

Technical Memorandum

I-290

Preliminary Engineering
and Environmental (Phase I) Study
West of Mannheim Road to East of Cicero Avenue

Crash Analysis

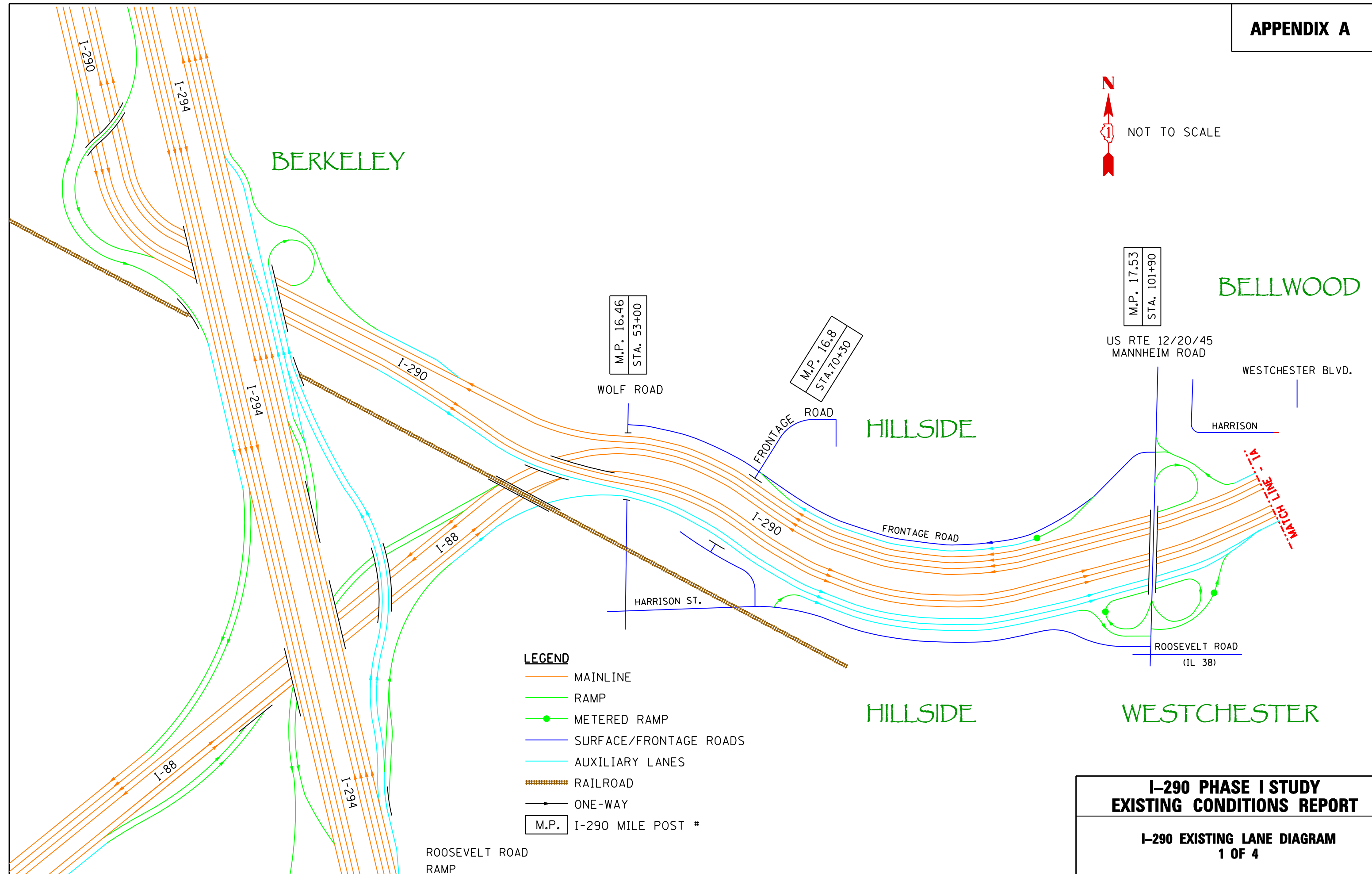
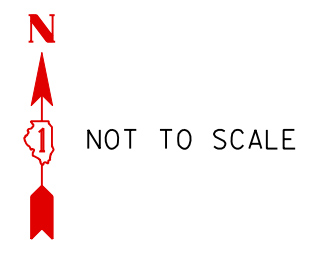
July 2010

- Appendix A – Existing Lane Diagrams**
- Appendix B – Comparative Crash Analysis**
- Appendix C – Mainline Crashes and Operations Exhibit**
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- Appendix H – Crossroad Crash Statistics**
- Appendix I – Frontage Road Crash Summary Reports**
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Appendix A

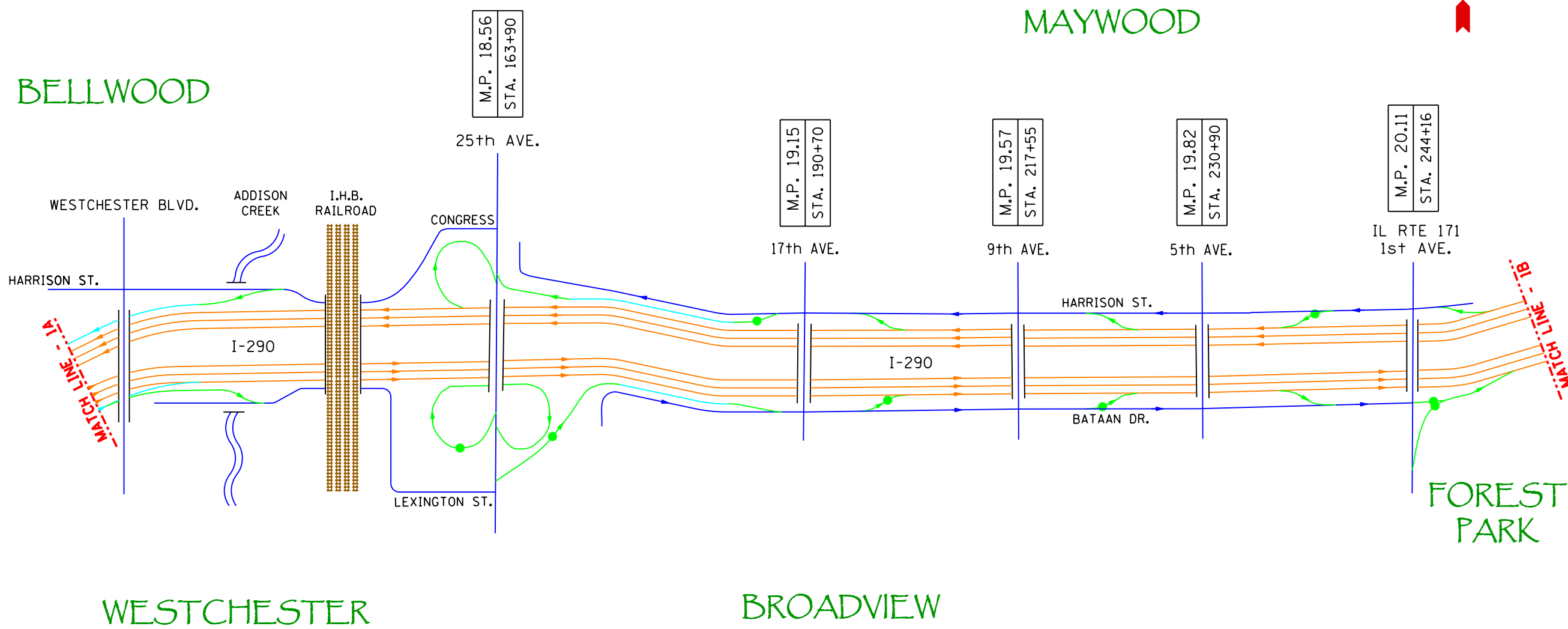
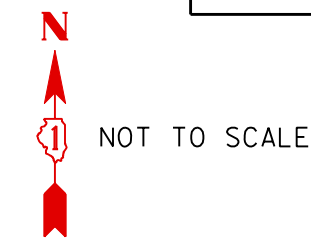
Existing Lane Diagrams



- LEGEND**
- MAINLINE
 - RAMP
 - METERED RAMP
 - SURFACE/FRONTAGE ROADS
 - AUXILIARY LANES
 - ▨ RAILROAD
 - ONE-WAY
 - ☐ M.P. I-290 MILE POST #

**I-290 PHASE I STUDY
EXISTING CONDITIONS REPORT**

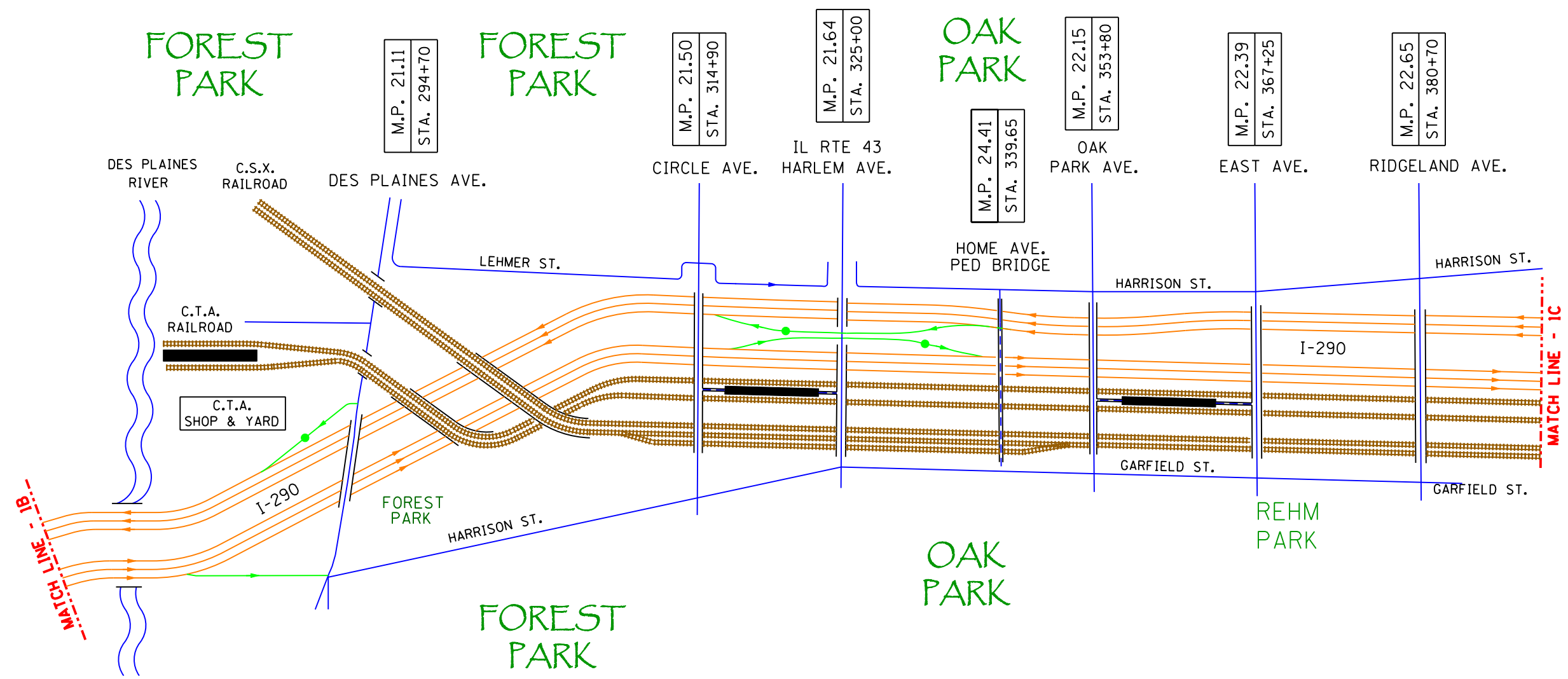
**I-290 EXISTING LANE DIAGRAM
1 OF 4**



- LEGEND**
- MAINLINE
 - RAMP
 - METERED RAMP
 - SURFACE/FRONTAGE ROADS
 - AUXILIARY LANES
 - ▤ RAILROAD
 - ONE-WAY
 - M.P. I-290 MILE POST #

**I-290 PHASE I STUDY
EXISTING CONDITIONS REPORT**

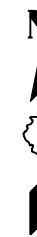
**I-290 EXISTING LANE DIAGRAM
2 OF 4**



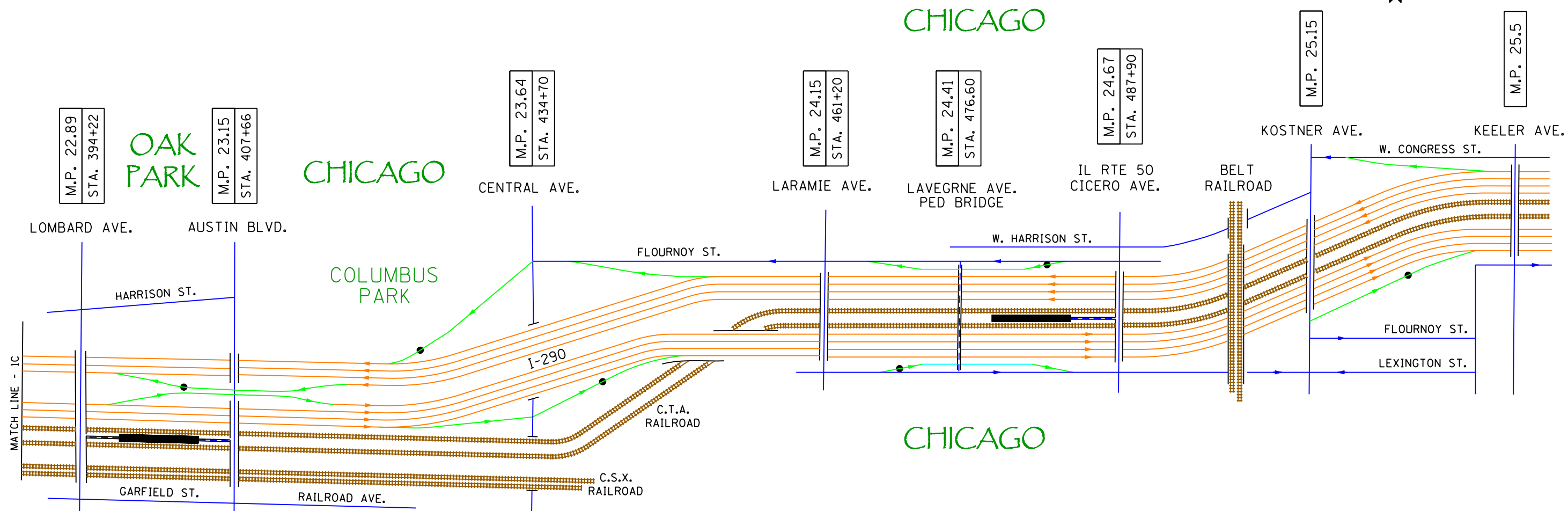
- LEGEND**
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**I-290 PHASE I STUDY
EXISTING CONDITIONS REPORT**

**I-290 EXISTING LANE DIAGRAM
3 OF 4**



NOT TO SCALE



- LEGEND**
- MAINLINE
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**I-290 PHASE I STUDY
EXISTING CONDITIONS REPORT**

**I-290 EXISTING LANE DIAGRAM
4 OF 4**

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Appendix B

Comparative Crash Analysis

I-290 Phase I Study - Freeway Crash Rate Comparison (2006 thru 2008)

I-94 (Edens)

Mainline Segments				Length (miles)	ADT (Traffic Volume)			3 yr Total Traffic (millions)	3 yr Crash Total	Crashes/ Million Veh./ Mile	Crashes Per Mile
From	Mile Sta.	To	Mile Sta.		2006	2007	2008				
Rt. 14 - Peterson	41.37	Touhy Ave	39.85	1.52	171,900	175,000	161,000	185.4	504	1.8	332
Touhy Ave	39.85	Rt. 58 - Dempster	37.36	2.49	165,500	167,800	159,500	179.9	621	1.4	249
Rt. 58 - Dempster	37.36	Old Orchard Rd	35.46	1.90	154,600	156,300	150,400	168.4	410	1.3	216
Old Orchard Rd	35.46	Lake Ave	34.58	0.88	151,500	155,700	153,000	168.0	161	1.1	183
				6.79	Averages ->			176.3*	1,696	1.4	250

I-90 (Kennedy)

Mainline Segments				Length (miles)	ADT (Traffic Volume)			3 yr Total Traffic (millions)	3 yr Crash Total	Crashes/ Million/ Mile	Crashes Per Mile
From	Mile Sta.	To	Mile Sta.		2006	2007	2008				
DesPlaines River Rd	78.35	Cumberland Ave.	79.68	1.33	209,700	209,200	318,000	269.0	678	1.9	510
Cumberland Ave.	79.68	Harlem Ave.	81.24	1.56	193,400	204,200	314,400	259.9	521	1.3	334
Harlem Ave.	81.24	Nagle Ave	82.24	1.00	193,800	199,200	298,600	252.4	400	1.6	400
Nagle Ave	82.24	Central Ave.	83.45	1.21	157,500	157,700	257,300	209.0	443	1.8	366
				5.1	Averages ->			248.7*	2,042	1.6	400

I-55 (Stevenson)

Mainline Segments				Length (miles)	ADT (Traffic Volume)			3 yr Total Traffic (millions)	3 yr Crash Total	Crashes/ Million/ Mile	Crashes Per Mile
From	Mile Sta.	To	Mile Sta.		2006	2007	2008				
La Grange Rd.	279.00	IL-171	282.31	3.31	148,900	152,100	161,400	168.8	550	1.0	166
IL-171	282.31	Central Ave	285.67	3.36	146,100	147,500	160,700	165.8	796	1.4	237
Central Ave	285.67	Cicero Ave.	286.70	1.03	149,900	154,900	166,100	171.9	349	2.0	339
Cicero Ave.	286.70	Pulaski Rd.	287.84	1.14	167,800	171,100	169,000	185.4	407	1.9	357
Pulaski Rd.	287.84	Western Ave.	290.29	2.45	176,400	181,500	176,600	195.1	614	1.3	251
				11.29	Averages ->			175.6*	2,716	1.4	241

I-290 (Eisenhower) Focused Phase I Study Area

Mainline Segments				Length (miles)	ADT (Traffic Volume)			3 yr Total Traffic (millions)	3 yr Crash Total	Crashes/ Million/ Mile	Crashes Per Mile
From	Mile Sta.	To	Mile Sta.		2006	2007	2008				
I-294	15.50	Wolf Rd.	16.46	0.96	194,500	191,100	192,800	211.1	229	1.1	239
Wolf Rd.	16.46	Mannheim Rd.	17.52	1.06	194,500	191,100	192,800	211.1	407	1.8	384
Mannheim Rd.	17.52	25th Ave.	18.55	1.03	194,500	191,100	192,800	211.1	494	2.3	480
25th Ave.	18.55	17th Ave.	19.05	0.50	194,000	187,400	190,700	208.8	377	3.6	754
17th Ave.	19.05	9th Ave.	19.57	0.52	190,900	180,500	185,700	203.3	123	1.2	237
9th Ave.	19.57	1st Ave.	20.11	0.54	200,600	189,500	195,050	213.6	304	2.6	563
1st Ave.	20.11	DesPlaines Ave.	21.11	1.00	205,500	194,500	200,000	219.0	488	2.2	488
DesPlaines Ave.	21.11	Harlem Ave.	21.64	0.53	190,500	179,400	184,950	202.5	311	2.9	587
Harlem Ave.	21.64	Austin Blvd.	23.15	1.51	195,300	184,200	189,750	207.8	707	2.3	468
Austin Blvd.	23.15	Central Ave.	23.64	0.49	213,100	202,000	207,550	227.3	392	3.5	800
Central Ave.	23.64	Laramie Ave.	24.15	0.51	209,900	198,800	204,350	223.8	297	2.6	582
Laramie Ave.	24.15	Cicero Ave.	24.67	0.52	227,300	216,200	221,750	242.8	243	1.9	467
Cicero Ave.	24.67	Kostner Ave.	25.15	0.48	196,100	188,200	192,150	210.4	187	1.9	390
				9.65	Averages ->			213.7*	4,559	2.2	472

I-290 (Eisenhower) 4-Lane Section East of Phase I Study Area

Mainline Segments				Length (miles)	ADT (Traffic Volume)			3 yr Total Traffic (millions)	3 yr Crash Total	Crashes/ Million/ Mile	Crashes Per Mile
From	Mile Sta.	To	Mile Sta.		2006	2007	2008				
Kostner Ave.	25.14	Independence Blvd.	25.94	0.80	219,600	210,400	207,300	232.6	389	2.1	486
Independence Blvd.	25.94	Homan Ave.	26.41	0.47	216,200	209,000	213,600	233.2	147	1.3	313
Homan Ave.	26.41	Sacramento Blvd.	26.90	0.49	232,000	226,300	224,200	249.1	208	1.7	424
Sacramento Blvd.	26.90	California Ave.	27.15	0.25	212,700	209,000	216,300	232.9	79	1.4	316
California Ave.	27.15	Western Ave.	27.66	0.51	211,200	209,700	210,300	230.4	144	1.2	282
Western Ave.	27.66	Damen Ave.	28.17	0.51	219,300	217,800	221,200	240.3	156	1.3	306
Damen Ave.	28.17	Paulina St.	28.55	0.38	212,400	210,900	215,100	233.0	134	1.5	353
Paulina St.	28.55	Racine Ave.	29.17	0.62	209,500	206,400	213,100	229.6	301	2.1	485
				4.03	Averages ->			235.0*	1,558	1.6	387

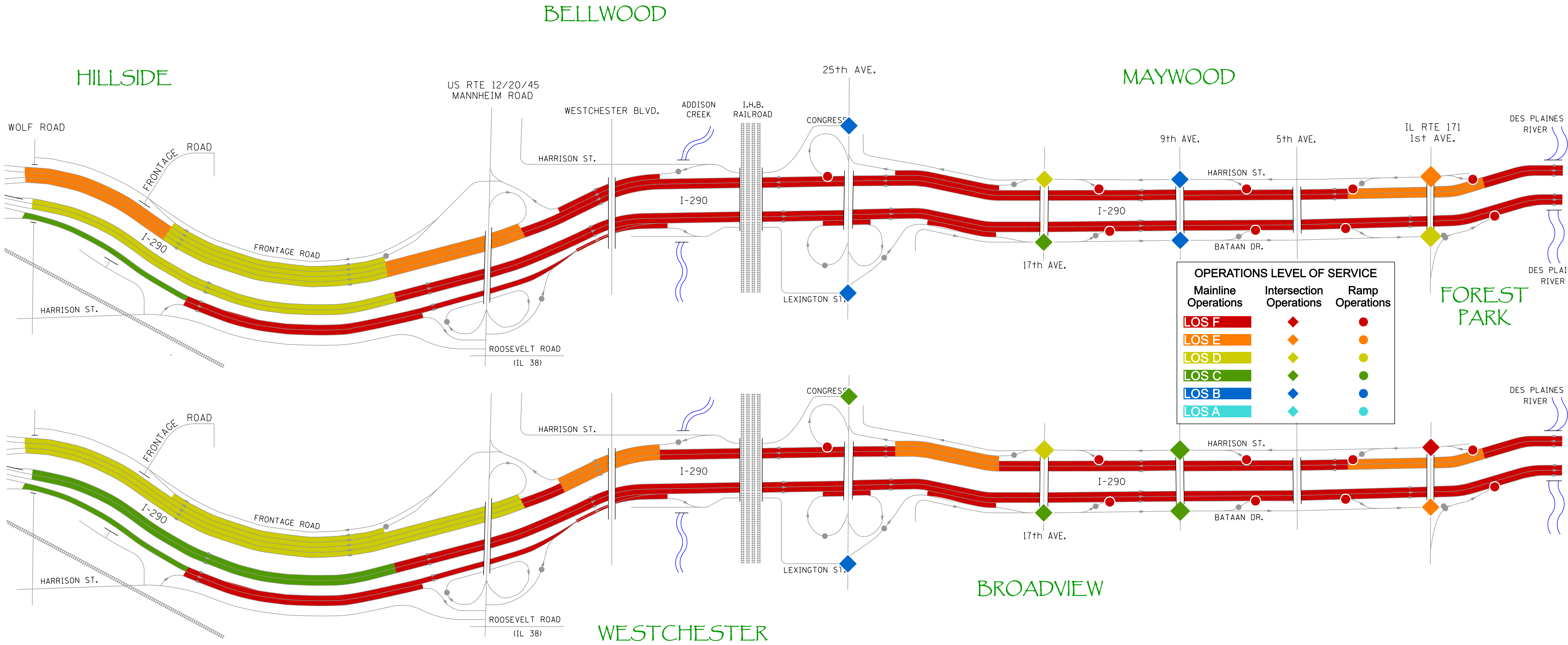
* 3-year average traffic volume, weighted by segment length

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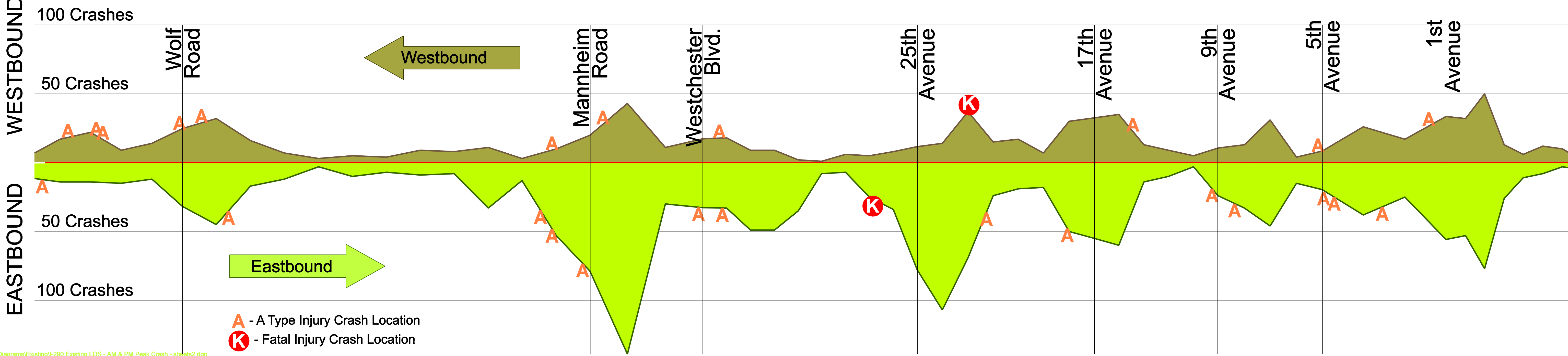
Appendix C

Mainline Crashes and Operations Exhibit

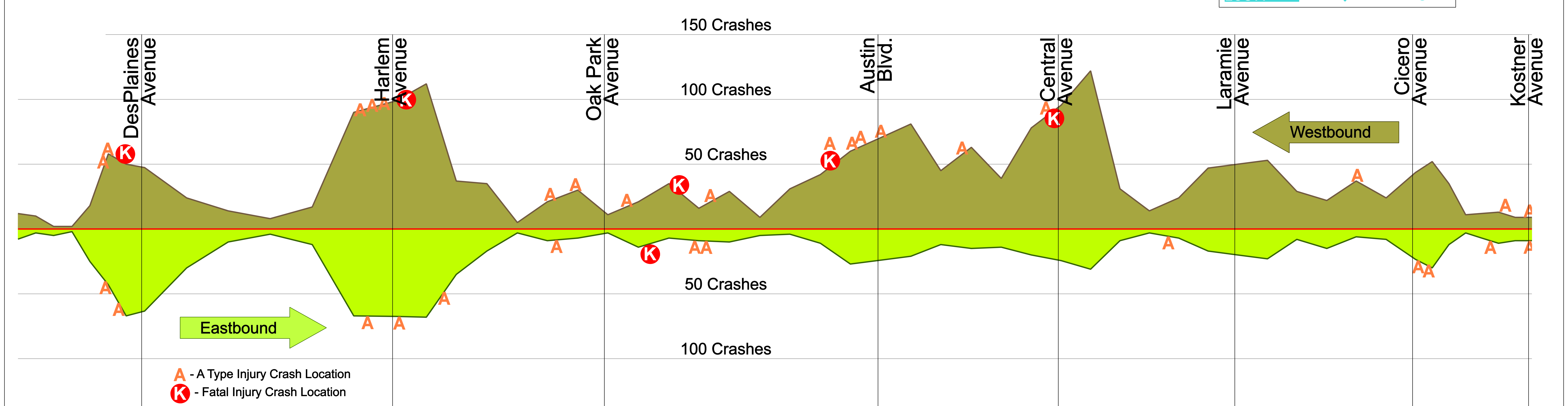
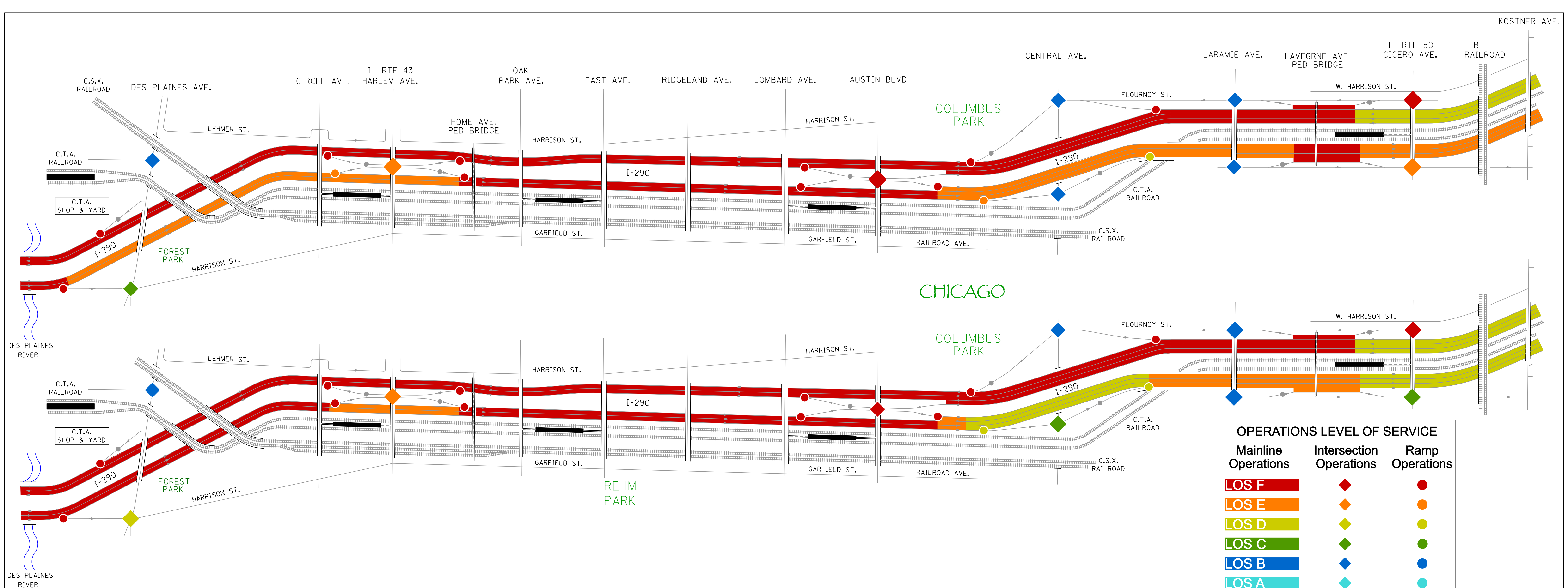
I-290 EISENHOWER EXPRESSWAY STUDY AREA OPERATIONS & CRASHES



1/10 Mile 2006-2008 Crash Totals



6/30/2010
 T:\16778a\Civil\Exhibits\Lane Diagrams\Existing\I-290 Existing LOS - AM & PM Peak Crash - sheets2.dgn



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Appendix D

Mainline Segment Diagrams

CRASHES BY SEGMENT

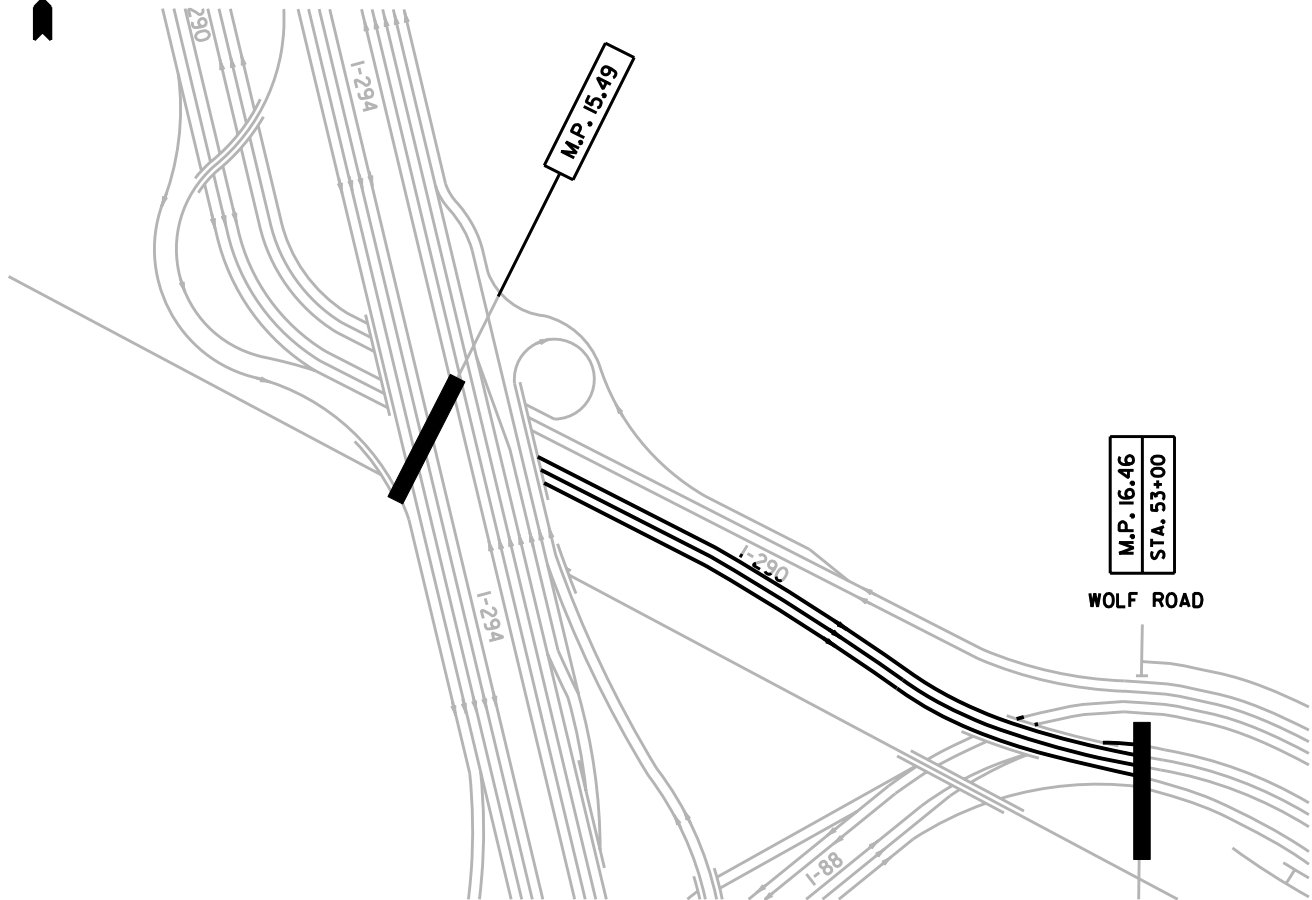
MAINLINE SEGMENT EB1

West of Wolf Road to Wolf Road

Length = 0.97 miles



NOT TO SCALE



EB1		0.97	West of Wolf Road to Wolf Road		
Eastbound		Miles			
RANK (EB)	8	Statistics		Predominant Crash Factors	
		of 9			
RATE	126	Total Crashes: 122		Crash Type: Rear end 46%	
		Fatalities: 0		Weather Conditions: Clear 71%	
		A Injuries: 1		Road Condition: Dry 62%	
		B & C Injuries: 13		Time Period: PM Peak 31%	
Crashes/mile		Total Injuries: 14		Vehicle Type: Passenger 70%	

Predominant Crash Type	# of Crashes	% of All Crashes	AM Peak 6a to 11a	Midday 11a to 4p	PM Peak 4p to 7p	Congested Period 6a to 11p	Dry	Wet	Ice Snow Slush
Rear end	56	46%	36%	21%	25%	96%	73%	23%	2%
Fixed object	32	26%	6%	19%	3%	53%	44%	38%	19%
Sideswipe same direction	26	21%	15%	31%	23%	88%	65%	23%	12%

LEGEND

- MAINLINE LANE
- RAMP, SURFACE STREETS
- METERED RAMP
- ONE-WAY
- ⋯ RAILROAD
- M.P. I-290 MILE POST ■

CRASHES BY SEGMENT

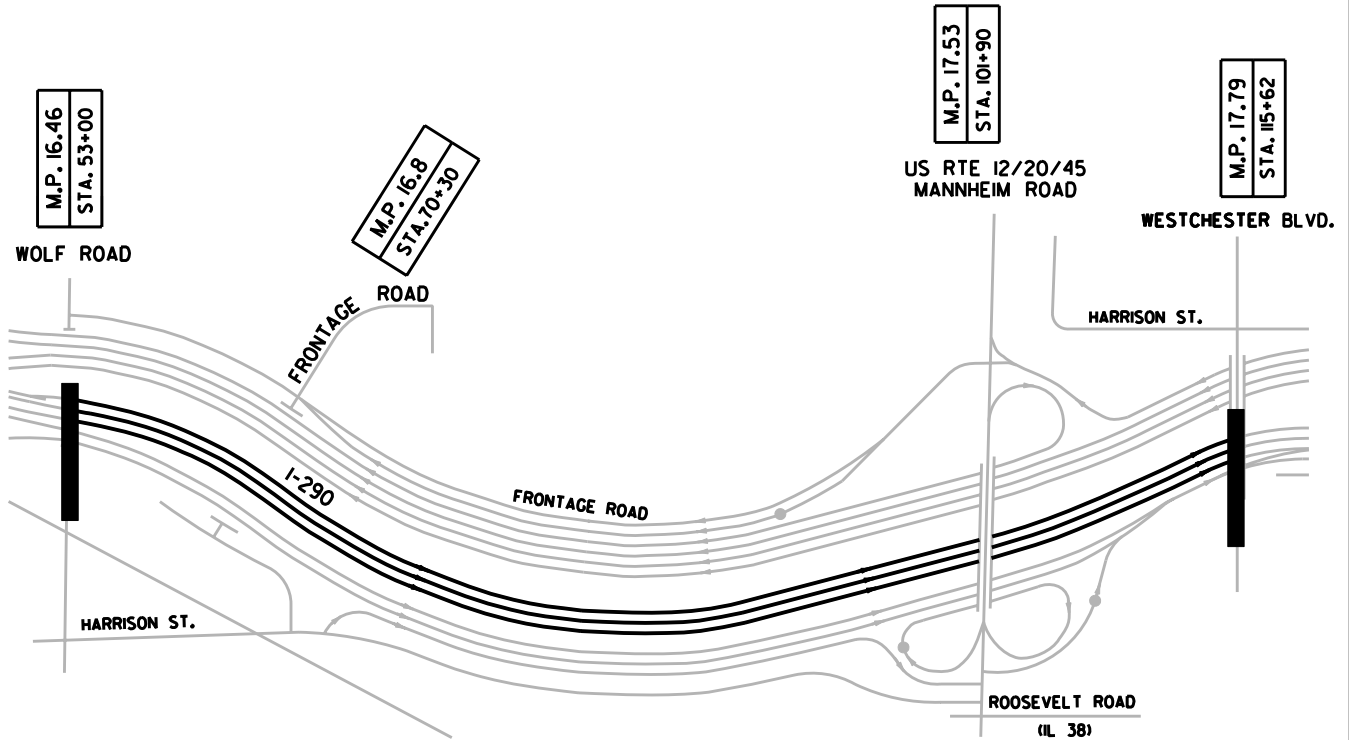
MAINLINE SEGMENT EB2

Wolf Road to Westchester Road

Length = 1.33 miles



NOT TO SCALE



EB2		1.33	Wolf Road to Westchester Blvd		
Eastbound		Miles			
RANK (EB)	3 of 9	Statistics		Predominant Crash Factors	
		Total Crashes: 393	Fatalities: 0	Crash Type: Rear end 62%	Weather Conditions: Clear 79%
RATE	295 Crashes/mile	A Injuries: 5	B & C Injuries: 21	Road Condition: Dry 73%	Time Period: AM Peak 31%
		Total Injuries: 26	Vehicle Type: Passenger 69%		

Predominant Crash Type	# of Crashes	% of All Crashes	AM Peak 6a to 11a	Midday 11a to 4p	PM Peak 4p to 7p	Congested Period 6a to 11p	Dry	Wet	Ice Snow Slush
Rear end	242	62%	33%	30%	25%	97%	80%	13%	5%
Fixed object	67	17%	19%	18%	9%	61%	49%	27%	22%
Sideswipe same direction	65	17%	31%	26%	22%	88%	78%	11%	9%

LEGEND

- MAINLINE LANE
- RAMP, SURFACE STREETS
- METERED RAMP
- ONE-WAY
- ⋯ RAILROAD
- M.P. I-290 MILE POST ■



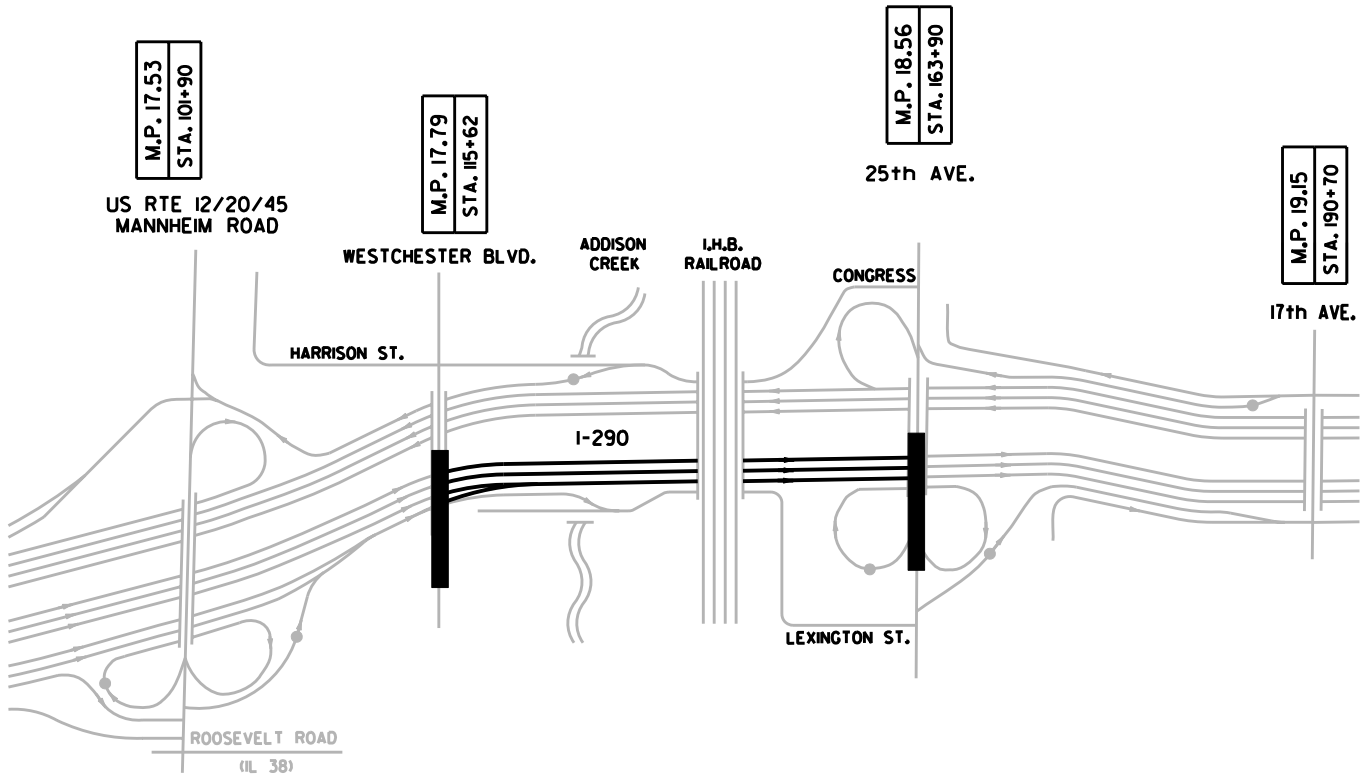
NOT TO SCALE

CRASHES BY SEGMENT

MAINLINE SEGMENT EB3

Westchester Boulevard to 25th Avenue

Length = 0.77 miles

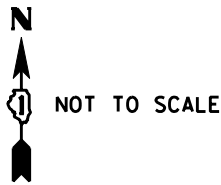


EB3		0.77	Westchester Blvd to 25th Avenue		
Eastbound		Miles			
RANK (EB)	1 of 9	Statistics		Predominant Crash Factors	
		Total Crashes: 288	Fatalities: 1	Crash Type: Rear end 56%	Weather Conditions: Clear 82%
RATE	374 Crashes/mile	A Injuries: 1	B & C Injuries: 16	Road Condition: Dry 82%	Time Period: PM Peak 34%
		Total Injuries: 18		Vehicle Type: Passenger 60%	

Predominant Crash Type	# of Crashes	% of All Crashes	AM Peak 6a to 11a	Midday 11a to 4p	PM Peak 4p to 7p	Congested Period 6a to 11p	Dry	Wet	Ice Snow Slush
Rear end	162	56%	36%	31%	24%	98%	86%	10%	1%
Sideswipe same direction	95	33%	24%	24%	39%	98%	78%	21%	1%
Fixed object	20	7%	15%	10%	15%	60%	60%	15%	25%

LEGEND

- MAINLINE LANE
- RAMP, SURFACE STREETS
- METERED RAMP
- ONE-WAY
- ⋯ RAILROAD
- M.P. I-290 MILE POST ■

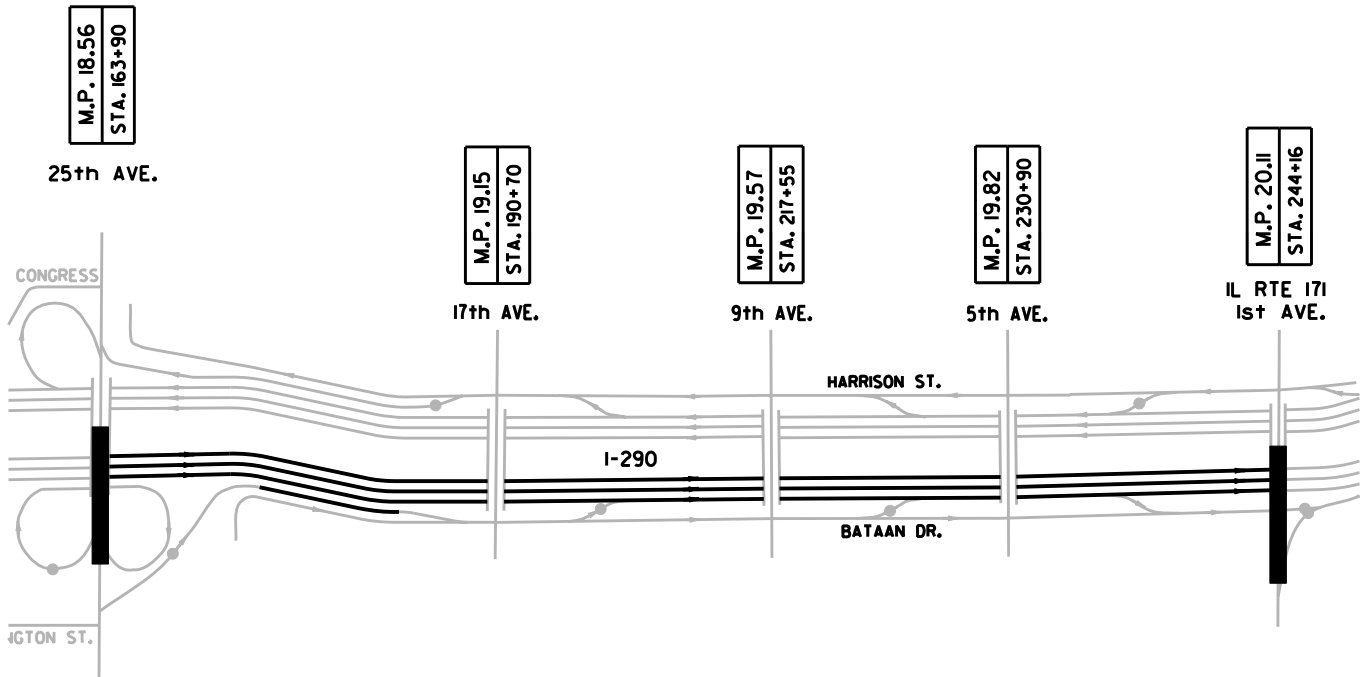


CRASHES BY SEGMENT

MAINLINE SEGMENT EB4

25th Avenue to 1st Avenue

Length = 1.55 miles



EB4		1.55	25th Avenue to 1st Avenue		
Eastbound		Miles			
RANK (EB)	2 of 9	Statistics		Predominant Crash Factors	
		Total Crashes: 510		Crash Type: Rear end 78%	
RATE	329 Crashes/mile	Fatalities: 0		Weather Conditions: Clear 87%	
		A Injuries: 7		Road Condition: Dry 82%	
		B & C Injuries: 34		Time Period: PM Peak 31%	
		Total Injuries: 41		Vehicle Type: Passenger 66%	

Predominant Crash Type	# of Crashes	% of All Crashes	AM Peak	Midday	PM Peak	Congested Period	Dry	Wet	Ice Snow Slush
			6a to 11a	11a to 4p	4p to 7p	6a to 11p			
Rear end	397	78%	29%	33%	25%	98%	82%	15%	1%
Sideswipe same direction	76	15%	33%	25%	11%	88%	83%	14%	1%
Fixed object	27	5%	11%	19%	0%	56%	74%	4%	22%

LEGEND

- MAINLINE LANE
- RAMP, SURFACE STREETS
- METERED RAMP
- ONE-WAY
- ▬ RAILROAD
- ▭ M.P. I-290 MILE POST



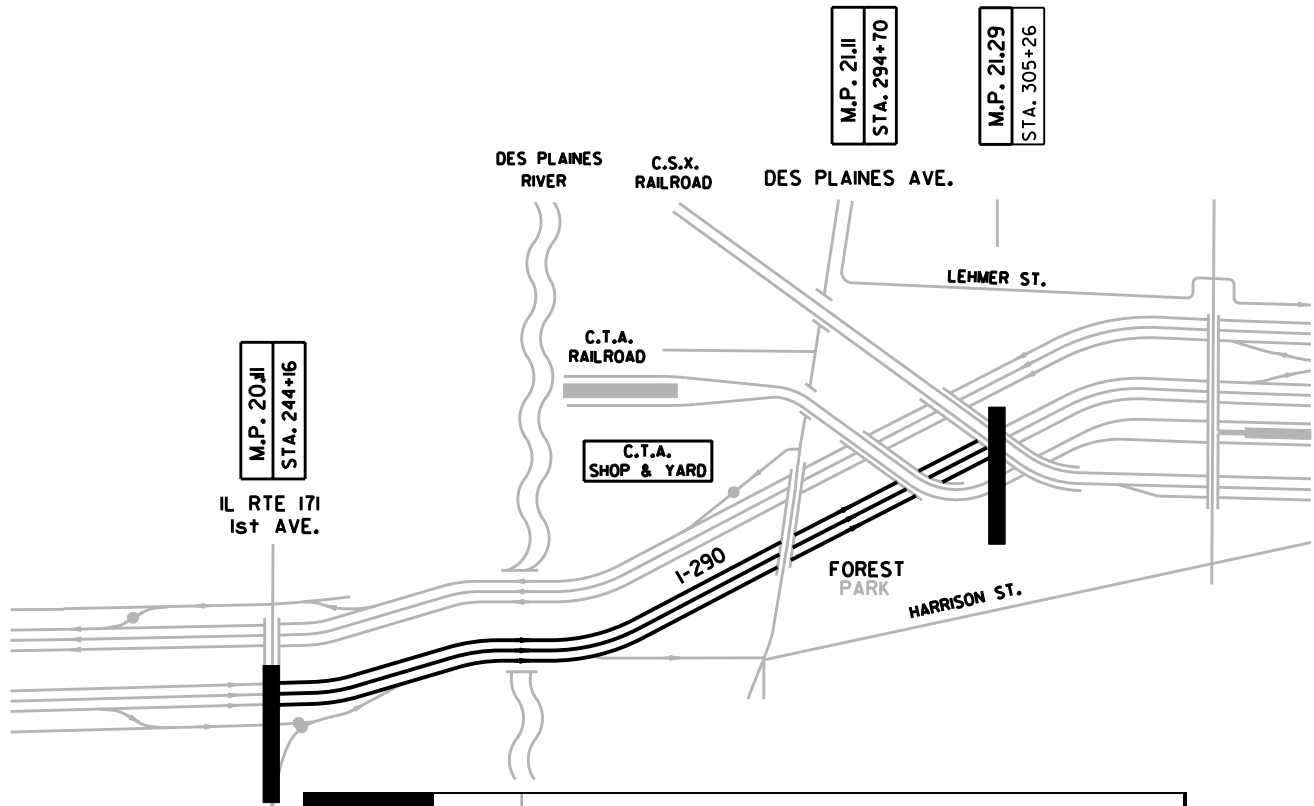
NOT TO SCALE

CRASHES BY SEGMENT

MAINLINE SEGMENT EB5

1st Avenue to C.S.X. Railroad Overpass

Length = 1.18 miles



EB5		1.18	1st Avenue to CSX RR Overpass			
Eastbound		Miles				
RANK (EB)	4 of 9	Statistics		Predominant Crash Factors		
		Total Crashes:	305	Crash Type:	Rear end	73%
RATE	258 Crashes/mile	Fatalities:	0	Weather Conditions:	Clear	88%
		A Injuries:	2	Road Condition:	Dry	85%
		B & C Injuries:	26	Time Period:	AM Peak	29%
		Total Injuries:	28	Vehicle Type:	Passenger	72%

Predominant Crash Type	# of Crashes	% of All Crashes	AM Peak 6a to 11a	Midday 11a to 4p	PM Peak 4p to 7p	Congested Period 6a to 11p	Dry	Wet	Ice Snow Slush
Rear end	222	73%	33%	24%	22%	94%	85%	11%	1%
Sideswipe same direction	47	15%	28%	21%	23%	83%	89%	6%	4%
Fixed object	29	10%	7%	7%	7%	48%	69%	28%	0%

LEGEND

- MAINLINE LANE
- RAMP, SURFACE STREETS
- METERED RAMP
- ONE-WAY
- ⋯ RAILROAD
- M.P. I-290 MILE POST ■

CRASHES BY SEGMENT

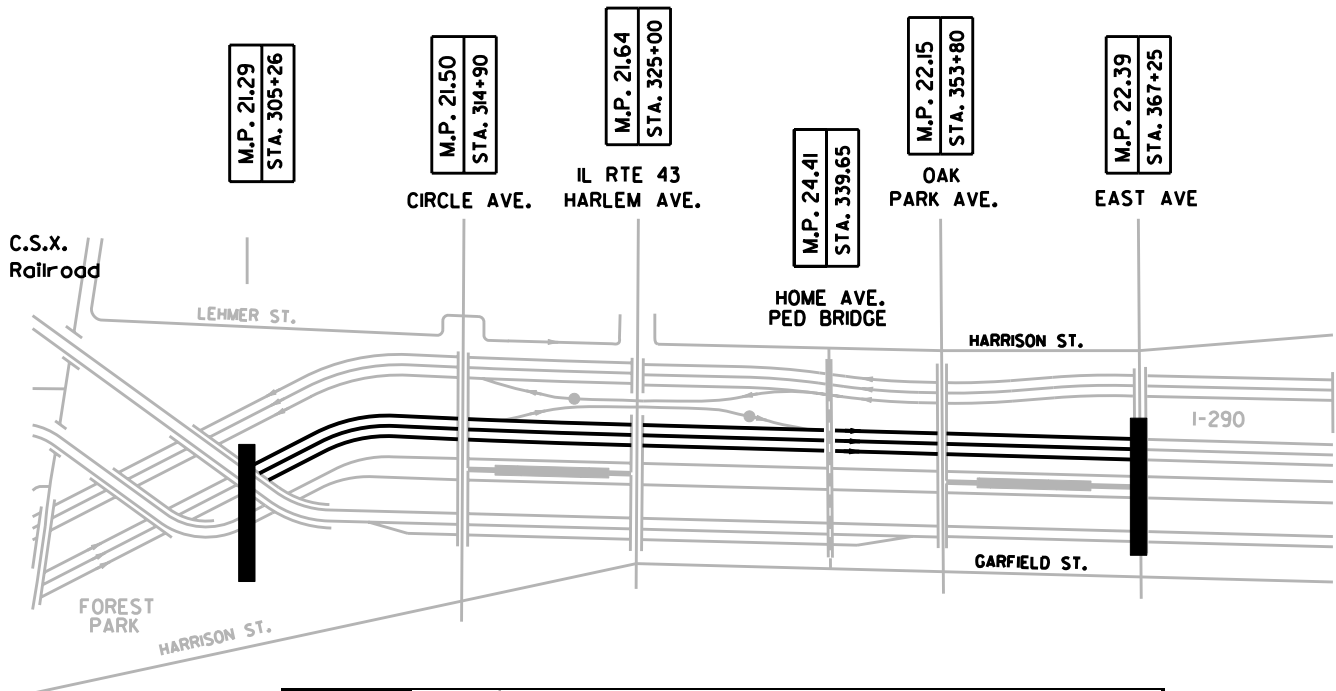
MAINLINE SEGMENT EB6

C.S.X. Railroad Overpass to East Avenue

Length = 1.10 miles



NOT TO SCALE



EB6		1.10	CSX RR Overpass to East Ave		
Eastbound		Miles			
RANK (EB)	5 of 9	Statistics		Predominant Crash Factors	
		Total Crashes: 240	Crash Type: Rear end 70%		
RATE	218 Crashes/mile	Fatalities: 0	Weather Conditions: Clear 84%		
		A Injuries: 5	Road Condition: Dry 81%		
		B & C Injuries: 19	Time Period: AM Peak 31%		
		Total Injuries: 24	Vehicle Type: Passenger 72%		

Predominant Crash Type	# of Crashes	% of All Crashes	AM Peak 6a to 11a	Midday 11a to 4p	PM Peak 4p to 7p	Congested Period 6a to 11p	Dry	Wet	Ice Snow Slush
Rear end	168	70%	35%	26%	17%	95%	82%	14%	4%
Sideswipe same direction	48	20%	25%	23%	6%	65%	83%	10%	4%
Fixed object	22	9%	9%	14%	0%	36%	64%	27%	5%

LEGEND

- MAINLINE LANE
- RAMP, SURFACE STREETS
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- ▭ M.P. I-290 MILE POST ■

CRASHES BY SEGMENT

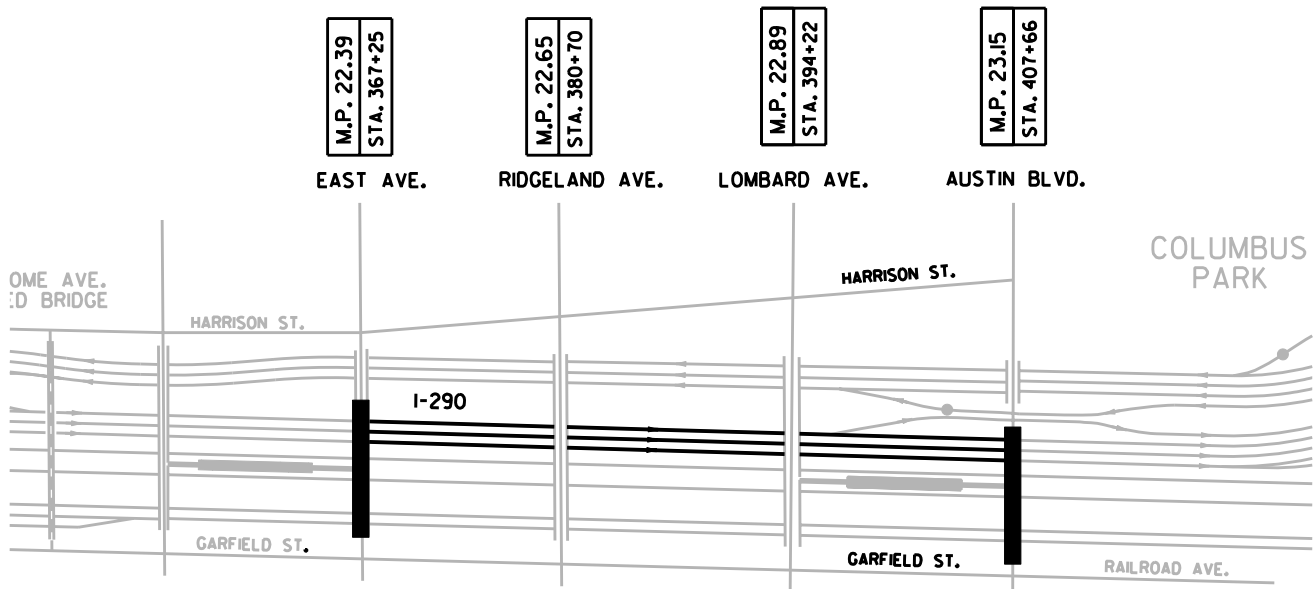
MAINLINE SEGMENT EB7

East Avenue to Austin Boulevard

Length = 0.76 miles



NOT TO SCALE



EB7		0.76	East Ave to Austin Boulevard		
Eastbound		Miles			
RANK (EB)	9	Statistics		Predominant Crash Factors	
		of 9		Crash Type: Rear end 46%	
RATE	103	Total Crashes: 78		Weather Conditions: Clear 83%	
		Fatalities: 1		Road Condition: Dry 79%	
		A Injuries: 2		Time Period: AM Peak 33%	
		B & C Injuries: 6		Vehicle Type: Passenger 69%	
Crashes/mile		Total Injuries: 9			

Predominant Crash Type	# of Crashes	% of All Crashes	AM Peak 6a to 11a	Midday 11a to 4p	PM Peak 4p to 7p	Congested Period 6a to 11p	Dry	Wet	Ice Snow Slush
Rear end	36	46%	47%	11%	6%	78%	86%	6%	6%
Sideswipe same direction	18	23%	11%	28%	0%	56%	89%	6%	6%
Fixed object	14	18%	43%	7%	0%	50%	57%	14%	29%

LEGEND

- MAINLINE LANE
- RAMP, SURFACE STREETS
- METERED RAMP
- ONE-WAY
- ⋯ RAILROAD
- M.P. I-290 MILE POST ■



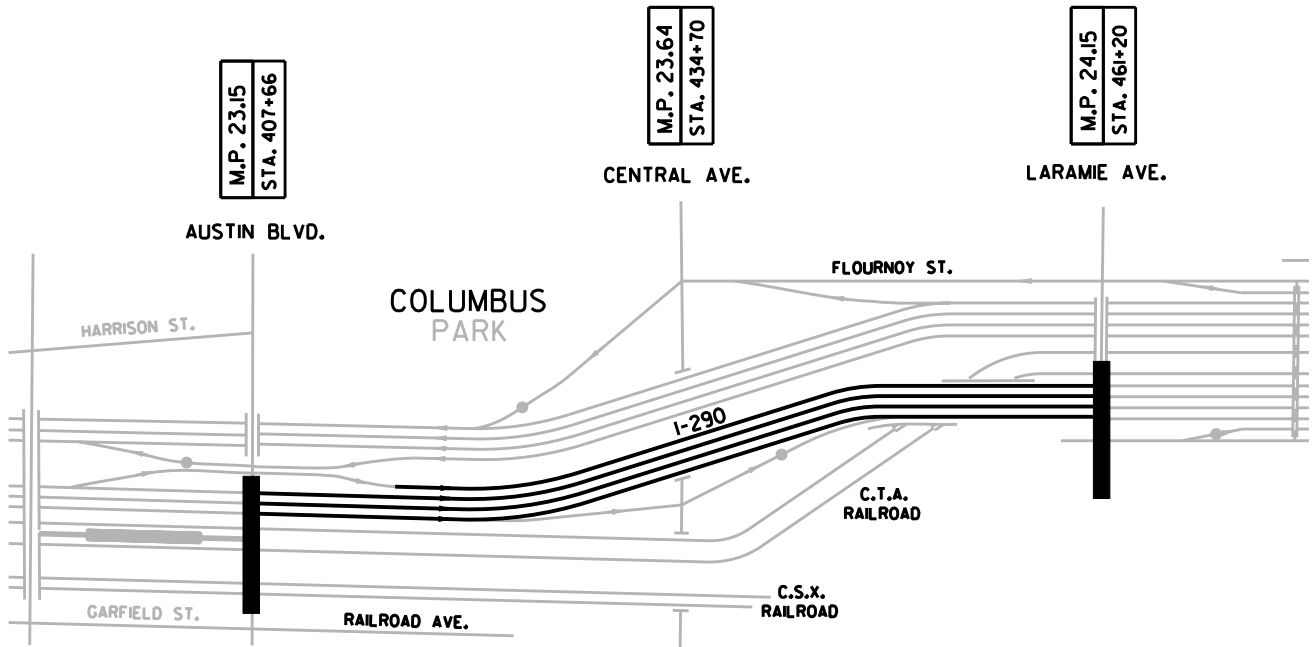
NOT TO SCALE

CRASHES BY SEGMENT

MAINLINE SEGMENT EB8

Austin Boulevard to Laramie Avenue

Length = 1.00 miles



EB8		1.00	Austin Avenue to Laramie Avenue		
Eastbound		Miles			
RANK (EB)	6 of 9	Statistics		Predominant Crash Factors	
		Total Crashes: 152	Crash Type: swipe same direction 38%		
RATE	152 Crashes/mile	Fatalities: 0	Weather Conditions: Clear 76%		
		A Injuries: 1	Road Condition: Dry 72%		
		B & C Injuries: 11	Time Period: AM Peak 26%		
		Total Injuries: 12	Vehicle Type: Passenger 65%		

Predominant Crash Type	# of Crashes	% of All Crashes	AM Peak 6a to 11a	Midday 11a to 4p	PM Peak 4p to 7p	Congested Period 6a to 11p	Dry	Wet	Ice Snow Slush
Sideswipe same direction	57	38%	23%	33%	7%	81%	70%	16%	12%
Rear End	55	36%	40%	15%	15%	89%	76%	7%	15%
Fixed object	29	19%	10%	7%	10%	41%	66%	17%	17%

LEGEND

- MAINLINE LANE
- RAMP, SURFACE STREETS
- METERED RAMP
- ONE-WAY
- ▬ RAILROAD
- ▭ M.P. I-290 MILE POST

CRASHES BY SEGMENT

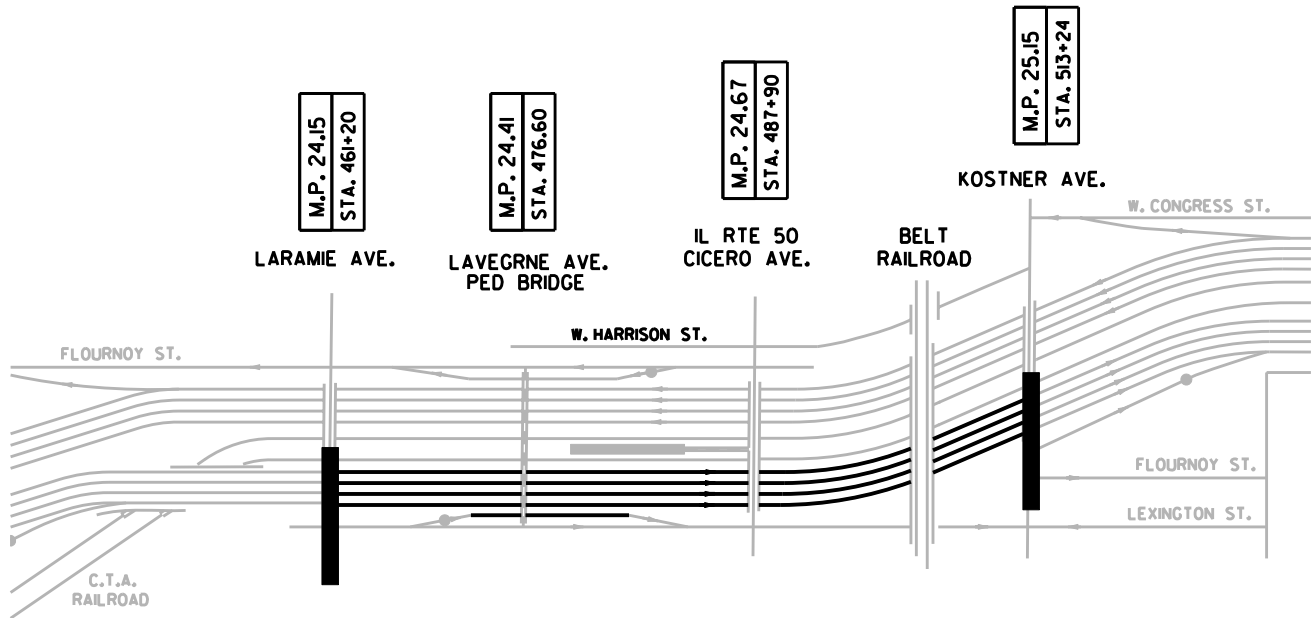
MAINLINE SEGMENT EB9

Laramie Avenue to Kostner Avenue

Length = 1.00 miles



NOT TO SCALE



EB9		1.00	Laramie Avenue to Kostner Avenue			
Eastbound		Miles				
RANK (EB)	7 of 9	Statistics		Predominant Crash Factors		
		Total Crashes:	132	Crash Type:	Rear end	52%
RATE	132 Crashes/mile	Fatalities:	0	Weather Conditions:	Clear	77%
		A Injuries:	4	Road Condition:	Dry	73%
		B & C Injuries:	9	Time Period:	AM Peak	31%
		Total Injuries:	13	Vehicle Type:	Passenger	66%

Predominant Crash Type	# of Crashes	% of All Crashes	AM Peak 6a to 11a	Midday 11a to 4p	PM Peak 4p to 7p	Congested Period 6a to 11p	Dry	Wet	Ice Snow Slush
Rear end	69	52%	42%	25%	12%	90%	78%	19%	1%
Sideswipe same direction	31	23%	26%	13%	16%	58%	68%	23%	10%
Fixed object	24	18%	4%	21%	17%	50%	63%	8%	21%

LEGEND

- MAINLINE LANE
- RAMP, SURFACE STREETS
- METERED RAMP
- ONE-WAY
- ⋯ RAILROAD
- M.P. I-290 MILE POST ■

CRASHES BY SEGMENT

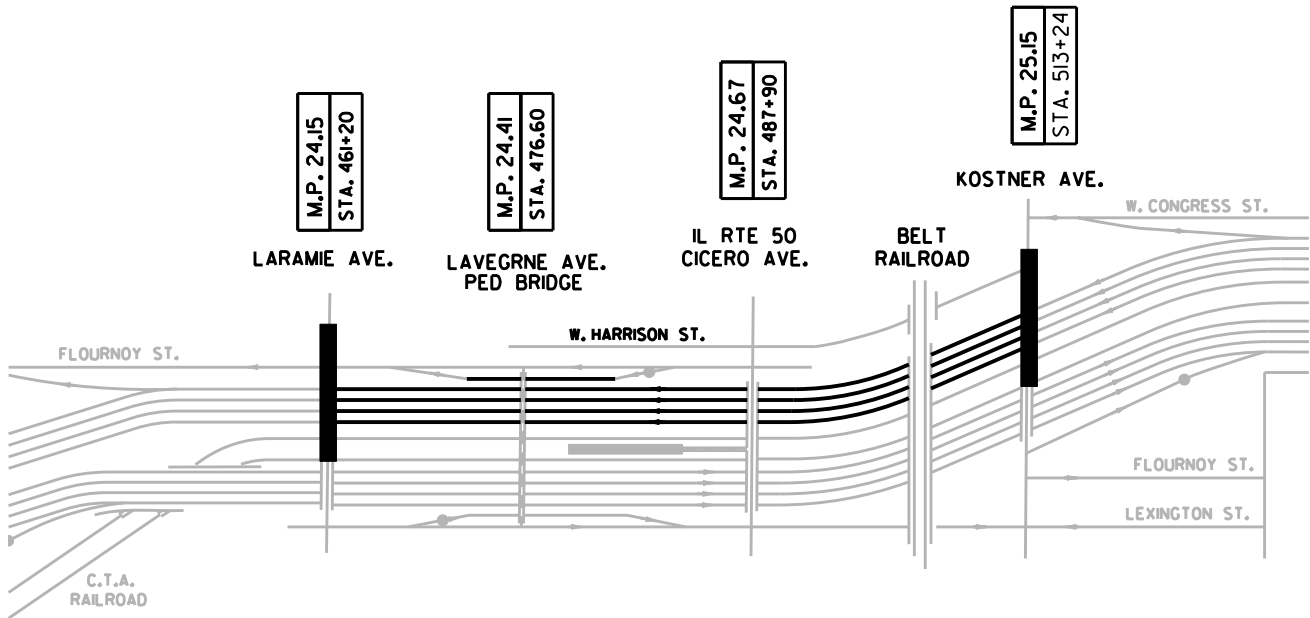
MAINLINE SEGMENT WB1

Kostner Avenue to Laramie Avenue

Length = 1.00 miles



NOT TO SCALE



WB1		1.00	Kostner Avenue to Laramie Avenue		
Westbound		Miles			
RANK (WB)	4 of 9	Statistics		Predominant Crash Factors	
		Total Crashes: 298	Crash Type: Rear end 72%		
RATE	298 Crashes/mile	Fatalities: 0	Weather Conditions: Clear 86%		
		A Injuries: 3	Road Condition: Dry 84%		
		B & C Injuries: 17	Time Period: Midday 37%		
		Total Injuries: 20	Vehicle Type: Passenger 67%		

Predominant Crash type	# of Crashes	% of All Crashes	AM Peak 6a to 11a	Midday 11a to 4p	PM Peak 4p to 7p	Congested Period 6a to 11p	Dry	Wet	Ice Snow Slush
Rear end	216	72%	20%	41%	33%	97%	88%	9%	2%
Sideswipe same direction	53	18%	17%	34%	9%	74%	77%	19%	2%
Fixed object	26	9%	12%	8%	4%	42%	73%	19%	8%

LEGEND

- MAINLINE LANE
- RAMP, SURFACE STREETS
- METERED RAMP
- ONE-WAY
- ⋯ RAILROAD
- M.P. I-290 MILE POST ■



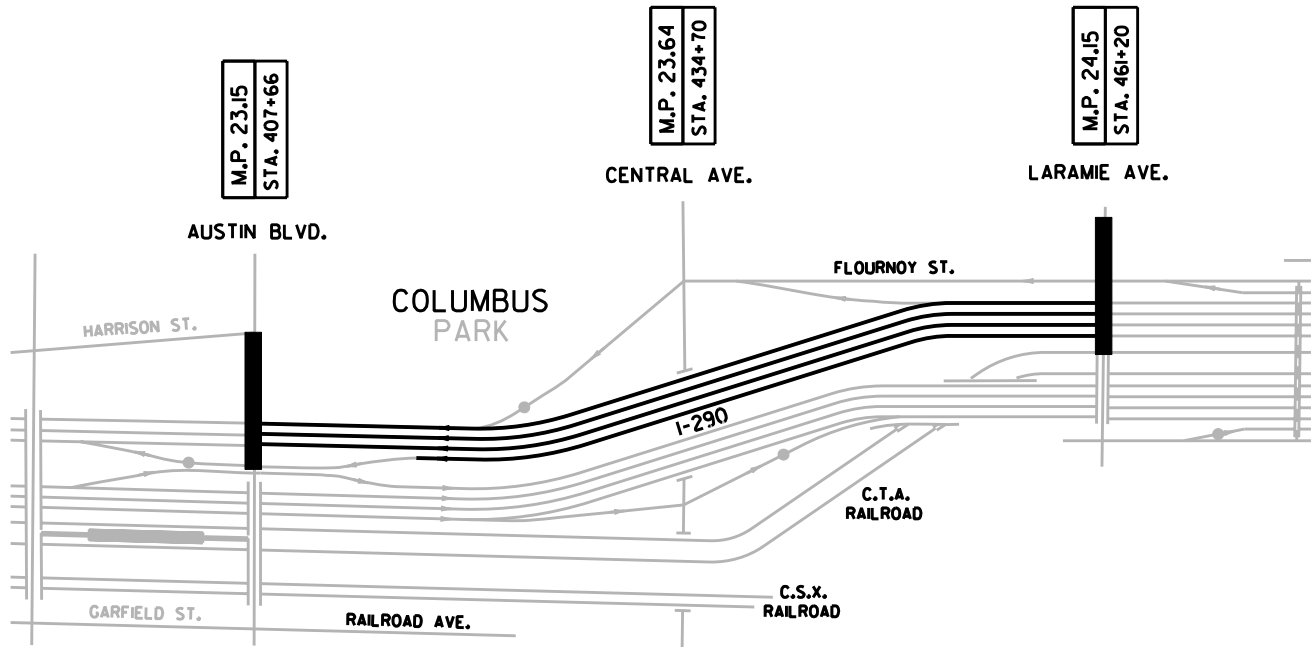
NOT TO SCALE

CRASHES BY SEGMENT

MAINLINE SEGMENT WB2

Laramie Avenue to Austin Boulevard

Length = 1.00 miles



WB2		1.00	Laramie Avenue to Austin Avenue		
Westbound		Miles			
RANK (WB)	1 of 9	Statistics		Predominant Crash Factors	
		Total Crashes: 537	Crash Type: Rear end 77%		
RATE	537 Crashes/mile	Fatalities: 1	Weather Conditions: Clear 87%		
		A Injuries: 6	Road Condition: Dry 84%		
		B & C Injuries: 31	Time Period: PM Peak 32%		
		Total Injuries: 38	Vehicle Type: Passenger 70%		

Predominant Crash type	# of Crashes	% of All Crashes	AM Peak 6a to 11a	Midday 11a to 4p	PM Peak 4p to 7p	Congested Period 6a to 11p	Dry	Wet	Ice Snow Slush
Rear end	411	77%	20%	32%	27%	93%	86%	9%	3%
Sideswipe same direction	84	16%	20%	18%	24%	77%	85%	12%	2%
Fixed object	29	5%	14%	10%	0%	41%	52%	28%	21%

LEGEND

- MAINLINE LANE
- RAMP, SURFACE STREETS
- METERED RAMP
- ONE-WAY
- ⋯ RAILROAD
- M.P. I-290 MILE POST

CRASHES BY SEGMENT

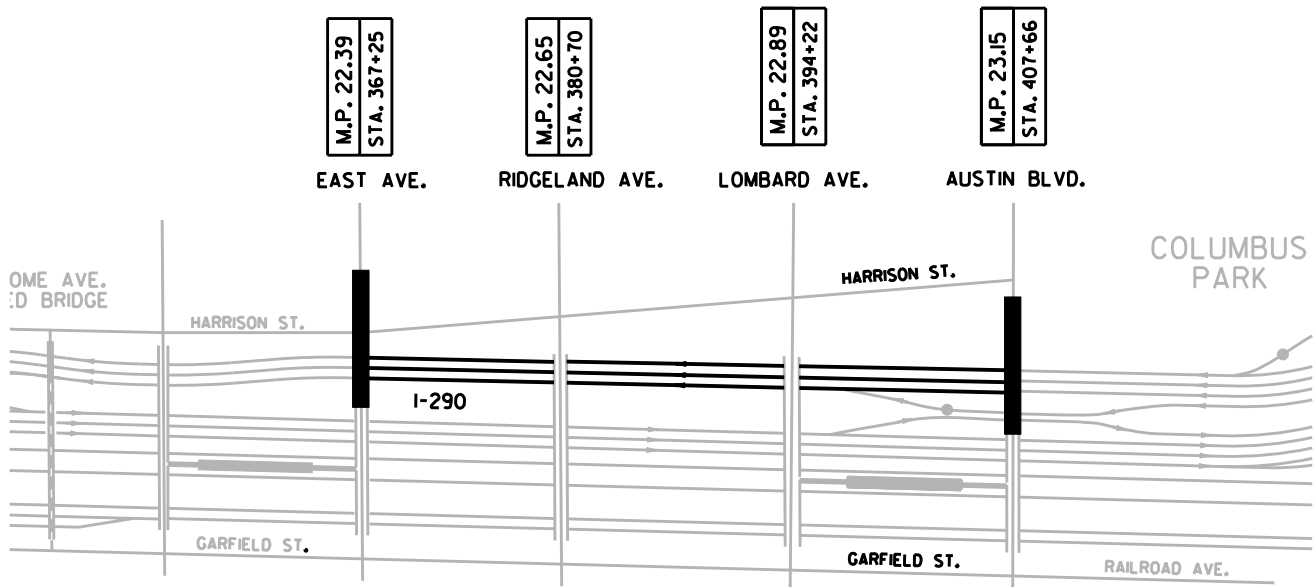
MAINLINE SEGMENT WB3

Austin Boulevard to East Avenue

Length = 0.76 miles



NOT TO SCALE



WB3		0.76	Austin Boulevard to East Ave		
Westbound		Miles			
RANK (WB)	3	Statistics		Predominant Crash Factors	
		of 9			
RATE	313	Total Crashes: 238		Crash Type: Rear end 80%	
		Fatalities: 2		Weather Conditions: Clear 91%	
		A Injuries: 6		Road Condition: Dry 88%	
		B & C Injuries: 22		Time Period: Midday 37%	
Crashes/mile		Total Injuries: 30		Vehicle Type: Passenger 72%	

Predominant Crash type	# of Crashes	% of All Crashes	AM Peak	Midday	PM Peak	Congested Period	Dry	Wet	Ice Snow Slush
			6a to 11a	11a to 4p	4p to 7p	6a to 11p			
Rear end	190	80%	24%	41%	21%	95%	89%	7%	3%
Sideswipe same direction	25	11%	8%	36%	12%	76%	96%	4%	0%
Fixed object	13	5%	23%	23%	0%	62%	62%	15%	23%

LEGEND

- MAINLINE LANE
- RAMP, SURFACE STREETS
- METERED RAMP
- ONE-WAY
- ⋯ RAILROAD
- M.P. I-290 MILE POST ■

CRASHES BY SEGMENT

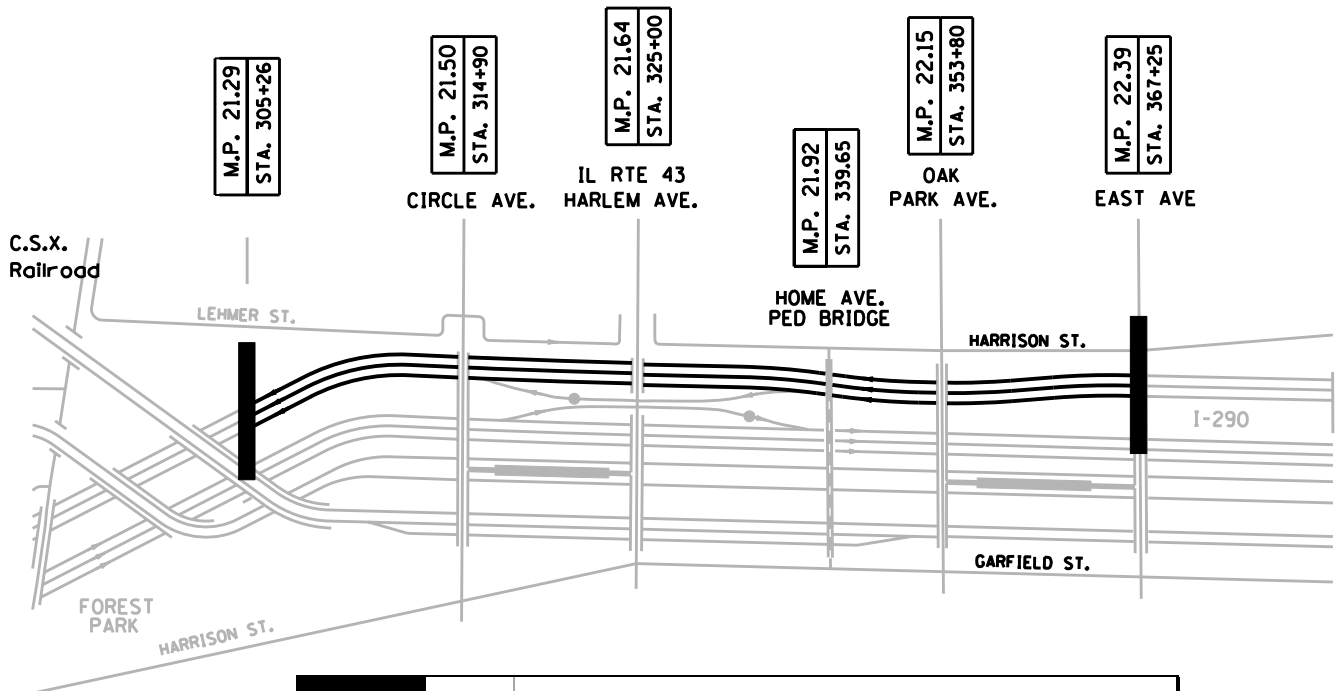
MAINLINE SEGMENT WB4

East Avenue to C.S.X. Railroad Overpass

Length = 1.10 miles



NOT TO SCALE



WB4	1.10	East Ave to CSX RR Overpass	
Westbound	Miles		
RANK (WB)	2	Statistics	
	of 9	Total Crashes: 387	Predominant Crash Factors
RATE	352	Fatalities: 1	Crash Type: Rear end 70%
Crashes/mile		A Injuries: 6	Weather Conditions: Clear 86%
		B & C Injuries: 32	Road Condition: Dry 82%
		Total Injuries: 39	Time Period: PM Peak 31%
			Vehicle Type: Passenger 68%

Predominant Crash type	# of Crashes	% of All Crashes	AM Peak	Midday	PM Peak	Congested Period	Dry	Wet	Ice Snow Slush
			6a to 11a	11a to 4p	4p to 7p	6a to 11p			
Rear end	269	70%	29%	30%	28%	95%	84%	10%	3%
Sideswipe same direction	70	18%	16%	29%	26%	86%	80%	13%	6%
Fixed object	33	9%	9%	18%	6%	45%	70%	15%	15%

LEGEND

- MAINLINE LANE
- RAMP, SURFACE STREETS
- METERED RAMP
- ONE-WAY
- ⋯ RAILROAD
- M.P. I-290 MILE POST ■



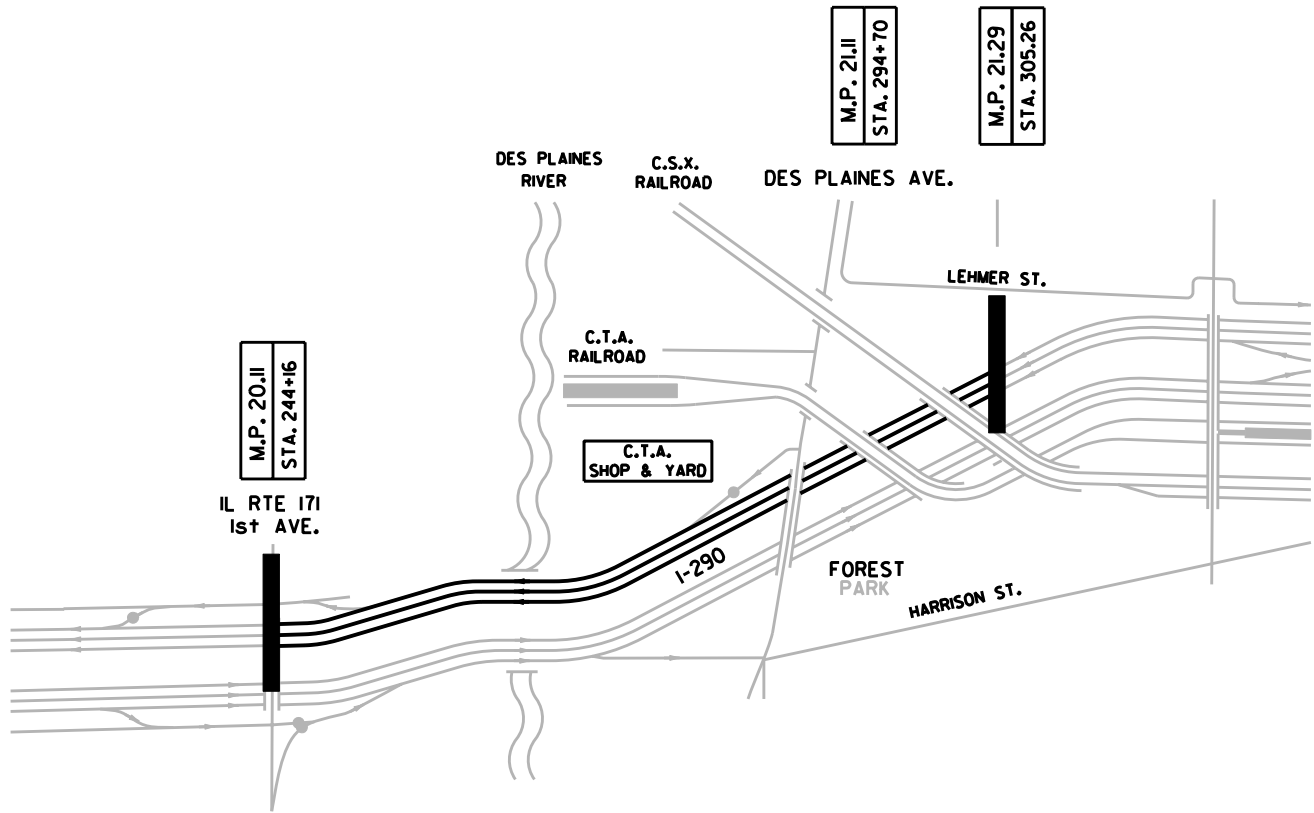
NOT TO SCALE

CRASHES BY SEGMENT

MAINLINE SEGMENT WB5

C.S.X. Railroad Overpass to 1st Avenue

Length = 1.18 miles



WB5		1.18	CSX RR Overpass to 1st Avenue			
Westbound		Miles				
RANK (WB)	5 of 9	Statistics		Predominant Crash Factors		
		Total Crashes:	258	Crash Type:	Rear end	60%
RATE	219 Crashes/mile	Fatalities:	1	Weather Conditions:	Clear	78%
		A Injuries:	2	Road Condition:	Dry	75%
		B & C Injuries:	16	Time Period:	AM Peak	28%
		Total Injuries:	19	Vehicle Type:	Passenger	66%

Predominant Crash type	# of Crashes	% of All Crashes	AM Peak 6a to 11a	Midday 11a to 4p	PM Peak 4p to 7p	Congested Period 6a to 11p	Dry	Wet	Ice Snow Slush
Rear end	154	60%	35%	31%	19%	91%	84%	14%	1%
Sideswipe same direction	50	19%	20%	22%	14%	68%	76%	24%	0%
Fixed object	39	15%	15%	3%	0%	28%	41%	46%	10%

LEGEND

- MAINLINE LANE
- RAMP, SURFACE STREETS
- METERED RAMP
- ONE-WAY
- ▬ RAILROAD
- M.P. I-290 MILE POST ■

CRASHES BY SEGMENT

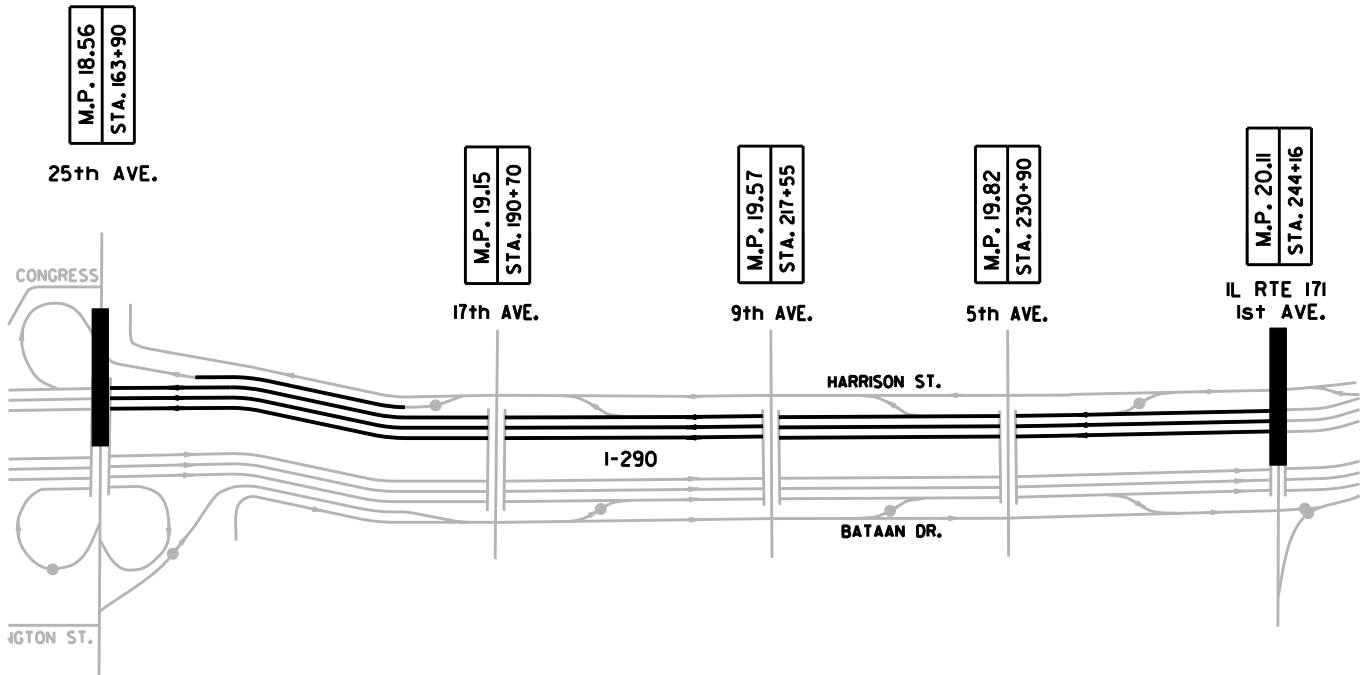
MAINLINE SEGMENT WB6

1st Avenue to 25th Avenue

Length = 1.55 miles



NOT TO SCALE



WB6		1.55	1st Avenue to 25th Avenue		
Westbound		Miles			
RANK (WB)	6 of 9	Statistics		Predominant Crash Factors	
		Total Crashes: 294	Crash Type: Rear end 63%		
RATE	190 Crashes/mile	Fatalities: 1	Weather Conditions: Clear 87%		
		A Injuries: 3	Road Condition: Dry 84%		
		B & C Injuries: 32	Time Period: AM Peak 32%		
		Total Injuries: 36	Vehicle Type: Passenger 69%		

Predominant Crash type	# of Crashes	% of All Crashes	AM Peak 6a to 11a	Midday 11a to 4p	PM Peak 4p to 7p	Congested Period 6a to 11p	Dry	Wet	Ice Snow Slush
Rear end	185	63%	38%	25%	17%	87%	82%	12%	4%
Sideswipe same direction	58	20%	21%	33%	7%	72%	86%	5%	5%
Fixed object	36	12%	19%	19%	6%	64%	81%	11%	8%

LEGEND

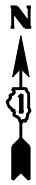
- MAINLINE LANE
- RAMP, SURFACE STREETS
- METERED RAMP
- ONE-WAY
- ⋯ RAILROAD
- M.P. I-290 MILE POST

CRASHES BY SEGMENT

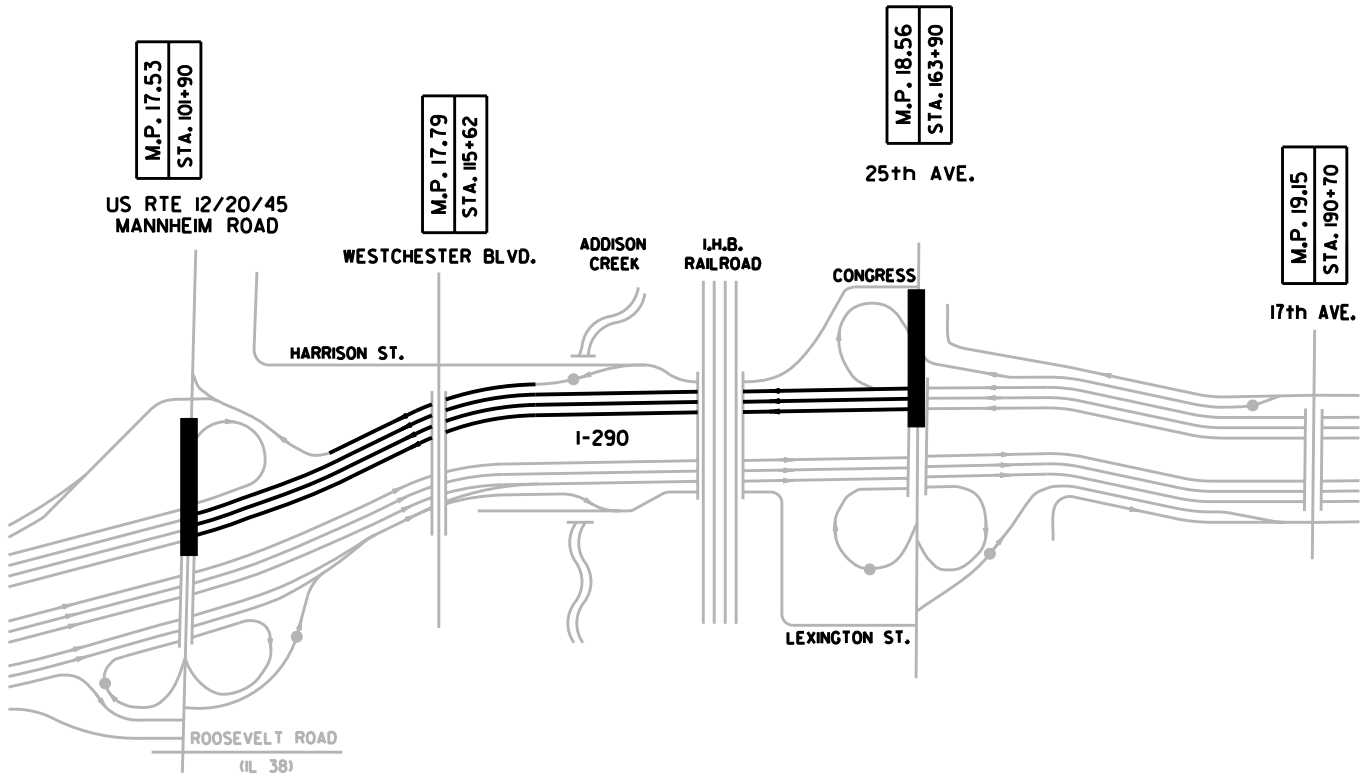
MAINLINE SEGMENT WB7

25th Avenue to Mannheim Road

Length = 1.03 miles



NOT TO SCALE



WB7		1.03	25th Avenue to Mannheim Road		
Westbound		Miles			
RANK (WB)	9 of 9	Statistics		Predominant Crash Factors	
		Total Crashes: 98	Crash Type: Rear end 36%		
RATE	95 Crashes/mile	Fatalities: 0	Weather Conditions: Clear 79%		
		A Injuries: 3	Road Condition: Dry 74%		
		B & C Injuries: 7	Time Period: AM Peak 23%		
		Total Injuries: 10	Vehicle Type: Passenger 69%		

Predominant Crash type	# of Crashes	% of All Crashes	AM Peak 6a to 11a	Midday 11a to 4p	PM Peak 4p to 7p	Congested Period 6a to 11p	Dry	Wet	Ice Snow Slush
Rear end	35	36%	29%	26%	17%	80%	83%	9%	9%
Sideswipe same direction	32	33%	25%	25%	22%	84%	69%	16%	13%
Fixed object	19	19%	11%	0%	0%	26%	68%	21%	11%

LEGEND

- MAINLINE LANE
- RAMP, SURFACE STREETS
- METERED RAMP
- ONE-WAY
- ⋯ RAILROAD
- M.P. I-290 MILE POST ■

CRASHES BY SEGMENT

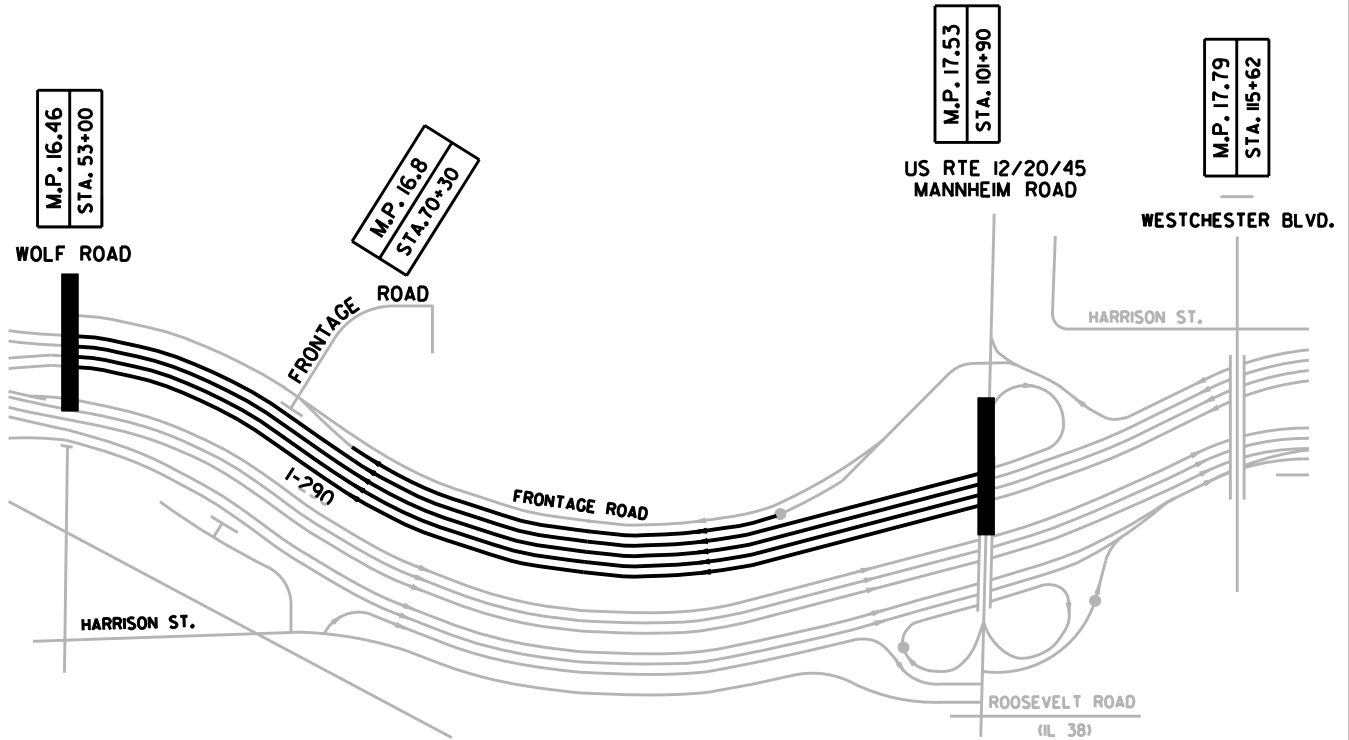
MAINLINE SEGMENT WB8

Mannheim Road to Wolf Road

Length = 1.07 miles



NOT TO SCALE



WB8		1.07	Mannheim Road to Wolf Road		
Westbound		Miles			
RANK (WB)	7	Statistics		Predominant Crash Factors	
		of 9		Crash Type: swipe same direction 41%	
RATE	113	Total Crashes: 121		Weather Conditions: Clear 77%	
		Fatalities: 0		Road Condition: Dry 69%	
		A Injuries: 2		Time Period: AM Peak 28%	
		B & C Injuries: 8		Vehicle Type: Passenger 67%	
Crashes/mile		Total Injuries: 10			

Predominant Crash type	# of Crashes	% of All Crashes	AM Peak 6a to 11a	Midday 11a to 4p	PM Peak 4p to 7p	Congested Period 6a to 11p	Dry	Wet	Ice Snow Slush
Rear end	41	34%	41%	17%	20%	90%	73%	17%	7%
Sideswipe same direction	50	41%	20%	24%	12%	70%	70%	22%	6%
Fixed object	18	15%	22%	17%	6%	61%	78%	6%	17%

LEGEND

- MAINLINE LANE
- RAMP, SURFACE STREETS
- METERED RAMP
- ONE-WAY
- ⋯ RAILROAD
- M.P. I-290 MILE POST

CRASHES BY SEGMENT

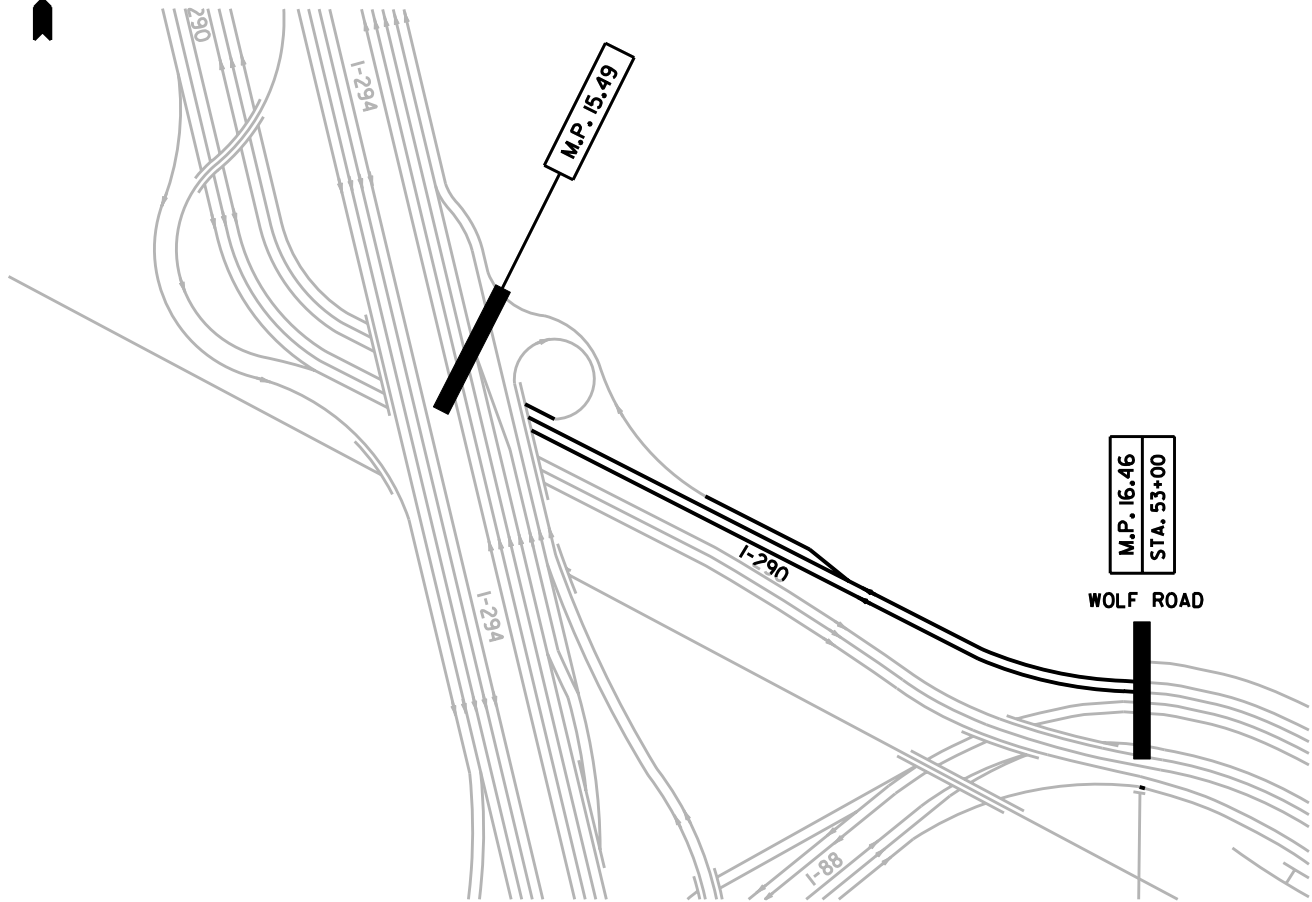
MAINLINE SEGMENT WB9

Wolf Road to West of Wolf Road

Length = 0.96 miles



NOT TO SCALE



WB9		0.96	Wolf Road to West of Wolf Road		
Westbound		Miles			
RANK (WB)	8	Statistics		Predominant Crash Factors	
		of 9			
RATE	113	Total Crashes: 108		Crash Type: Fixed object 34%	
		Fatalities: 1		Weather Conditions: Clear 71%	
		A Injuries: 9		Road Condition: Dry 66%	
		B & C Injuries: 13		Time Period: Early Morning 29%	
Crashes/mile		Total Injuries: 23		Vehicle Type: Passenger 65%	

Predominant Crash Type	# of Crashes	% of All Crashes	AM Peak 6a to 11a	Midday 11a to 4p	PM Peak 4p to 7p	Congested Period 6a to 11p	Dry	Wet	Ice Snow Slush
Rear end	32	30%	28%	13%	13%	75%	84%	9%	3%
Sideswipe same direction	32	30%	22%	13%	22%	78%	72%	13%	13%
Fixed object	37	34%	24%	14%	3%	54%	46%	30%	24%

LEGEND

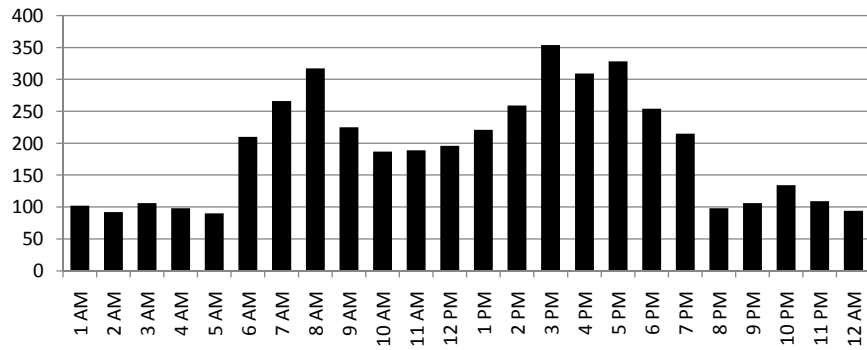
- MAINLINE LANE
- RAMP, SURFACE STREETS
- METERED RAMP
- ONE-WAY
- ⋯ RAILROAD
- M.P. I-290 MILE POST ■

Technical Memorandum

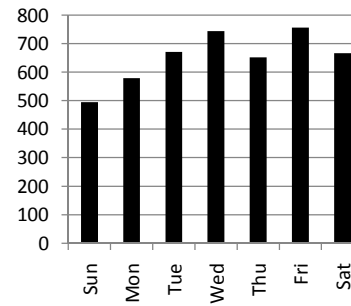
Appendix E

Mainline Segment Crash Summary Reports

Crashes by Time of Day



Crashes by Day of Week



I-290 EB & WB

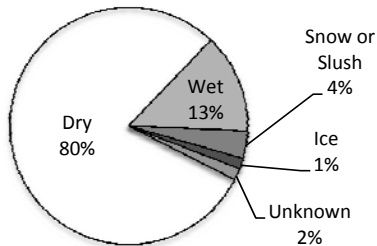
West of Wolf Road to Kostner Avenue

Milepost From	15.49	19.31 Miles
Milepost To	25.15	

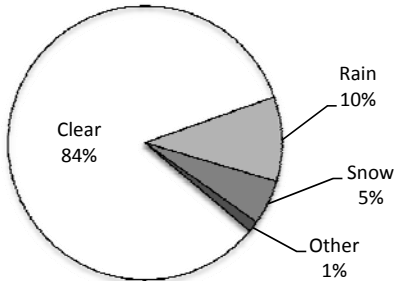
Total Crashes 4559

Crash Rate 236.1
crashes/mile

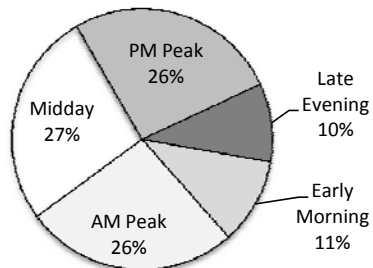
Road Condition



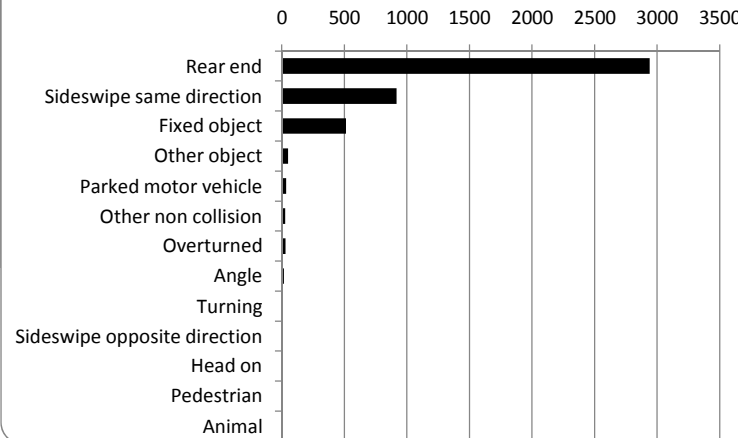
Weather Condition



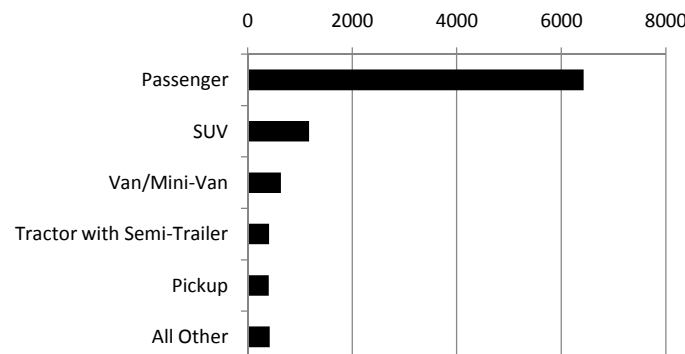
Time of Day



Number of Crashes by Crash Type



Number of Vehicles by Type



Injury Statistics	Fatal	9
	A Injury	68
	B & C Injury	333
	Total Injuries	410
Injury Rate		21.2 Injuries/mile

Predominant Crash Factors

Crash Type:	Rear end	64%
Weather Condition:	Clear	83%
Road Condition:	Dry	80%
Lighting Condition:	Daylight	68%
Time of Day:	Midday	27%
Vehicle Type:	Passenger	68%

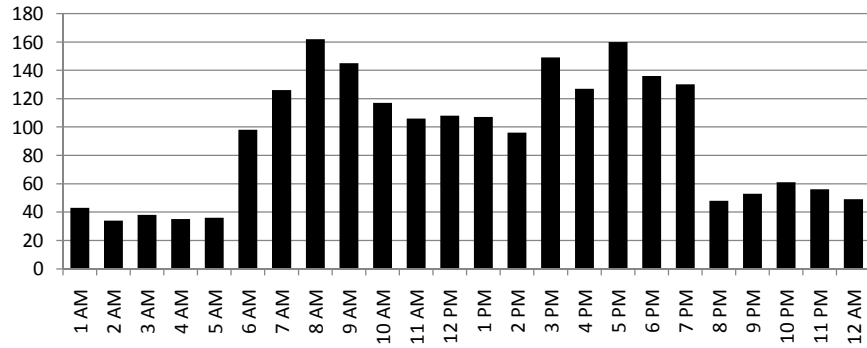


I-290 Preliminary Engineering and Environmental Study (Phase I)

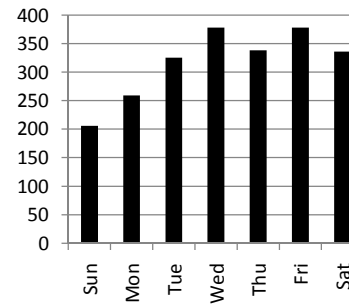
Three Year Crash Statistics

2006, 2007, 2008

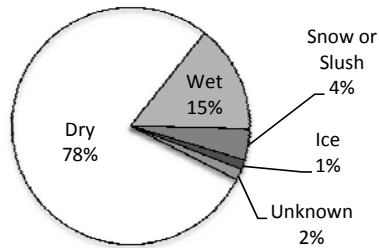
Crashes by Time of Day



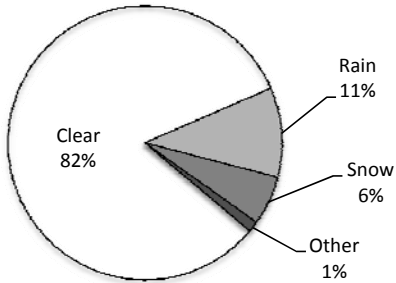
Crashes by Day of Week



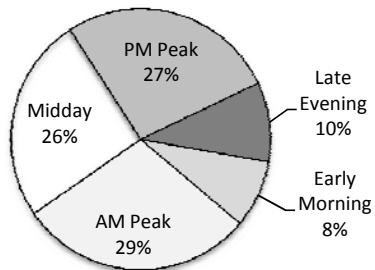
Road Condition



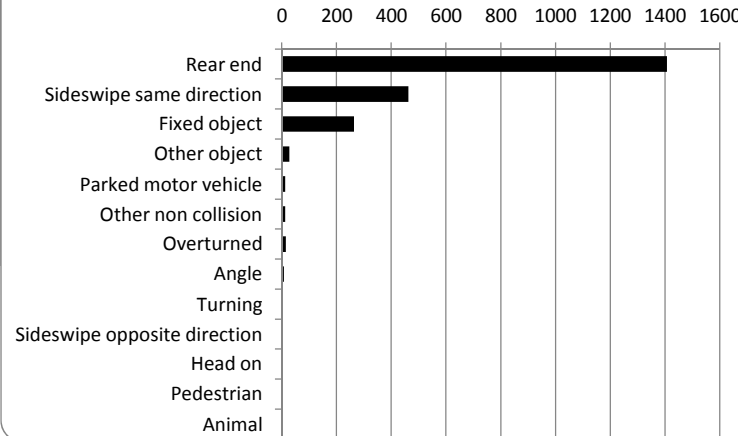
Weather Condition



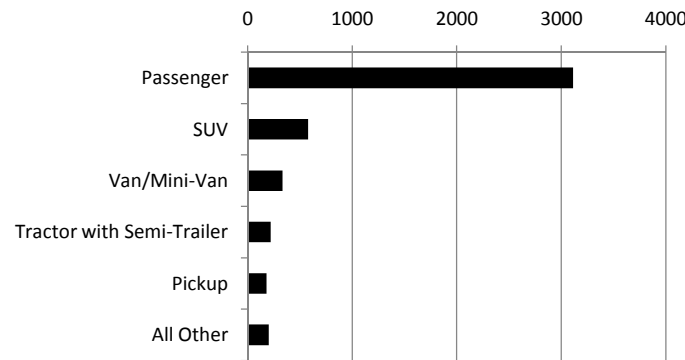
Time of Day



Number of Crashes by Crash Type



Number of Vehicles by Type



I-290 Eastbound

ALL

West of Wolf Road to Kostner Avenue

Eastbound

Milepost From
Milepost To

15.49
25.15

9.66 Miles

Total Crashes

2220

Crash Rate

229.8

crashes/mile

Injury Statistics

Fatal	2
A Injury	28
B & C Injury	155
Total Injuries	185
Injury Rate	19.2
	Injuries/mile

Predominant Crash Factors

Crash Type:	Rear end	63%
Weather Condition:	Clear	82%
Road Condition:	Dry	78%
Lighting Condition:	Daylight	69%
Time of Day:	AM Peak	29%
Vehicle Type:	Passenger	67%



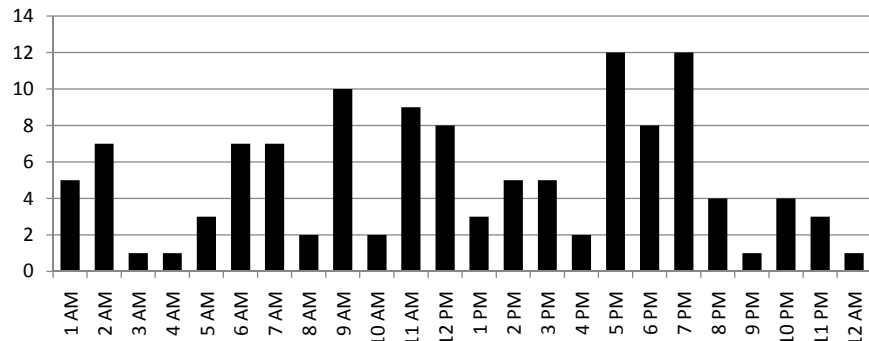
Illinois Department of Transportation

I-290 Preliminary Engineering and Environmental Study (Phase I)

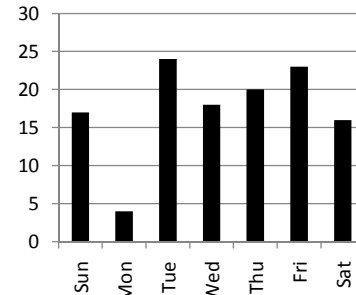
Three Year Crash Statistics

2006, 2007, 2008

Crashes by Time of Day



Crashes by Day of Week



Mainline Segment

EB1

West of Wolf Road to Wolf Road

Eastbound

Milepost From: 15.49
Milepost To: 16.46

0.97 Miles

Total Crashes

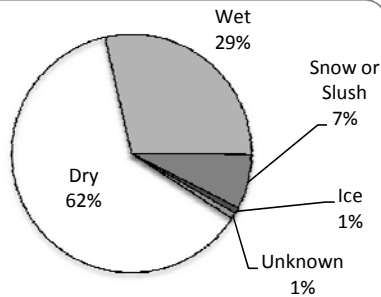
122

Crash Rate

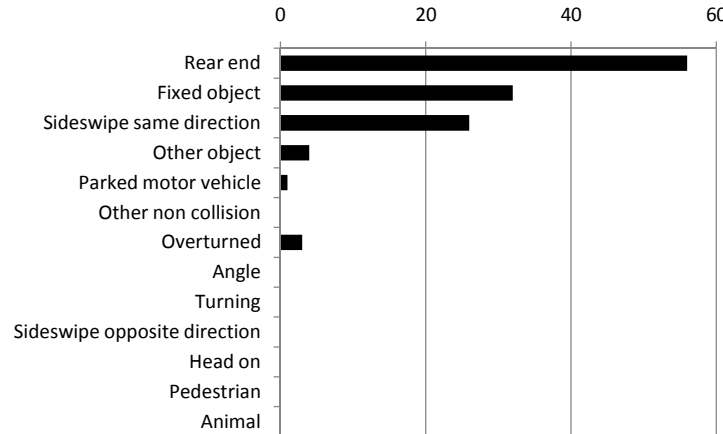
125.8

crashes/mile

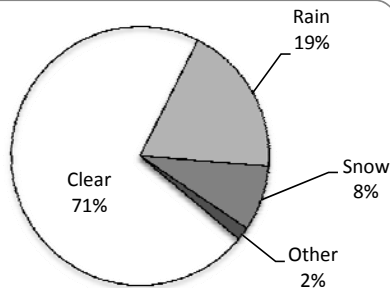
Road Condition



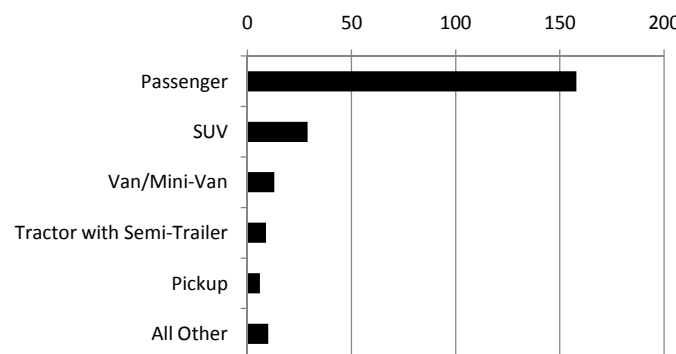
Number of Crashes by Crash Type



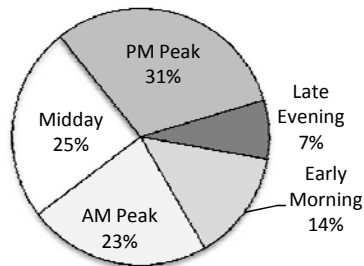
Weather Condition



Number of Vehicles by Type



Time of Day



Injury Statistics	Fatal	0
	A Injury	1
	B & C Injury	13
	Total Injuries	14
Injury Rate		14.4
		injuries/mile

Predominant Crash Factors

Crash Type:	Rear end	46%
Weather Condition:	Clear	71%
Road Condition:	Dry	62%
Lighting Condition:	Daylight	60%
Time of Day:	PM Peak	31%
Vehicle Type:	Passenger	70%

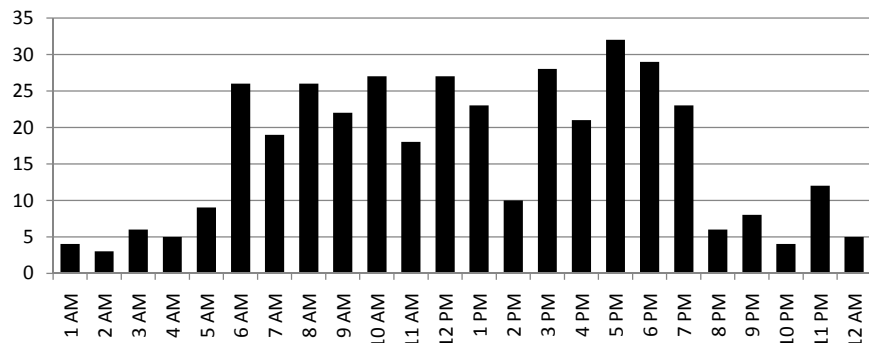


I-290 Preliminary Engineering and Environmental Study (Phase I)

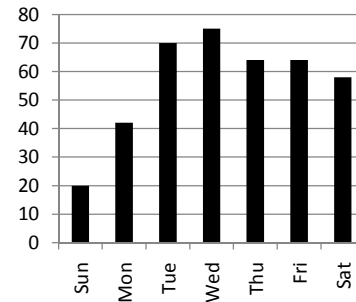
Three Year Crash Statistics

2006, 2007, 2008

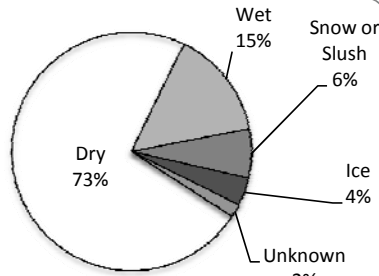
Crashes by Time of Day



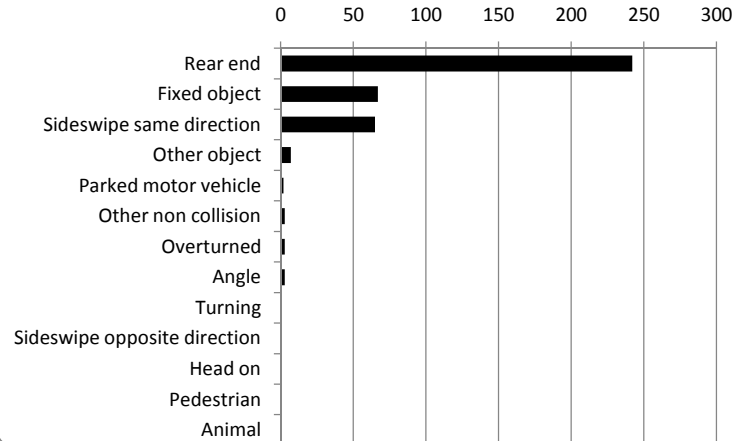
Crashes by Day of Week



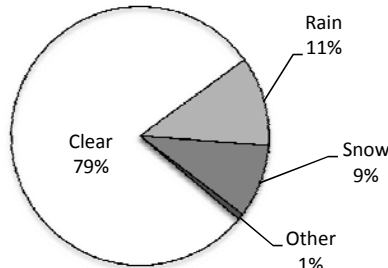
Road Condition



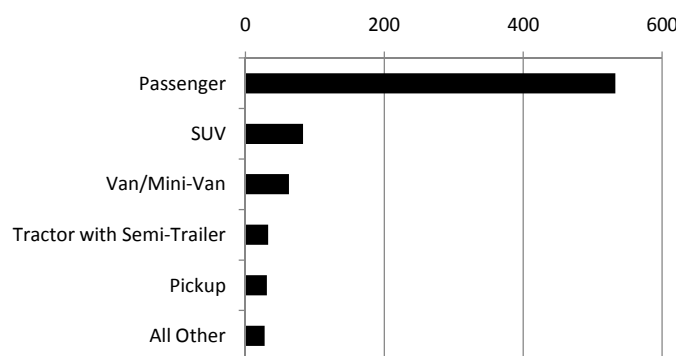
Number of Crashes by Crash Type



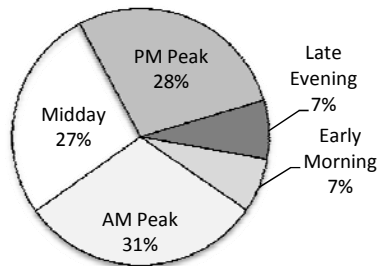
Weather Condition



Number of Vehicles by Type



Time of Day



Mainline Segment

EB2

Wolf Road to Westchester Blvd

Eastbound

Milepost From: 16.46
Milepost To: 17.79

1.33 Miles

Total Crashes

393

Crash Rate

295.5

crashes/mile

Injury Statistics

Fatal: 0

A Injury: 5

B & C Injury: 21

Total Injuries: 26

Injury Rate

19.5

Injuries/mile

Predominant Crash Factors

Crash Type:	Rear end	62%
Weather Condition:	Clear	79%
Road Condition:	Dry	73%
Lighting Condition:	Daylight	73%
Time of Day:	AM Peak	31%
Vehicle Type:	Passenger	69%



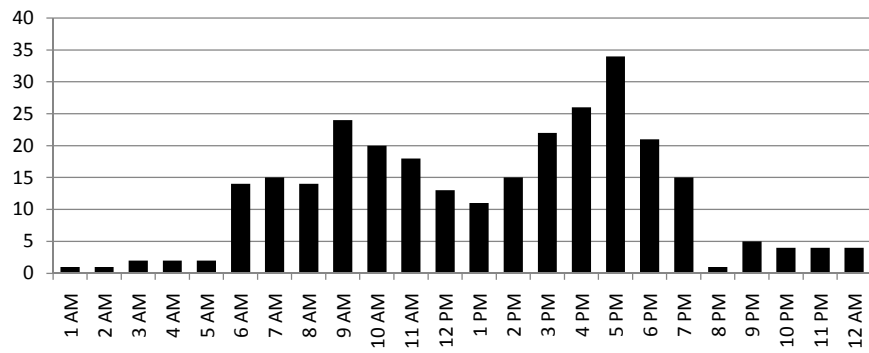
Illinois Department of Transportation

I-290 Preliminary Engineering and Environmental Study (Phase I)

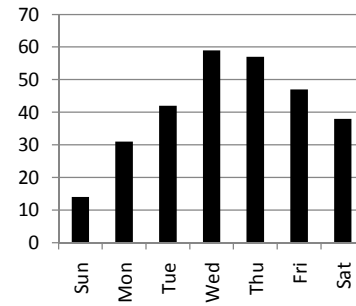
Three Year Crash Statistics

2006, 2007, 2008

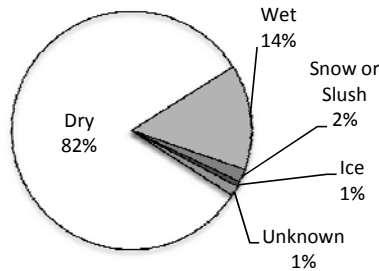
Crashes by Time of Day



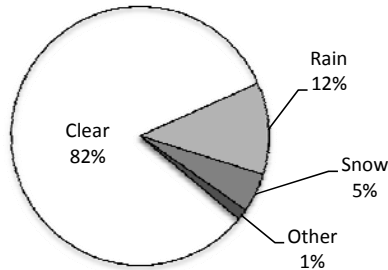
Crashes by Day of Week



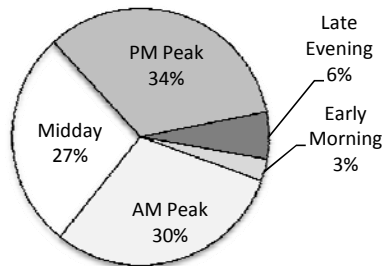
Road Condition



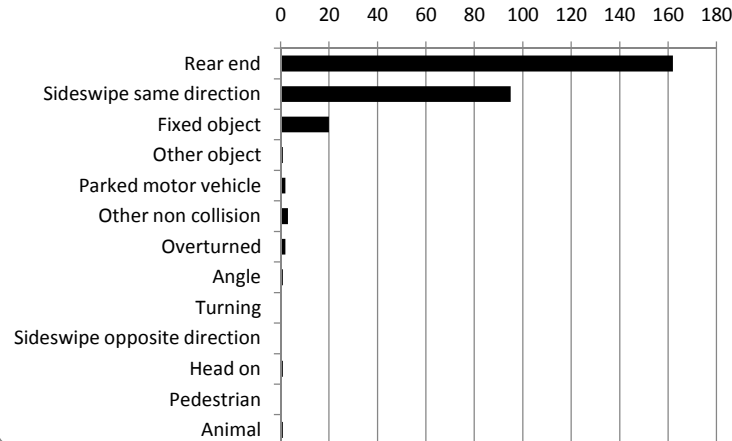
Weather Condition



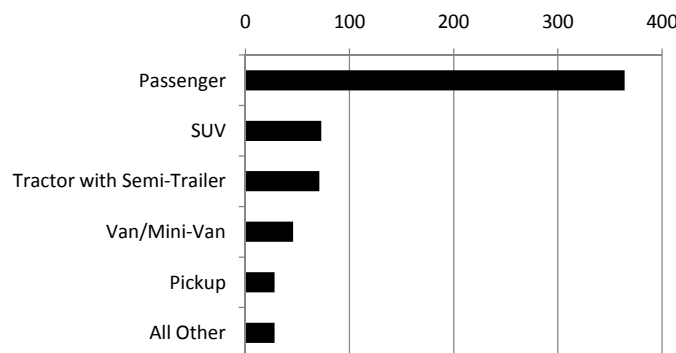
Time of Day



Number of Crashes by Crash Type



Number of Vehicles by Type



Mainline Segment

EB3

Westchester Blvd to 25th Avenue

Eastbound

Milepost From
Milepost To

17.79
18.56

0.77 Miles

Total Crashes

288

Crash Rate

374.0

crashes/mile

Injury Statistics

Fatal

1

A Injury

1

B & C Injury

16

Total Injuries

18

Injury Rate

23.4

Injuries/mile

Predominant Crash Factors

Crash Type:	Rear end	56%
Weather Condition:	Clear	82%
Road Condition:	Dry	82%
Lighting Condition:	Daylight	76%
Time of Day:	PM Peak	34%
Vehicle Type:	Passenger	60%



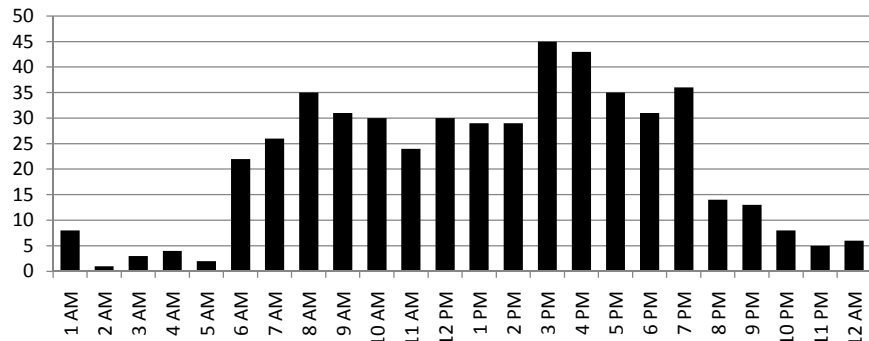
Illinois Department of Transportation

I-290 Preliminary Engineering and Environmental Study (Phase I)

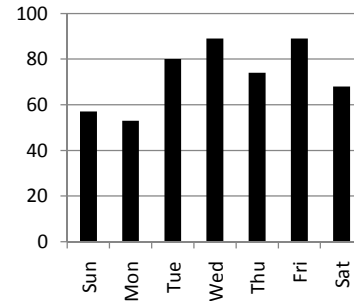
Three Year Crash Statistics

2006, 2007, 2008

Crashes by Time of Day



Crashes by Day of Week



Mainline Segment

EB4

25th Avenue to 1st Avenue

Eastbound

Milepost From
Milepost To

18.56
20.11

1.55 Miles

Total Crashes

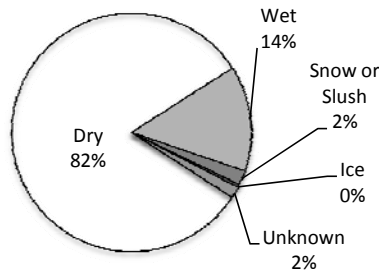
510

Crash Rate

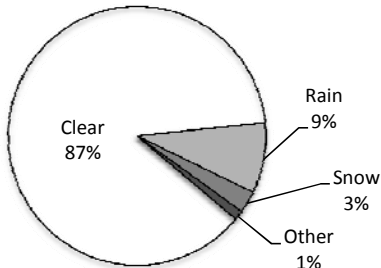
329.0

crashes/mile

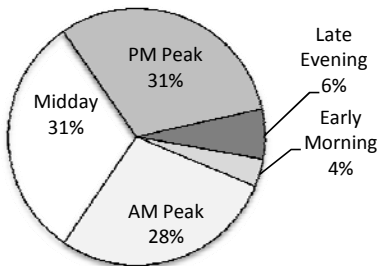
Road Condition



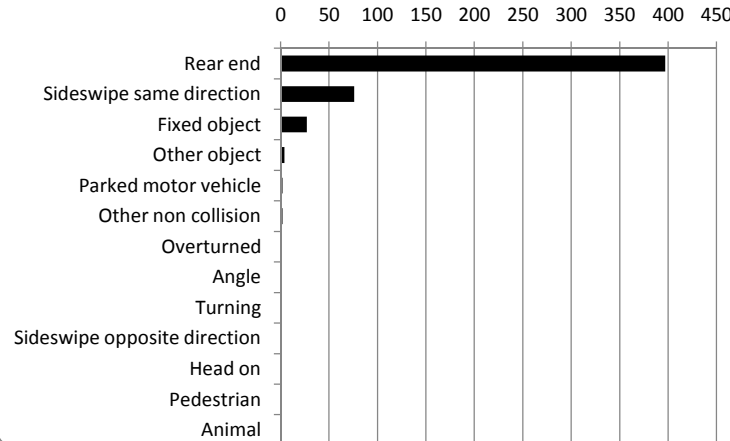
Weather Condition



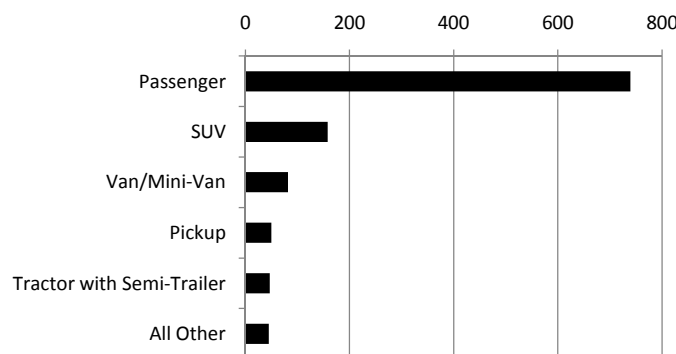
Time of Day



Number of Crashes by Crash Type



Number of Vehicles by Type



Injury Statistics

Fatal 0

A Injury 7

B & C Injury 34

Total Injuries 41

Injury Rate

26.5

Injuries/mile

Predominant Crash Factors

Crash Type:	Rear end	78%
Weather Condition:	Clear	87%
Road Condition:	Dry	82%
Lighting Condition:	Daylight	77%
Time of Day:	PM Peak	31%
Vehicle Type:	Passenger	66%



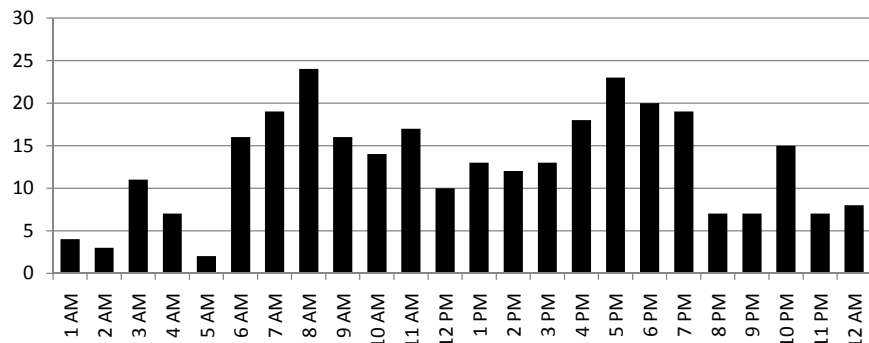
Illinois Department of Transportation

I-290 Preliminary Engineering and Environmental Study (Phase I)

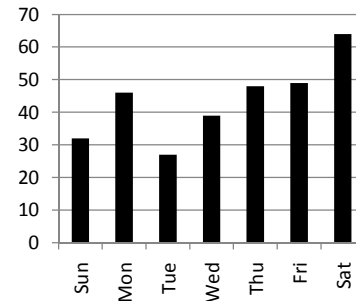
Three Year Crash Statistics

2006, 2007, 2008

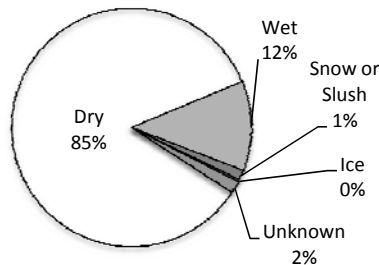
Crashes by Time of Day



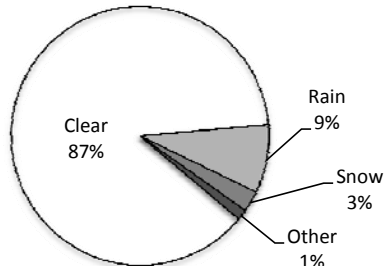
Crashes by Day of Week



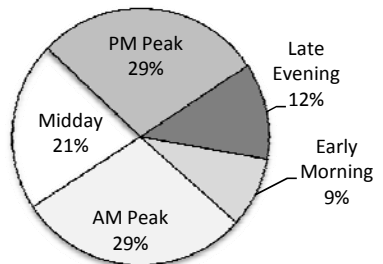
Road Condition



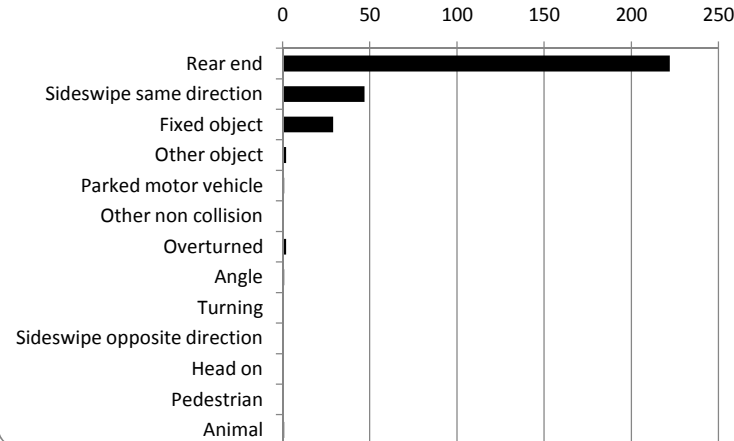
Weather Condition



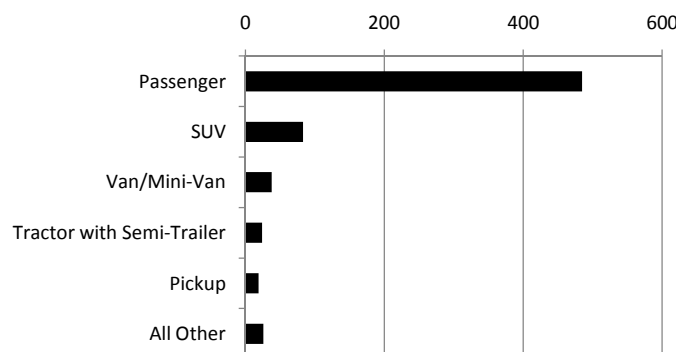
Time of Day



Number Crashes by Crash Type



Number of Vehicles by Type



Mainline Segment

EB5

1st Avenue to CSX RR Overpass

Eastbound

Milepost From
Milepost To

20.11
21.29

1.18 Miles

Total Crashes

305

Crash Rate

258.5

crashes/mile

Injury Statistics

Fatal 0

A Injury 2

B & C Injury 26

Total Injuries 28

Injury Rate

23.7

Injuries/mile

Predominant Crash Factors

Crash Type:	Rear end	73%
Weather Condition:	Clear	88%
Road Condition:	Dry	85%
Lighting Condition:	Daylight	66%
Time of Day:	AM Peak	29%
Vehicle Type:	Passenger	72%



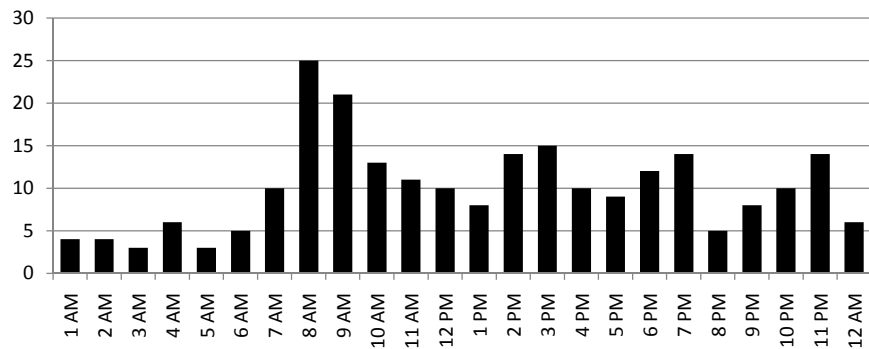
Illinois Department of Transportation

I-290 Preliminary Engineering and Environmental Study (Phase I)

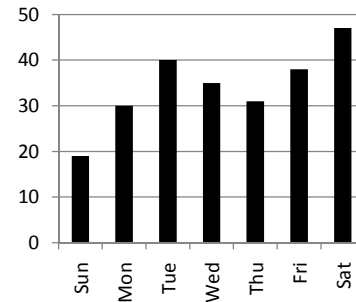
Three Year Crash Statistics

2006, 2007, 2008

Crashes by Time of Day



Crashes by Day of Week



Mainline Segment

EB6

CSX RR Overpass to East Ave

Eastbound

Milepost From
Milepost To

21.29
22.39

1.10 Miles

Total Crashes

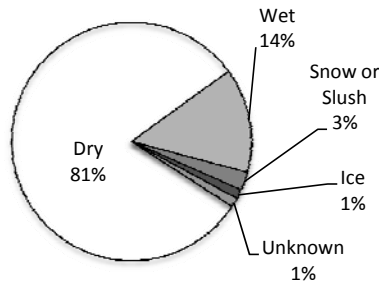
240

Crash Rate

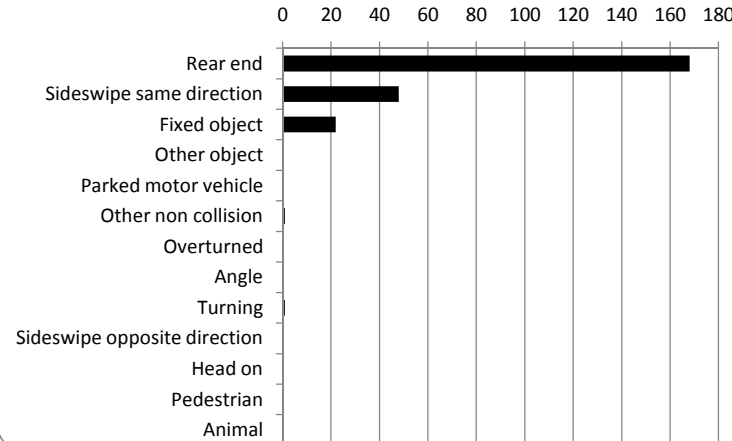
218.2

crashes/mile

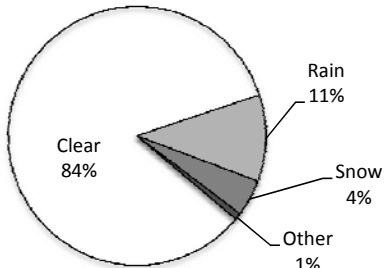
Road Condition



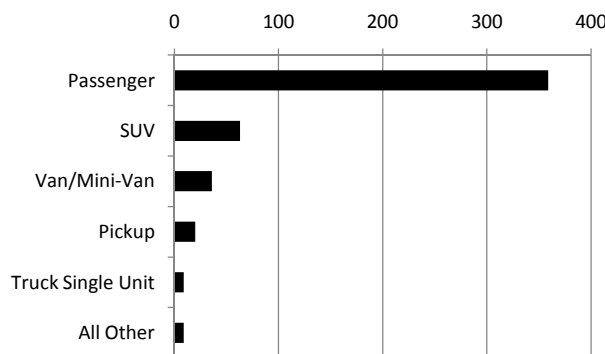
Number of Crashes by Crash Type



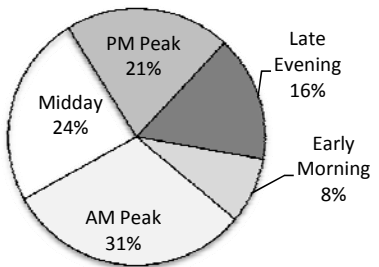
Weather Condition



Number of Vehicles by Type



Time of Day



Injury Statistics

Fatal 0

A Injury 5

B & C Injury 19

Total Injuries 24

Injury Rate

21.8

Injuries/mile

Predominant Crash Factors

Crash Type:	Rear end	70%
Weather Condition:	Clear	84%
Road Condition:	Dry	81%
Lighting Condition:	Daylight	67%
Time of Day:	AM Peak	31%
Vehicle Type:	Passenger	72%



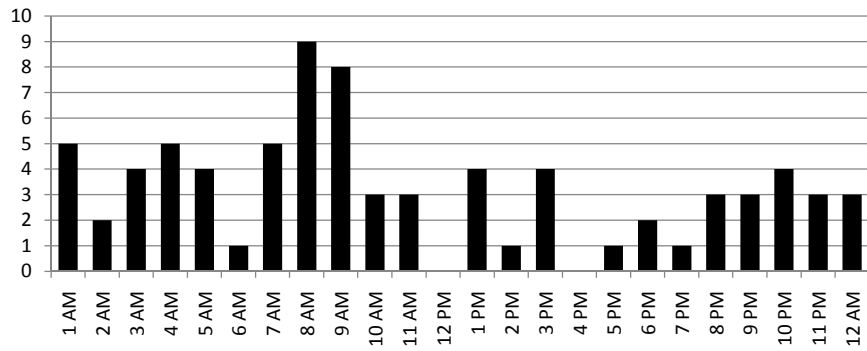
Illinois Department of Transportation

I-290 Preliminary Engineering and Environmental Study (Phase I)

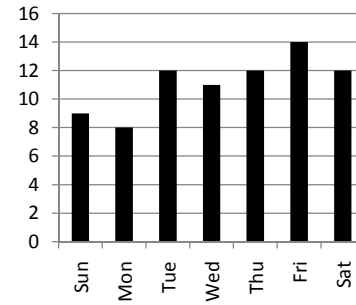
Three Year Crash Statistics

2006, 2007, 2008

Crashes by Time of Day



Crashes by Day of Week



Mainline Segment

EB7

East Ave to Austin Avenue

Eastbound

Milepost From
Milepost To

22.39
23.15

0.76 Miles

Total Crashes

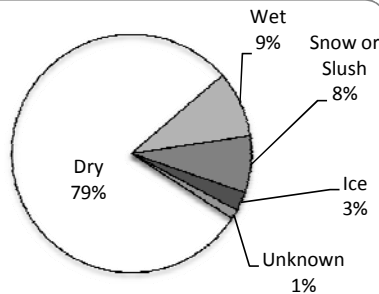
78

Crash Rate

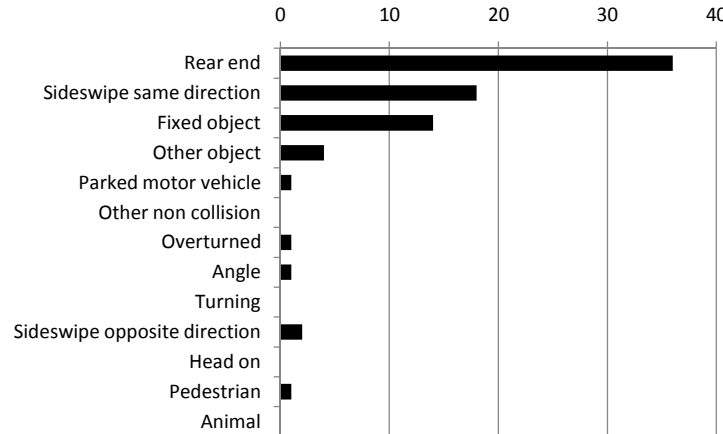
102.6

crashes/mile

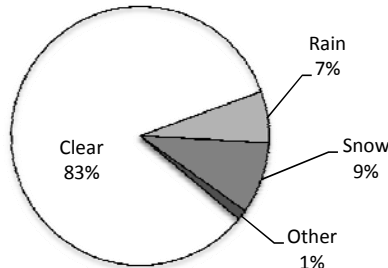
Road Condition



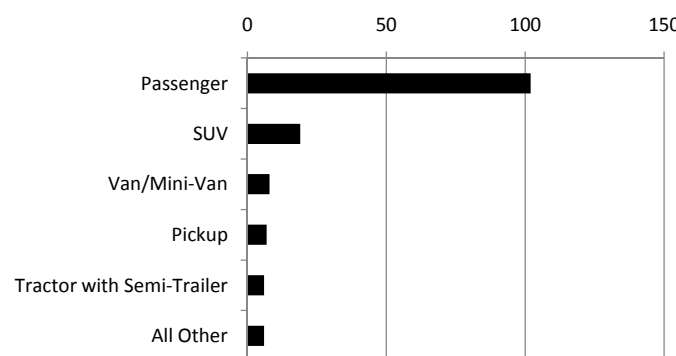
Number of Crashes by Crash Type



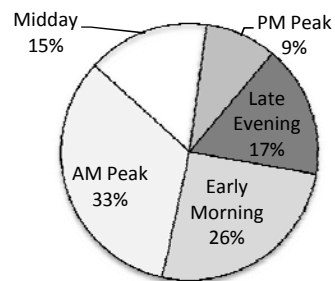
Weather Condition



Number of Vehicles by Type



Time of Day



Injury Statistics	Fatal	1
	A Injury	2
	B & C Injury	6
	Total Injuries	9
Injury Rate		11.8
		injuries/mile

Predominant Crash Factors

Crash Type:	Rear end	46%
Weather Condition:	Clear	83%
Road Condition:	Dry	79%
Lighting Condition:	Daylight	50%
Time of Day:	AM Peak	33%
Vehicle Type:	Passenger	69%

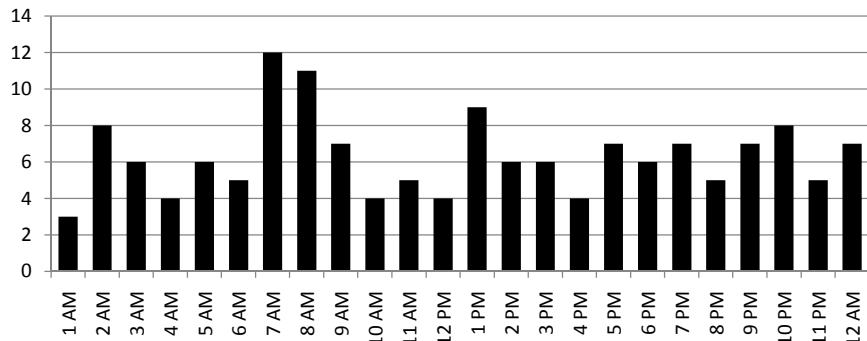


I-290 Preliminary Engineering and Environmental Study (Phase I)

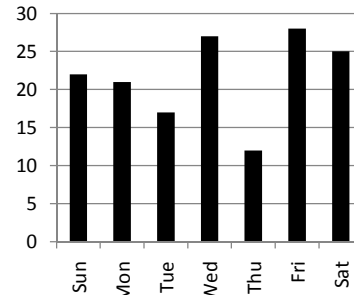
Three Year Crash Statistics

2006, 2007, 2008

Crashes by Time of Day



Crashes by Day of Week



Mainline Segment

EB8

Austin Avenue to Laramie Avenue

Eastbound

Milepost From
Milepost To

23.15
24.15

1.00 Miles

Total Crashes

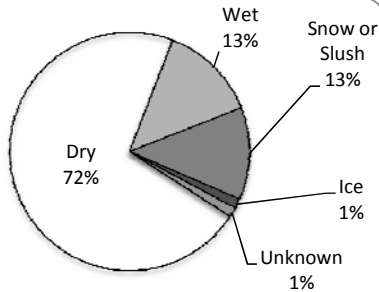
152

Crash Rate

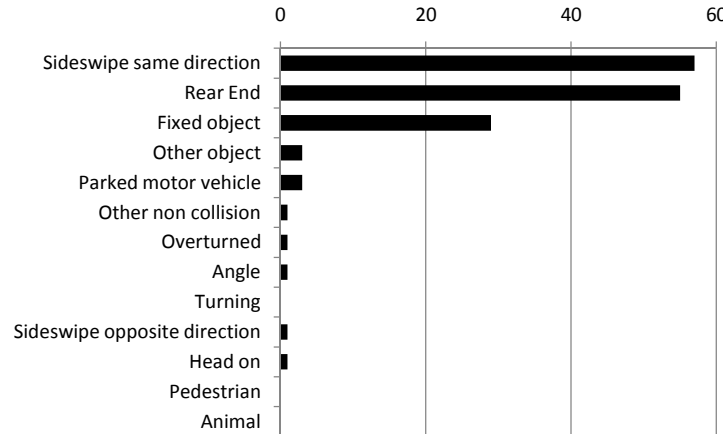
152.0

crashes/mile

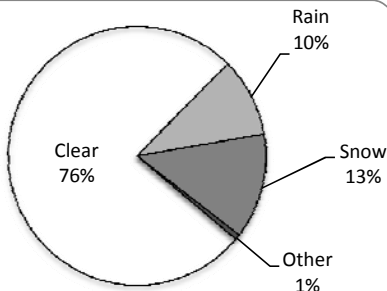
Road Condition



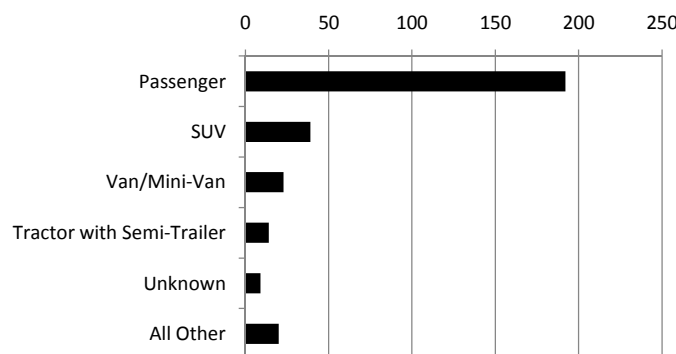
Number of Crashes by Crash Type



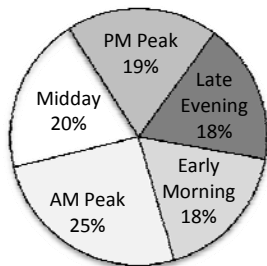
Weather Condition



Number of Vehicles by Type



Time of Day



Injury Statistics	Fatal	0
	A Injury	1
	B & C Injury	11
	Total Injuries	12
Injury Rate		12.0
		injuries/mile

Predominant Crash Factors

Crash Type:	Sideswipe same direction	38%
Weather Condition:	Clear	76%
Road Condition:	Dry	72%
Lighting Condition:	Daylight	56%
Time of Day:	AM Peak	26%
Vehicle Type:	Passenger	65%



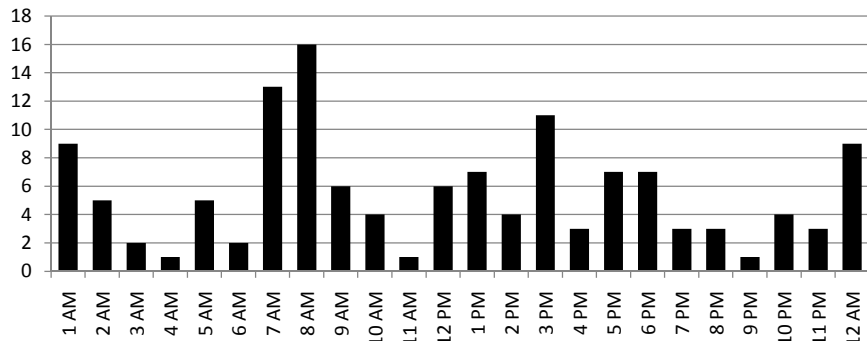
Illinois Department of Transportation

I-290 Preliminary Engineering and Environmental Study (Phase I)

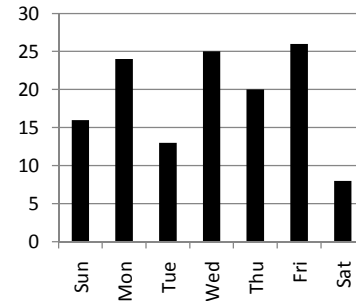
Three Year Crash Statistics

2006, 2007, 2008

Crashes by Time of Day



Crashes by Day of Week



Mainline Segment

EB9

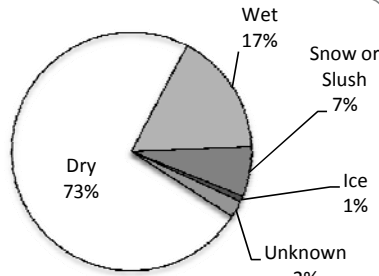
Laramie Avenue to Kostner Avenue Eastbound

Milepost From: 24.15
Milepost To: 25.15
1.00 Miles

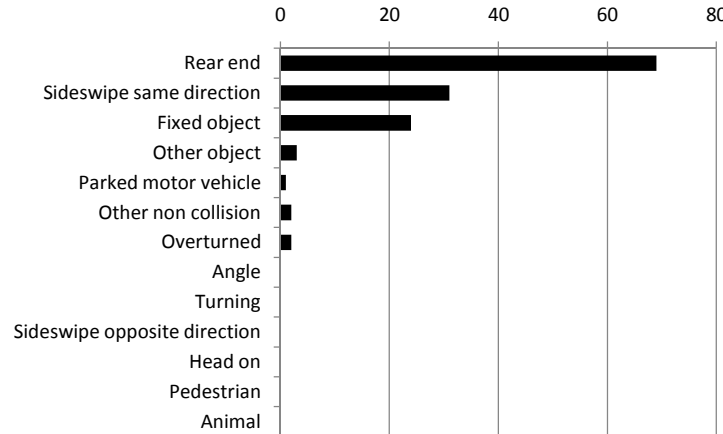
Total Crashes 132

Crash Rate 132.0
crashes/mile

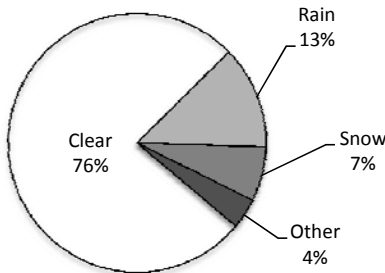
Road Condition



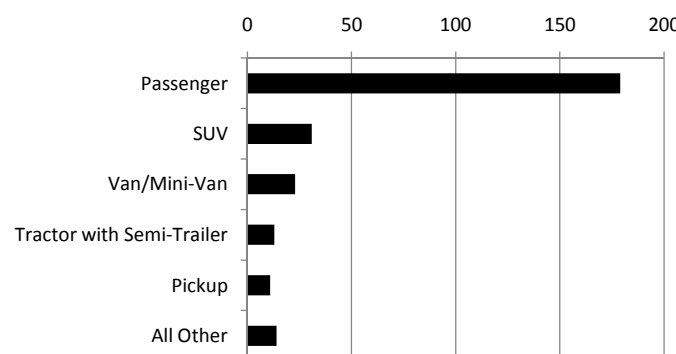
Number of Crashes by Crash Type



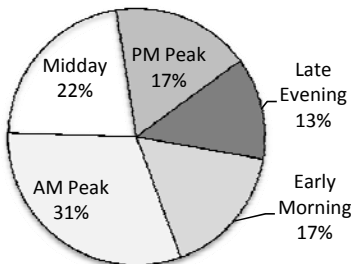
Weather Condition



Number of Vehicles by Type



Time of Day



Injury Statistics	Fatal	0
	A Injury	4
	B & C Injury	9
	Total Injuries	13
Injury Rate		13.0
		Injuries/mile

Predominant Crash Factors

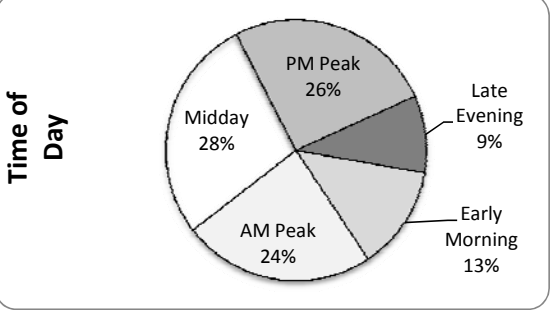
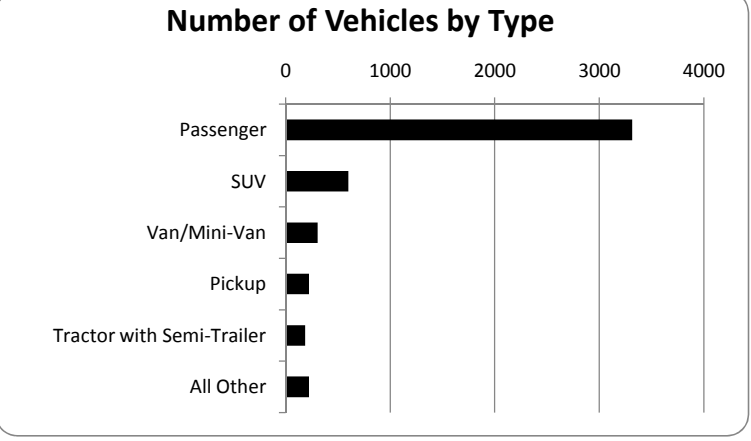
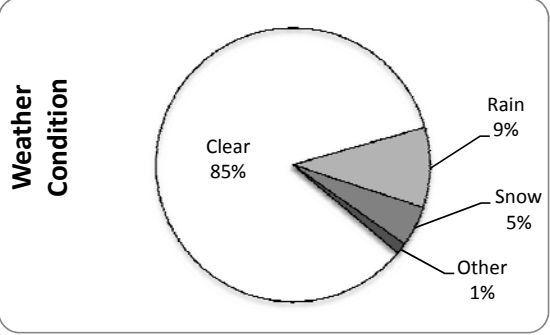
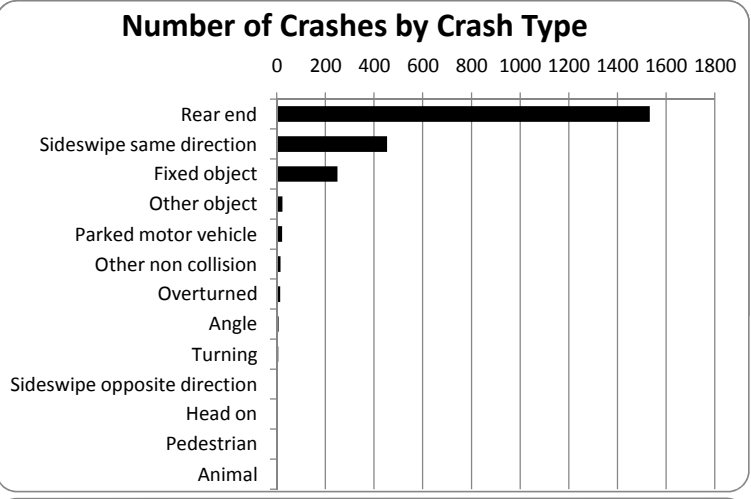
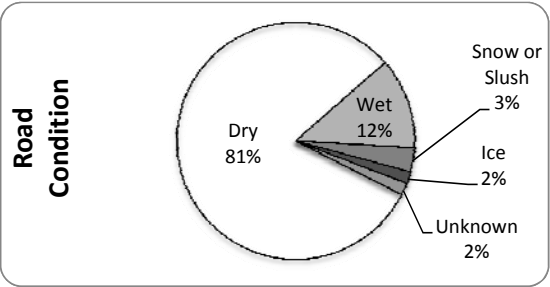
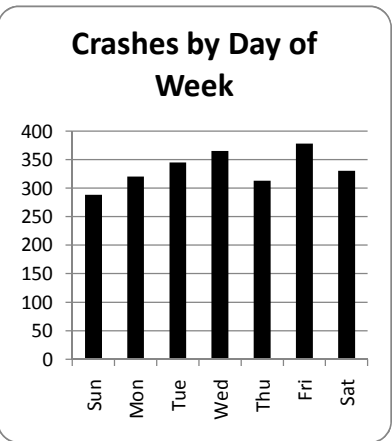
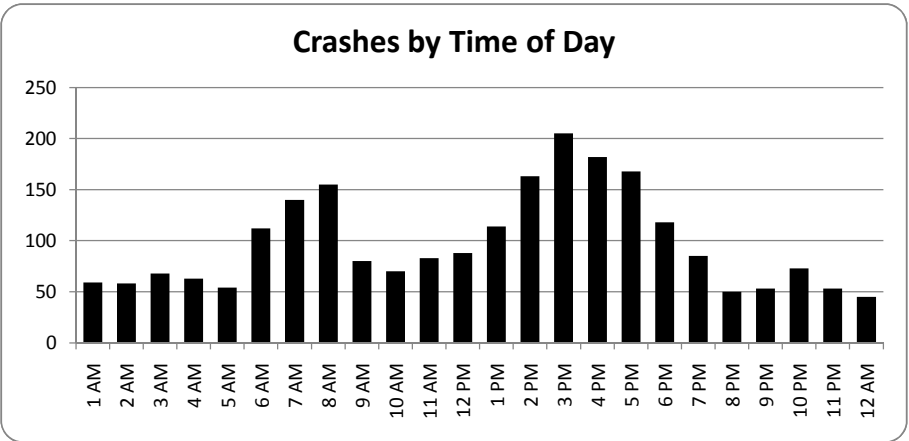
Crash Type:	Rear end	52%
Weather Condition:	Clear	77%
Road Condition:	Dry	73%
Lighting Condition:	Daylight	62%
Time of Day:	AM Peak	31%
Vehicle Type:	Passenger	66%



I-290 Preliminary Engineering and Environmental Study (Phase I)

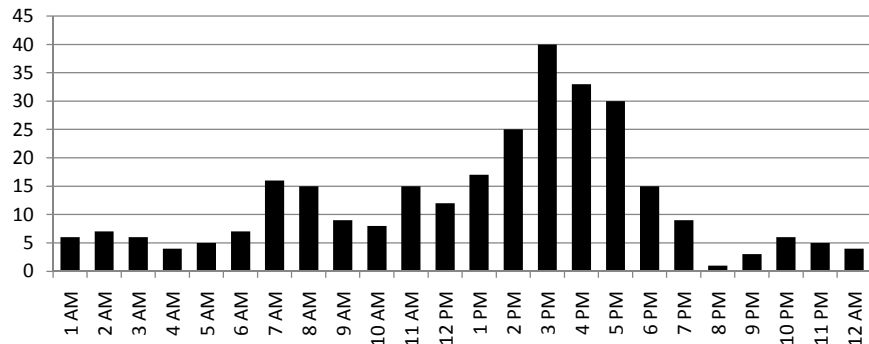
Three Year Crash Statistics

2006, 2007, 2008

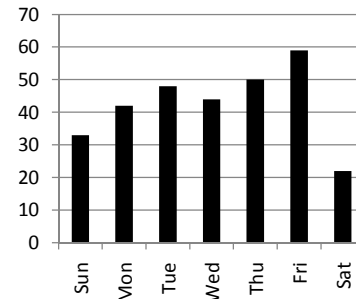


I-290 Westbound		ALL
Kostner Avenue to West of Wolf Road		Westbound
Milepost From	25.15	9.65 Miles
Milepost To	15.5	
Total Crashes		2339
Crash Rate		242.4 crashes/mile
Injury Statistics	Fatal	7
	A Injury	40
	B & C Injury	178
	Total Injuries	225
	Injury Rate	23.3 Injuries/mile
Predominant Crash Factors		
Crash Type:	Rear end	66%
Weather Condition:	Clear	84%
Road Condition:	Dry	81%
Lighting Condition:	Daylight	67%
Time of Day:	Midday	28%
Vehicle Type:	Passenger	68%
I-290 Preliminary Engineering and Environmental Study (Phase I)		
<h2>Three Year Crash Statistics</h2> <p>2006, 2007, 2008</p>		

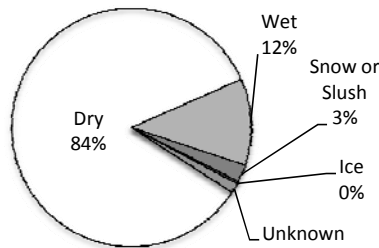
Crashes by Time of Day



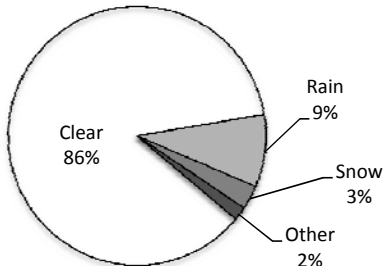
Crashes by Day of Week



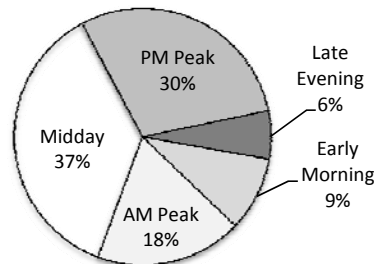
Road Condition



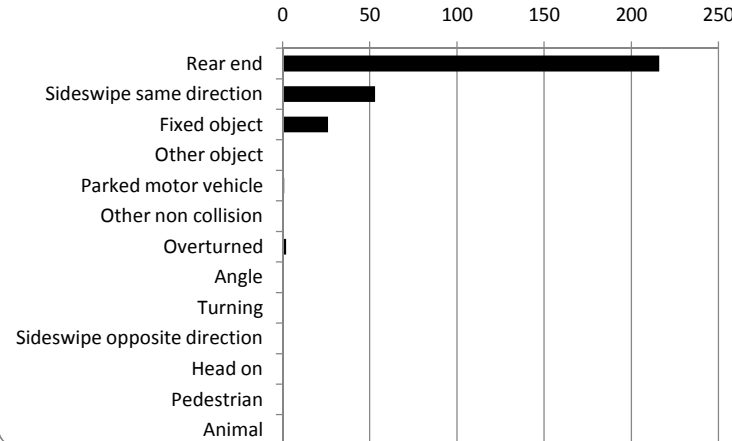
Weather Condition



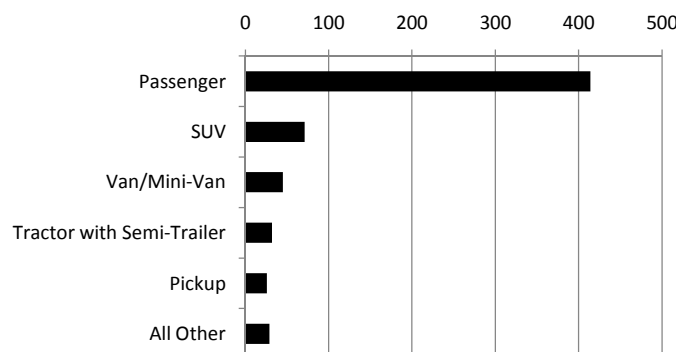
Time of Day



Number of Crashes by Crash Type



Number of Vehicles by Type



Mainline Segment

WB1

Kostner Avenue to Laramie Avenue Westbound

Milepost From 25.15 Milepost To 24.15 1.00 Miles

Total Crashes 298

Crash Rate 298.0 crashes/mile

Injury Statistics	Fatal	0
	A Injury	3
	B & C Injury	17
	Total Injuries	20
Injury Rate		20.0 Injuries/mile

Predominant Crash Factors		
Crash Type:	Rear end	72%
Weather Condition:	Clear	86%
Road Condition:	Dry	84%
Lighting Condition:	Daylight	76%
Time of Day:	Midday	37%
Vehicle Type:	Passenger	67%

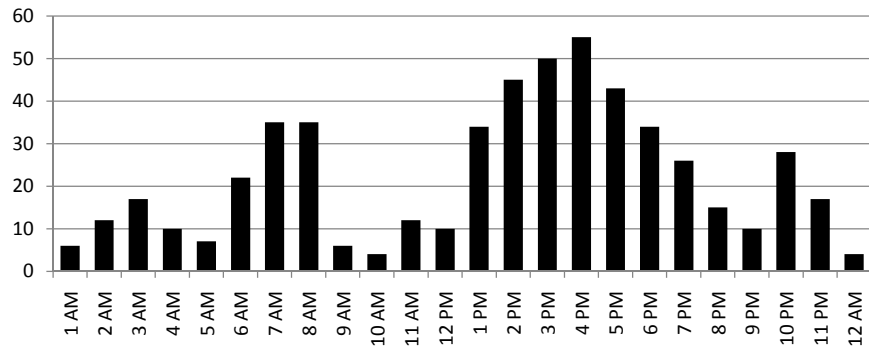


I-290 Preliminary Engineering and Environmental Study (Phase I)

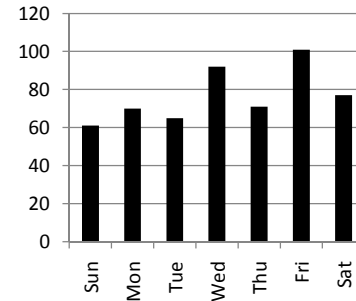
Three Year Crash Statistics

2006, 2007, 2008

Crashes by Time of Day



Crashes by Day of Week



Mainline Segment

WB2

Laramie Avenue to Austin Avenue

Westbound

Milepost From
Milepost To

24.15
23.15

1.00 Miles

Total Crashes

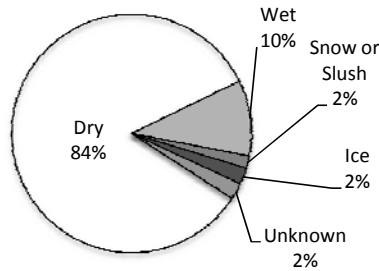
537

Crash Rate

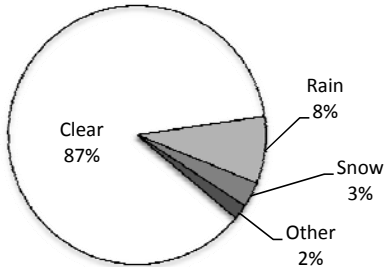
537.0

crashes/mile

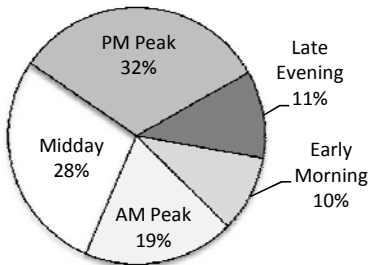
Road Condition



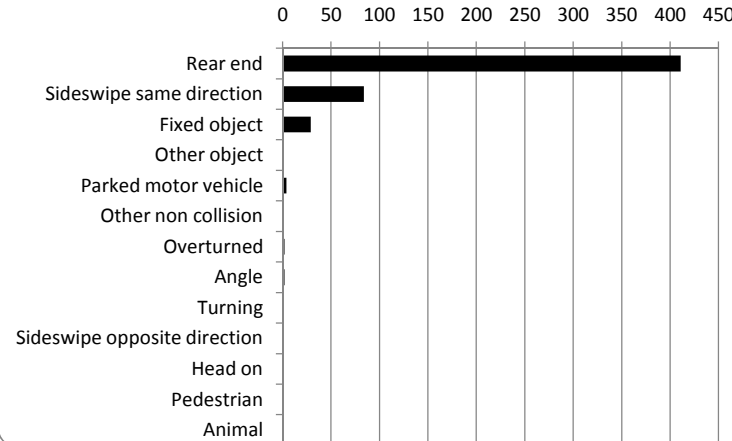
Weather Condition



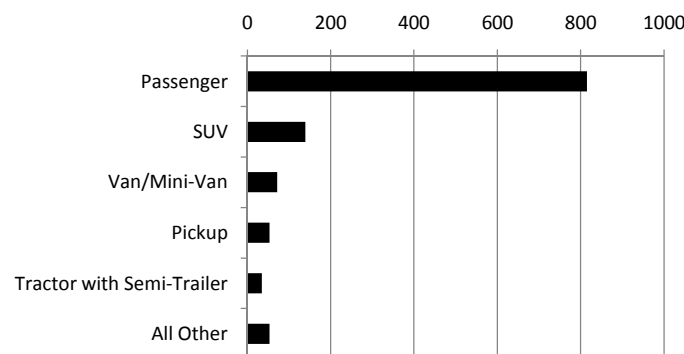
Time of Day



Number of Crashes by Crash Type



Number of Vehicles by Type



Injury Statistics	Fatal	1
	A Injury	6
	B & C Injury	31
	Total Injuries	38
Injury Rate		38.0
		injuries/mile

Predominant Crash Factors

Crash Type:	Rear end	77%
Weather Condition:	Clear	87%
Road Condition:	Dry	84%
Lighting Condition:	Daylight	65%
Time of Day:	PM Peak	32%
Vehicle Type:	Passenger	70%

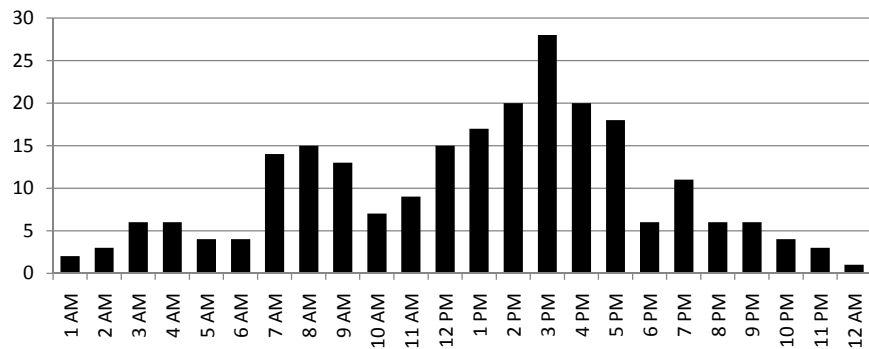


I-290 Preliminary Engineering and Environmental Study (Phase I)

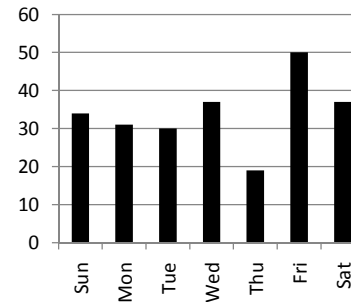
Three Year Crash Statistics

2006, 2007, 2008

Crashes by Time of Day



Crashes by Day of Week



Mainline Segment

WB3

Austin Avenue to East Ave

Westbound

Milepost From
Milepost To

23.15
22.39

0.76 Miles

Total Crashes

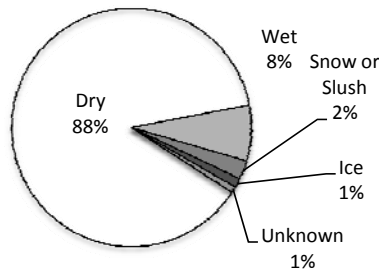
238

Crash Rate

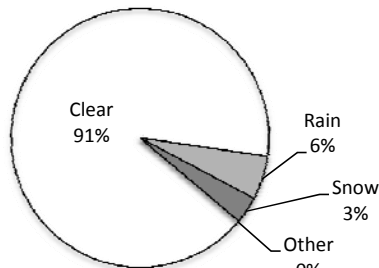
313.2

crashes/mile

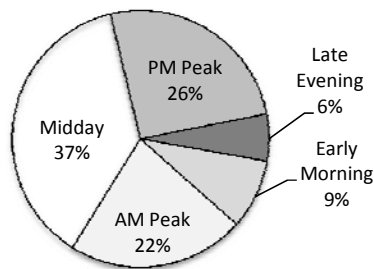
Road Condition



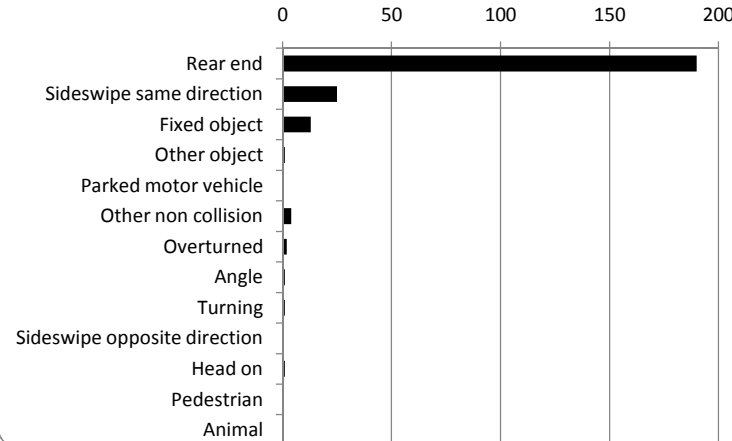
Weather Condition



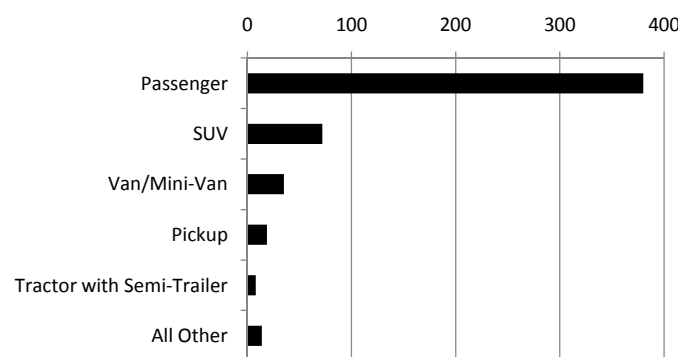
Time of Day



Number of Crashes by Crash Type



Number of Vehicles by Type



Injury Statistics	Fatal	2
	A Injury	6
	B & C Injury	22
	Total Injuries	30
Injury Rate		39.5
		injuries/mile

Predominant Crash Factors

Crash Type:	Rear end	80%
Weather Condition:	Clear	91%
Road Condition:	Dry	88%
Lighting Condition:	Daylight	75%
Time of Day:	Midday	37%
Vehicle Type:	Passenger	72%



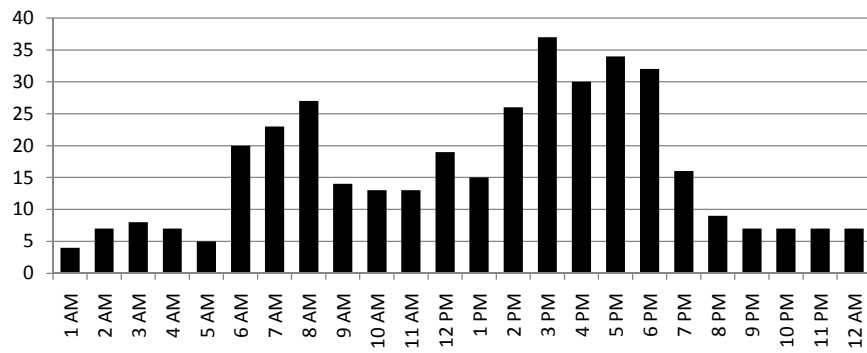
Illinois Department of Transportation

I-290 Preliminary Engineering and Environmental Study (Phase I)

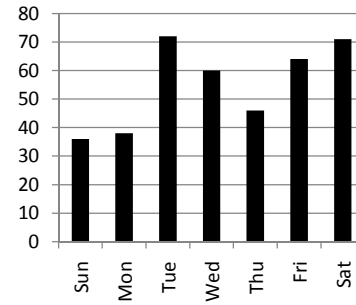
Three Year Crash Statistics

2006, 2007, 2008

Crashes by Time of Day



Crashes by Day of Week



Mainline Segment

WB4

East Ave to CSX RR Overpass

Westbound

Milepost From: 22.39
Milepost To: 21.29

1.10 Miles

Total Crashes

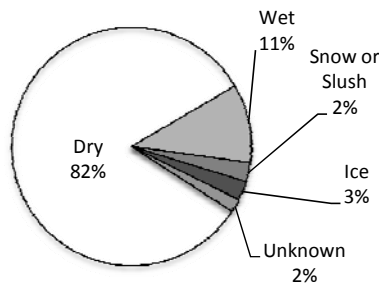
387

Crash Rate

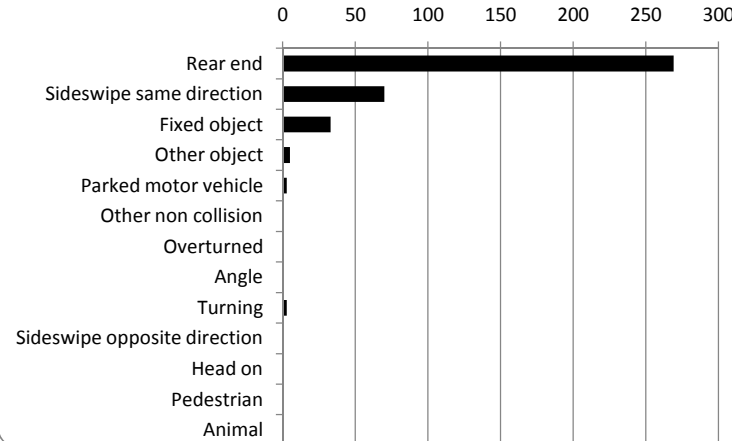
351.8

crashes/mile

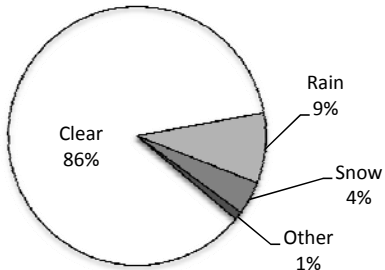
Road Condition



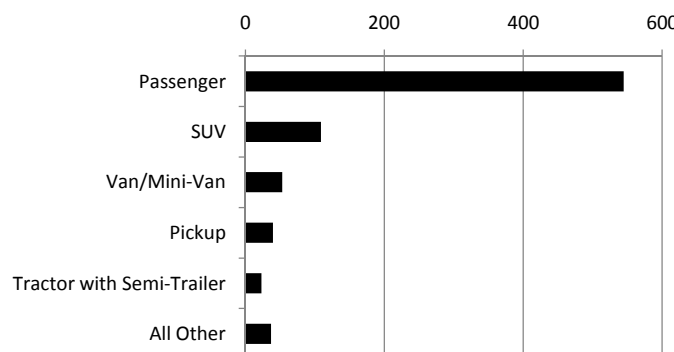
Number of Crashes by Crash Type



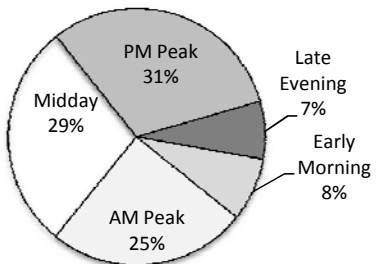
Weather Condition



Number of Vehicles by Type



Time of Day



Injury Statistics	Fatal	1
	A Injury	6
	B & C Injury	32
	Total Injuries	39
Injury Rate		35.5
		injuries/mile

Predominant Crash Factors

Crash Type:	Rear end	70%
Weather Condition:	Clear	86%
Road Condition:	Dry	82%
Lighting Condition:	Daylight	72%
Time of Day:	PM Peak	31%
Vehicle Type:	Passenger	68%

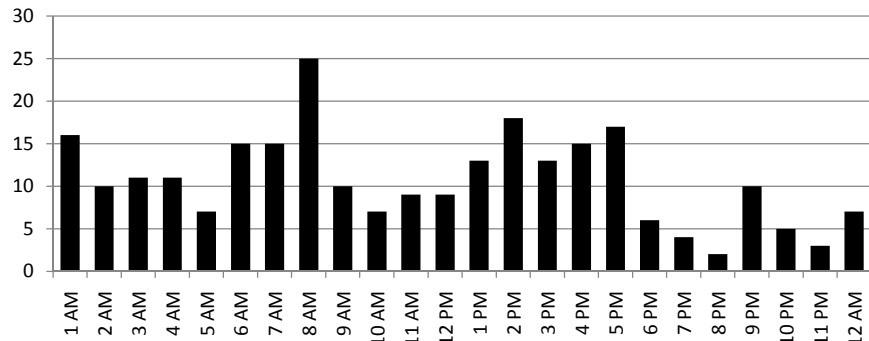


I-290 Preliminary Engineering and Environmental Study (Phase I)

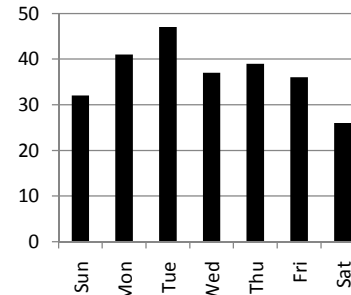
Three Year Crash Statistics

2006, 2007, 2008

Crashes by Time of Day



Crashes by Day of Week



Mainline Segment

WB5

CSX RR Overpass to 1st Avenue

Westbound

Milepost From
Milepost To

21.29
20.11

1.18 Miles

Total Crashes

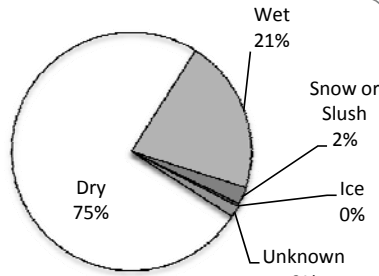
258

Crash Rate

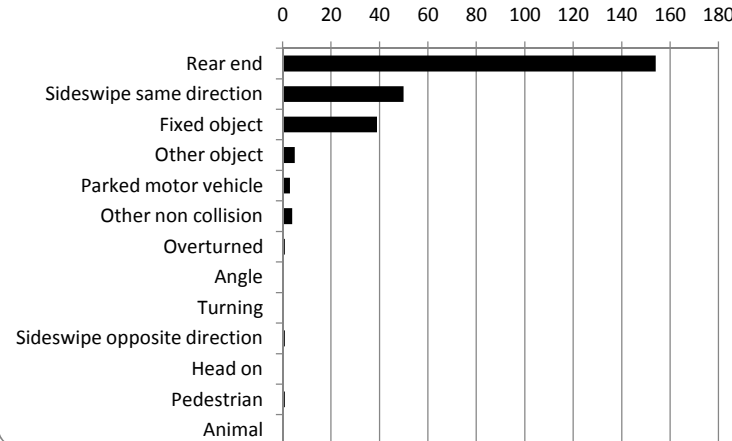
218.6

crashes/mile

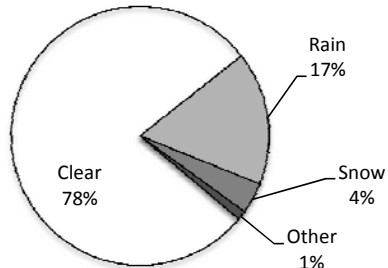
Road Condition



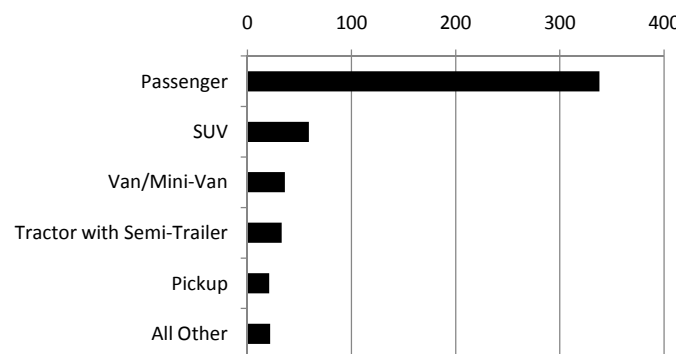
Number of Crashes by Crash Type



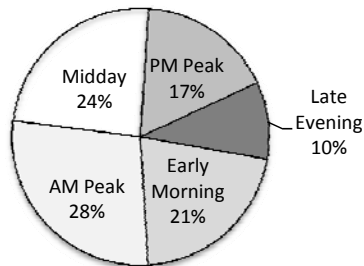
Weather Condition



Number of Vehicles by Type



Time of Day



Injury Statistics	Fatal	1
	A Injury	2
	B & C Injury	16
	Total Injuries	19
Injury Rate		16.1
		injuries/mile

Predominant Crash Factors

Crash Type:	Rear end	60%
Weather Condition:	Clear	78%
Road Condition:	Dry	75%
Lighting Condition:	Daylight	64%
Time of Day:	AM Peak	28%
Vehicle Type:	Passenger	66%

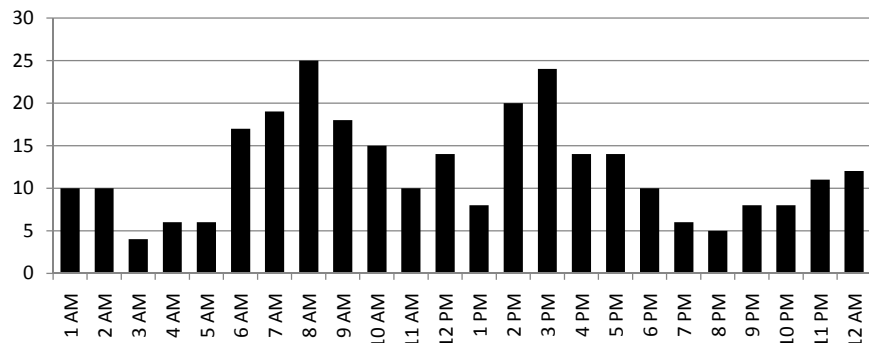


I-290 Preliminary Engineering and Environmental Study (Phase I)

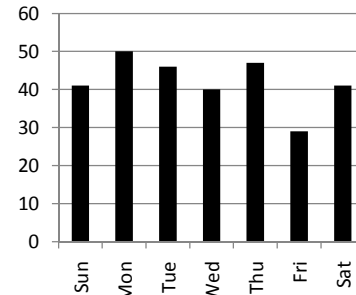
Three Year Crash Statistics

2006, 2007, 2008

Crashes by Time of Day



Crashes by Day of Week



Mainline Segment

WB6

1st Avenue to 25th Avenue

Westbound

Milepost From
Milepost To

20.11
18.56

1.55 Miles

Total Crashes

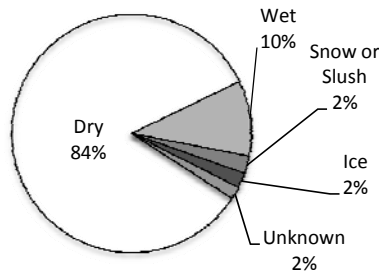
294

Crash Rate

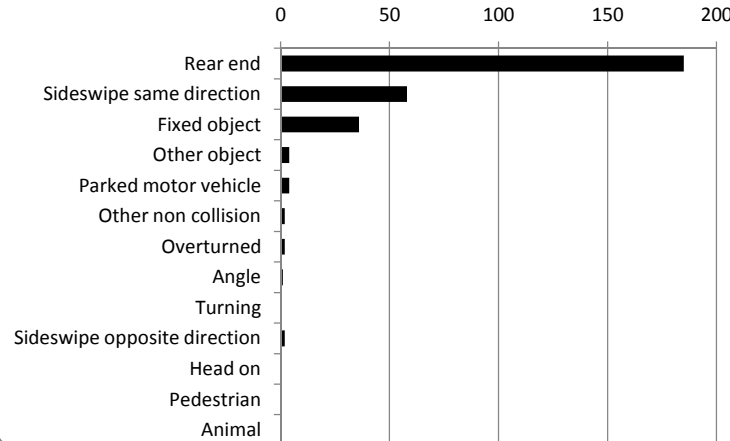
189.7

crashes/mile

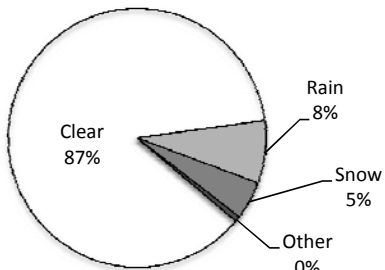
Road Condition



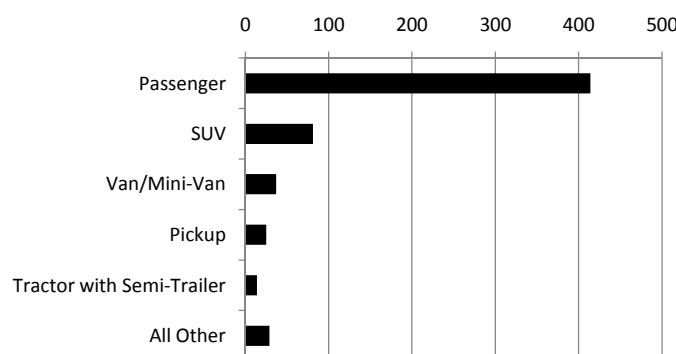
Number of Crashes by Crash Type



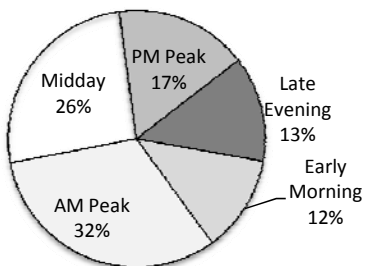
Weather Condition



Number of Vehicles by Type



Time of Day



Injury Statistics	Fatal	1
	A Injury	3
	B & C Injury	32
	Total Injuries	36
Injury Rate		23.2
		injuries/mile

Predominant Crash Factors

Crash Type:	Rear end	63%
Weather Condition:	Clear	87%
Road Condition:	Dry	84%
Lighting Condition:	Daylight	67%
Time of Day:	AM Peak	32%
Vehicle Type:	Passenger	69%



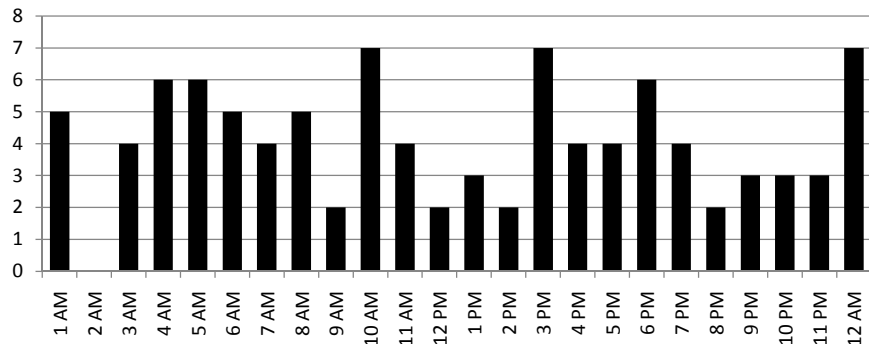
Illinois Department of Transportation

I-290 Preliminary Engineering and Environmental Study (Phase I)

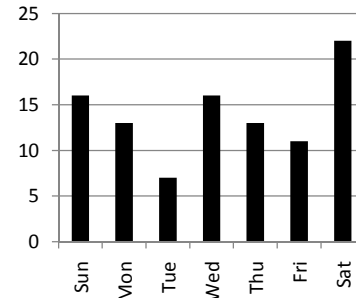
Three Year Crash Statistics

2006, 2007, 2008

Crashes by Time of Day



Crashes by Day of Week



Mainline Segment

WB7

25th Avenue to Mannheim Road

Westbound

Milepost From
Milepost To

18.56
17.53

1.03 Miles

Total Crashes

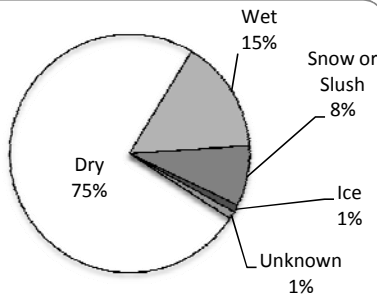
98

Crash Rate

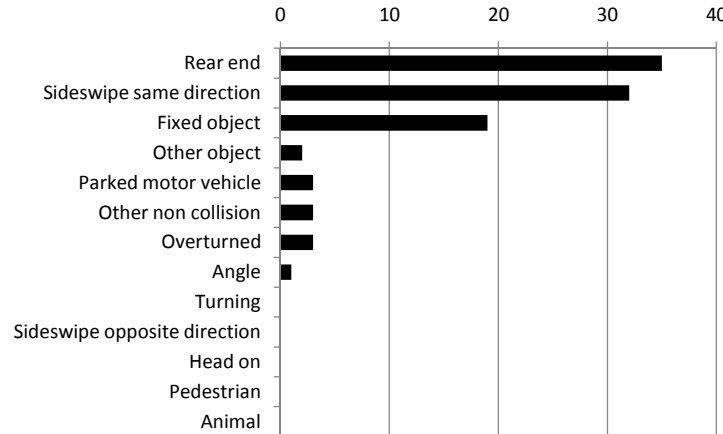
95.1

crashes/mile

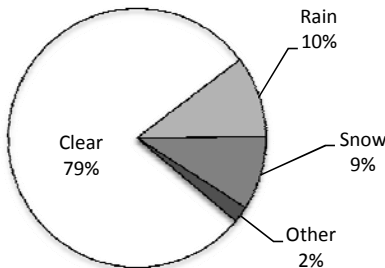
Road Condition



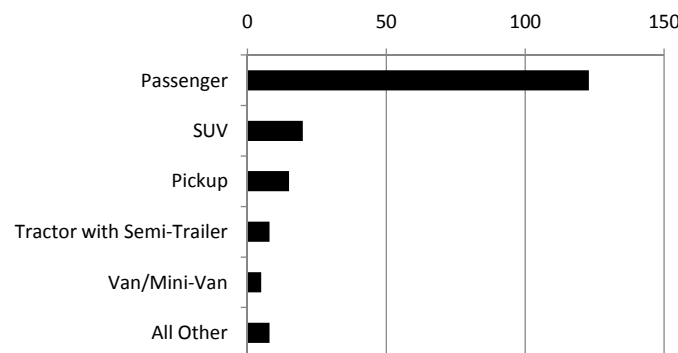
Number of Crashes by Crash Type



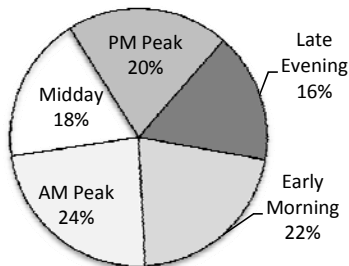
Weather Condition



Number of Vehicles by Type



Time of Day



Injury Statistics

Fatal 0

A Injury 3

B & C Injury 7

Total Injuries 10

Injury Rate

9.7

Injuries/mile

Predominant Crash Factors

Crash Type:	Rear end	36%
Weather Condition:	Clear	79%
Road Condition:	Dry	74%
Lighting Condition:	Daylight	54%
Time of Day:	AM Peak	23%
Vehicle Type:	Passenger	69%



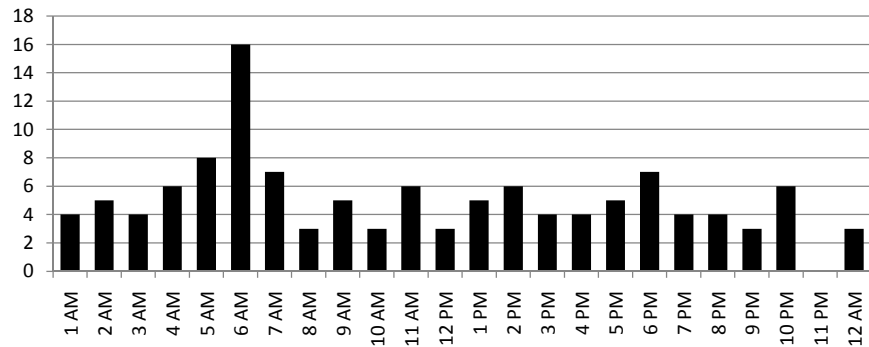
Illinois Department of Transportation

I-290 Preliminary Engineering and Environmental Study (Phase I)

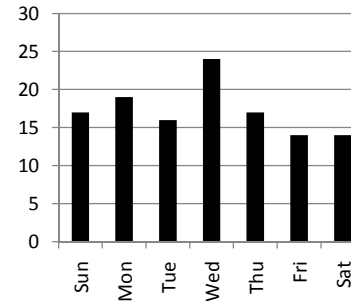
Three Year Crash Statistics

2006, 2007, 2008

Crashes by Time of Day



Crashes by Day of Week



Mainline Segment

WB8

Mannheim Road to Wolf Road

Westbound

Milepost From 17.53
Milepost To 16.46

1.07 Miles

Total Crashes

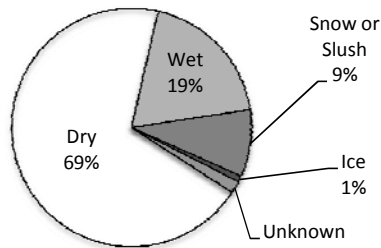
121

Crash Rate

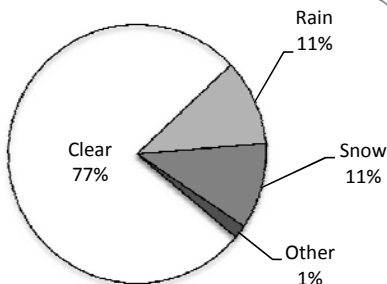
113.1

crashes/mile

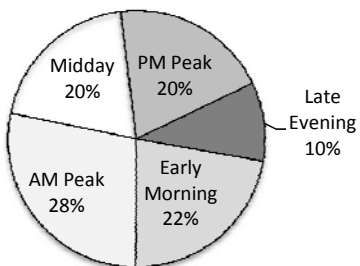
Road Condition



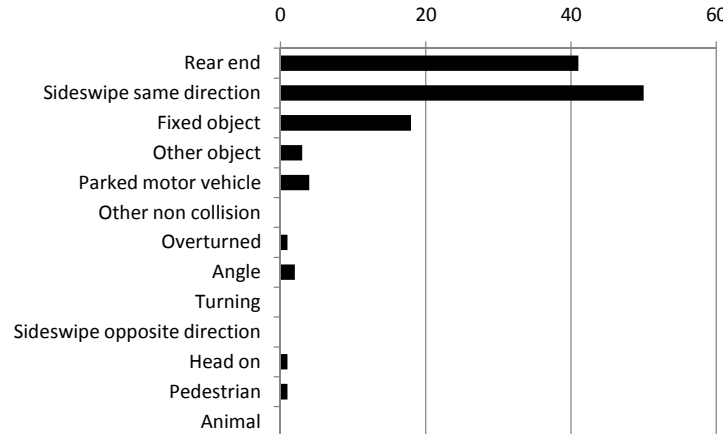
Weather Condition



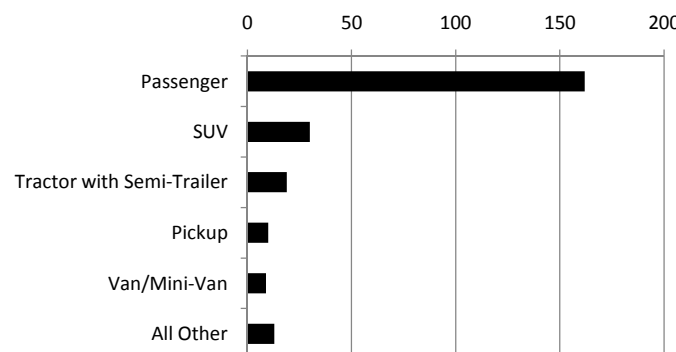
Time of Day



Number of Crashes by Crash Type



Number of Vehicles by Type



Injury Statistics

Fatal 0

A Injury 2

B & C Injury 8

Total Injuries 10

Injury Rate

9.3

Injuries/mile

Predominant Crash Factors

Crash Type:	Sideswipe same direction	41%
Weather Condition:	Clear	77%
Road Condition:	Dry	69%
Lighting Condition:	Daylight	60%
Time of Day:	AM Peak	28%
Vehicle Type:	Passenger	67%



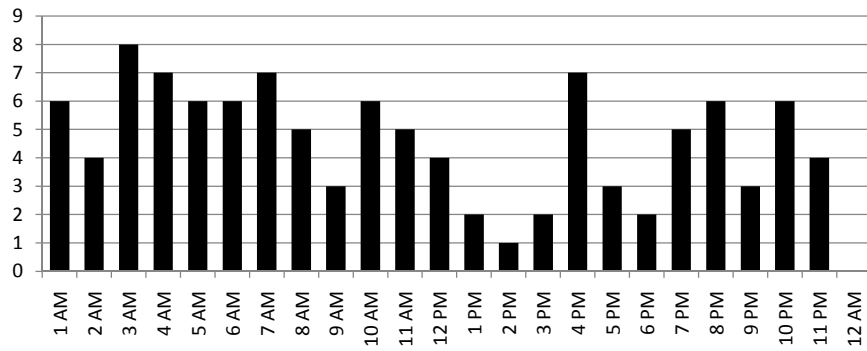
Illinois Department of Transportation

I-290 Preliminary Engineering and Environmental Study (Phase I)

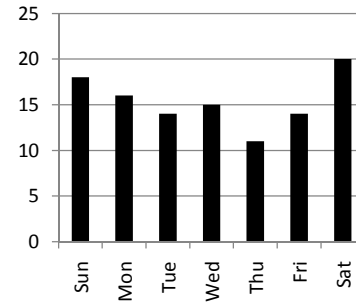
Three Year Crash Statistics

2006, 2007, 2008

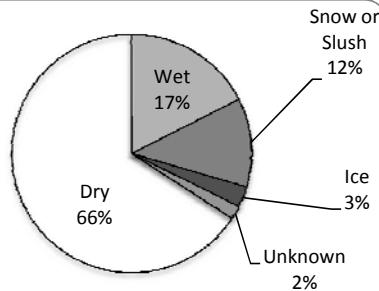
Crashes by Time of Day



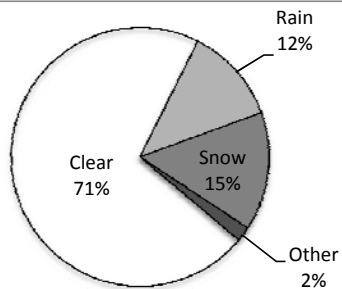
Crashes by Day of Week



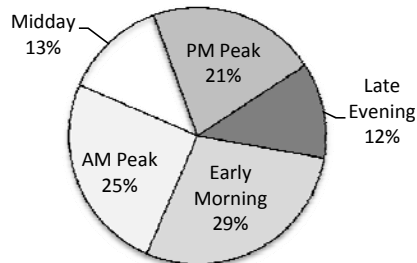
Road Condition



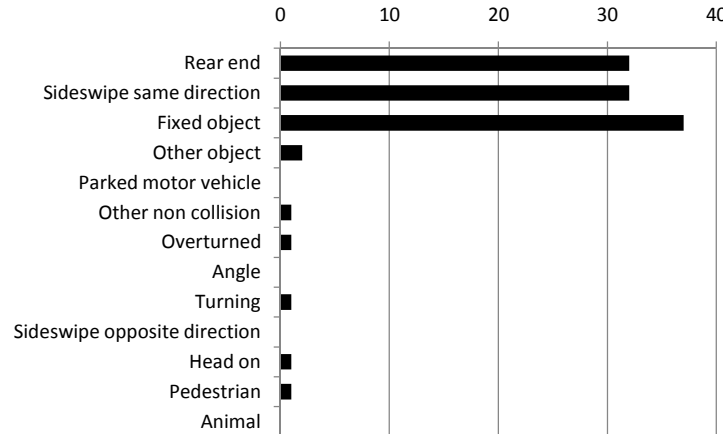
Weather Condition



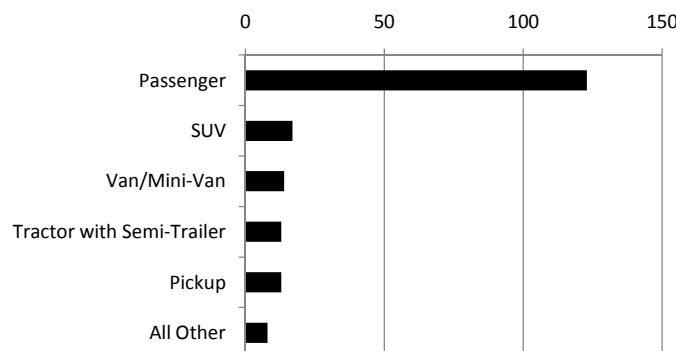
Time of Day



Number of Crashes by Crash Type



Number of Vehicles by Type



Mainline Segment

WB9

Wolf Road to West of Wolf Road

Westbound

Milepost From
Milepost To

16.46
15.5

0.96 Miles

Total Crashes

108

Crash Rate

112.5

crashes/mile

Injury Statistics

Fatal 1

A Injury 9

B & C Injury 13

Total Injuries 23

Injury Rate

24.0

Injuries/mile

Predominant Crash Factors

Crash Type:	Fixed object	34%
Weather Condition:	Clear	71%
Road Condition:	Dry	66%
Lighting Condition:	Darkness, Lighted Road	51%
Time of Day:	Early Morning	29%
Vehicle Type:	Passenger	65%



Illinois Department of Transportation

I-290 Preliminary Engineering and Environmental Study (Phase I)

Three Year Crash Statistics

2006, 2007, 2008

Technical Memorandum

Appendix F

Ramp Crash Summary Report

I-290 Ramp Crash Summary (2006, 2007, 2008)

Ramp	Exit/Entrance	I-290 Direction	Total Crashes	Total Injuries	Predominant Crash Factors									
					Crash Type	Weather	Road Condition	Time Period	Cause					
I-88 to EB I-290	Entrance	EB	49	11	Rear End	47%	Clear	84%	Dry	73%	AM Peak	29%	Straight Ahead	41%
I-290 to EB I-290 C-D	Exit	EB	1	0	Rear End	100%	Clear	100%	Dry	100%	PM Peak	100%	Straight Ahead	100%
Wolf Road to EB I-290 C-D	Entrance	EB	0	0	(none)		(none)		(none)		0%	(none)	0%	
EB I-290 C-D to SB Mannheim Road	Exit	EB	21	5	Rear End	48%	Clear	57%	Dry	48%	Midday	29%	Straight Ahead	43%
EB I-290 C-D to NB Mannheim Road	Exit	EB	5	1	Rear End	60%	Clear	80%	Dry	33%	AM Peak	60%	Straight Ahead	60%
SB Mannheim Road to EB I-290 C-D	Entrance	EB	5	5	Sideswipe-	40%	Rain	40%	Wet	60%	Early	40%	Skidding/Contro	60%
NB Mannheim Road to EB I-290 C-D	Entrance	EB	3	0	Sideswipe-	67%	Clear	67%	Dry	67%	AM Peak	33%	Changing	67%
EB I-290 C-D	Exit	EB	18	6	Rear End	50%	Clear	83%	Dry	56%	AM Peak	39%	Straight Ahead	33%
EB I-290 to 25th Avenue	Exit	EB	3	1	Sideswipe-	67%	Clear	100%	Dry	100%	Midday	67%	Straight Ahead	33%
SB 25th Avenue to EB I-290	Entrance	EB	0	0	(none)		(none)		(none)		0%	(none)	0%	
EB I-290 to NB 25 th Avenue	Exit	EB	5	1	Rear End	60%	Clear	100%	Dry	100%	Midday	40%	Straight Ahead	40%
NB 25th Avenue to EB I-290	Entrance	EB	3	0	Rear End	67%	Clear	100%	Dry	67%	Early	33%	Straight Ahead	33%
EB I-290 to 17th Avenue	Exit	EB	5	1	Fixed Object	40%	Clear	80%	Dry	80%	Early	25%	Straight Ahead	60%
17th Avenue to EB I-290	Entrance	EB	5	0	Fixed Object	40%	Clear	100%	Dry	100%	AM Peak	40%	Straight Ahead	40%
9th Avenue to EB I-290	Entrance	EB	6	1	Rear End	100%	Clear	100%	Dry	83%	AM Peak	33%	Straight Ahead	67%
EB I-290 to 1St Avenue	Exit	EB	2	0	Rear End	50%	Clear	100%	Dry	100%	Midday	100%	Straight Ahead	50%
1St Avenue to EB I-290	Entrance	EB	12	2	Rear End	50%	Clear	83%	Dry	75%	Midday	42%	Straight Ahead	42%
NB 1St Avenue to 1St Avenue Ramp to EB	Entrance	EB	0	0	(none)		(none)		(none)		0%	(none)	0%	
EB I-290 to DES PLAINES Road	Exit	EB	3	0	Rear End	100%	Clear	100%	Dry	67%	AM Peak	33%	Straight Ahead	67%
EB I-290 to Harlem Avenue	Exit	EB	9	13	Sideswipe-	56%	Clear	100%	Dry	100%	Midday	44%	Straight Ahead	44%
Harlem Avenue to EB I-290	Entrance	EB	8	2	Rear End	50%	Clear	88%	Dry	88%	Midday	38%	Straight Ahead	38%
EB I-290 to Austin Blvd	Exit	EB	4	6	Rear End	100%	Clear	100%	Dry	75%	Late Evening	75%	Straight Ahead	75%
Austin Blvd to EB I-290	Entrance	EB	4	0	Fixed Object	50%	Clear	50%	Dry	50%	AM Peak	50%	Skidding/Contro	25%
EB I-290 to Central Avenue	Exit	EB	4	1	Rear End	75%	Clear	75%	Dry	75%	Early	100%	Slow/Stop in	50%
Central Avenue to EB I-290	Entrance	EB	6	1	Rear End	83%	Clear	83%	Dry	83%	AM Peak	50%	Slow/Stop in	50%
Laramie Avenue to EB I-290	Entrance	EB	3	0	Rear End	100%	Clear	100%	Dry	100%	AM Peak	33%	Straight Ahead	100%
EB I-290 to Cicero Avenue	Exit	EB	7	1	Rear End	71%	Clear	100%	Dry	100%	AM Peak	29%	Straight Ahead	71%
Entrance Ramps		14	104	22	Rear End	52%	Clear	83%	Dry	75%	AM Peak	27%	Straight Ahead	39%
Exit Ramps		13	87	36	Rear End	55%	Clear	83%	Dry	71%	Midday	27%	Straight Ahead	46%
Eastbound Total		27	191	58	Rear End	53%	Clear	83%	Dry	73%	Midday	26%	Straight Ahead	42%

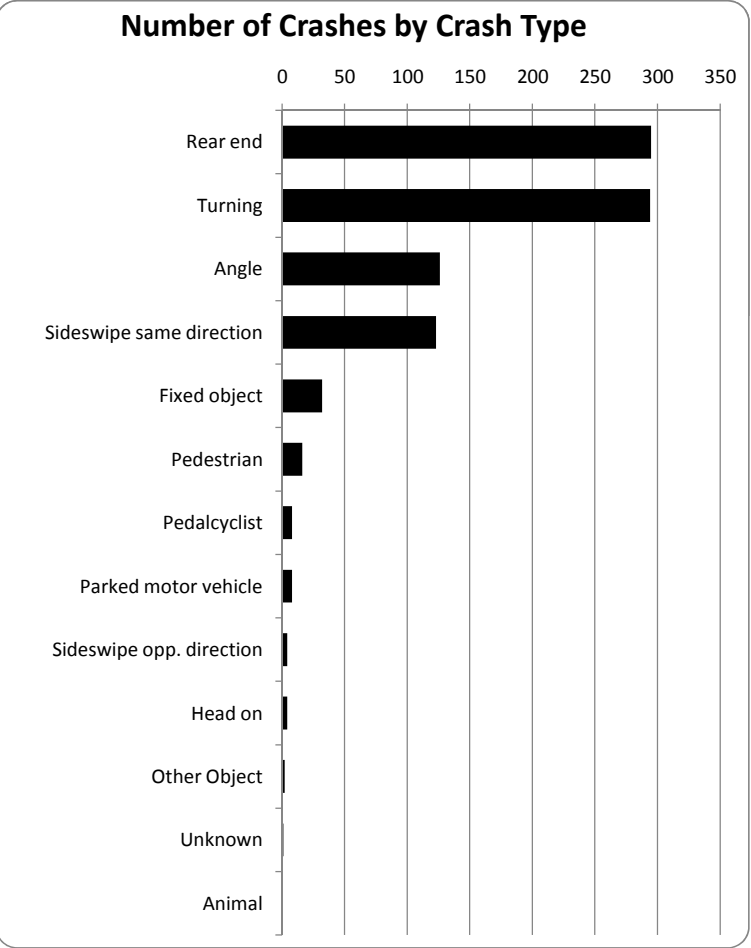
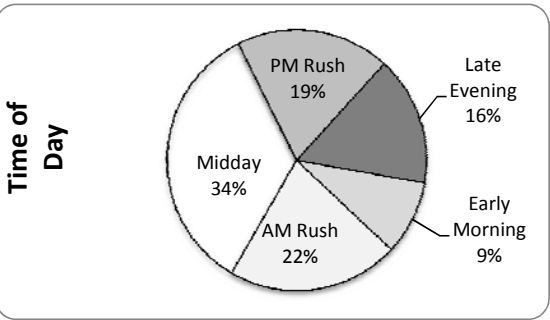
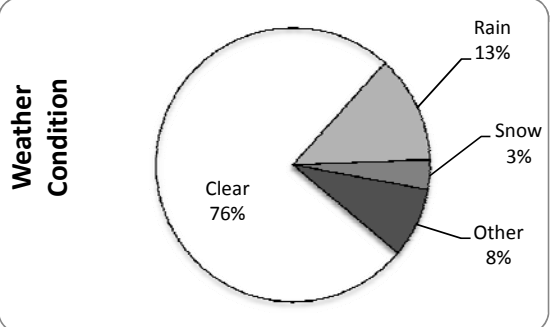
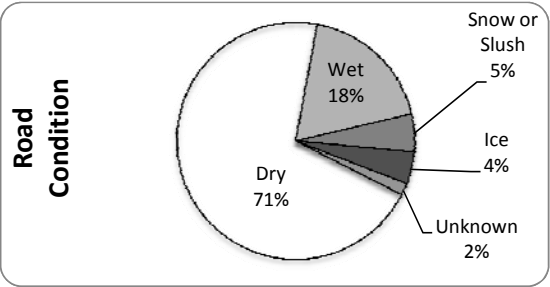
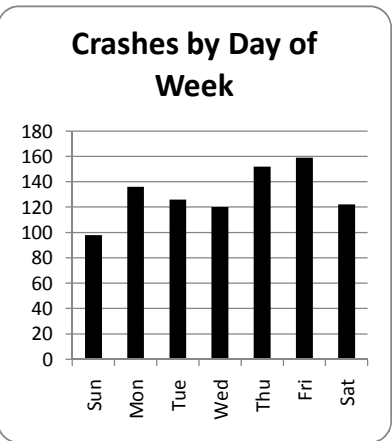
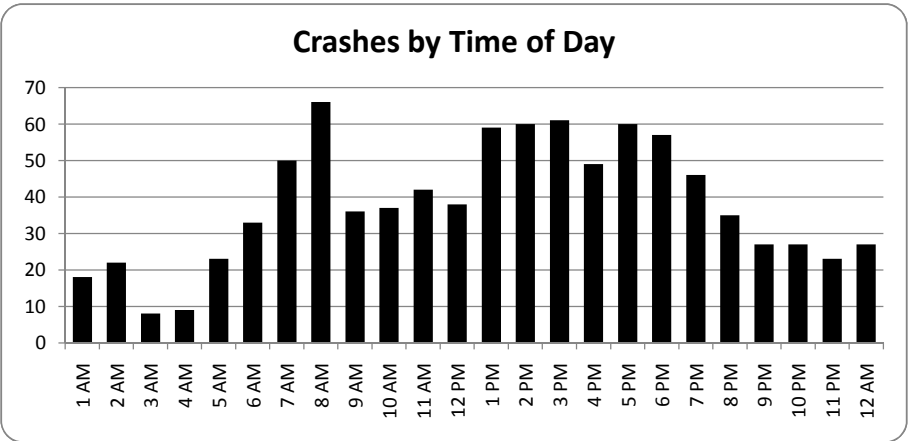
I-290 Ramp Crash Summary (2006, 2007, 2008)

Ramp	Exit/Entrance	I-290 Direction	Total Crashes	Total Injuries	Predominant Crash Factors									
					Crash Type		Weather		Road Condition		Time Period		Cause	
WB I-290 to Wolf Road	Exit	WB	1	0	Overtaken	100%	Clear	100%	Dry	100%	Late Evening	100%	Straight Ahead	100%
SB Mannheim Road to WB I-290	Entrance	WB	10	1	Rear End	60%	Clear	90%	Dry	70%	Midday	40%	Straight Ahead	40%
NB Mannheim Road to WB I-290	Entrance	WB	9	4	Overtaken	44%	Clear	89%	Dry	89%	Midday	56%	Straight Ahead	44%
WB I-290 to Mannheim Road	Exit	WB	16	2	Fixed Object	56%	Clear	69%	Dry	63%	Early	44%	Straight Ahead	56%
25th Avenue to WB I-290	Entrance	WB	1	0	Rear End	100%	Clear	100%	Dry	100%	Midday	100%	Straight Ahead	100%
WB I-290 to SB 25th Avenue	Exit	WB	6	0	Rear End	83%	Clear	83%	Dry	67%	Midday	40%	Straight Ahead	67%
WB I-290 to NB 25th Avenue	Exit	WB	8	0	Rear End	100%	Clear	75%	Dry	75%	Midday	63%	Straight Ahead	75%
17th Avenue to WB I-290	Entrance	WB	1	0	Rear End	100%	Clear	100%	Dry	100%	PM Peak	100%	Straight Ahead	100%
WB I-290 to 17th Avenue	Exit	WB	0	0	(none)		(none)		(none)		(none)	0%	(none)	0%
WB I-290 to 9th Avenue	Exit	WB	1	4	Rear End	100%	Clear	100%	Dry	100%	Early	100%	Straight Ahead	100%
1St Avenue to WB I-290	Entrance	WB	6	1	Rear End	100%	Clear	100%	Dry	100%	AM Peak	33%	Straight Ahead	50%
WB I-290 to 1St Avenue	Exit	WB	4	0	Rear End	50%	Rain	50%	Dry	50%	AM Peak	25%	Unknown	75%
DES PLAINES Road to WB I-290	Entrance	WB	2	0	Rear End	100%	Clear	100%	Dry	100%	AM Peak	50%	Straight Ahead	50%
Harlem Avenue to WB I-290	Entrance	WB	13	2	Rear End	85%	Clear	92%	Dry	85%	Late Evening	38%	Straight Ahead	62%
WB I-290 to Harlem Avenue	Exit	WB	14	3	Rear End	71%	Clear	86%	Dry	86%	Late Evening	50%	Straight Ahead	57%
Austin Blvd to WB I-290	Entrance	WB	6	2	Rear End	67%	Clear	100%	Dry	83%	Late Evening	50%	Straight Ahead	33%
WB I-290 to Austin Blvd	Exit	WB	10	2	Rear End	80%	Clear	90%	Dry	90%	AM Peak	30%	Straight Ahead	60%
Central Avenue to WB I-290	Entrance	WB	3	2	Rear End	100%	Clear	100%	Dry	100%	Midday	33%	Straight Ahead	100%
WB I-290 to Central Ave	Exit	WB	2	0	Fixed Object	100%	Clear	50%	Dry	100%	Late Evening	100%	Skidding/Contro	50%
WB I-290 to Laramie Avenue	Exit	WB	1	0	Rear End	100%	Clear	100%	Dry	100%	Midday	100%	Straight Ahead	100%
Cicero Avenue to WB I-290	Entrance	WB	5	1	Rear End	100%	Clear	100%	Dry	100%	Midday	60%	Straight Ahead	80%
Entrance Ramps		10	56	13	Rear End	75%	Clear	95%	Dry	88%	Midday	38%	Straight Ahead	55%
Exit Ramps		11	63	11	Rear End	63%	Clear	78%	Dry	76%	Midday	29%	Straight Ahead	60%
Westbound Total		21	119	24	Rear End	69%	Clear	86%	Dry	82%	Midday	33%	Straight Ahead	58%
Ramp Total			310	82	Rear End	59%	Clear	84%	Dry	76%	Midday	29%	Straight Ahead	48%

Technical Memorandum

Appendix G

Crossroad Crash Summary Reports



Cross Road	Crossroad Total
Total Length	1.76 Miles
Total Crashes	913
Crash Rate	518.8 crashes/mile

Injury Statistics	Fatal	0
	A Injury	22
	B & C Injury	165
	Total Injuries	187
Injury Rate		106.3 Injuries/mile

Predominant Crash Factors

Crash Type:	Rear end	32%
Weather Condition:	Clear	76%
Road Condition:	Dry	70%
Lighting Condition:	Daylight	63%
Time of Day:	Midday	33%
Vehicle Type:	No Data	

Illinois Department of Transportation

I-290 Preliminary Engineering and Environmental Study (Phase I)

Three Year Crash Statistics

2006, 2007, 2008

Cross Road

25th Ave

I-290 Access: Full - Direct/Slip Ramps

Length 0.30 Miles

Total Crashes 102

Crash Rate 340.0
crashes/mile

Injury Statistics	Fatal	0
	A Injury	1
	B & C Injury	27
	Total Injuries	28
Injury Rate		93.3 Injuries/mile

Predominant Crash Factors

Crash Type:	Rear end	48%
Weather Condition:	Clear	81%
Road Condition:	Dry	75%
Lighting Condition:	Daylight	72%
Time of Day:	Midday	38%
Vehicle Type:	No Data	

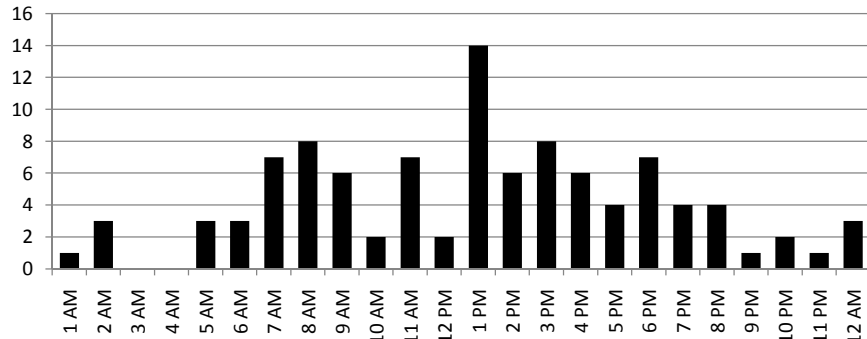


I-290 Preliminary Engineering and Environmental Study (Phase I)

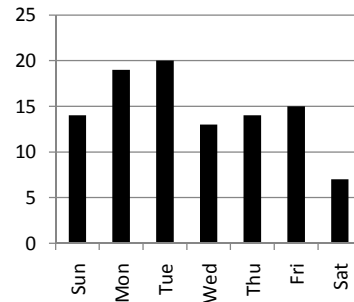
Three Year Crash Statistics

2006, 2007, 2008

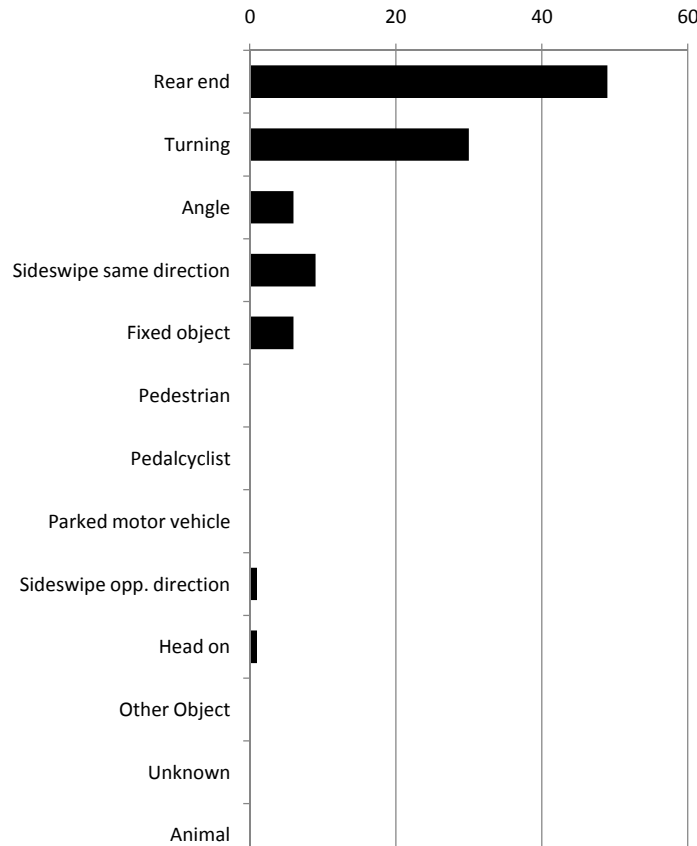
Crashes by Time of Day



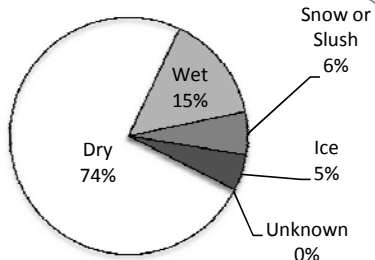
Crashes by Day of Week



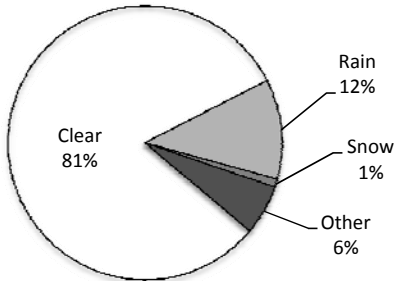
Number of Crashes by Crash Type



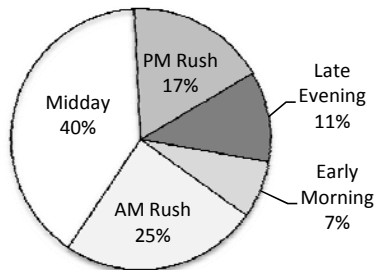
Road Condition



Weather Condition



Time of Day



Cross Road

17th Ave

I-290 Access: Full - Slip Ramp

Length 0.06 Miles

Total Crashes 39

Crash Rate 650.0
crashes/mile

Injury Statistics	Fatal	0
	A Injury	3
	B & C Injury	7
	Total Injuries	10
Injury Rate		166.7 Injuries/mile

Predominant Crash Factors

Crash Type:	Rear end	36%
Weather Condition:	Clear	79%
Road Condition:	Dry	69%
Lighting Condition:	Daylight	54%
Time of Day:	Midday	26%
Vehicle Type:	No Data	



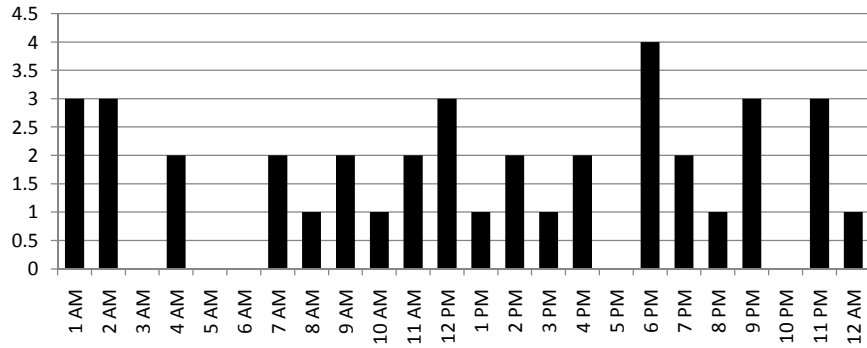
Illinois Department of Transportation

I-290 Preliminary Engineering and Environmental Study (Phase I)

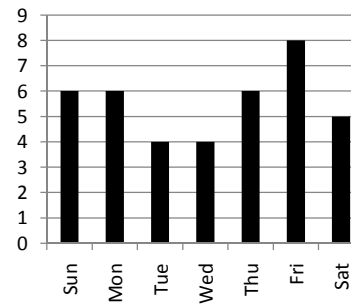
Three Year Crash Statistics

2006, 2007, 2008

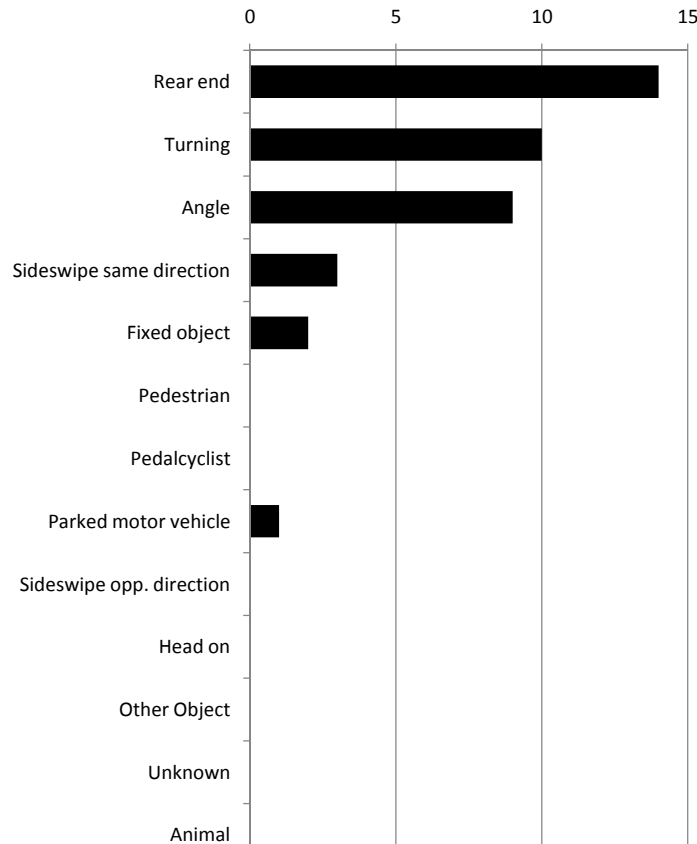
Crashes by Time of Day



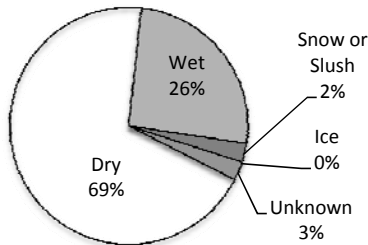
Crashes by Day of Week



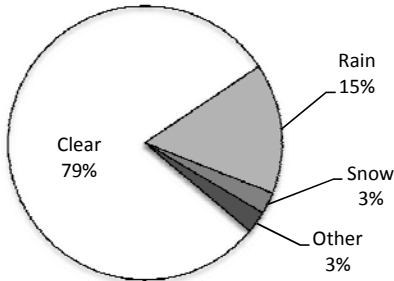
Number of Crashes by Crash Type



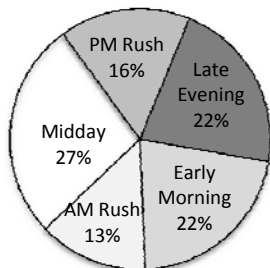
Road Condition



Weather Condition



Time of Day



Cross Road **9th Ave**

I-290 Access: Partial - Slip Ramp

Length 0.05 Miles

Total Crashes 40

Crash Rate 800.0
crashes/mile

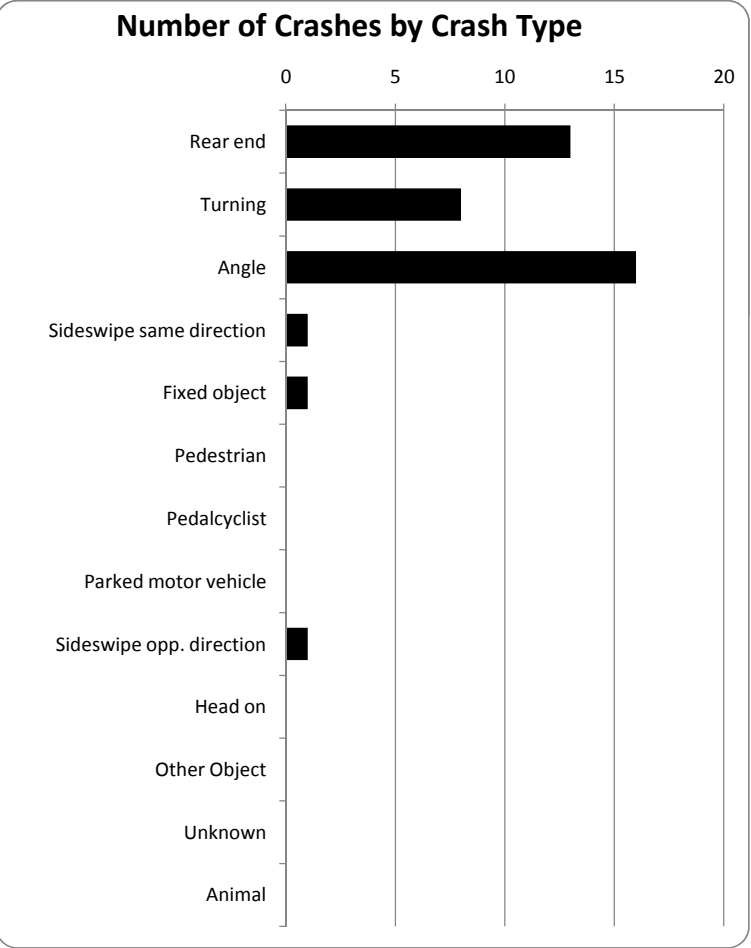
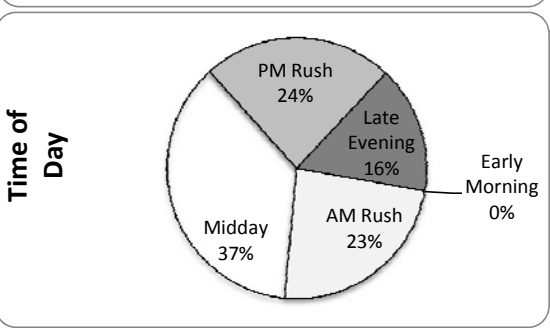
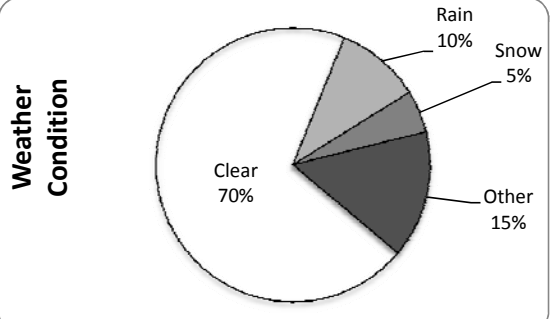
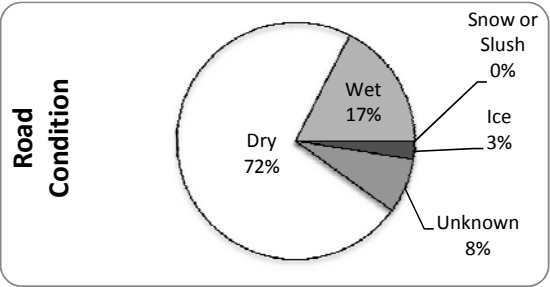
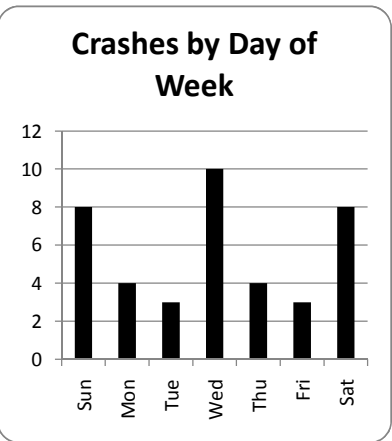
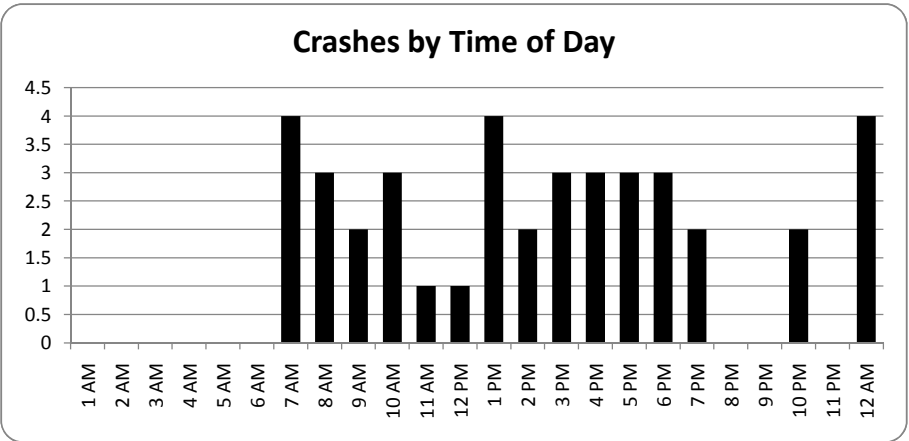
Injury Statistics	Fatal	0
	A Injury	1
	B & C Injury	5
	Total Injuries	6
Injury Rate		120.0 Injuries/mile

Predominant Crash Factors		
Crash Type:	Angle	40%
Weather Condition:	Clear	70%
Road Condition:	Dry	73%
Lighting Condition:	Daylight	65%
Time of Day:	Midday	35%
Vehicle Type:	No Data	



I-290 Preliminary Engineering and Environmental Study (Phase I)

Three Year Crash Statistics
2006, 2007, 2008



Cross Road

5th Ave

I-290 Access: No Access

Length 0.04 Miles

Total Crashes 24

Crash Rate 600.0
crashes/mile

Injury Statistics	Fatal	0
	A Injury	0
	B & C Injury	6
	Total Injuries	6
Injury Rate		150.0 Injuries/mile

Predominant Crash Factors

Crash Type:	Angle	46%
Weather Condition:	Clear	71%
Road Condition:	Dry	58%
Lighting Condition:	Daylight	75%
Time of Day:	Midday	33%
Vehicle Type:	No Data	



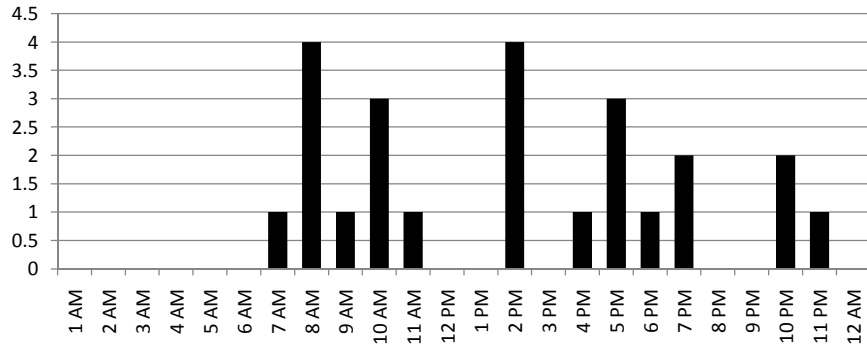
Illinois Department of Transportation

I-290 Preliminary Engineering and Environmental Study (Phase I)

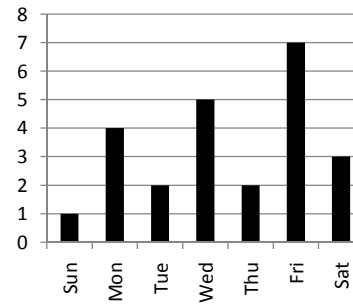
Three Year Crash Statistics

2006, 2007, 2008

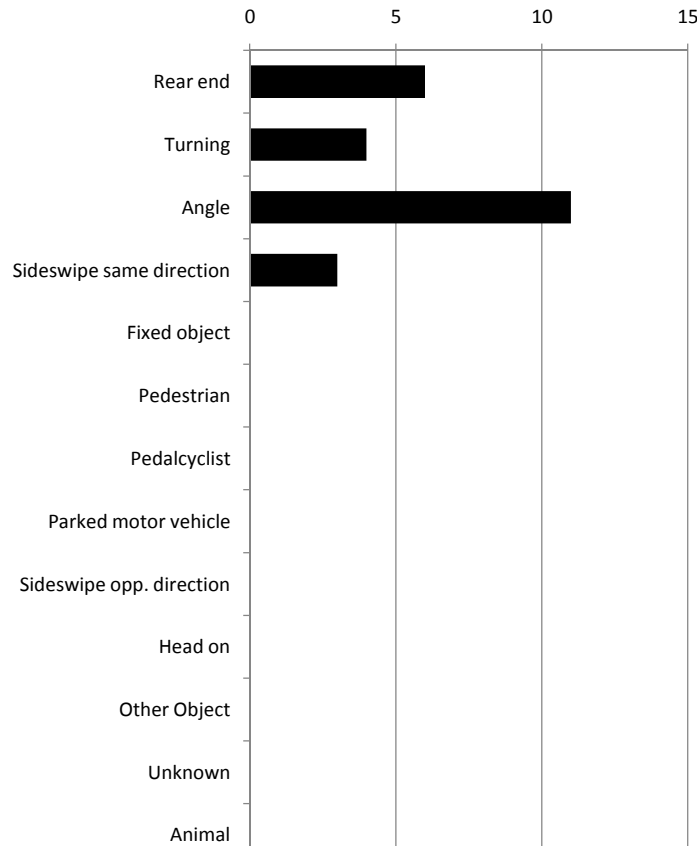
Crashes by Time of Day



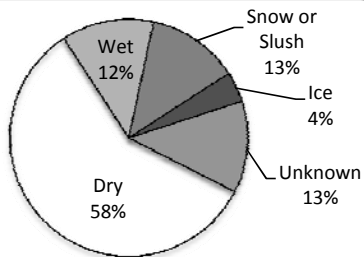
Crashes by Day of Week



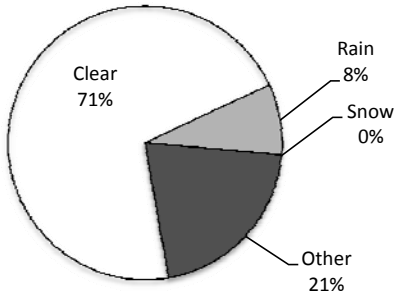
Number of Crashes by Crash Type



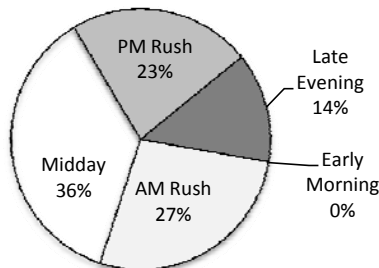
Road Condition



Weather Condition



Time of Day



Cross Road **1ST Ave (IL 171)**

I-290 Access: Full - Slip Ramp

Length 0.13 Miles

Total Crashes **101**

Crash Rate **776.9**
crashes/mile

Injury Statistics	Fatal	0
	A Injury	2
	B & C Injury	9
	Total Injuries	11
	Injury Rate	84.6 Injuries/mile

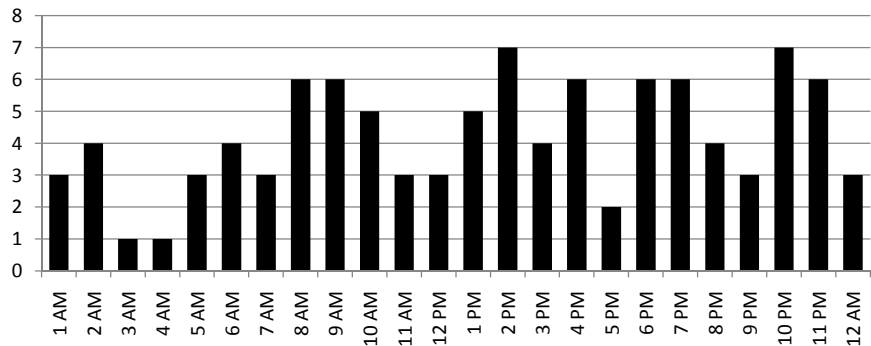
Predominant Crash Factors		
Crash Type:	Rear end	40%
Weather Condition:	Clear	77%
Road Condition:	Dry	73%
Lighting Condition:	Daylight	56%
Time of Day:	Midday	27%
Vehicle Type:	No Data	



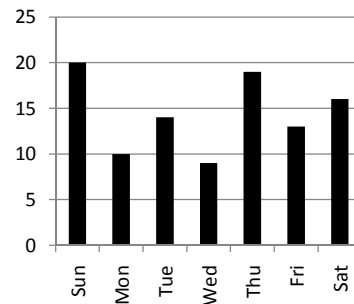
I-290 Preliminary Engineering and Environmental Study (Phase I)

Three Year Crash Statistics
2006, 2007, 2008

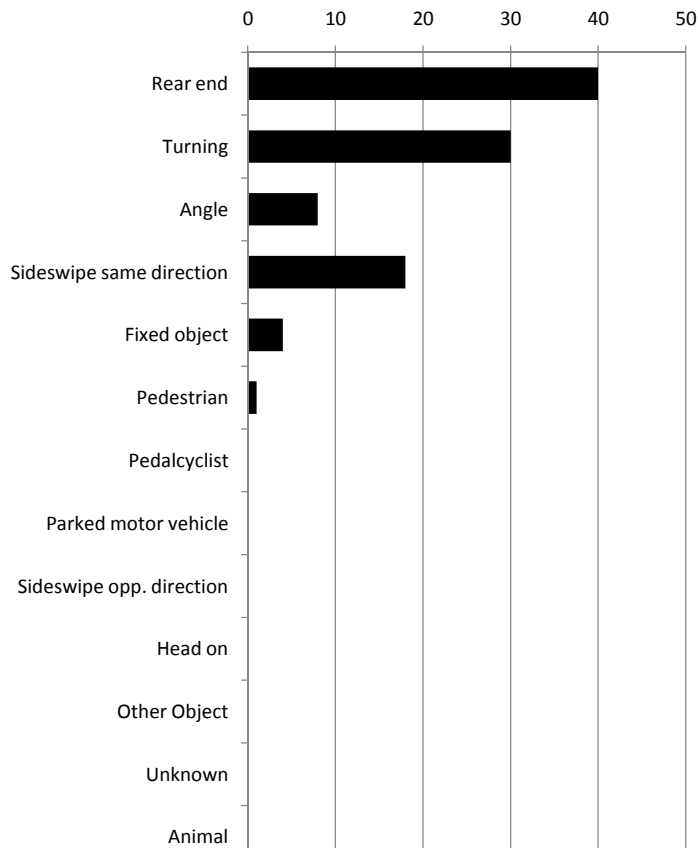
Crashes by Time of Day



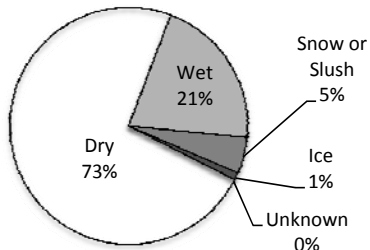
Crashes by Day of Week



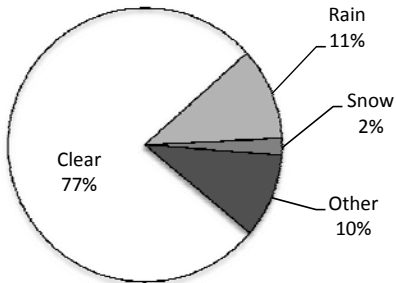
Number of Crashes by Crash Type



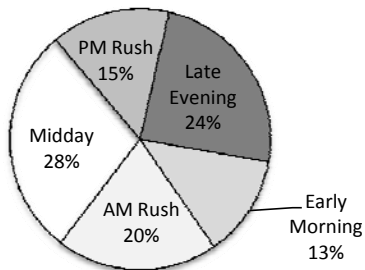
Road Condition



Weather Condition



Time of Day



Cross Road **Des Plaines Ave**

I-290 Access: Partial - Diamond

Length 0.11 Miles

Total Crashes 38

Crash Rate 345.5
crashes/mile

Injury Statistics	Fatal	0
	A Injury	0
	B & C Injury	7
	Total Injuries	7
Injury Rate		63.6 Injuries/mile

Predominant Crash Factors

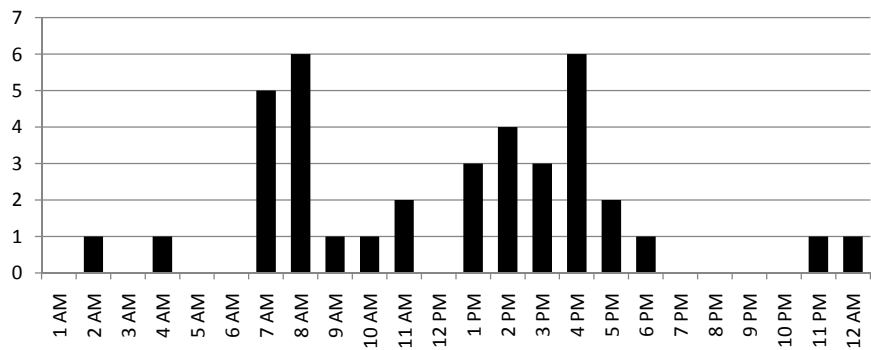
Crash Type:	Rear end	45%
Weather Condition:	Clear	63%
Road Condition:	Dry	55%
Lighting Condition:	Daylight	79%
Time of Day:	Midday	34%
Vehicle Type:	No Data	



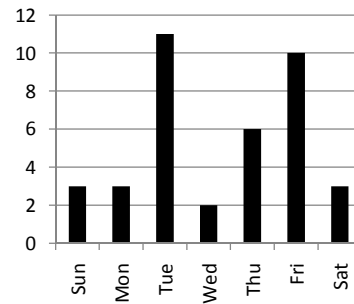
I-290 Preliminary Engineering and Environmental Study (Phase I)

Three Year Crash Statistics
2006, 2007, 2008

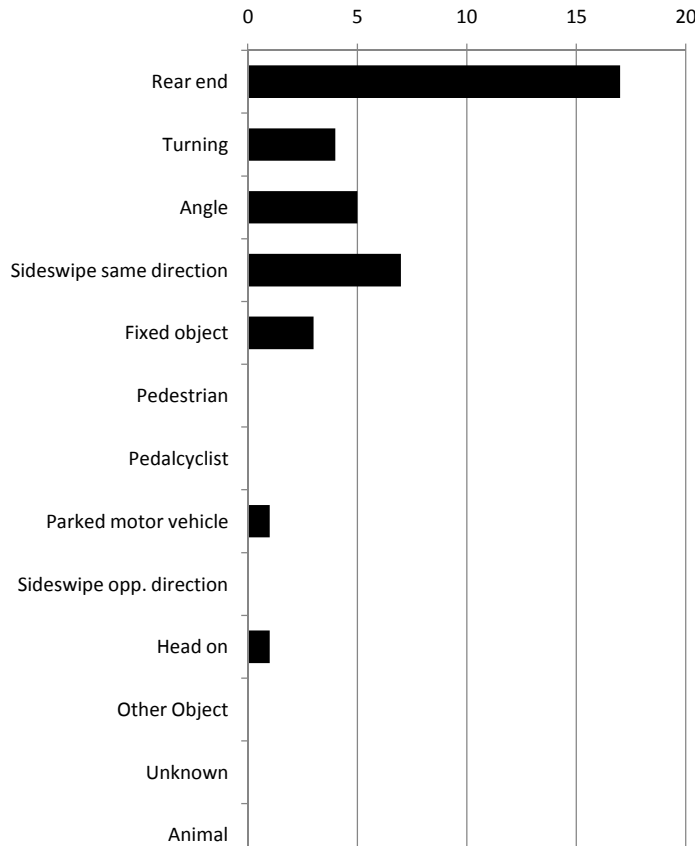
Crashes by Time of Day



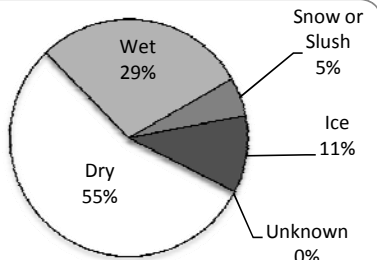
Crashes by Day of Week



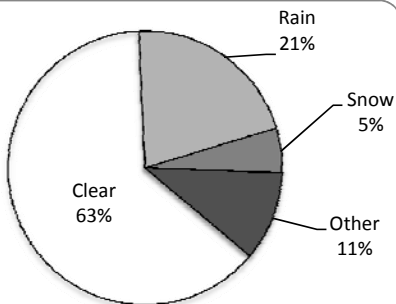
Number of Crashes by Crash Type



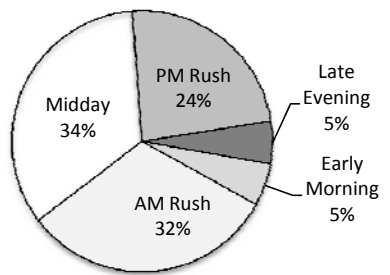
Road Condition



Weather Condition



Time of Day



Cross Road **Harlem Ave**

I-290 Access: Full - Single Point

Length 0.15 Miles

Total Crashes 163

Crash Rate 1086.7
crashes/mile

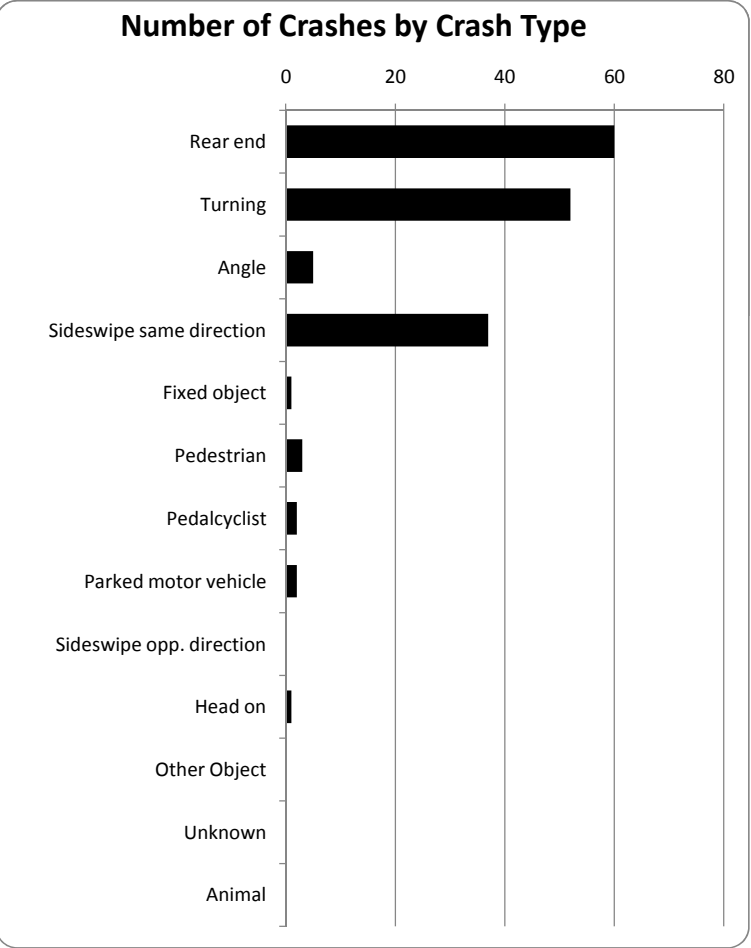
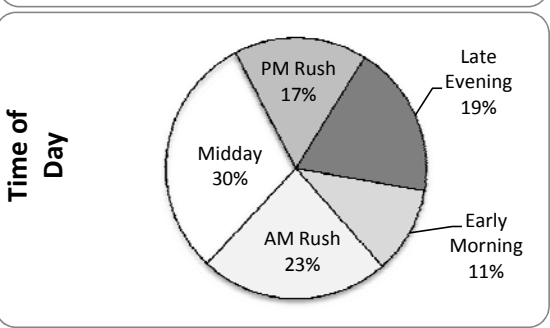
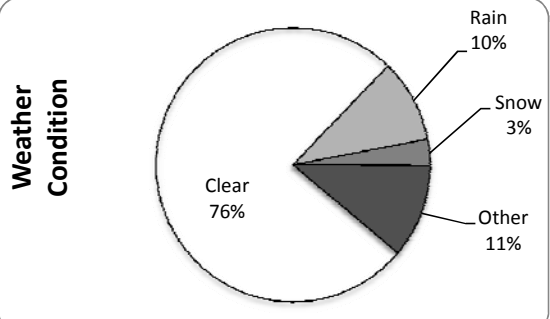
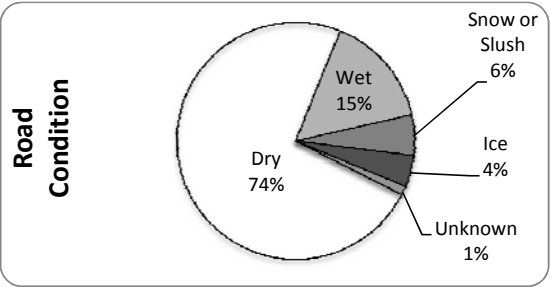
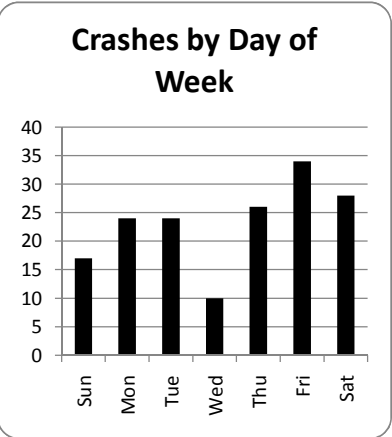
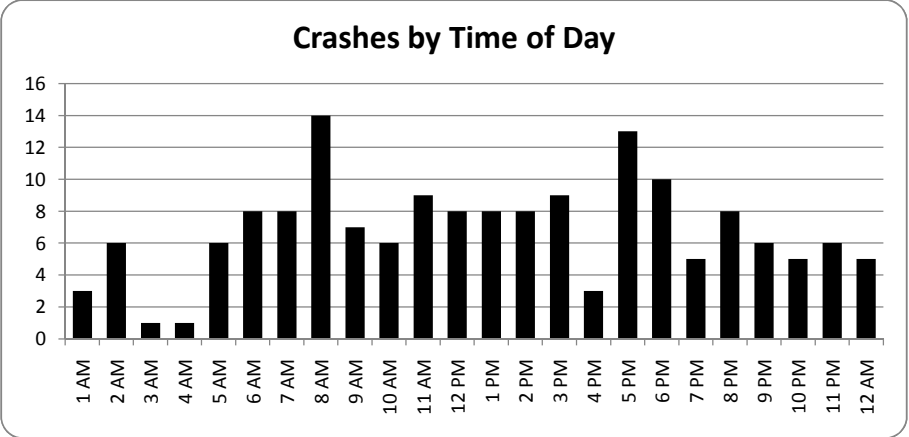
Injury Statistics	Fatal	0
	A Injury	3
	B & C Injury	20
	Total Injuries	23
Injury Rate		153.3 Injuries/mile

Predominant Crash Factors		
Crash Type:	Rear end	37%
Weather Condition:	Clear	76%
Road Condition:	Dry	74%
Lighting Condition:	Daylight	59%
Time of Day:	Midday	29%
Vehicle Type:	No Data	



I-290 Preliminary Engineering and Environmental Study (Phase I)

Three Year Crash Statistics
2006, 2007, 2008



Cross Road **Austin Blvd**

I-290 Access: Full - Single Point

Length 0.03 Miles

Total Crashes 114

Crash Rate 3800.0
crashes/mile

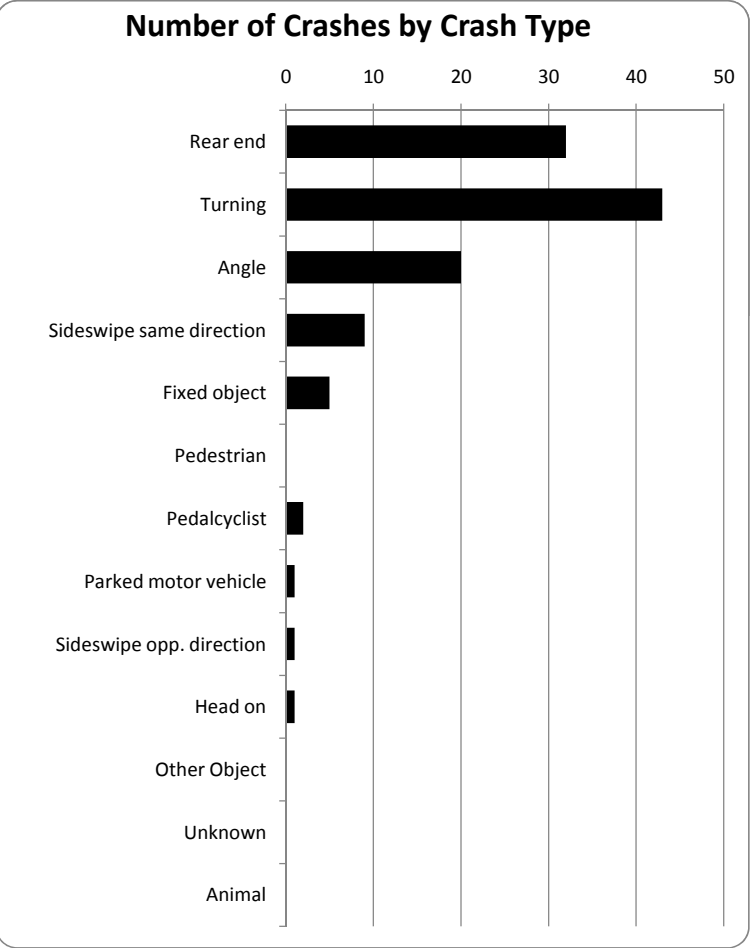
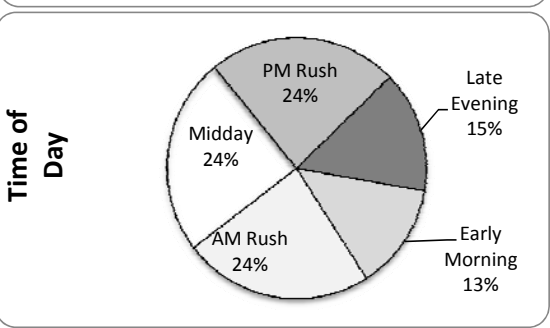
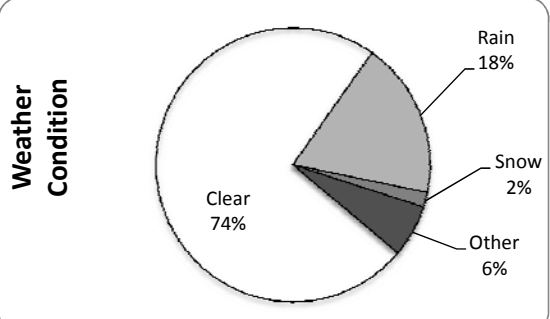
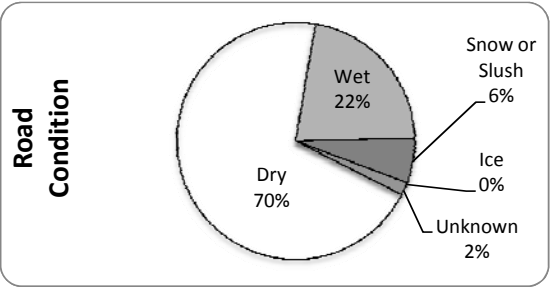
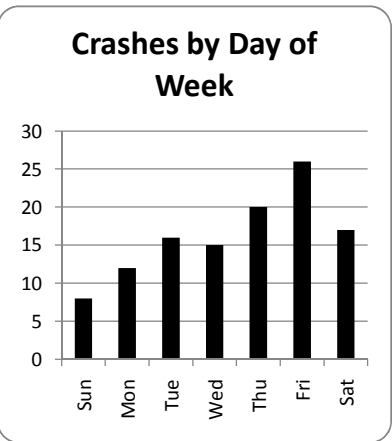
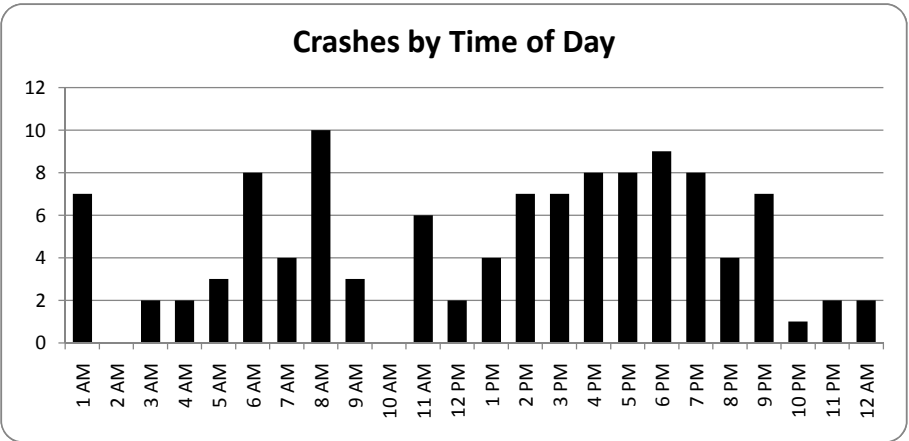
Injury Statistics	Fatal	0
	A Injury	2
	B & C Injury	24
	Total Injuries	26
	Injury Rate	866.7 Injuries/mile

Predominant Crash Factors		
Crash Type:	Turning	38%
Weather Condition:	Clear	74%
Road Condition:	Dry	70%
Lighting Condition:	Daylight	57%
Time of Day:	Midday	23%
Vehicle Type:	No Data	



I-290 Preliminary Engineering and Environmental Study (Phase I)

Three Year Crash Statistics
2006, 2007, 2008



Cross Road

Central Ave

I-290 Access: Full - Diamond

Length 0.08 Miles

Total Crashes 57

Crash Rate 712.5
crashes/mile

Injury Statistics	Fatal	0
	A Injury	2
	B & C Injury	18
	Total Injuries	20
	Injury Rate	250.0 Injuries/mile

Predominant Crash Factors

Crash Type:	Turning	28%
Weather Condition:	Clear	74%
Road Condition:	Dry	68%
Lighting Condition:	Daylight	60%
Time of Day:	Midday	35%
Vehicle Type:	No Data	



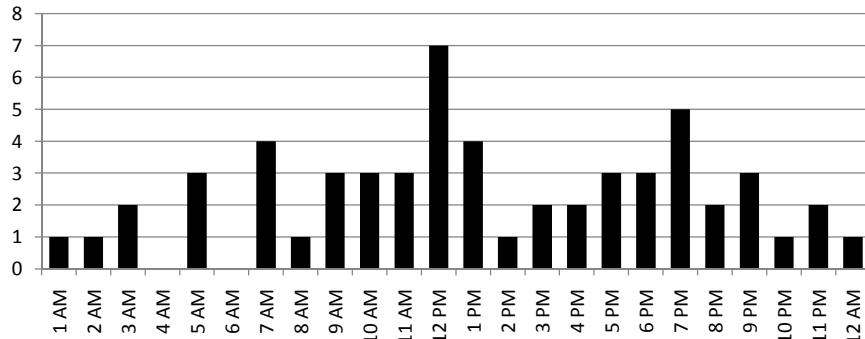
Illinois Department of Transportation

I-290 Preliminary Engineering and Environmental Study (Phase I)

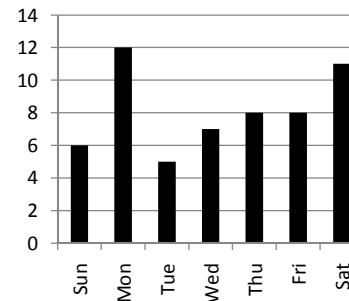
Three Year Crash Statistics

2006, 2007, 2008

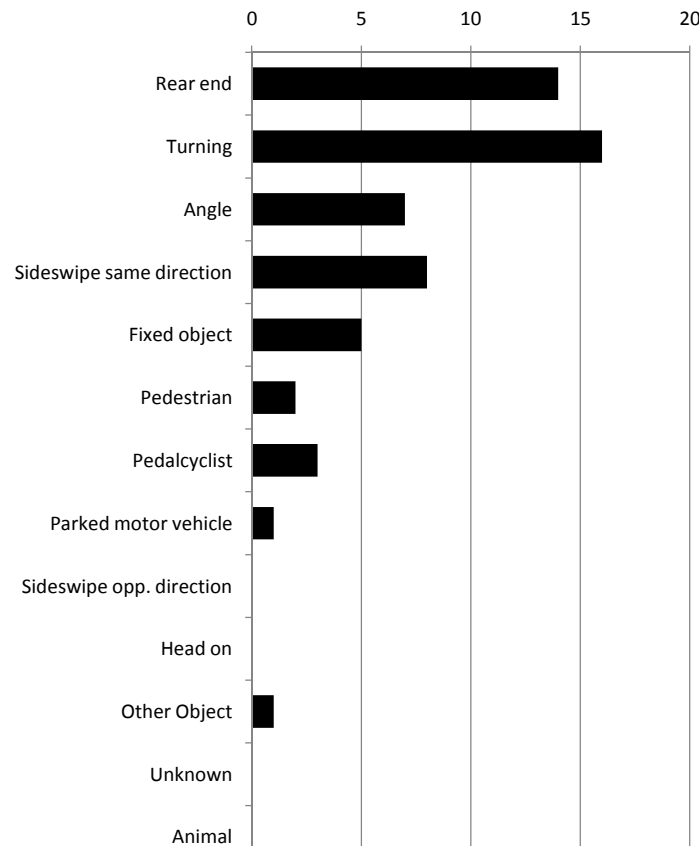
Crashes by Time of Day



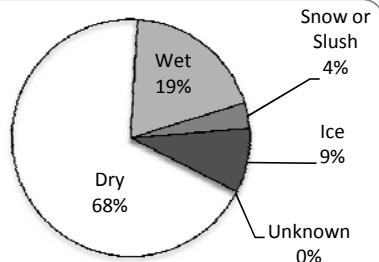
Crashes by Day of Week



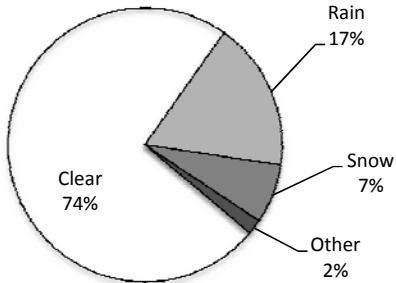
Number of Crashes by Crash Type



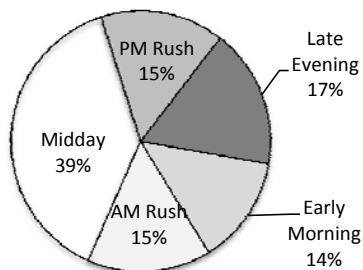
Road Condition



Weather Condition



Time of Day



Cross Road **Laramie Ave**

I-290 Access: Partial - Slip Ramp

Length 0.06 Miles

Total Crashes 51

Crash Rate 850.0
crashes/mile

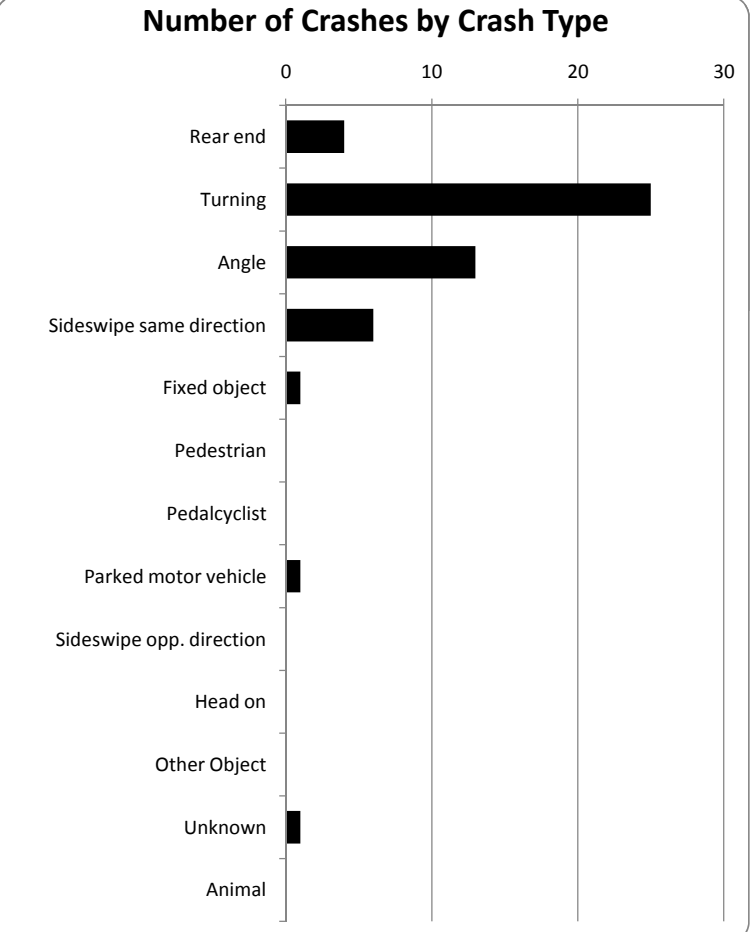
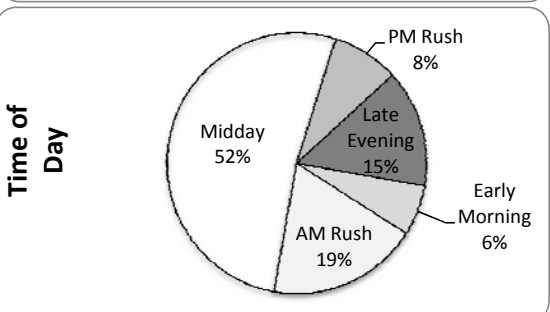
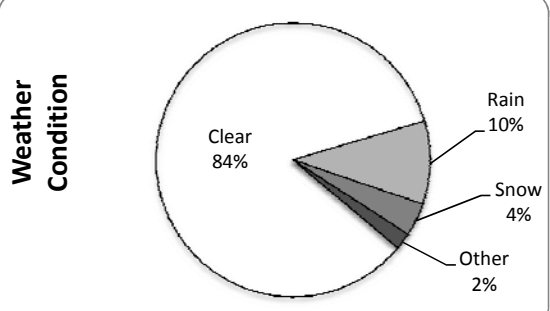
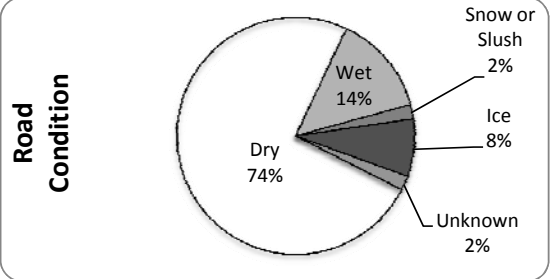
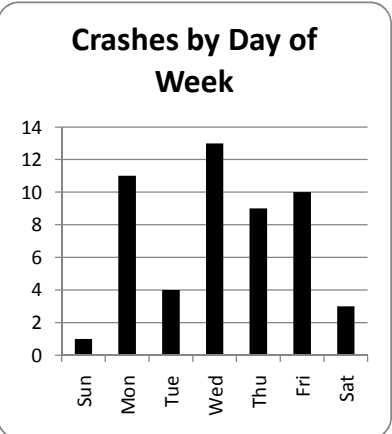
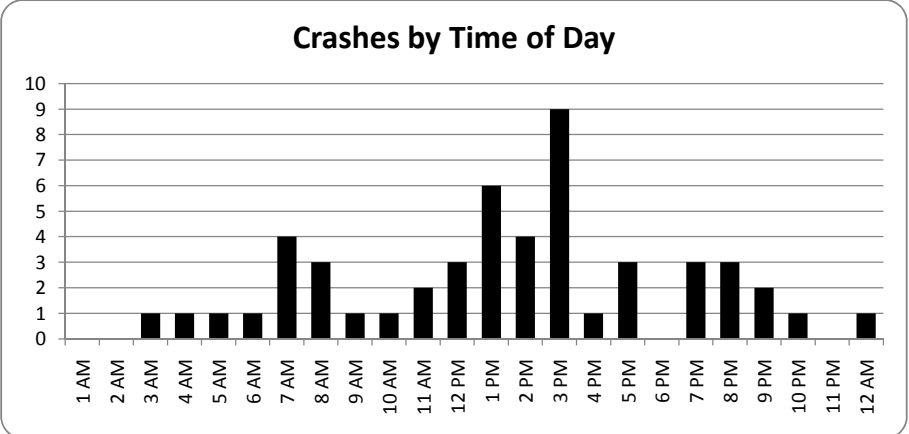
Injury Statistics	Fatal	0
	A Injury	1
	B & C Injury	11
	Total Injuries	12
Injury Rate		200.0 Injuries/mile

Predominant Crash Factors		
Crash Type:	Turning	49%
Weather Condition:	Clear	84%
Road Condition:	Dry	75%
Lighting Condition:	Daylight	69%
Time of Day:	Midday	49%
Vehicle Type:	No Data	

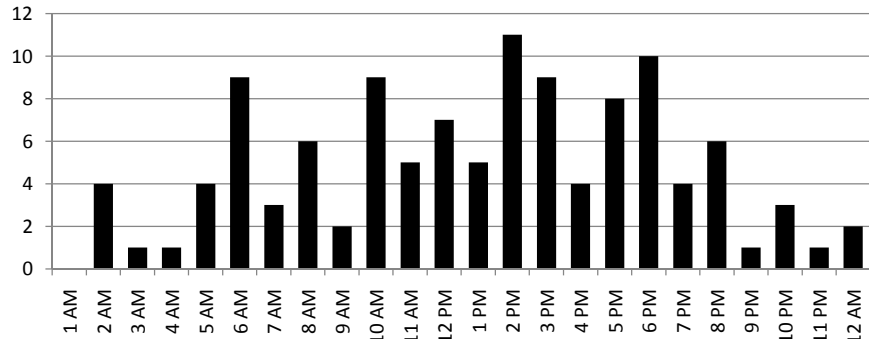


I-290 Preliminary Engineering and Environmental Study (Phase I)

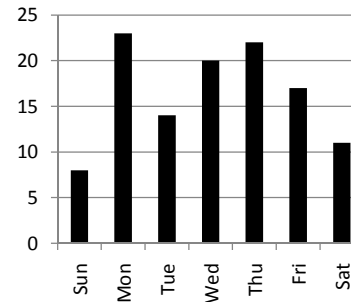
Three Year Crash Statistics
2006, 2007, 2008



Crashes by Time of Day



Crashes by Day of Week



Cross Road **Cicero Ave (IL 50)**

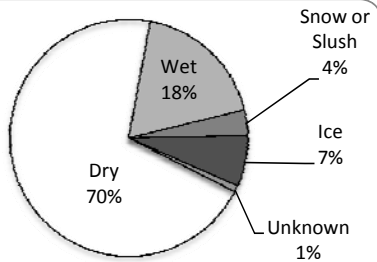
I-290 Access: Partial - Slip Ramp

Length 0.16 Miles

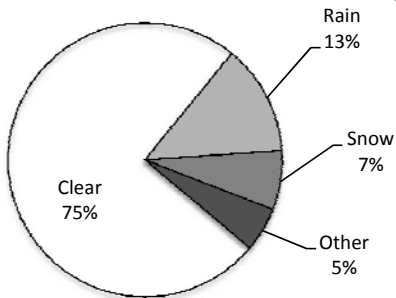
Total Crashes 115

Crash Rate 718.8
crashes/mile

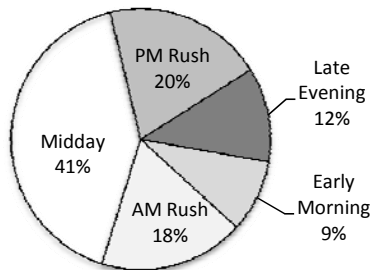
Road Condition



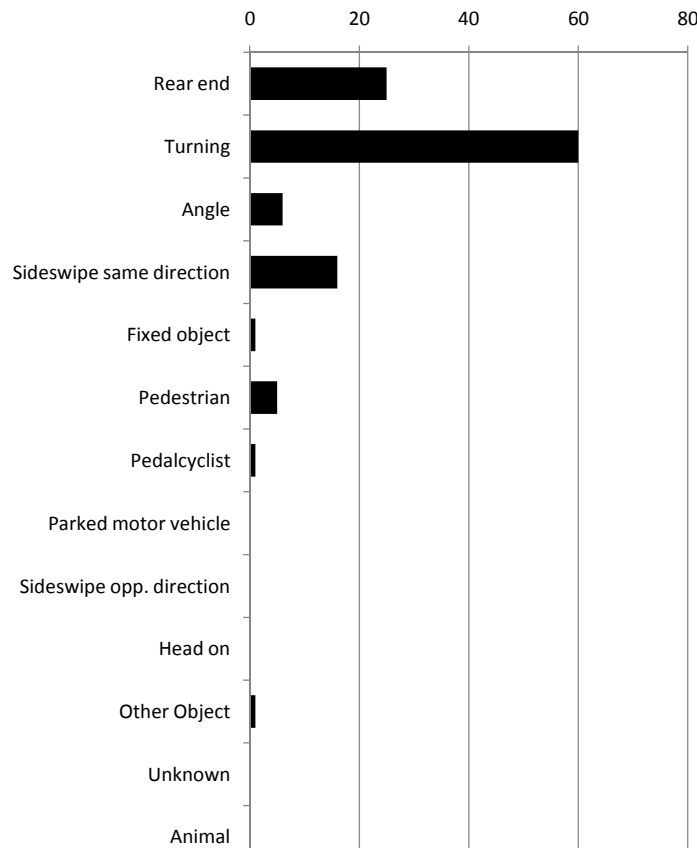
Weather Condition



Time of Day



Number of Crashes by Crash Type



Injury Statistics	Fatal	0
	A Injury	3
	B & C Injury	16
	Total Injuries	19
Injury Rate		118.8 Injuries/mile

Predominant Crash Factors

Crash Type:	Turning	52%
Weather Condition:	Clear	75%
Road Condition:	Dry	70%
Lighting Condition:	Daylight	65%
Time of Day:	Midday	40%
Vehicle Type:	No Data	



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Three Year Crash Statistics

2006, 2007, 2008

Technical Memorandum

Appendix H

Cross Road Crash Statistics

Individual Cross Road Crash Statistics - Listed by Rank

Time Period	# of Crashes	% of All Crashes	Predominant Crash Type			Dry	Wet	Ice Snow Slush	
			Rear end	Turning	Sideswipe same direction				
Harlem Ave Access: Full - Single Point Rank = 1									
AM Peak	6a to 11a	43	26%	26%	30%	40%	79%	7%	9%
Middy	11a to 4p	42	26%	50%	17%	24%	79%	2%	5%
PM Peak	4p to 7p	26	16%	38%	42%	8%	77%	12%	12%
Congested Period	6a to 11p	135	83%	37%	31%	25%	77%	13%	7%
Total Crashes		163	100%	37%	32%	23%	74%	15%	7%
Cicero Ave (IL 50) Access: Partial - Slip Ramp Rank = 2									
AM Peak	6a to 11a	29	25%	3%	66%	21%	66%	24%	3%
Middy	11a to 4p	37	32%	32%	46%	11%	76%	3%	8%
PM Peak	4p to 7p	22	19%	23%	64%	9%	59%	32%	0%
Congested Period	6a to 11p	102	89%	21%	55%	14%	69%	20%	4%
Total Crashes		115	100%	22%	52%	14%	70%	18%	4%
Austin Blvd Access: Full - Single Point Angle Rank = 3									
AM Peak	6a to 11a	25	22%	36%	36%	20%	68%	20%	8%
Middy	11a to 4p	26	23%	31%	31%	27%	65%	4%	4%
PM Peak	4p to 7p	25	22%	24%	40%	24%	68%	20%	12%
Congested Period	6a to 11p	96	84%	28%	36%	21%	70%	22%	7%
Total Crashes		114	100%	28%	38%	18%	70%	22%	7%
25th Ave Access: Full - Direct/Slip Ramps Rank = 4									
AM Peak	6a to 11a	26	25%	50%	19%	23%	69%	19%	8%
Middy	11a to 4p	37	36%	57%	30%	3%	81%	3%	0%
PM Peak	4p to 7p	17	17%	35%	41%	6%	76%	6%	12%
Congested Period	6a to 11p	91	89%	48%	31%	10%	73%	16%	7%
Total Crashes		102	100%	48%	29%	9%	75%	15%	6%
1st Ave (IL 171) Access: Full - Slip Ramp Rank = 5									
AM Peak	6a to 11a	24	24%	42%	33%	13%	75%	25%	0%
Middy	11a to 4p	22	22%	27%	36%	23%	68%	5%	9%
PM Peak	4p to 7p	14	14%	43%	21%	29%	79%	14%	7%
Congested Period	6a to 11p	80	79%	41%	29%	19%	71%	24%	4%
Total Crashes		101	100%	40%	30%	18%	73%	21%	5%
Central Ave Access: Full - Diamond Rank = 6									
AM Peak	6a to 11a	11	19%	9%	27%	18%	55%	27%	18%
Middy	11a to 4p	17	30%	18%	41%	24%	82%	6%	0%
PM Peak	4p to 7p	8	14%	25%	13%	13%	50%	25%	0%
Congested Period	6a to 11p	47	82%	23%	28%	17%	68%	17%	4%
Total Crashes		57	100%	25%	28%	14%	68%	19%	4%
Laramie Ave Access: Partial - Slip Ramp Rank = 7									
AM Peak	6a to 11a	10	20%	10%	40%	20%	60%	20%	10%
Middy	11a to 4p	24	47%	4%	54%	8%	83%	4%	4%
PM Peak	4p to 7p	4	8%	0%	75%	0%	50%	25%	0%
Congested Period	6a to 11p	47	92%	6%	47%	13%	74%	13%	4%
Total Crashes		51	100%	8%	49%	12%	75%	14%	4%
9th Ave Access: Partial - Slip Ramp Rank = 8									
AM Peak	6a to 11a	12	30%	33%	25%	0%	67%	33%	0%
Middy	11a to 4p	11	28%	18%	36%	0%	73%	9%	9%
PM Peak	4p to 7p	9	23%	44%	11%	0%	78%	11%	0%
Congested Period	6a to 11p	36	90%	36%	22%	3%	69%	19%	8%
Total Crashes		40	100%	33%	20%	3%	73%	18%	8%

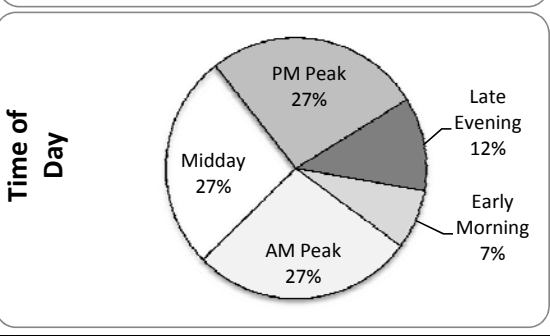
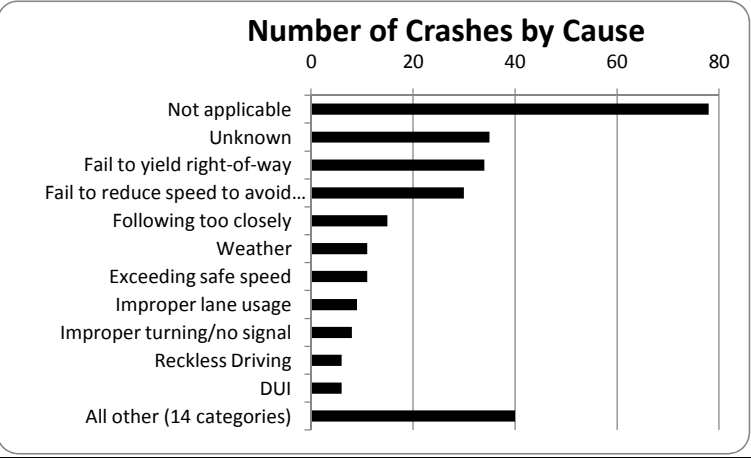
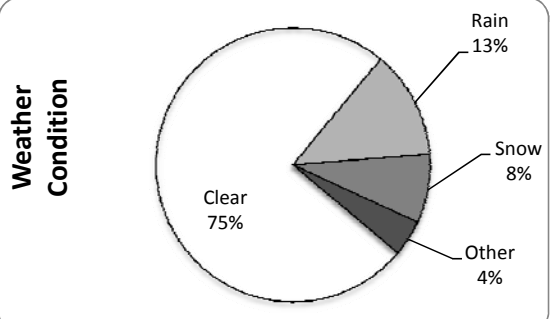
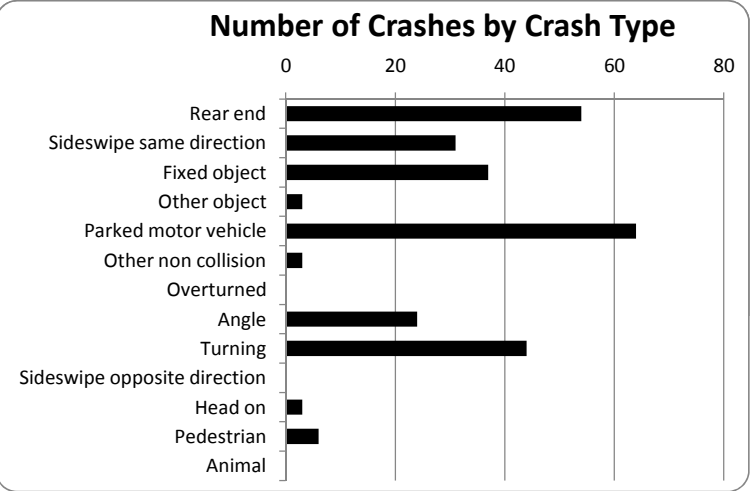
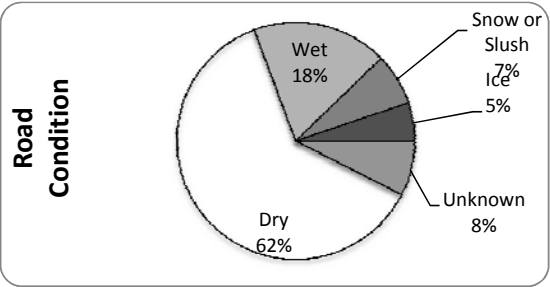
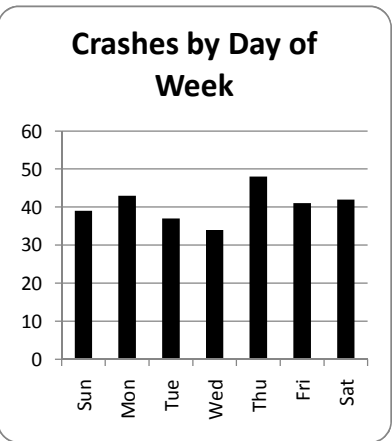
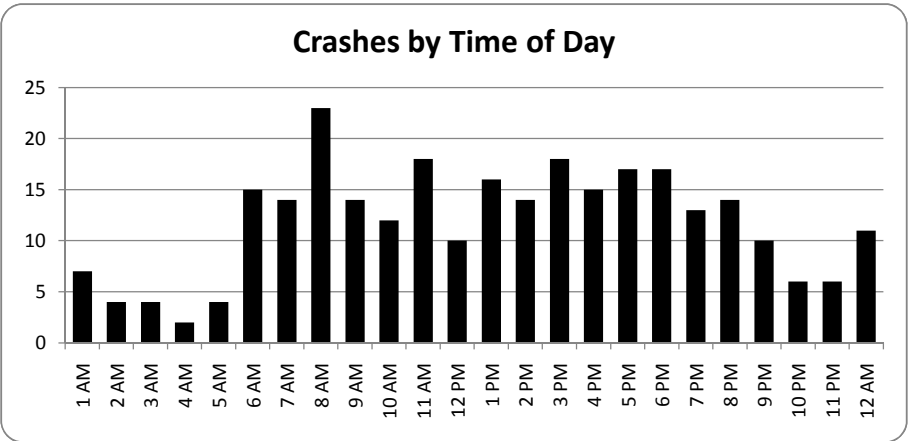
Individual Cross Road Crash Statistics - Listed by Rank

Time Period	# of Crashes	% of All Crashes	Predominant Crash Type			Dry	Wet	Ice Snow Slush	
			Rear end	Turning	Sideswipe same direction				
Des Plaines Ave Access: Partial - Diamond Rank = 10									
AM Peak	6a to 11a	13	34%	54%	8%	31%	69%	31%	0%
Midday	11a to 4p	12	32%	42%	17%	17%	50%	8%	8%
PM Peak	4p to 7p	9	24%	56%	0%	11%	33%	44%	0%
Congested Period	6a to 11p	34	89%	50%	9%	21%	53%	32%	3%
Total Crashes		38	100%	45%	11%	18%	55%	29%	5%
Oak Park Ave Access: No Access Rank = 11									
AM Peak	6a to 11a	6	23%	33%	33%	17%	67%	0%	33%
Midday	11a to 4p	5	19%	20%	20%	20%	80%	20%	20%
PM Peak	4p to 7p	5	19%	80%	0%	0%	20%	20%	0%
Congested Period	6a to 11p	24	92%	4%	17%	17%	67%	8%	13%
Total Crashes		26	100%	35%	19%	15%	65%	12%	12%
5th Ave Access: No Access Rank = 12									
AM Peak	6a to 11a	9	38%	33%	22%	0%	56%	11%	33%
Midday	11a to 4p	5	21%	40%	40%	0%	60%	20%	20%
PM Peak	4p to 7p	5	21%	20%	0%	20%	40%	20%	20%
Congested Period	6a to 11p	23	96%	26%	17%	13%	57%	13%	26%
Total Crashes		24	100%	25%	17%	13%	58%	13%	25%
Ridgeland Ave Access: No Access Rank = 13									
AM Peak	6a to 11a	5	26%	20%	0%	20%	80%	0%	20%
Midday	11a to 4p	8	42%	50%	13%	13%	63%	13%	13%
PM Peak	4p to 7p	2	11%	50%	50%	0%	0%	100%	0%
Congested Period	6a to 11p	17	89%	35%	24%	12%	59%	18%	18%
Total Crashes		19	100%	37%	26%	11%	63%	16%	16%
East Ave Access: No Access Rank = 14									
AM Peak	6a to 11a	2	15%	0%	50%	0%	100%	0%	0%
Midday	11a to 4p	3	23%	33%	33%	0%	67%	33%	33%
PM Peak	4p to 7p	8	62%	13%	0%	0%	75%	13%	13%
Congested Period	6a to 11p	13	100%	15%	15%	0%	77%	8%	15%
Total Crashes		13	100%	15%	15%	0%	77%	8%	15%
Circle Ave Access: No Access Rank = 15									
AM Peak	6a to 11a	1	11%	100%	0%	0%	0%	100%	0%
Midday	11a to 4p	2	22%	0%	0%	0%	100%	50%	0%
PM Peak	4p to 7p	5	56%	40%	0%	0%	40%	60%	0%
Congested Period	6a to 11p	9	100%	33%	0%	0%	44%	56%	0%
Total Crashes		9	100%	33%	0%	0%	44%	56%	0%
Lombard Ave Access: No Access Rank = 16									
AM Peak	6a to 11a	0	0%	0%	0%	0%	0%	0%	0%
Midday	11a to 4p	0	0%	0%	0%	0%	0%	0%	0%
PM Peak	4p to 7p	1	50%	0%	0%	0%	0%	0%	100%
Congested Period	6a to 11p	2	100%	0%	0%	0%	50%	0%	50%
Total Crashes		2	100%	0%	0%	0%	50%	0%	50%

Technical Memorandum

Appendix I

Frontage Road Crash Summary Reports



Frontage Roads	ALL
Length	11.28 Miles
Total Crashes	284
Crash Rate	25.2 crashes/mile

Injury Statistics	Fatal	0
	A Injury	4
	B & C Injury	42
	Total Injuries	46
Injury Rate		4.1 Injuries/mile

Predominant Crash Factors

Crash Type:	Parked motor vehicle	24%
Weather Condition:	Clear	75%
Road Condition:	Dry	62%
Lighting Condition:	Daylight	62%
Time of Day:	AM Peak	27%
Vehicle Type:	Fail to yield right-of-way	12%

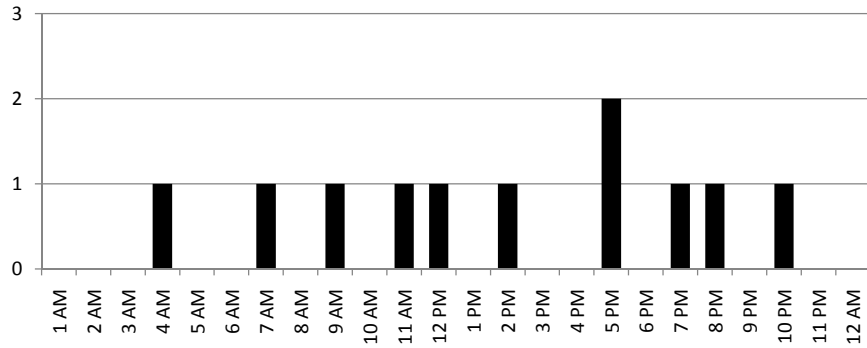
Illinois Department of Transportation

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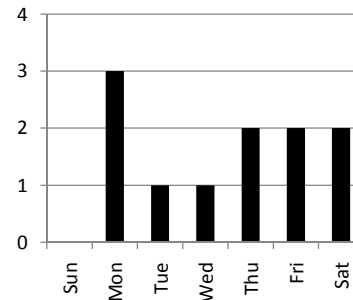
Three Year Crash Statistics

2006, 2007, 2008

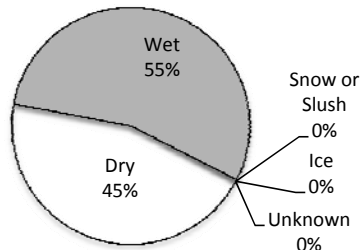
Crashes by Time of Day



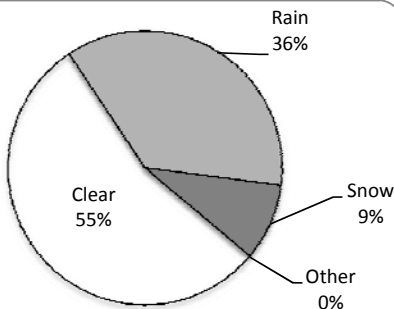
Crashes by Day of Week



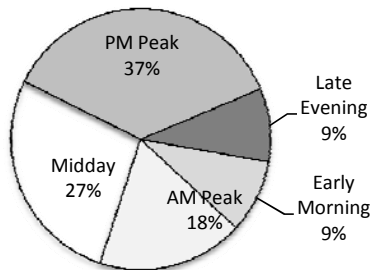
Road Condition



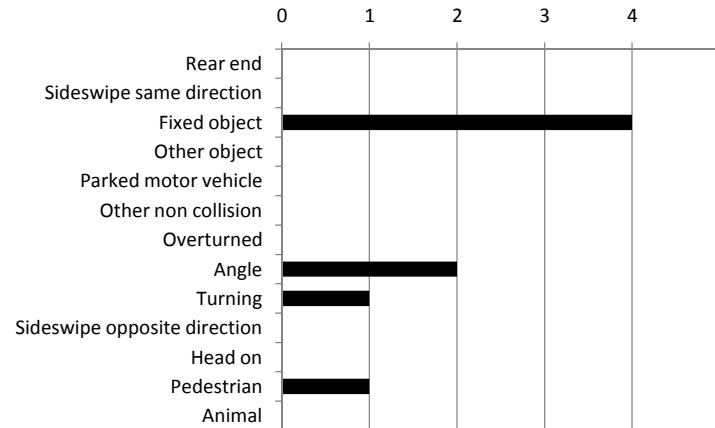
Weather Condition



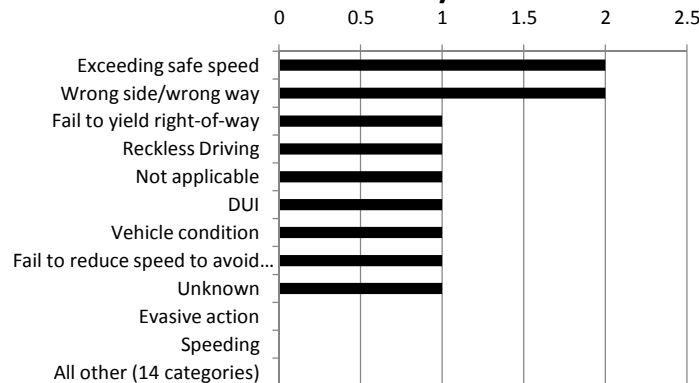
Time of Day



Number of Crashes by Crash Type



Number of Crashes by Cause



Frontage Roads

A

Harrison Street

Bellwood Ave to 25th Ave

2 Way

Length

0.78 Miles

Total Crashes

11

Crash Rate

14.0
crashes/mile

Injury Statistics

Fatal 0

A Injury 0

B & C Injury 6

Total Injuries 6

Injury Rate

7.7
Injuries/mile

Predominant Crash Factors

Crash Type:	Fixed object	50%
Weather Condition:	Clear	55%
Road Condition:	Wet	55%
Lighting Condition:	Daylight	64%
Time of Day:	PM Peak	36%
Vehicle Type:	Exceeding safe speed	18%

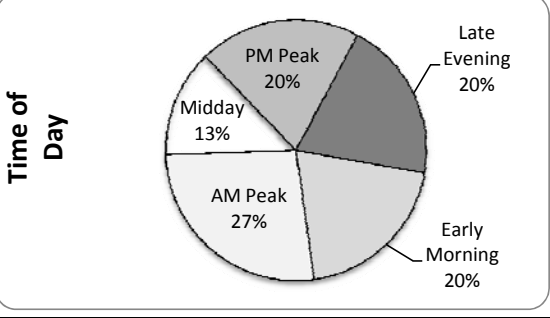
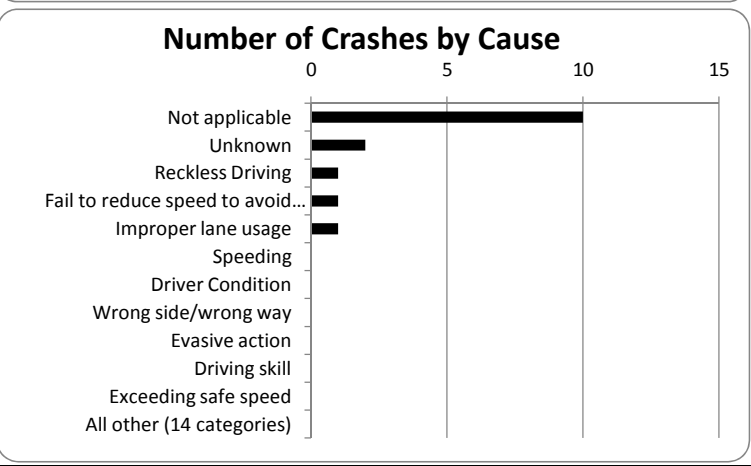
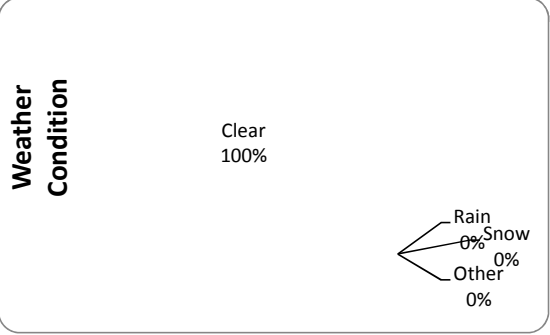
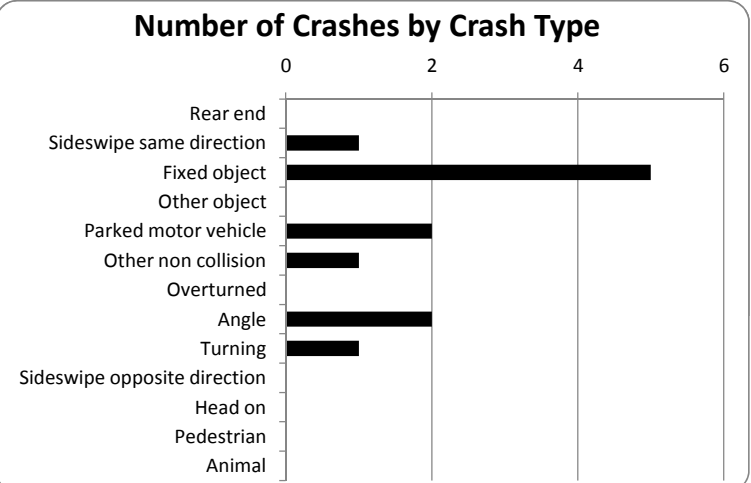
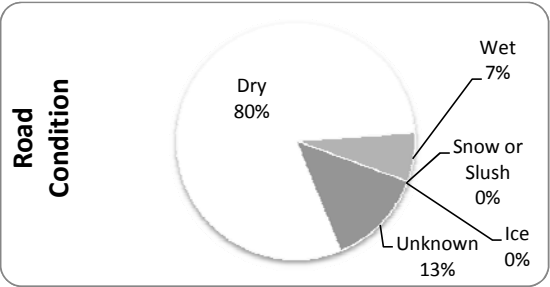
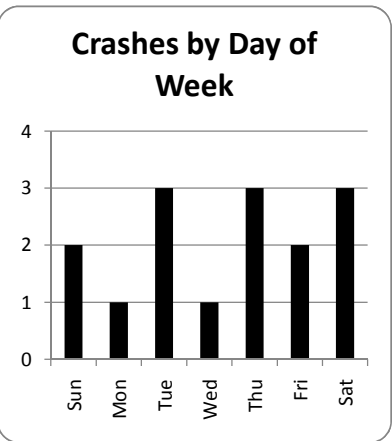
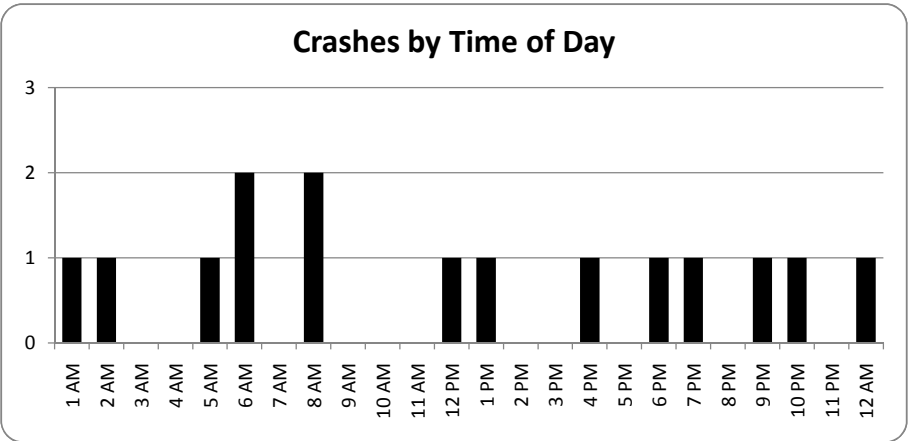


Illinois Department of Transportation

I-290 Preliminary Engineering and Environmental Study (Phase I)

Three Year Crash Statistics

2006, 2007, 2008



Frontage Roads		B
Harrison Street	24th Ave to 1st Ave	1 Way, (WB)
Length		1.46 Miles
Total Crashes		15
Crash Rate		10.3 crashes/mile

Injury Statistics	Fatal	0
	A Injury	2
	B & C Injury	6
	Total Injuries	8
Injury Rate		5.5 Injuries/mile

Predominant Crash Factors

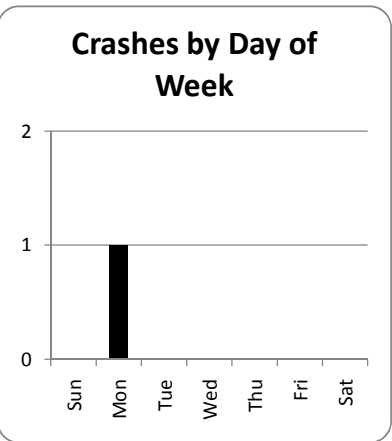
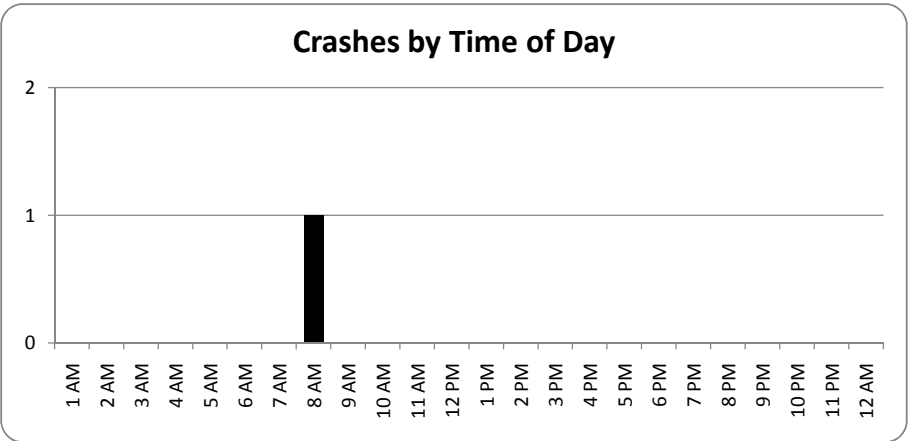
Crash Type:	Fixed object	42%
Weather Condition:	Clear	100%
Road Condition:	Dry	80%
Lighting Condition:	Darkness, Lighted Road	40%
Time of Day:	AM Peak	27%
Vehicle Type:	ail to reduce speed to avoid cra	7%

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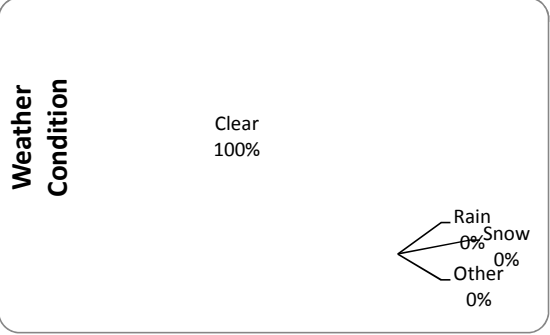
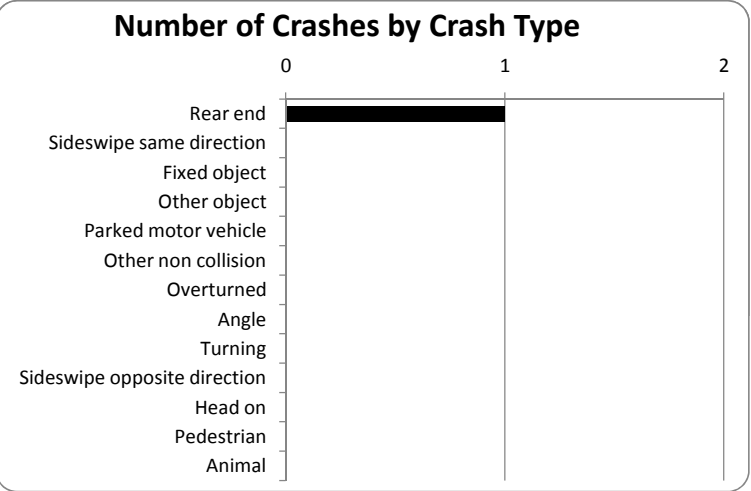
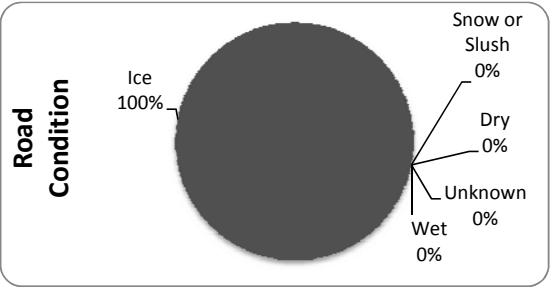
I-290 Preliminary Engineering and Environmental Study (Phase I)

Three Year Crash Statistics

2006, 2007, 2008

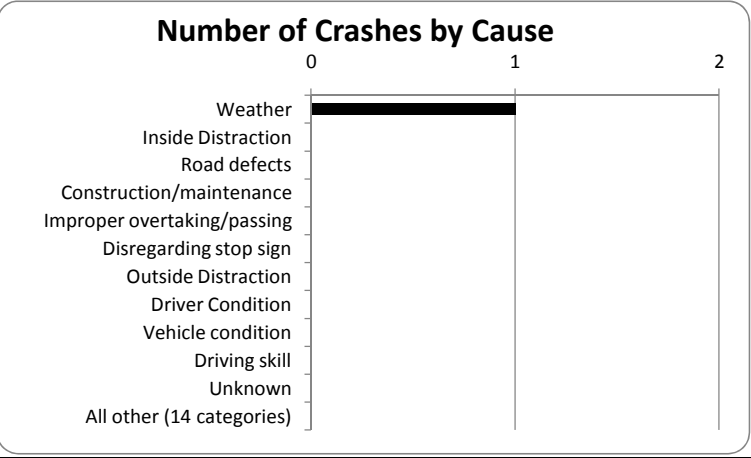
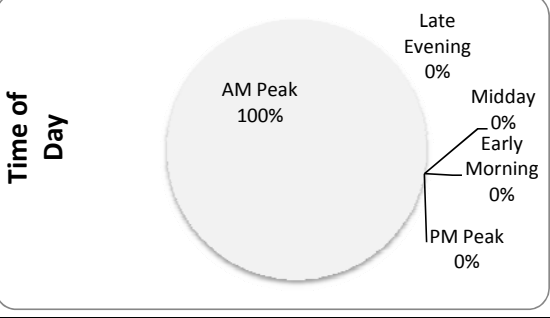


Frontage Roads		C
Wedgewood Dr.	Suffolk Drive to I-290 ramp	2 Way
Length		0.25 Miles
Total Crashes		1
Crash Rate		4.0 crashes/mile



Injury Statistics

Fatal	0
A Injury	0
B & C Injury	0
Total Injuries	0
Injury Rate	0.0 Injuries/mile



Predominant Crash Factors

Crash Type:	Rear end	100%
Weather Condition:	Clear	100%
Road Condition:	Ice	100%
Lighting Condition:	Daylight	100%
Time of Day:	AM Peak	100%
Vehicle Type:	Construction/maintenance	0%

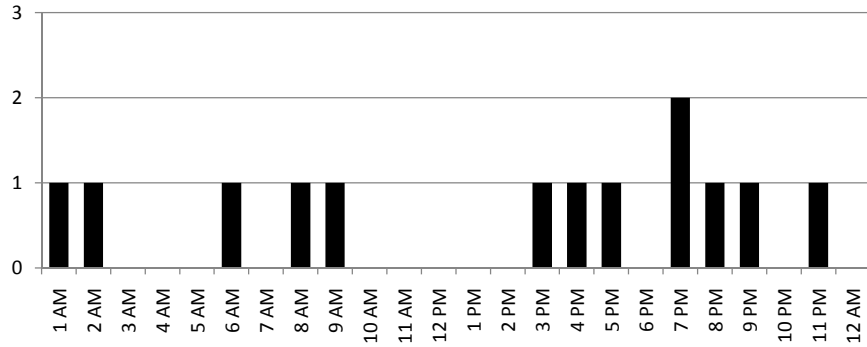
Illinois Department of Transportation

I-290 Preliminary Engineering and Environmental Study (Phase I)

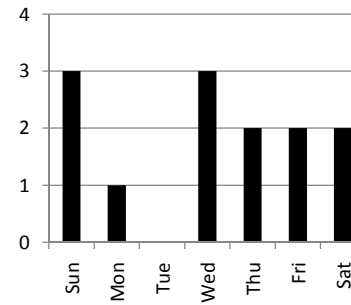
Three Year Crash Statistics

2006, 2007, 2008

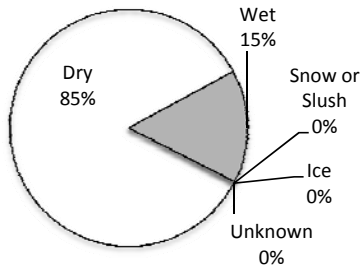
Crashes by Time of Day



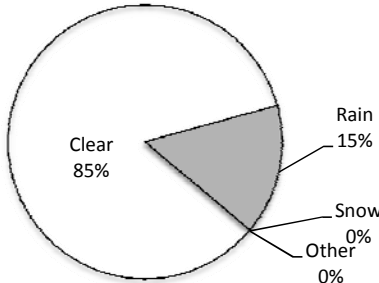
Crashes by Day of Week



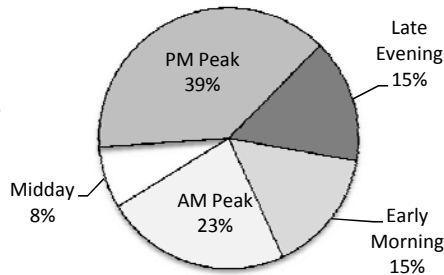
Road Condition



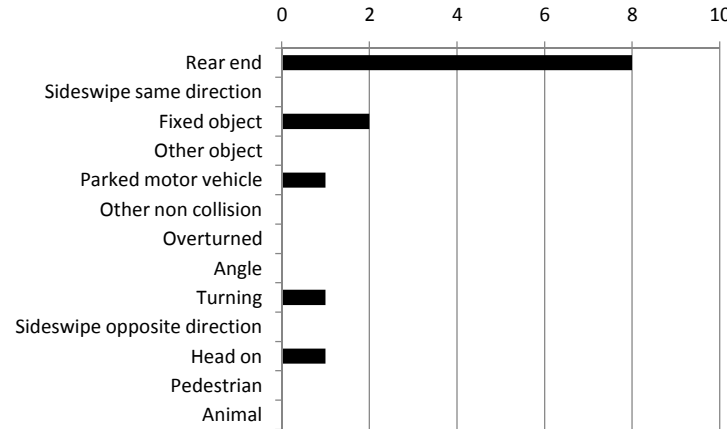
Weather Condition



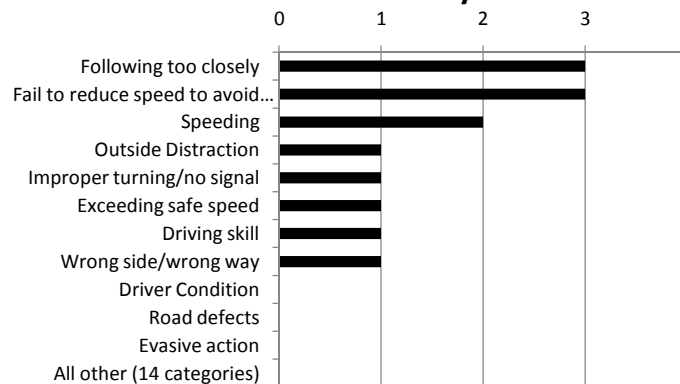
Time of Day



Number of Crashes by Crash Type



Number of Crashes by Cause



Frontage Roads

D

Indian Joe Dr. I-290 ramp to N. of Beach Street **2 Way**

Length 0.13 Miles

Total Crashes 13

Crash Rate 101.8 crashes/mile

Injury Statistics	Fatal	0
	A Injury	0
	B & C Injury	4
	Total Injuries	4
Injury Rate		31.3
		Injuries/mile

Predominant Crash Factors

Crash Type:	Rear end	62%
Weather Condition:	Clear	85%
Road Condition:	Dry	85%
Lighting Condition:	Daylight	54%
Time of Day:	PM Peak	38%
Vehicle Type:	fail to reduce speed to avoid cra	23%

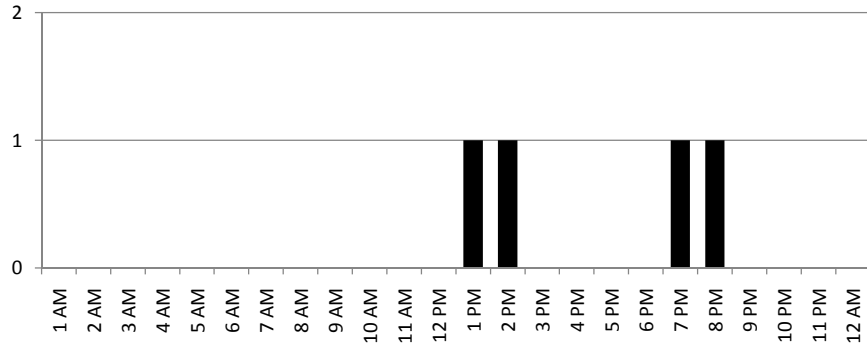


I-290 Preliminary Engineering and Environmental Study (Phase I)

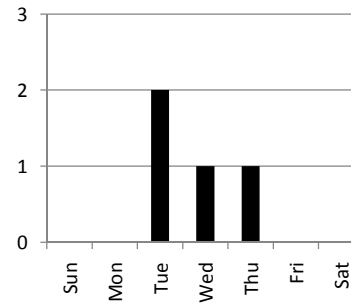
Three Year Crash Statistics

2006, 2007, 2008

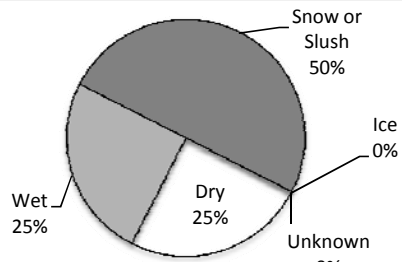
Crashes by Time of Day



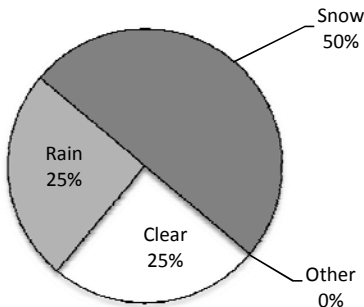
Crashes by Day of Week



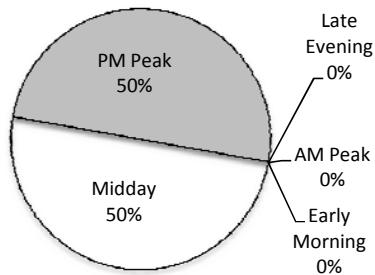
Road Condition



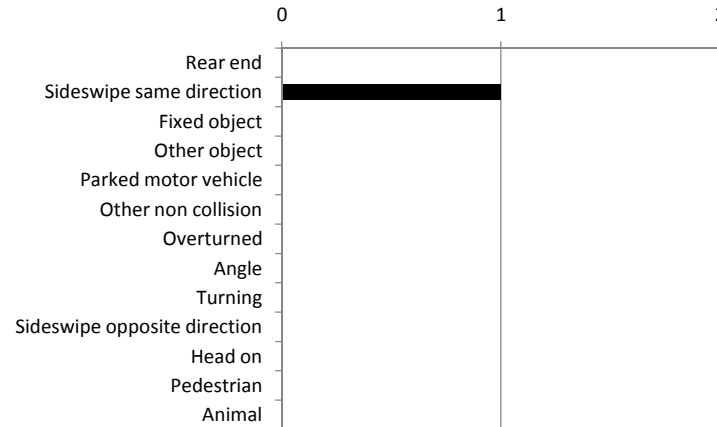
Weather Condition



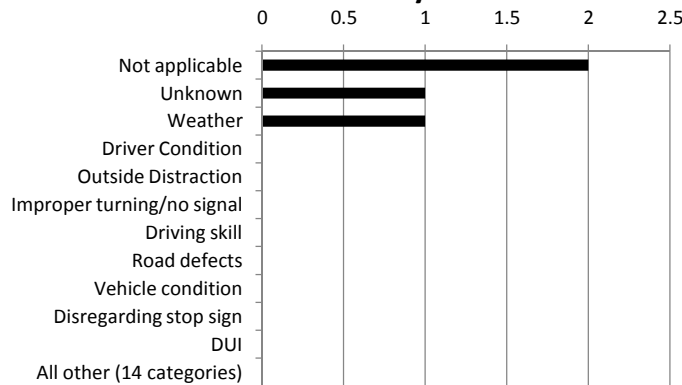
Time of Day



Number of Crashes by Crash Type



Number of Crashes by Cause



Frontage Roads

E

Beach Street Indian Joe Dr. to Lexington **2 Way**

Length 0.10 Miles

Total Crashes **4**

Crash Rate **40.5**
crashes/mile

Injury Statistics

Fatal **0**

A Injury **0**

B & C Injury **0**

Total Injuries **0**

Injury Rate **0.0**
Injuries/mile

Predominant Crash Factors

Crash Type:	Sideswipe same direction	100%
Weather Condition:	Snow	50%
Road Condition:	Snow or Slush	50%
Lighting Condition:	Daylight	50%
Time of Day:	Midday	50%
Vehicle Type:	Construction/maintenance	0%

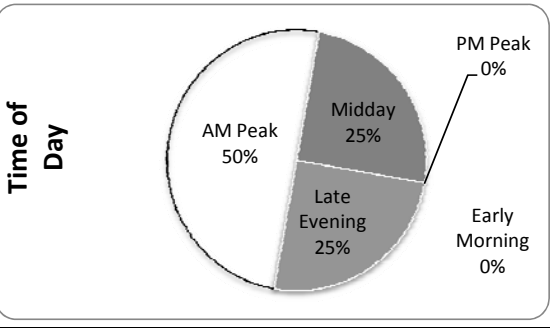
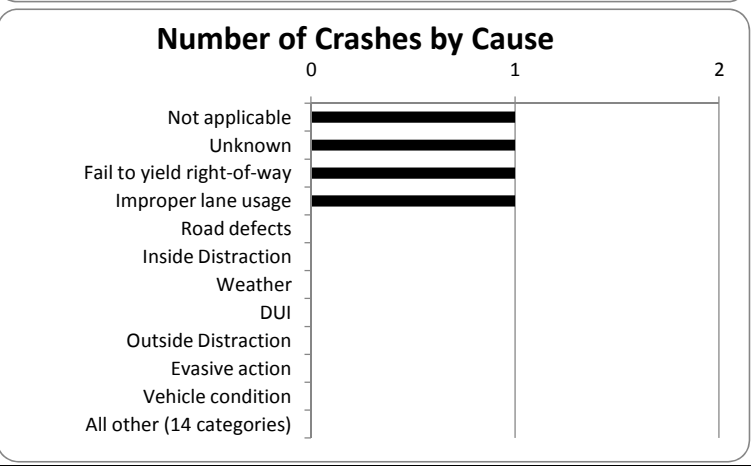
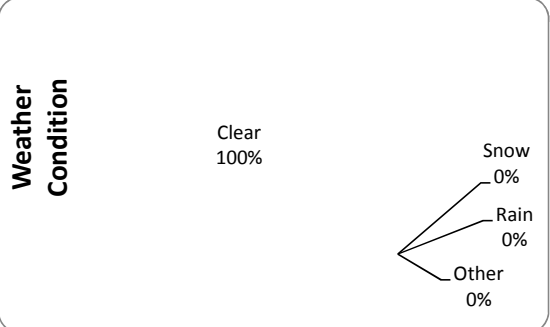
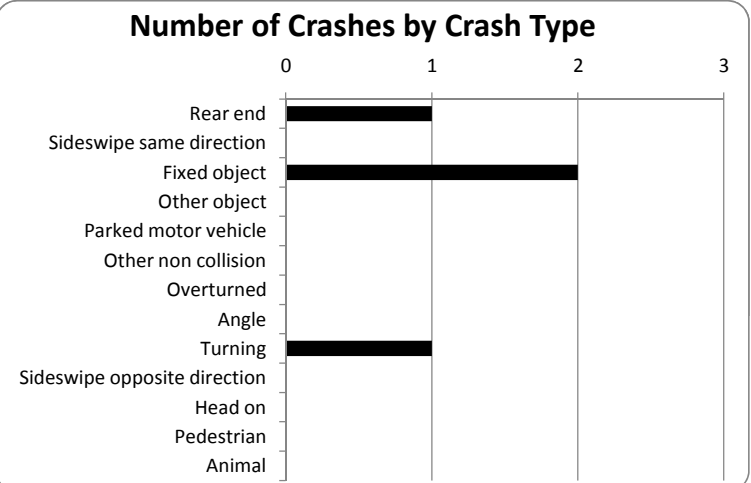
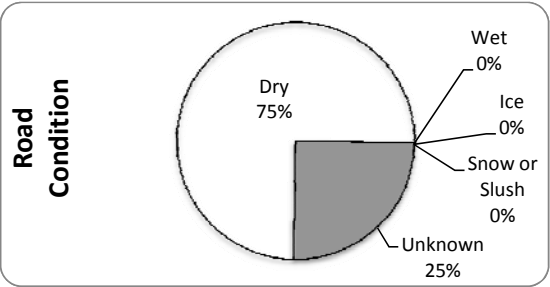
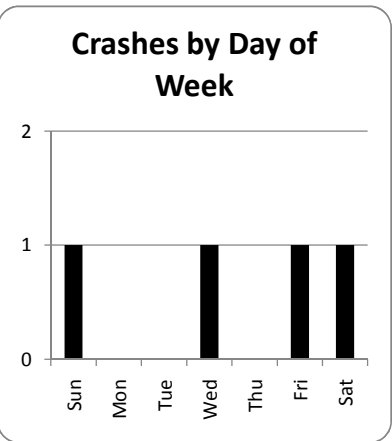
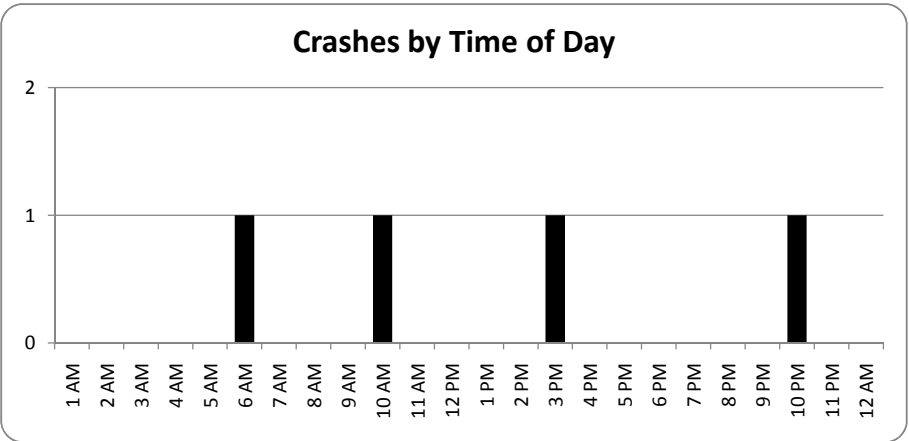


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Three Year Crash Statistics

2006, 2007, 2008



Frontage Roads	F
Lexington St. Beach Street to 25th Ave	2 Way
Length	0.12 Miles
Total Crashes	4
Crash Rate	32.5 crashes/mile

Injury Statistics	Fatal	0
	A Injury	0
	B & C Injury	0
	Total Injuries	0
Injury Rate		0.0 Injuries/mile

Predominant Crash Factors

Crash Type:	Fixed object	50%
Weather Condition:	Clear	100%
Road Condition:	Dry	75%
Lighting Condition:	Daylight	50%
Time of Day:	AM Peak	50%
Vehicle Type:	Fail to yield right-of-way	25%

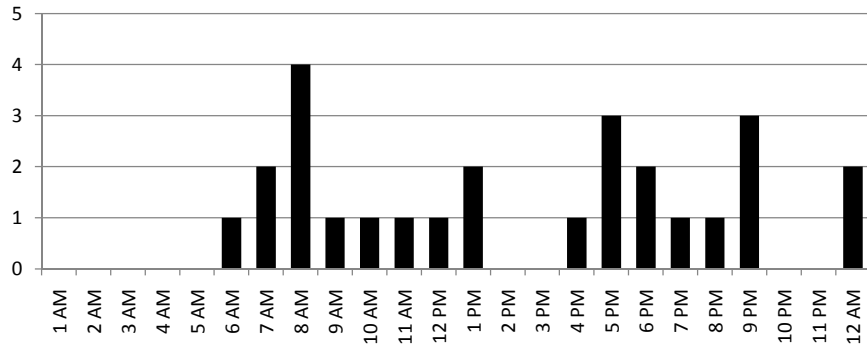
Illinois Department of Transportation

I-290 Preliminary Engineering and Environmental Study (Phase I)

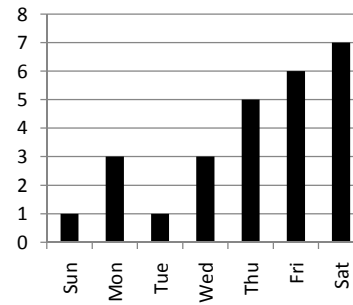
Three Year Crash Statistics

2006, 2007, 2008

Crashes by Time of Day



Crashes by Day of Week



Frontage Roads

G

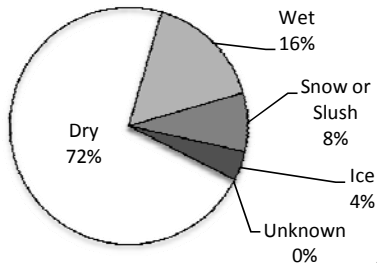
Bataan Drive 23rd Ave to 1st Ave **1 Way, (EB)**

Length 1.39 Miles

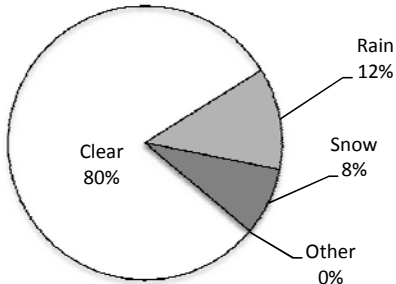
Total Crashes **26**

Crash Rate **18.7**
crashes/mile

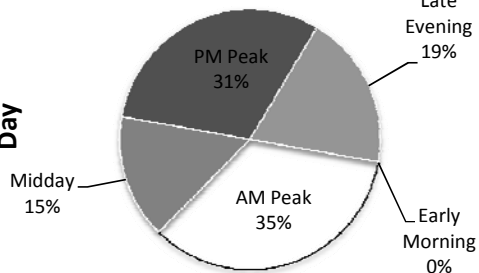
Road Condition



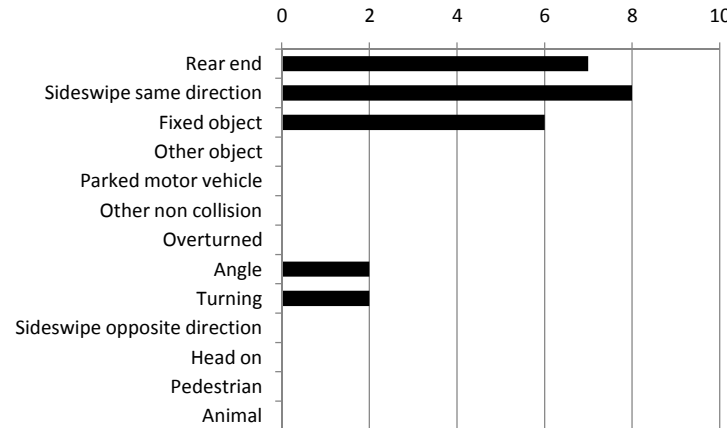
Weather Condition



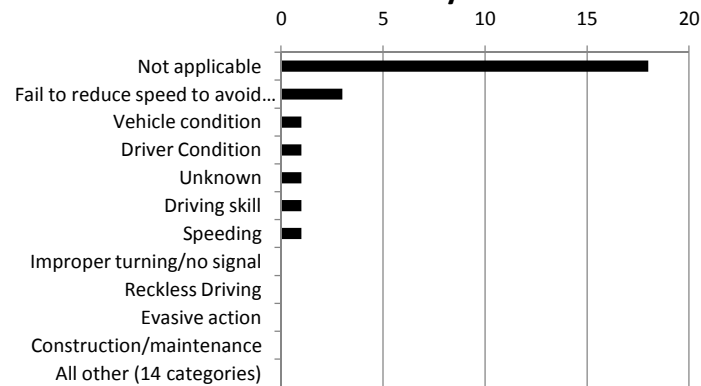
Time of Day



Number of Crashes by Crash Type



Number of Crashes by Cause



Injury Statistics	Fatal	0
	A Injury	1
	B & C Injury	1
	Total Injuries	2
Injury Rate		1.4 Injuries/mile

Predominant Crash Factors

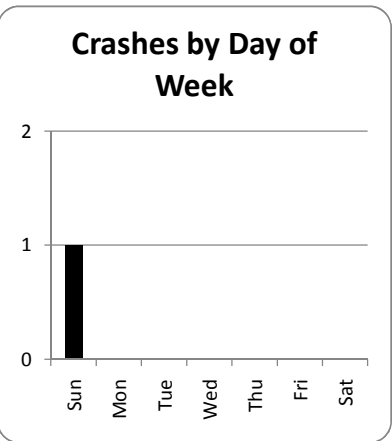
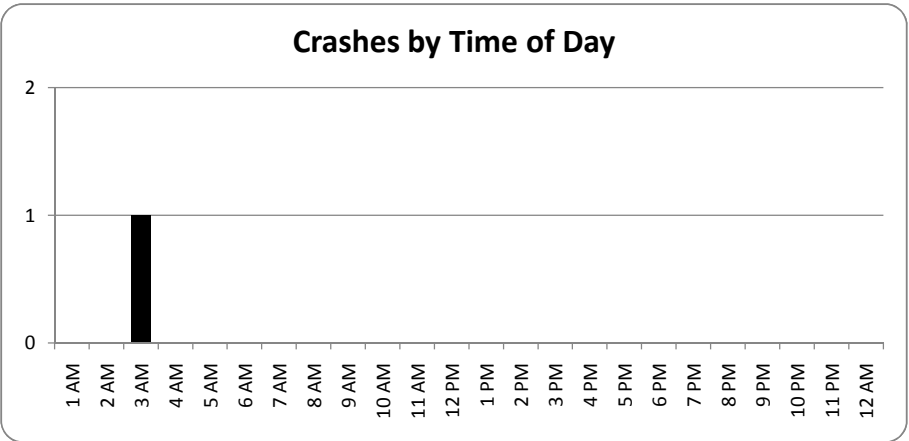
Crash Type:	Sideswipe same direction	32%
Weather Condition:	Clear	80%
Road Condition:	Dry	72%
Lighting Condition:	Daylight	73%
Time of Day:	AM Peak	35%
Vehicle Type:	ail to reduce speed to avoid cra:	12%



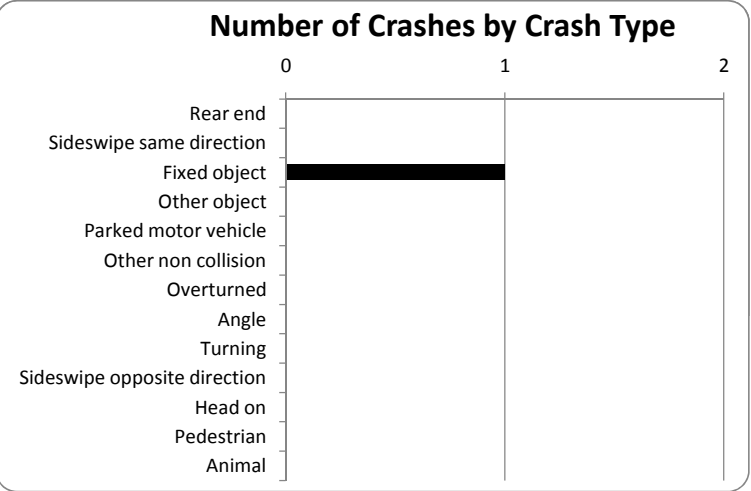
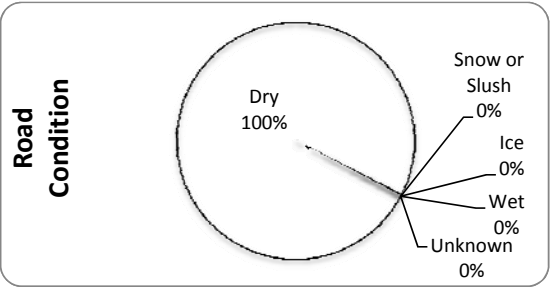
I-290 Preliminary Engineering and Environmental Study (Phase I)

Three Year Crash Statistics

2006, 2007, 2008

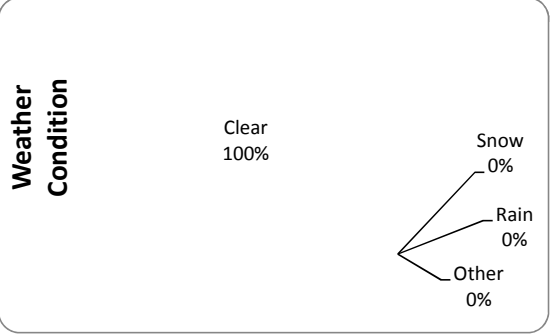


Frontage Roads		H
Lehmer St	Elgin Ave to Lathrop	2 Way
Length		0.50 Miles
Total Crashes		1
Crash Rate		2.0 crashes/mile



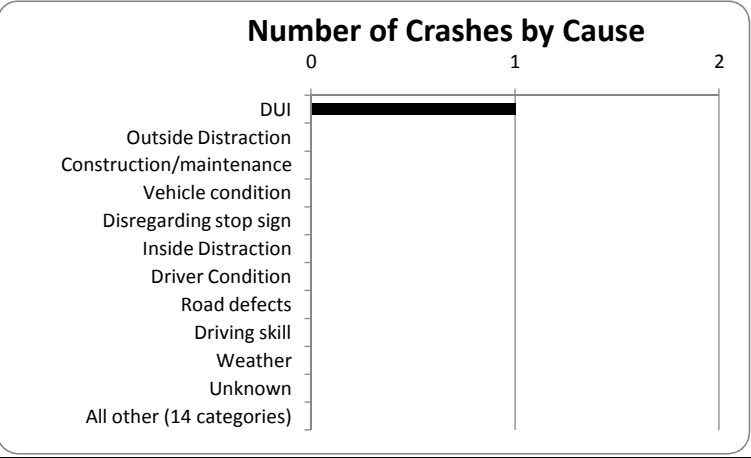
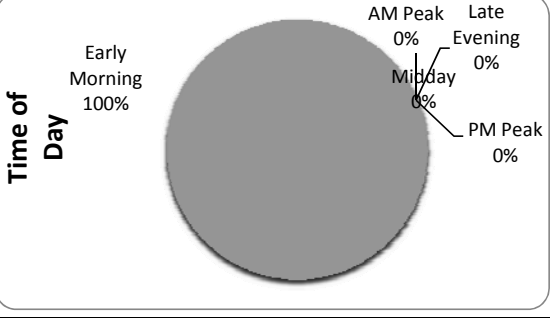
Injury Statistics

Fatal	0
A Injury	0
B & C Injury	0
Total Injuries	0
Injury Rate	0.0 Injuries/mile



Predominant Crash Factors

Crash Type:	Fixed object	100%
Weather Condition:	Clear	100%
Road Condition:	Dry	100%
Lighting Condition:	Darkness, Lighted Road	100%
Time of Day:	Early Morning	100%
Vehicle Type:	DUI	100%



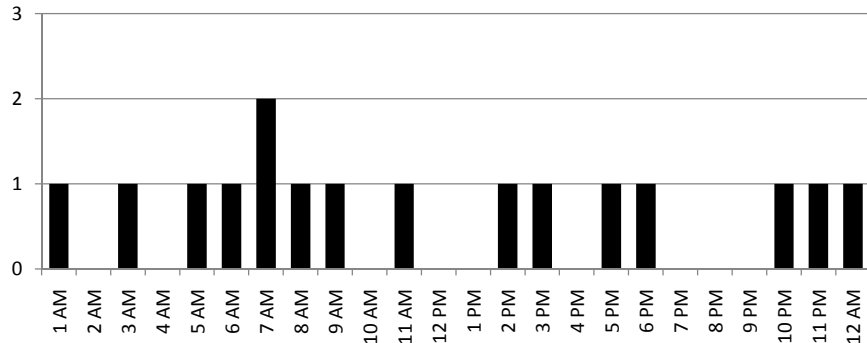
Illinois Department of Transportation

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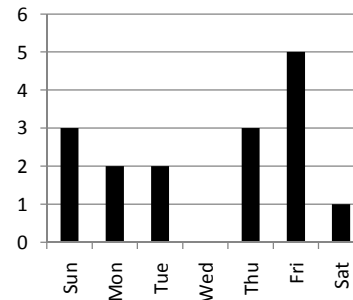
Three Year Crash Statistics

2006, 2007, 2008

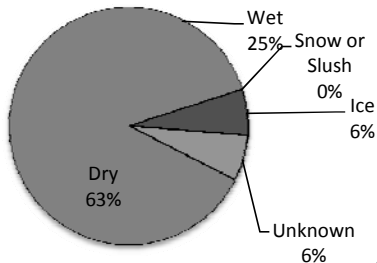
Crashes by Time of Day



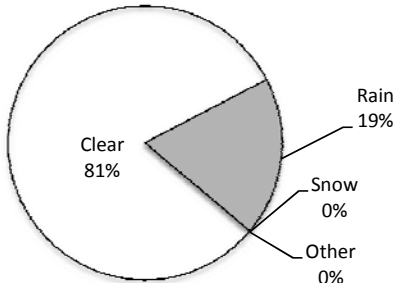
Crashes by Day of Week



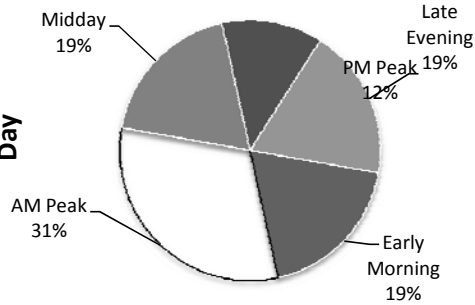
Road Condition



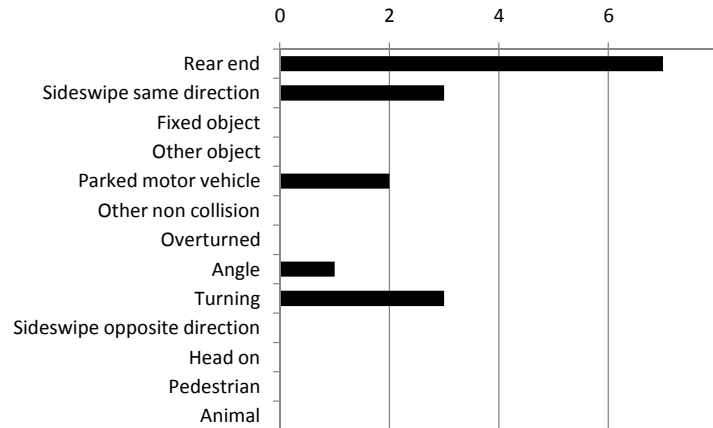
Weather Condition



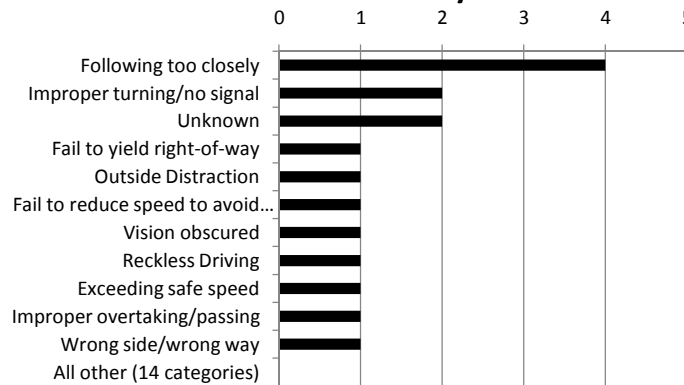
Time of Day



Number of Crashes by Crash Type



Number of Crashes by Cause



Frontage Roads

Harrison Street	Harlem Ave to DesPlaines Ave.	2 Way
Length		0.59 Miles
Total Crashes		16
Crash Rate		27.3 crashes/mile

Injury Statistics

Fatal	0
A Injury	0
B & C Injury	3
Total Injuries	3
Injury Rate	5.1 Injuries/mile

Predominant Crash Factors

Crash Type:	Rear end	44%
Weather Condition:	Clear	81%
Road Condition:	Dry	63%
Lighting Condition:	Daylight	63%
Time of Day:	AM Peak	31%
Vehicle Type:	Following too closely	25%



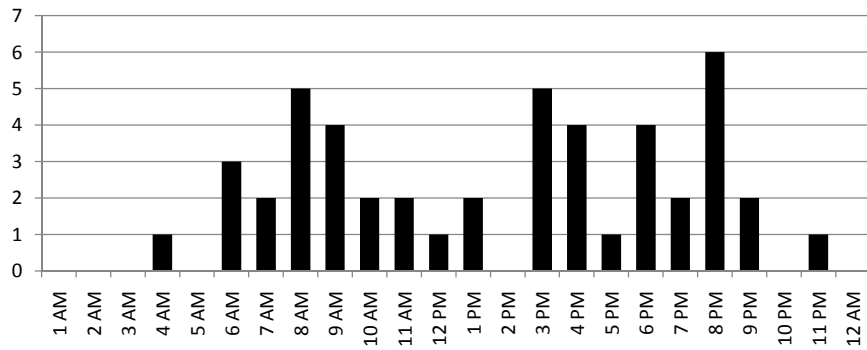
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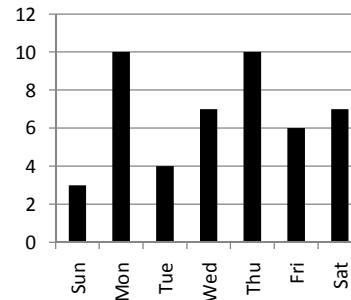
Three Year Crash Statistics

2006, 2007, 2008

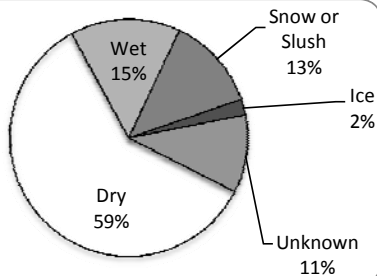
Crashes by Time of Day



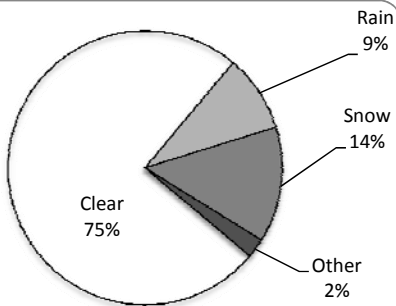
Crashes by Day of Week



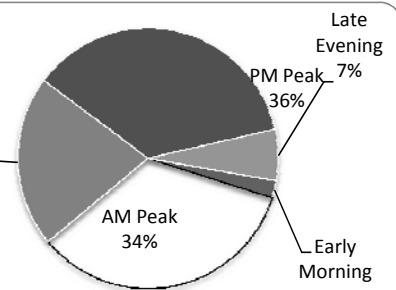
Road Condition



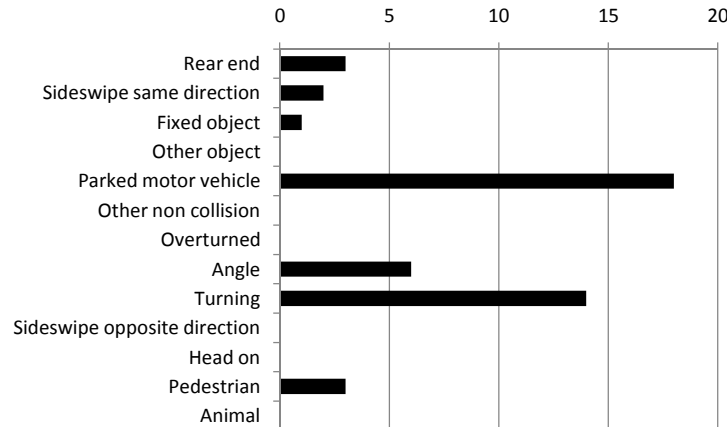
Weather Condition



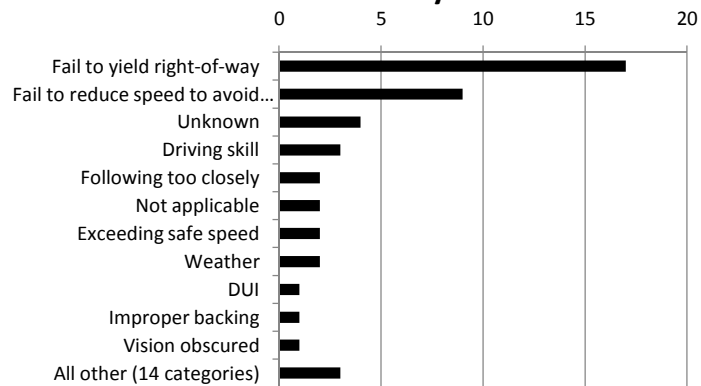
Time of Day



Number of Crashes by Crash Type



Number of Crashes by Cause



Frontage Roads

J

Harrison Street Maple Ave to Austin Blvd **2 Way**

Length 1.51 Miles

Total Crashes 47

Crash Rate 31.2
crashes/mile

Injury Statistics

Fatal 0

A Injury 0

B & C Injury 4

Total Injuries 4

Injury Rate 2.7
Injuries/mile

Predominant Crash Factors

Crash Type:	Parked motor vehicle	38%
Weather Condition:	Clear	75%
Road Condition:	Dry	60%
Lighting Condition:	Daylight	60%
Time of Day:	PM Peak	36%
Vehicle Type:	Fail to yield right-of-way	36%

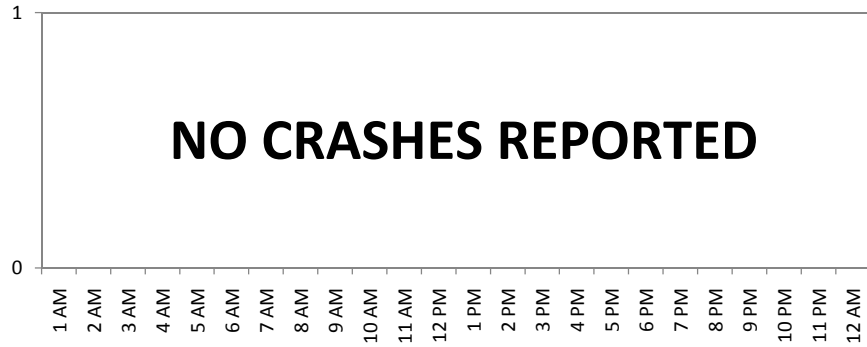


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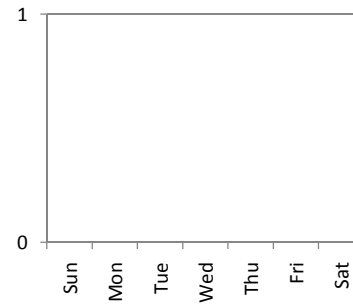
Three Year Crash Statistics

2006, 2007, 2008

Crashes by Time of Day

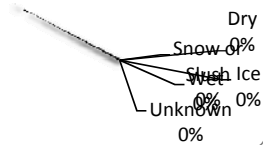


Crashes by Day of Week

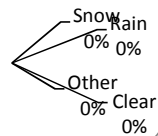


Frontage Roads		K
Flournoy Street	Highland Ave to Humphrey St.	2 Way
Length		0.28 Miles
Total Crashes		0
Crash Rate		0.0 crashes/mile

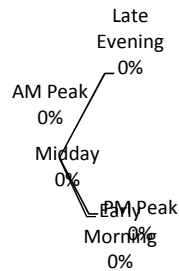
Road Condition



Weather Condition



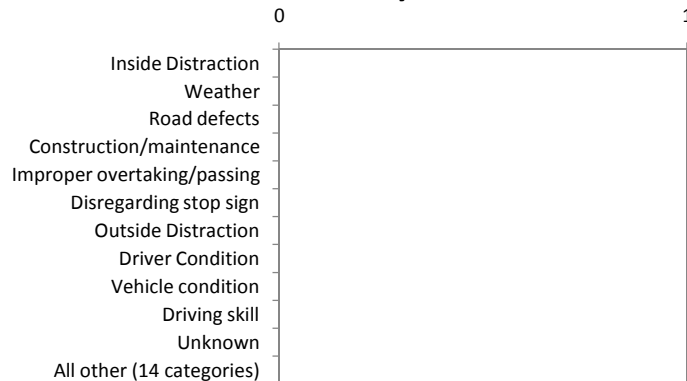
Time of Day



Number of Crashes by Crash Type



Number of Crashes by Cause



Injury Statistics	Fatal	0
	A Injury	0
	B & C Injury	0
	Total Injuries	0
	Injury Rate	0.0 Injuries/mile

Predominant Crash Factors

Crash Type:	None	0%
Weather Condition:	None	0%
Road Condition:	None	0%
Lighting Condition:	None	0%
Time of Day:	None	0%
Vehicle Type:	None	0%



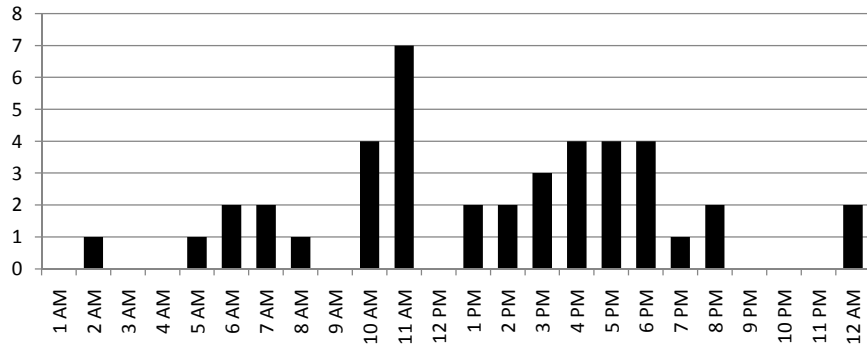
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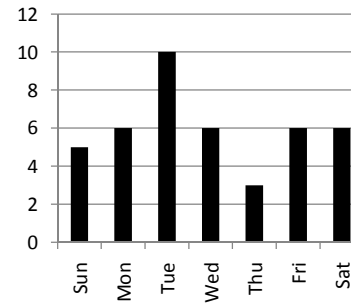
Three Year Crash Statistics

2006, 2007, 2008

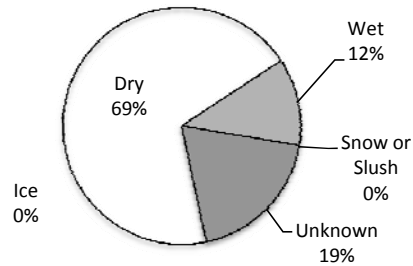
Crashes by Time of Day



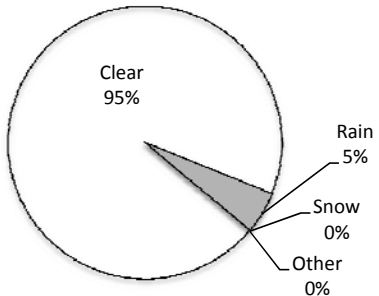
Crashes by Day of Week



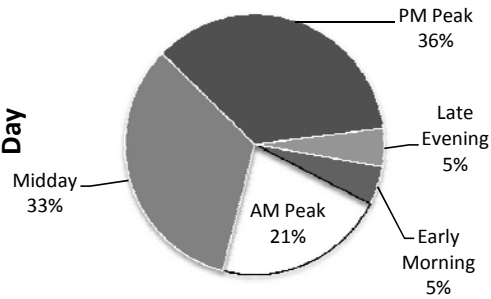
Road Condition



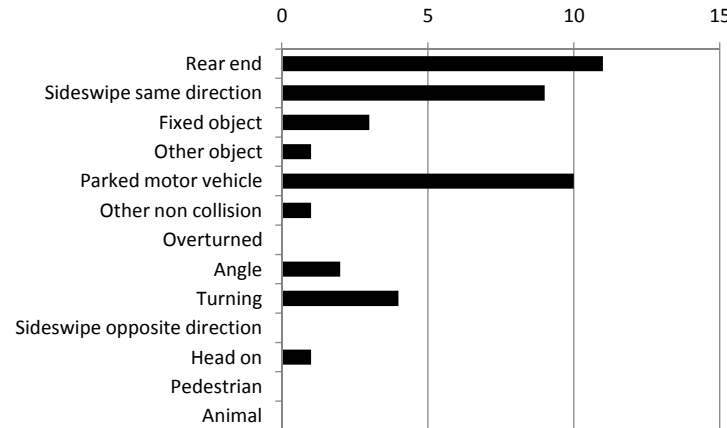
Weather Condition



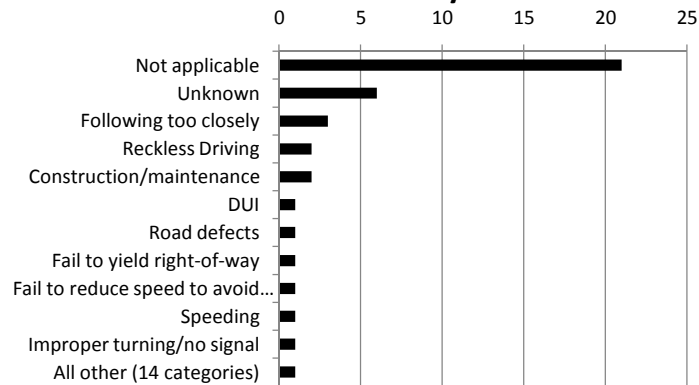
Time of Day



Number of Crashes by Crash Type



Number of Crashes by Cause



Frontage Roads

L

Flournoy Street Central Ave to Kilpatrick Ave **1 Way, (WB)**

Length 1.13 Miles

Total Crashes 42

Crash Rate 37.1 crashes/mile

Injury Statistics

Fatal 0

A Injury 0

B & C Injury 6

Total Injuries 6

Injury Rate 5.3 Injuries/mile

Predominant Crash Factors

Crash Type:	Rear end	26%
Weather Condition:	Clear	95%
Road Condition:	Dry	69%
Lighting Condition:	Daylight	64%
Time of Day:	PM Peak	36%
Vehicle Type:	Following too closely	7%

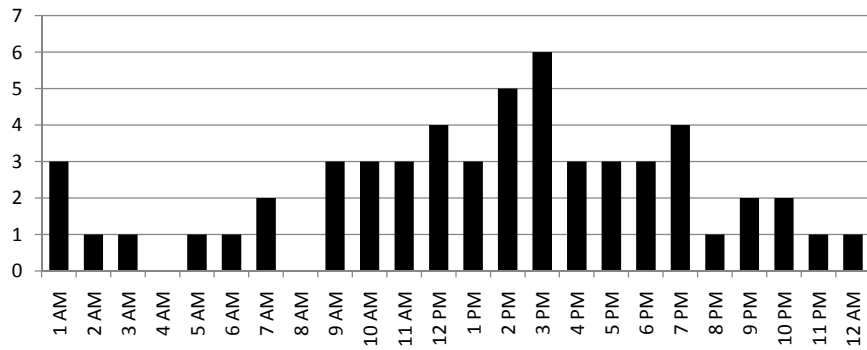


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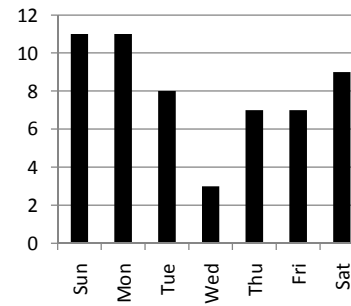
Three Year Crash Statistics

2006, 2007, 2008

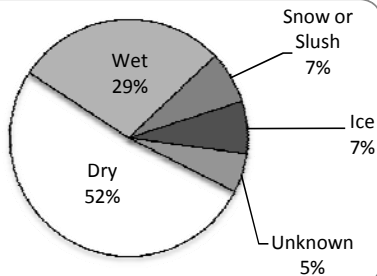
Crashes by Time of Day



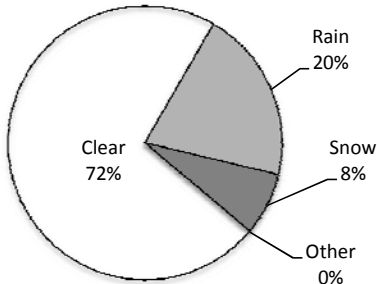
Crashes by Day of Week



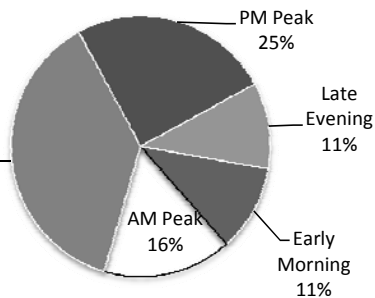
Road Condition



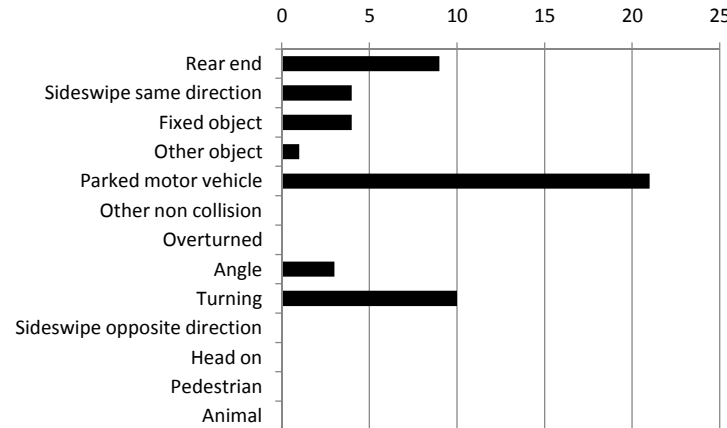
Weather Condition



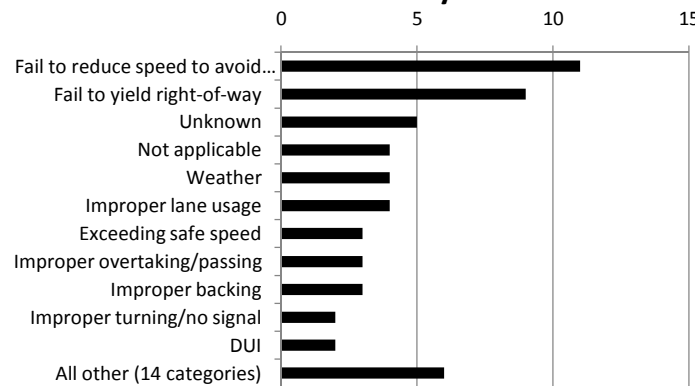
Time of Day



Number of Crashes by Crash Type



Number of Crashes by Cause



Frontage Roads

M

Garfield Street	Harlem Ave to Austin Blvd	2 Way
------------------------	---------------------------	--------------

Length 1.57 Miles

Total Crashes 56

Crash Rate 35.7 crashes/mile

Injury Statistics

Fatal	0
A Injury	0
B & C Injury	9
Total Injuries	9
Injury Rate	5.7 Injuries/mile

Predominant Crash Factors

Crash Type:	Parked motor vehicle	40%
Weather Condition:	Clear	72%
Road Condition:	Dry	52%
Lighting Condition:	Daylight	61%
Time of Day:	Midday	38%
Vehicle Type:	fail to reduce speed to avoid cra:	20%

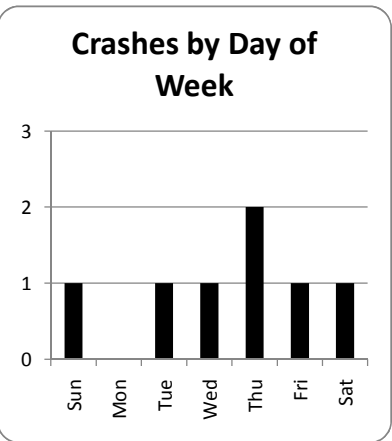
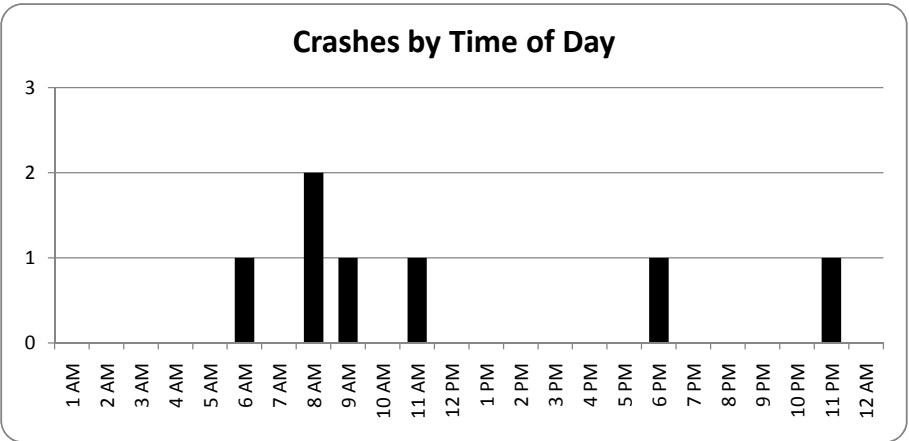


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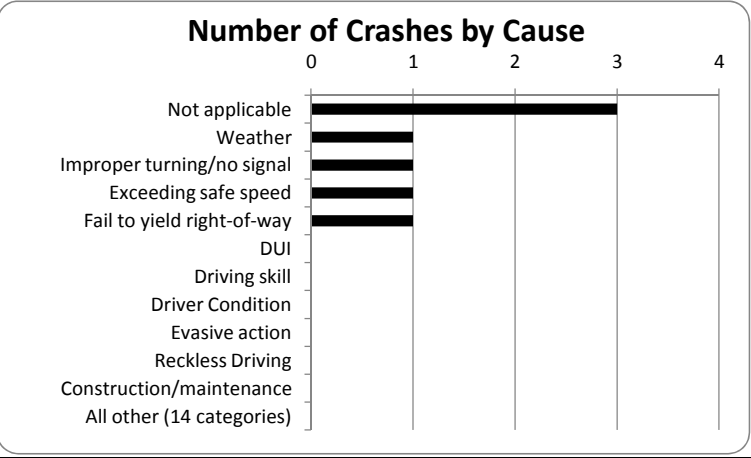
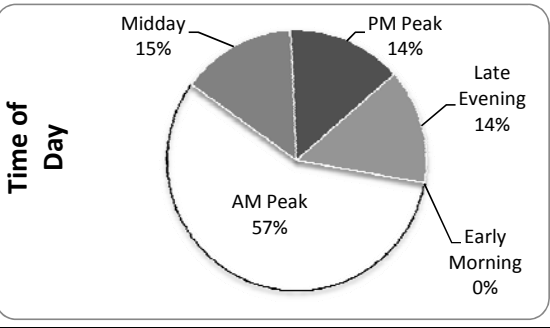
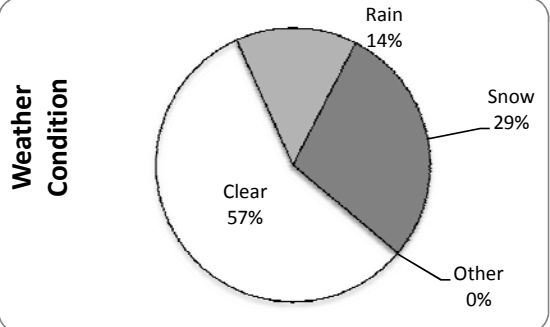
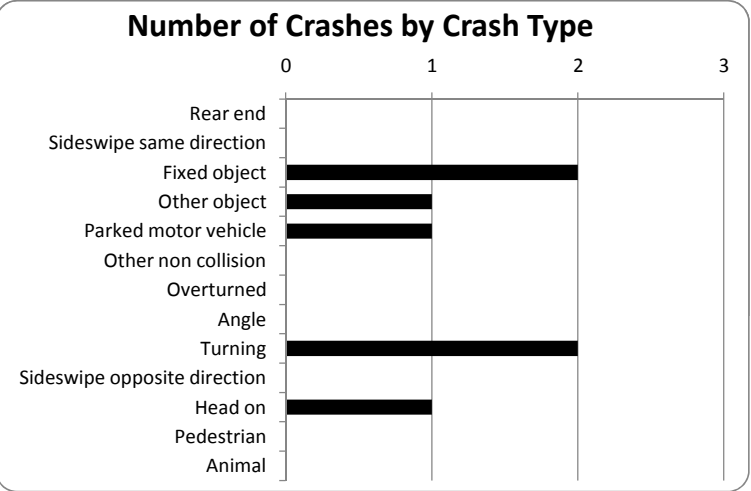
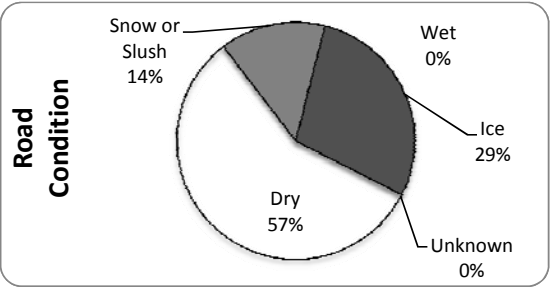
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Three Year Crash Statistics

2006, 2007, 2008



Frontage Roads		N
Railroad St	Austin Blvd to Menard Ave	2 Way
Length		0.25 Miles
Total Crashes		7
Crash Rate		28.0 crashes/mile



Injury Statistics

Fatal	0
A Injury	0
B & C Injury	0
Total Injuries	0
Injury Rate	0.0 Injuries/mile

Predominant Crash Factors

Crash Type:	Fixed object	29%
Weather Condition:	Clear	57%
Road Condition:	Dry	57%
Lighting Condition:	Daylight	71%
Time of Day:	AM Peak	57%
Vehicle Type:	Exceeding safe speed	14%

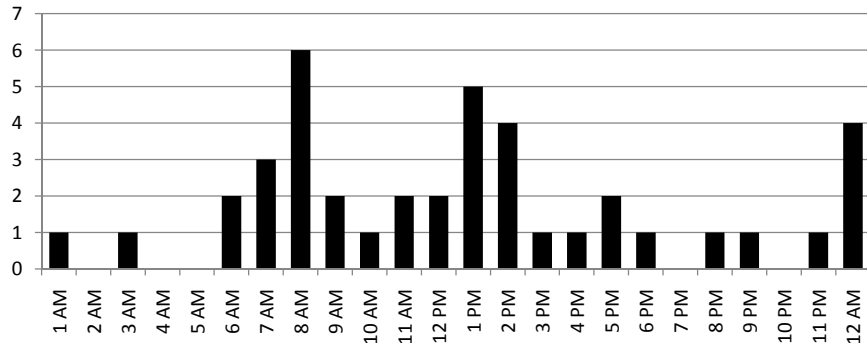
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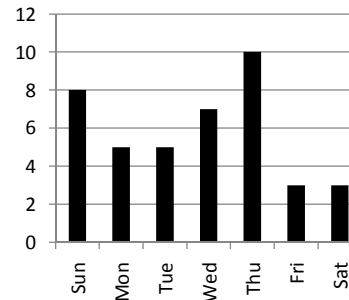
Three Year Crash Statistics

2006, 2007, 2008

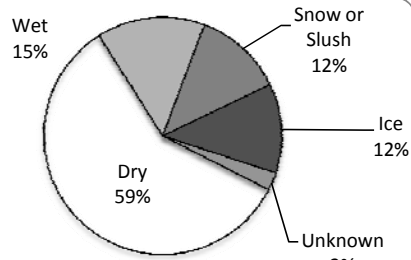
Crashes by Time of Day



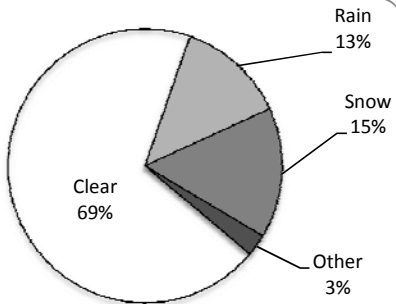
Crashes by Day of Week



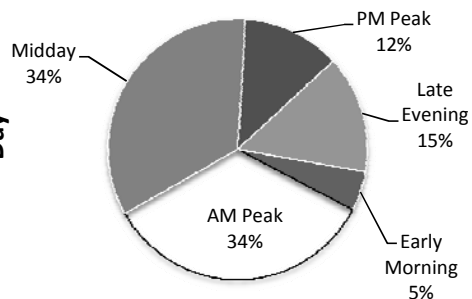
Road Condition



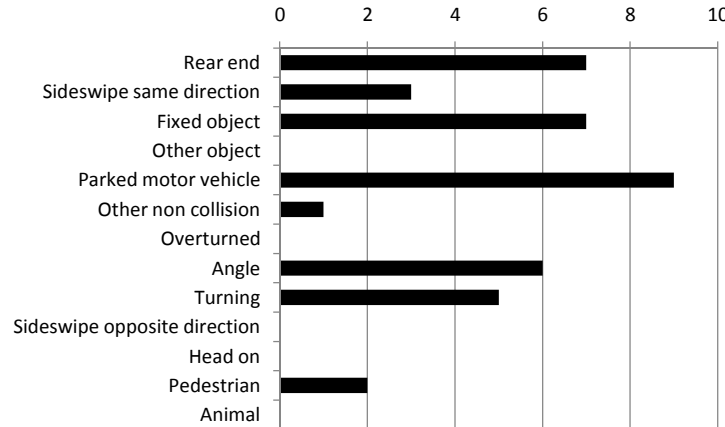
Weather Condition



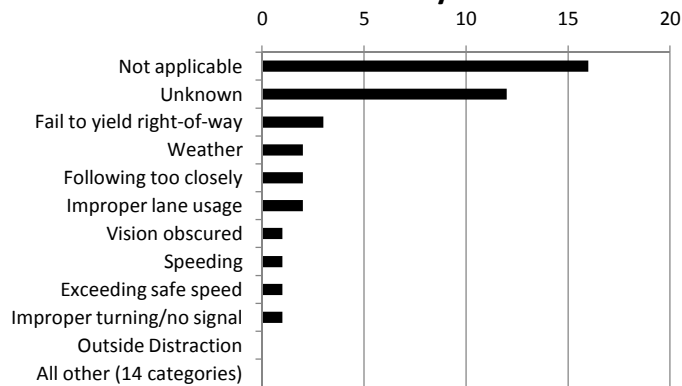
Time of Day



Number of Crashes by Crash Type



Number of Crashes by Cause



Frontage Roads



Lexington St. Long Ave to Kostner **1 Way, (EB)**

Length 1.22 Miles

Total Crashes **41**

Crash Rate **33.6**
crashes/mile

Injury Statistics

Fatal	0
A Injury	1
B & C Injury	3
Total Injuries	4
Injury Rate	3.3 Injuries/mile

Predominant Crash Factors

Crash Type:	Parked motor vehicle	23%
Weather Condition:	Clear	69%
Road Condition:	Dry	59%
Lighting Condition:	Daylight	71%
Time of Day:	AM Peak	34%
Vehicle Type:	Fail to yield right-of-way	7%



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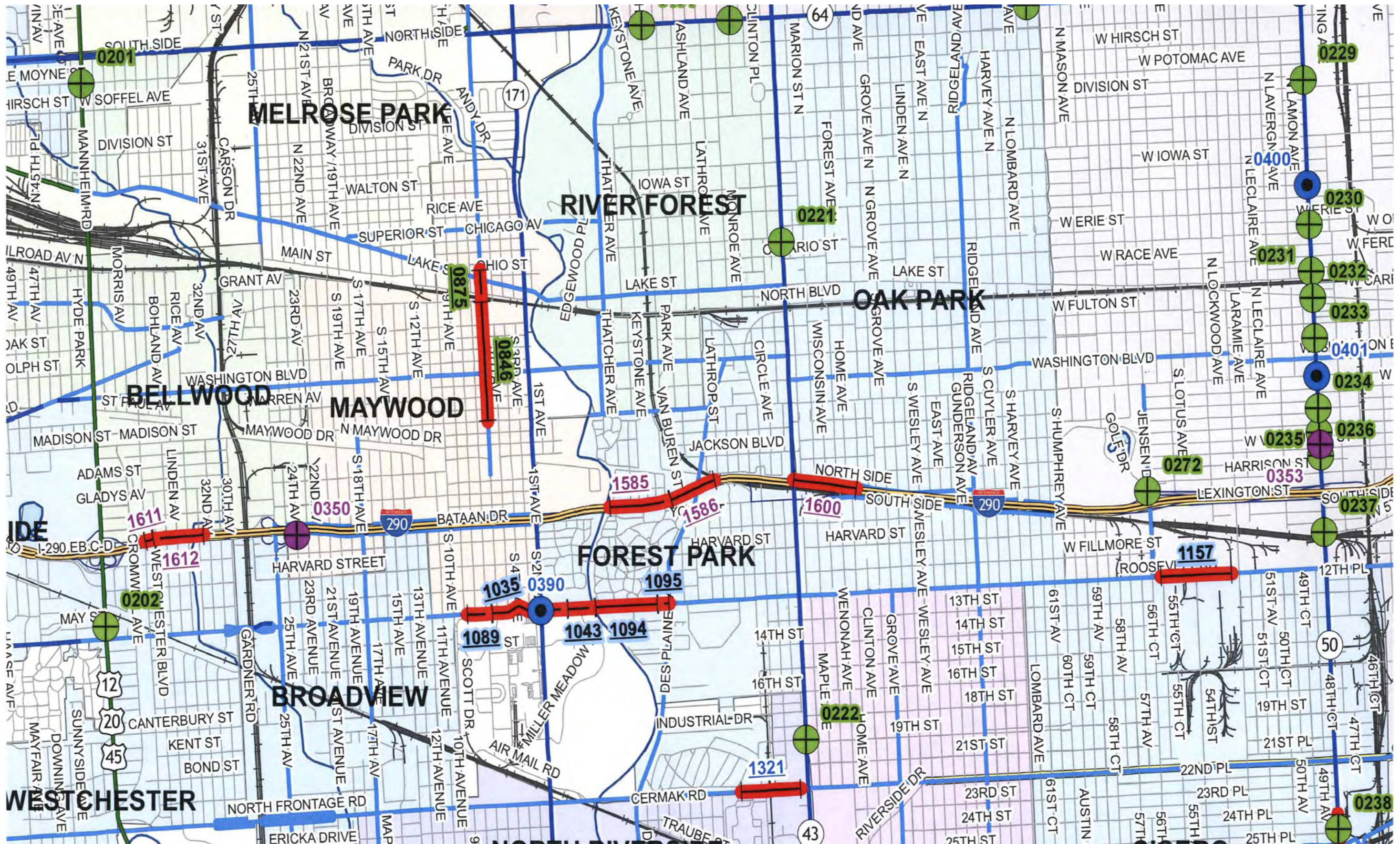
Three Year Crash Statistics

2006, 2007, 2008

Technical Memorandum

Appendix J

5% Report Crash Locations

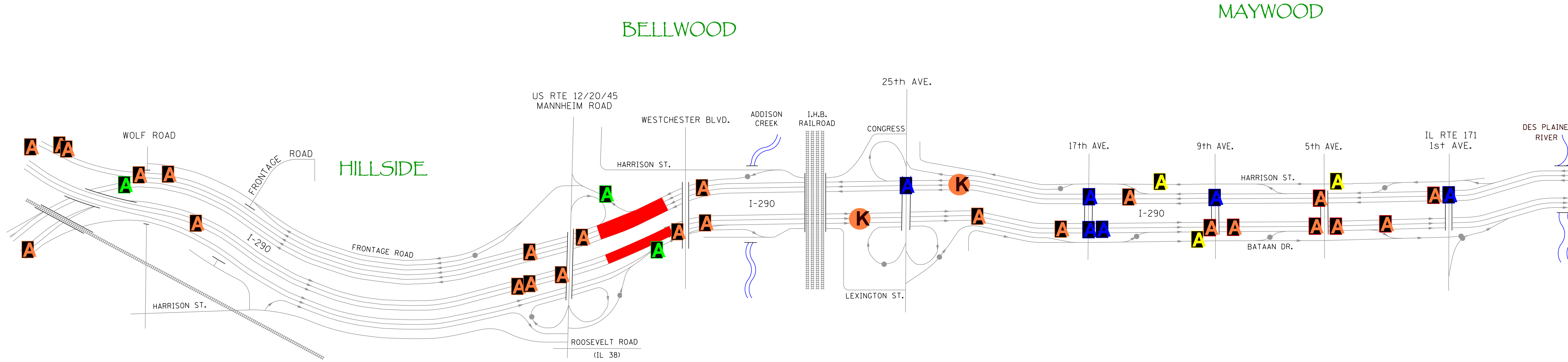


Technical Memorandum

Appendix K

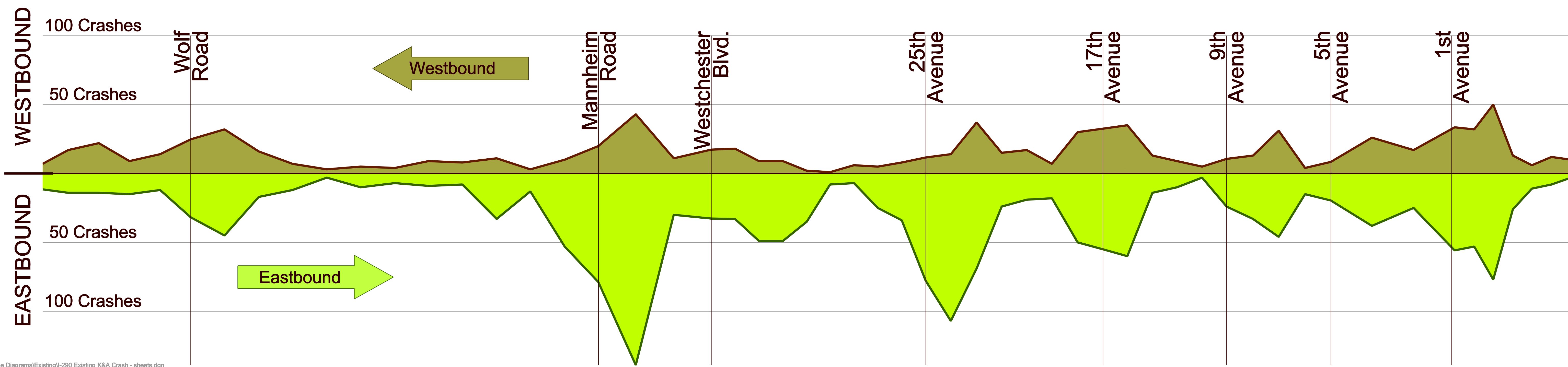
Study Area Severe and 5% Crash Locations

I-290 EISENHOWER EXPRESSWAY STUDY AREA SEVERE AND 5% CRASH LOCATIONS



- 5% Crash Locations**
- A **TYPE A CRASHES MAINLINE**
- K **TYPE K CRASHES MAINLINE**
- B **TYPE A CRASHES CROSSROADS**
- G **TYPE A CRASHES RAMPS**
- Y **TYPE A CRASHES FRONTAGE ROAD**

1/10 Mile 2006-2008 Crash Totals



6/2/2010
T:\16778a\Civil\Exhibits\Lane Diagrams\Existing\I-290 Existing K&A Crash - sheets.dgn

