehicle Model 1	Speed Limit 1	Extent of Damage 1	Safety Equipment 1	Party Type 2	Party Age 2	Party Sex 2	Direction of Travel 2
13863055400010				Lap/Shoulder Harness Used	Driver	32		West
13133071800010				Unknown	Pedestrian	11		West
14608084700079				Lap/Shoulder Harness Used	Driver	30		East
14219190200012				Lap/Shoulder Harness Used	Driver	34		West
13192111100060				Lap/Shoulder Harness Used	Parked Vehicle			West
13559093000075				Unknown	Parked Vehicle			East
14656023200038				Unknown	Parked Vehicle			East
13568190500075				Lap/Shoulder Harness Used	Driver	16		East
13184152700054				Lap/Shoulder Harness Used	Bicyclist	7		West
14282054400079				Lap/Shoulder Harness Used	Parked Vehicle			West
14282172600016				M/C Helmet Driver - Yes	Driver	59		South
14282191600012				Unknown	Driver	54		West
13554120000008				Lap/Shoulder Harness Used	Driver	61		East
13584141100078				Lap/Shoulder Harness Used	Driver	33		East
13949011000014				Lap/Shoulder Harness Used				
14318211300063				Lap/Shoulder Harness Used	Driver	40		East
13595145600016				Lap/Shoulder Harness Used	Driver	34		West
12867191200061				Lap/Shoulder Harness Used	Parked Vehicle			West
13965000100900				Lap/Shoulder Harness Used	Driver	63		East
13237010600064				Lap/Shoulder Harness Used	Parked Vehicle			East
12847180900016				Lap/Shoulder Harness Used	Driver	44		South
13582123500040				Unknown	Driver	44		East
13970110300084				Lap/Shoulder Harness Used	Driver	55		West
12884203000060				Lap/Shoulder Harness Used	Driver	17		West
14346075600079				M/C Helmet Passenger - No	Driver	34		West
12891115600045				Lap/Shoulder Harness Used	Driver	57		South

Table A3. Collision Data

Accident Number	Vehicle Model 1	Speed Limit 1	Extent of Damage 1	Safety Equipment 1	Party Type 2	Party Age 2	Party Sex 2	Direction of Travel 2
13992043900007				Lap/Shoulder Harness Used				
12898225400055				Lap/Shoulder Harness Used	Parked Vehicle			West
13266130000038				Unknown	Pedestrian	15		East
14729142800040				Lap/Shoulder Harness Used	Driver	67		South
13635131600040				Lap/Shoulder Harness Used	Driver	56		West
13646151500016				Lap/Shoulder Harness Used	Driver	63		East
14384114400900				Lap/Shoulder Harness Used	Pedestrian	22		North
14021135200900				Lap/Shoulder Harness Used	Driver	41		East
14388171000016				Lap/Shoulder Harness Used	Driver	34		East
14388175500016				Lap/Shoulder Harness Used	Driver	49		East
12928173300003				Lap/Shoulder Harness Used				
14394143600016				M/C Helmet Driver - No	Driver	22		South
12935180100012				Lap/Shoulder Harness Used	Driver	24		West
12945182700003				Unknown	Parked Vehicle			
13313151400016				Lap/Shoulder Harness Used	Driver	31		East
14046150300026				Lap/Shoulder Harness Used	Driver	64		West
12951191200003				Lap/Shoulder Harness Used	Driver	42		South
12954133000018				Lap/Shoulder Harness Used	Driver	60		East
13322173400054				Lap/Shoulder Harness Used	Driver	22		West
14055115100040				M/C Helmet Driver - No	Driver	42		West
14055221000038				Unknown				
13695191200900				Lap/Shoulder Harness Used	Driver	22		West
12938170600075				Lap/Shoulder Harness Used	Driver	27		West
14399164000080				Lap/Shoulder Harness Used	Driver	19		East
14035140100016				Lap/Shoulder Harness Used	Driver	17		East
12943100300031				Unknown	Parked Vehicle			West
14061173200012				Lap/Shoulder Harness Used	Driver	18		West
14061222700014				Unknown	Driver	24		West
13706105000900				Lap/Shoulder Harness Used	Driver	42		West
14075160000083				Unknown	Driver	70		East

Table A3. Collision Data

Accident Number	Vehicle Model 1	Speed Limit 1	Extent of Damage 1	Safety Equipment 1	Party Type 2	Party Age 2	Party Sex 2	Direction of Travel 2
13714075500069				Lap/Shoulder Harness Used	Driver	55		East
12987115700045								
13719230600067				Lap/Shoulder Harness Used	Driver	27		South
13355090000072				Lap/Shoulder Harness Used	Driver	34		East
13357085700013				Lap/Shoulder Harness Used	Driver	57		West
14428093700040				Lap/Shoulder Harness Used	Driver	30		East
14091184100047				Lap/Shoulder Harness Used				
14064221700005				Lap/Shoulder Harness Used	Driver	60		West
14433180200016				Lap/Shoulder Harness Used	Driver	45		East
13362120400016				Lap/Shoulder Harness Used	Parked Vehicle			West
13378164900054				Lap/Shoulder Harness Used	Driver	34		West
13379202100034				Lap/Shoulder Harness Used	Driver	25		East
13748152800040				Lap/Shoulder Harness Used	Driver	70		West
14478202000050				Lap/Shoulder Harness Used	Driver	18		West
13729000600013				Lap/Shoulder Harness Used				
13756203900074				Lap/Shoulder Harness Used	Bicyclist	24		East
13392073300016				Lap/Shoulder Harness Used	Driver	36		East
14460204300079					Driver	55		West
13405152000008				Lap/Shoulder Harness Used	Driver	46		East
14504082200059				Lap/Shoulder Harness Used	Driver	47		East
13044190300079				Lap/Shoulder Harness Used	Driver	47		East
14140183600900				Lap/Shoulder Harness Used	Driver	25		East
13779171200040				Lap/Shoulder Harness Used	Driver	50		West
13049180500034				M/C Helmet Driver - Yes				
13415074900016				Lap/Shoulder Harness Used	Driver	60		East
14514130000016				Lap/Shoulder Harness Used	Pedestrian	33		North

Table A3. Collision Data

Accident Number	Movement Preceding Collision 2	special information 2	Associated Cause - Factor 1 2	Party Sobriety 1 2	Vehicle Type 2
12797080500046	Proceeding Straight		None Apparent	HNBD	Passenger Car
13165172200075					
13897180000083					
13535121500006	Making Left Turn		None Apparent	HNBD	Passenger Car
13170181600054	Proceeding Straight		None Apparent	HNBD	Passenger Car
12806160700054	Stopped In Road		None Apparent	HNBD	Passenger Car
14269144200016	Stopped In Road		None Apparent	HNBD	Other Bus
13518174200016	Proceeding Straight		None Apparent	HNBD	Passenger Car
13884073600010	Proceeding Straight		None Apparent	HNBD	Passenger Car
13066103800010	Stopped In Road		None Apparent	Not Applicable	Passenger Car
13434104700016	Proceeding Straight		None Apparent	HNBD	Pickup Truck
13799200600083	Parked		None Apparent	Not Applicable	
13436005200079					
13803114300079	Proceeding Straight		None Apparent	HNBD	Passenger Car
13439200000067			None Apparent	HNBD	Bicycle
14176164900016	Proceeding Straight		None Apparent	HNBD	Passenger Car
14548190000036	Parked		None Apparent	Not Applicable	Passenger Car
13064173700054	Slowing/Stopping		None Apparent	HNBD	Passenger Car
14161113100079	Parked		None Apparent	Not Applicable	Passenger Car
14526092600079	Making Left Turn		None Apparent	HNBD	Passenger Car
13819144900900	Making Left Turn		None Apparent	HNBD	Passenger Car
13097153000034	Parked		None Apparent	Not Applicable	Passenger Car
13471110000054	Making Right Turn		None Apparent	Impairment Not Known	Passenger Car
13471140600006	Making Left Turn		None Apparent	HNBD	Passenger Car
14550132500025					
13479053200023	Stopped In Road		None Apparent	HNBD	Passenger Car
13092082500010	Proceeding Straight		None Apparent	HNBD	Other Bus
13461074900010	Making Left Turn		None Apparent	HNBD	Pickup Truck
14590003800087					
14227081000079	Stopped In Road		None Apparent	HNBD	Passenger Car

Table A3. Collision Data

Accident Number	Movement Preceding Collision 2	special information 2	Associated Cause - Factor 1 2	Party Sobriety 1 2	Vehicle Type 2
13863055400010	Proceeding Straight		None Apparent	HNBD	Passenger Car
13133071800010	Proceeding Straight		None Apparent		Pedestrian
14608084700079	Proceeding Straight		None Apparent	HNBD	Pickup Truck
14219190200012	Proceeding Straight		None Apparent	HNBD	Passenger Car
13192111100060	Parked		None Apparent	Not Applicable	Passenger Car
13559093000075	Parked		None Apparent	Not Applicable	Passenger Car
14656023200038	Parked		None Apparent	Not Applicable	Passenger Car
13568190500075	Proceeding Straight		None Apparent	HNBD	Pickup Truck
13184152700054	Proceeding Straight		None Apparent	HNBD	Bicycle
14282054400079	Parked		None Apparent	Not Applicable	Passenger Car
14282172600016	Proceeding Straight		None Apparent	HNBD	Passenger Car
14282191600012	Proceeding Straight		None Apparent	HNBD	Passenger Car
13554120000008	Proceeding Straight		None Apparent	HNBD	Pickup Truck
13584141100078	Proceeding Straight		None Apparent	HNBD	Passenger Car
13949011000014					
14318211300063	Making Left Turn		None Apparent	Not Applicable	Passenger Car
13595145600016	Proceeding Straight		None Apparent	HNBD	Passenger Car
12867191200061	Parked		None Apparent	Not Applicable	Passenger Car
13965000100900	Slowing/Stopping		None Apparent	HNBD	Passenger Car
13237010600064	Parked		None Apparent	Not Applicable	Other Bus
12847180900016	Making Right Turn		None Apparent	HNBD	Pickup Truck
13582123500040	Slowing/Stopping		None Apparent	HNBD	Passenger Car
13970110300084	Proceeding Straight		None Apparent	HNBD	Passenger Car
12884203000060	Proceeding Straight		None Apparent	HNBD	Passenger Car
14346075600079	Parked		None Apparent	HNBD	Passenger Car
12891115600045	Stopped In Road		None Apparent	HNBD	Passenger Car

Table A3. Collision Data

Accident Number	Movement Preceding Collision 2	special information 2	Associated Cause - Factor 1 2	Party Sobriety 1 2	Vehicle Type 2
13992043900007					
12898225400055	Parked		None Apparent	Not Applicable	Pickup Truck
13266130000038			None Apparent	HNBD	Pedestrian
14729142800040	Proceeding Straight		None Apparent	HNBD	Passenger Car
13635131600040	Proceeding Straight		None Apparent	HNBD	Passenger Car
13646151500016	Stopped In Road		None Apparent	HNBD	Passenger Car
14384114400900			None Apparent	HNBD	Pedestrian
14021135200900	Proceeding Straight		None Apparent	HNBD	Passenger Car
14388171000016	Stopped In Road		None Apparent	HNBD	Passenger Car
14388175500016	Stopped In Road		None Apparent	HNBD	Passenger Car
12928173300003					
14394143600016	Making Right Turn		None Apparent	HNBD	Passenger Car
12935180100012	Proceeding Straight		None Apparent	HNBD	Passenger Car
12945182700003	Parked		None Apparent	Not Applicable	Pickup Truck
13313151400016	Stopped In Road		None Apparent	HNBD	Passenger Car
14046150300026	Proceeding Straight		None Apparent	HNBD	Passenger Car
12951191200003	Proceeding Straight		None Apparent	HNBD	Passenger Car
12954133000018	Making Left Turn		None Apparent	HNBD	Passenger Car
13322173400054	Stopped In Road		None Apparent	HNBD	Passenger Car
14055115100040	Proceeding Straight		None Apparent	HNBD	Passenger Car
14055221000038					
13695191200900	Proceeding Straight		None Apparent	HNBD	Motorcycle
12938170600075	Proceeding Straight		None Apparent	HNBD	Passenger Car
14399164000080	Stopped In Road		None Apparent	HNBD	Passenger Car
14035140100016	Proceeding Straight		None Apparent	HNBD	Passenger Car
12943100300031	Parked		None Apparent	Not Applicable	Pickup Truck
14061173200012	Proceeding Straight		None Apparent	HNBD	Passenger Car
14061222700014	Making Left Turn		None Apparent	HNBD	Passenger Car
13706105000900	Proceeding Straight		Violation	HNBD	Pickup Truck
14075160000083	Making Left Turn		None Apparent	HNBD	Passenger Car

Table A3. Collision Data

Accident Number	Movement Preceding Collision 2	special information 2	Associated Cause - Factor 1 2	Party Sobriety 1 2	Vehicle Type 2
13714075500069	Proceeding Straight		None Apparent	HNBD	Passenger Car
12987115700045					
13719230600067	Proceeding Straight		None Apparent	HNBD	Passenger Car
13355090000072	Proceeding Straight		None Apparent	HNBD	Passenger Car
13357085700013	Stopped In Road		None Apparent	HNBD	Passenger Car
14428093700040	Entering Traffic		None Apparent	HNBD	Pickup Truck
14091184100047					
14064221700005	Stopped In Road		None Apparent	HNBD	Passenger Car
14433180200016	Slowing/Stopping		None Apparent	HNBD	Passenger Car
13362120400016	Parked		None Apparent	Not Applicable	Pickup Truck
13378164900054	Stopped In Road		None Apparent	HNBD	Pickup Truck
13379202100034	Stopped In Road		None Apparent	HNBD	Passenger Car
13748152800040	Proceeding Straight		None Apparent	HNBD	Passenger Car
14478202000050	Stopped In Road		None Apparent	HNBD	Passenger Car
13729000600013					
13756203900074	Proceeding Straight		None Apparent	HNBD	Bicycle
13392073300016	Proceeding Straight		None Apparent	HNBD	Passenger Car
14460204300079	Proceeding Straight		None Apparent	HNBD	Passenger Car
13405152000008	Stopped In Road		None Apparent	HNBD	Passenger Car
14504082200059	Stopped In Road		None Apparent	HNBD	Passenger Car
13044190300079	Proceeding Straight		None Apparent	HNBD	Pickup Truck
14140183600900	Proceeding Straight		None Apparent	HNBD	Passenger Car
13779171200040	Proceeding Straight		None Apparent	HNBD	Passenger Car
13049180500034					
13415074900016	Stopped In Road		None Apparent	HNBD	Passenger Car
14514130000016			None Apparent	HNBD	Pedestrian

Table A3. Collision Data

Accident Number	Vehicle Type Code 2	Vehicle Year 2	Vehicle Make 2	Vehicle Model 2	Speed Limit 2	Extent of Damage 2	Safety Equipment 2
12797080500046	07	1997	CHEVROLET				Lap/Shoulder Harness Used
13165172200075							
13897180000083							
13535121500006	01	2014	SUBARU				Lap/Shoulder Harness Used
13170181600054	07	2003	ISUZU				Lap/Shoulder Harness Used
12806160700054	01	1997	FORD				Lap/Shoulder Harness Used
14269144200016	20	2016	GILLIG				Lap/Shoulder Harness Used
13518174200016	01	2006	TOYOTA				Lap/Shoulder Harness Used
13884073600010	01	2010	TOYOTA				Lap/Shoulder Harness Used
13066103800010	01	2012	FORD				
13434104700016	22	2002	FORD				Lap/Shoulder Harness Used
13799200600083		2011	IRNP				
13436005200079							
13803114300079	01	1998	BUICK				Lap/Shoulder Harness Not Used
13439200000067	04						M/C Helmet Driver - No
14176164900016	01	2006	HONDA				Lap/Shoulder Harness Used
14548190000036	01	2014	VOLKSWAGEN				
13064173700054	01	2006	TOYOTA				Lap/Shoulder Harness Used
14161113100079	07	2002	NISSAN				
14526092600079	08	2000	TOYOTA				Lap/Shoulder Harness Used
13819144900900	01	1998	HONDA				Lap/Shoulder Harness Used
13097153000034	01	1995	LINCOLN				
13471110000054	01	2015	HONDA				Lap/Shoulder Harness Used
13471140600006	08	2003	HONDA				
14550132500025							
13479053200023	01	2013	HYUNDAI				Lap/Shoulder Harness Used
13092082500010	20	2003	GILLIG				Lap/Shoulder Harness Used
13461074900010	22	1998	FORD				Lap/Shoulder Harness Used
14590003800087							
14227081000079	07	2008	HYUNDAI				Lap/Shoulder Harness Used

Table A3. Collision Data

Accident Number	Vehicle Type Code 2	Vehicle Year 2	Vehicle Make 2	Vehicle Model 2	Speed Limit 2	Extent of Damage 2	Safety Equipment 2
13863055400010	01	2011	TOYOTA				Lap/Shoulder Harness Used
13133071800010	60						
14608084700079	22	2011	TOYOTA				Lap/Shoulder Harness Used
14219190200012	01	2012	SUBARU				Lap/Shoulder Harness Used
13192111100060	07	2003	TOYOTA				
13559093000075	01	2010	TOYOTA				
14656023200038	07	2018	NISSAN				
13568190500075	22	2001	FORD				Lap/Shoulder Harness Used
13184152700054	04						M/C Helmet Passenger - Yes
14282054400079	01	2001	TOYOTA				
14282172600016	01	2014	FORD				Lap/Shoulder Harness Used
14282191600012	01	2013	SCION				Lap/Shoulder Harness Used
13554120000008	22	1992	CHEVROLET				Lap/Shoulder Harness Used
13584141100078	01	2000	TOYOTA				Lap/Shoulder Harness Used
13949011000014							
14318211300063	01	2016	TOYOTA				Lap/Shoulder Harness Used
13595145600016	01	2007	TOYOTA				Lap/Shoulder Harness Used
12867191200061	01	2001	CHRYSLER				
13965000100900	01	2002	LAND ROVER				Lap/Shoulder Harness Used
13237010600064	11	2006	GMC				
12847180900016	22	2012	FORD				Lap/Shoulder Harness Used
13582123500040	07	2016	HONDA				Lap/Shoulder Harness Used
13970110300084	07	2013	ACURA				Lap/Shoulder Harness Used
12884203000060	01	1981	DATSUN				Lap/Shoulder Harness Used
14346075600079	07	2012	DODGE				
12891115600045	01	1991	CADILLAC				Lap/Shoulder Harness Used

Table A3. Collision Data

Accident Number	Vehicle Type Code 2	Vehicle Year 2	Vehicle Make 2	Vehicle Model 2	Speed Limit 2	Extent of Damage 2	Safety Equipment 2
13992043900007							
12898225400055	22	2002	DODGE				
13266130000038	60						Unknown
14729142800040	01	2004	MERCEDES-BENZ				Lap/Shoulder Harness Used
13635131600040	01	2002	CHEVROLET				Lap/Shoulder Harness Used
13646151500016	01	1993	HONDA				Lap/Shoulder Harness Used
14384114400900	60						
14021135200900	01	2000	NISSAN				Lap/Shoulder Harness Used
14388171000016	01	2015	FORD				Lap/Shoulder Harness Used
14388175500016	01	2012	NISSAN				Lap/Shoulder Harness Used
12928173300003							
14394143600016	07	2009	FORD				Lap/Shoulder Harness Used
12935180100012	01	2011	HYUNDAI				Lap/Shoulder Harness Used
12945182700003	22	2012	GMC				
13313151400016	01	2014	FORD				Lap/Shoulder Harness Used
14046150300026	01	2016	FORD				Lap/Shoulder Harness Used
12951191200003	01	2014	INFINITI				Lap/Shoulder Harness Used
12954133000018	01	2004	TOYOTA				Lap/Shoulder Harness Used
13322173400054	01	2014	CHEVROLET				Lap/Shoulder Harness Used
14055115100040	01	2006	FORD				Lap/Shoulder Harness Used
14055221000038							
13695191200900	02	2017	HARLEY DAVIDSON				M/C Helmet Passenger - Yes
12938170600075	01	2005	BUICK				Lap/Shoulder Harness Used
14399164000080	01	2004	TOYOTA				Lap/Shoulder Harness Used
14035140100016	01	2007	HONDA				Lap/Shoulder Harness Used
12943100300031	22	2003	CHEVROLET				
14061173200012	01	2004	SATURN				Lap/Shoulder Harness Used
14061222700014	01	1999	VOLVO				Lap/Shoulder Harness Used
13706105000900	22	2002	TOYOTA				Lap/Shoulder Harness Used
14075160000083	01	2014	MERCEDES-BENZ				Lap/Shoulder Harness Used

Table A3. Collision Data

Accident Number	Vehicle Type Code 2	Vehicle Year 2	Vehicle Make 2	Vehicle Model 2	Speed Limit 2	Extent of Damage 2	Safety Equipment 2
13714075500069	01	2001	NISSAN				Lap/Shoulder Harness Used
12987115700045							
13719230600067	01	1996	HONDA				Lap/Shoulder Harness Used
13355090000072	01	2004	HONDA				Lap/Shoulder Harness Used
13357085700013	01	2016	HONDA				Lap/Shoulder Harness Used
14428093700040	22	2008	FORD				Lap/Shoulder Harness Used
14091184100047							
14064221700005	07	2006	CHEVROLET				Lap/Shoulder Harness Used
14433180200016	07	2012	HYUNDAI				Lap/Shoulder Harness Used
13362120400016	22	2002	FORD				
13378164900054	72	2002	CHEVROLET				Lap/Shoulder Harness Used
13379202100034	01	2001	MITSUBISHI				Lap/Shoulder Harness Used
13748152800040	01	2012	HONDA				Lap/Shoulder Harness Used
14478202000050	01	2013	LEXUS				Lap/Shoulder Harness Used
13729000600013							
13756203900074	04						
13392073300016	07	2010	NISSAN				Lap/Shoulder Harness Used
14460204300079	07	2007	TOYOTA				Lap/Shoulder Harness Used
13405152000008	01	2001	TOYOTA				Lap/Shoulder Harness Used
14504082200059	01	2013	CHEVROLET				Lap/Shoulder Harness Used
13044190300079	22	2013	NISSAN				Lap/Shoulder Harness Used
14140183600900	01	1995	ACURA				Lap/Shoulder Harness Used
13779171200040	08	2002	DODGE				Lap/Shoulder Harness Used
13049180500034							
13415074900016	01	1996	LEXUS				Lap/Shoulder Harness Used
14514130000016	60						