2008 ANNUAL CRASH REPORT for the Cheyenne Urban Area





2008 ANNUAL CRASH REPORT FOR THE CHEYENNE URBAN AREA

March 2010

The purpose of this report is to disseminate yearly crash information for the Cheyenne Urban Area to a wide audience including the public, local law enforcement agencies, educators and policy makers. The report describes trends, conditions, and identifies "hot spots." Detailed information about individual crashes and locations is available upon request to the Cheyenne Metropolitan Planning Organization (MPO).

The data for this report is obtained from the WYDOT Safety Branch and is compiled by WYDOT from the Cheyenne Police, Laramie County Sheriff, and the Wyoming Highway Patrol collision reports. The crashes reported in this document are within the Cheyenne urban area, which includes the City of Cheyenne and surrounding county lands. Crashes on private property are included only when related to an access or intersection within a public roadway. The MPO did not request identification information, thereby maintaining privacy for individuals involved in the crashes.

According to an amendment to Wyoming Statute §31-5-1106, the driver of a vehicle involved in a collision after July 1, 1999 which results in injury, death, or property damage of at least \$1,000 must report the crash to the police, sheriff, or highway patrol, depending where the crash occurred. Prior to July 1, 1999, the monetary amount was \$500. The comparisons between years may be skewed because of this change.

Not all accidents in the database are represented geographically. If an accident location could not be determined within 50 feet from the written crash report description, no geographic coordinates are assigned. However, 100% of all the reported crashes are in the tabular database.

The MPO is very appreciative of the data and help provided by the WYDOT Safety Branch.

James Sims, Senior Transportation Planning Technician

Phone: 307-638-4308 Fax: 307-637-6308

e-mail: jsims@cheyennecity.org

Tom Mason, MPO Director

Phone: 307-637-6299 Fax: 307-637-6308

e-mail: tmason@chevennecity.org

Cheyenne MPO 2101 O'Neil Ave Room 205 Cheyenne, WY 82001



CONTENTS

Quick facts about 2008 Crashes, 2008	2
Transportation Safety Management Plan	3
Estimating the Cost of Injuries, 2008	5
Total Crashes, 1999-2008	6
Total & Alcohol Crashes, 1999-2008	6
Injury & Fatal Crashes, 1999-2008	6
Fatal Crashes, 1999-2008	7
Pedestrian & Bicycle Crashes, 1999-2008	7
Motorcycle Crashes, 1999-2008	7
Light Conditions	8
Road Conditions	8
Weather Conditions	8
Crashes by Month	9
Crashes by Day of Week	9
Crashes by time of Day	10
Crashes on Dell Range Blvd., 2004-2008	11
Intersection Crashes at Converse Ave & Dell Range Blvd, 2004-2008	11
Converse Ave & Dell Range Blvd Crash Diagram, 2008	12
Crashes by Date, 2008	15
Accident Summary Report, 2008	16
10 Year Accident Summary Report, 1999-2008	16
MAPS	
	40
Cheyenne Area Fatal Crashes, 2004-2008	13
Cheyenne Area Bicycle & Pedestrian Crashes, 2006-2008	14

QUICK FACTS ABOUT 2008 CRASHES

How many *crashes* were there in 2008? There were 1735 crashes in 2008. This is about a 6% decrease from 2007 in which there were 1851. (1836 in 2006)

How many *people* died or were injured in crashes in 2008? 2 people died in separate crashes. There were 565 people injured in 391 separate crashes. This compares to 5 fatalities in 2007 and 720 injuries in 469 separate crashes.

How many *drivers* were involved in crashes in 2008? There were 2,981 drivers involved in crashes. (3,277 in 2007)

How many *vehicles* were involved in crashes in 2008? There were 3,232 vehicles involved in crashes. (3,543 in 2006)

What month did most crashes occur in 2008? December with 171 crashes followed by February (154), July (152), January (150), May (149), August (148), October (145), March (143), November (139), September (130), April (127), and June (127)

What *day of the week* did most crashes occur in 2008? Friday with 321 crashes followed by Thursday (271), Wednesday (258), Tuesday (252), Saturday (240), Monday (219), and Sunday (174).

What *type* of crash was the most prevalent? Rear End crashes.

How many *hit-and-run* crashes were there in 2008? 224. (234 in 2007)

How many *pedestrians* were hit by cars in 2008? 17. (14 in 2007)

How many *bicyclists* were hit by cars in 2008? 11. (18 in 2007)

How can I learn more about crashes in the Cheyenne Area? Call the MPO office at 638-4308 for more information.

TRANSPORTATION SAFETY MANAGEMENT PLAN IMPLEMENTATION INITIATIVE

In 2007, the Cheyenne Metropolitan Planning Organization took a leadership role as one of the first MPOs in the country to develop a regional transportation safety plan. The MPO has since moved on to implementing several strategies identified in the plan. The MPO has been actively supported in its safety efforts by its regional safety partners and WYDOT Office of Highway Safety. The Cheyenne MPO safety efforts utilize crash data extensively from the annual MPO crash reports as well as data provided by WYDOT. The MPO has also actively pursued federal highway safety grants which have helped fund several implementation projects.

In 2008, the MPO received two separate grants from WYDOT. The first grant was used to organize a Law Enforcement Occupant Protection Summit. The second grant came through WYDOT Planning Department to conduct an Intersection Safety Study with field visits.

The MPO convened the Law Enforcement Occupant Protection Summit in May of 2009. Officers from Cheyenne Police Department, the Laramie County Sheriff's Office and Wyoming Highway Patrol were invited. Twelve officers attended the event. The purpose of organizing this summit was to talk about the issue of safety belt use in the Cheyenne area and support the efforts of enforcement officers in trying to increase safety belt use. Wyoming has a low safety belt usage rate and lags behind most of the other



Officers participating at the Summit

states in the US. Wyoming also does not have a primary seatbelt law. It has been seen that for states that do not have a primary seatbelt law, enforcement has been instrumental in increasing seatbelt use. The speakers shared occupant protection data with the officers. There was a peer-to-peer presentation by an officer. Also, WYDOT programs, resources and incentives were discussed. Finally, facilitated

group discussions were done to identify barriers to writing citations. This event was coordinated with the May Mobilization efforts in Wyoming. The MPO did a follow up analysis on citations written in the period between May 14th and July 6th. There were over 200 seatbelt citations written for the Cheyenne area in 2009 in comparison to 25 in 2008.

The MPO worked on an Intersection Safety Study with national safety experts. The study included a data driven process to identify typical crash patterns at several intersections in the Cheyenne metropolitan area. A total of twenty

intersections were prioritized and field visits were done at these locations. A multidisciplinary team helping the MPO with intersection safety also accompanied the consultants to several of the sites where field visits were done. After completion of field visits, safety countermeasures for each of these



Intersection Safety Analysis

20 intersections were identified and provided in the report. This study will assist City, County and State to invest in intersection safety improvements which could potentially decrease crashes at these locations.

The MPO with help from the TSAC (Transportation Safety Advisory Committee) and the Safety Emphasis Teams continues to plan for future activities which help implement the Transportation Safety Management Plan strategies. Based on the number of fatalities and injuries, the TSAC had selected 6 AASHTO emphasis areas for focus in Cheyenne, which are Impaired Driving (primarily alcohol), Distracted Drivers, Intersections and Other Hazardous Locations, Occupant Protection, Older Drivers and Younger Drivers. The MPO holds periodical Emphasis Team Meetings to review crash data and evaluate its progress. The teams also revisits the Transportation Safety Management Plan and identifies future action steps that help implement strategies identified in the plan. As a result of the efforts of the Safety Emphasis Teams, the MPO was awarded two grants in 2009 to implement strategies in the occupant protection emphasis area.

ESTIMATING THE COST OF INJURIES, 2008

Adapted from the National Safety Council

The National Safety Council makes estimates of the average costs of fatal and nonfatal unintentional injuries to illustrate their impact on the nation's economy. The costs are a measure of dollars spent and income not received due to accidents, injuries, and fatalities.

Cost estimation is not exact -- it can only be approximated. The estimates depend on many factors.

The figures provided by NSC can be used to estimate the actual costs to the Cheyenne area of deaths and injuries. The comprehensive cost figures (discussed below) should be used for cost benefit analyses.

The calculable costs of motor-vehicle crashes are wage and productivity losses, medical expenses, administrative expenses, motor vehicle damage, and employer costs. In addition to the economic cost components listed above, the following comprehensive costs also include a measure of the value of lost quality of life which was obtained through empirical studies of what people actually pay to reduce their safety and health risks.

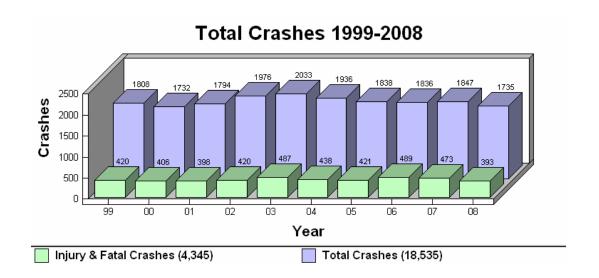
More information about estimating the cost of injuries is available at the National Safety Council website at www.nsc.org.

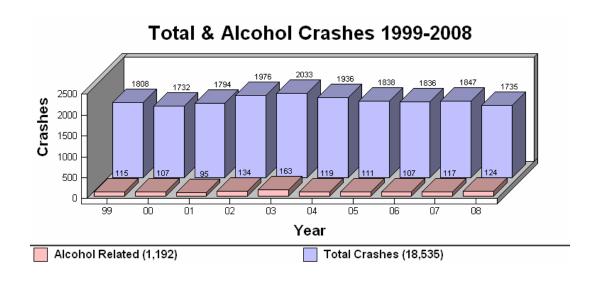
Cost of Injury Report for Cheyenne Crashes, 2008							
Type of Injury	Cost Per Event*	Number of Events	Total by Type of Injury				
Death	\$4,100,000	2	\$8,200,000				
Incapacitating	\$208,500	43	\$8,965,500				
Non-Incapacitating Evident	\$53,200	204	\$10,852,800				
Possible Injury	\$25,300	327	\$8,273,100				
No Injury	\$2,300	3689	\$8,484,700				
Total		4265	\$44,776,100				

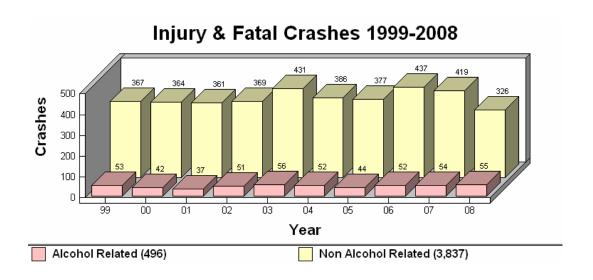
INCAPACITATING INJURIES An incapacitating injury is any injury that prevents a person from walking, driving, or continuing normal activities the person was capable of performing before the injury occurred. If the person is not able to leave the crash scene unassisted, that person is incapacitated.

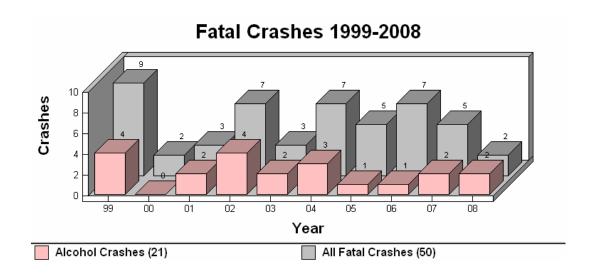
NON-INCAPACITATING INJURIES A non-incapacitating injury is any injury that is not incapacitating, but is evident to anyone at the crash site such as, a lump on the head, abrasions, bruises or minor lacerations.

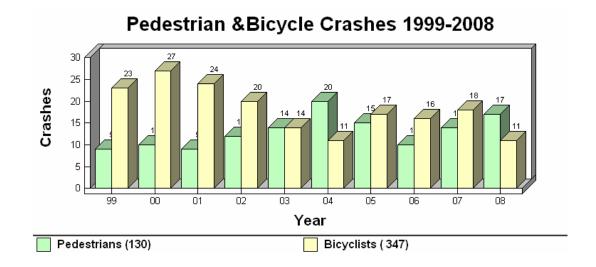
POSSIBLE INJURIES A possible injury is any injury that is not incapacitating, or non-incapacitating, but is reported by the person such as, limping, momentary unconsciousness, pain, nausea, hysteria, etc.

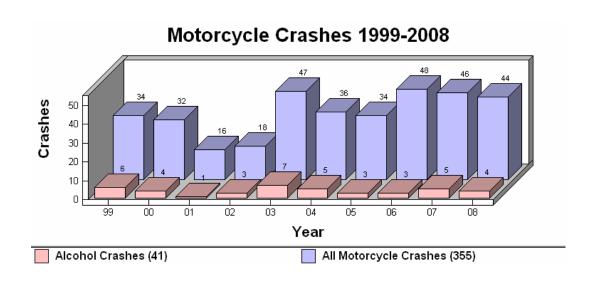


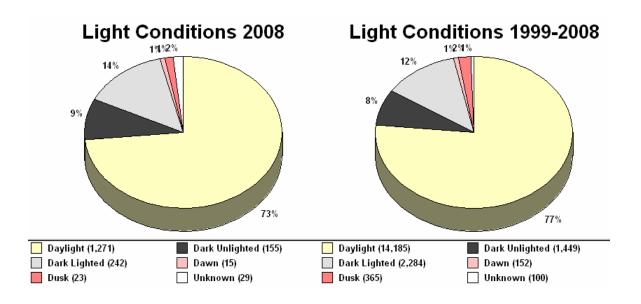


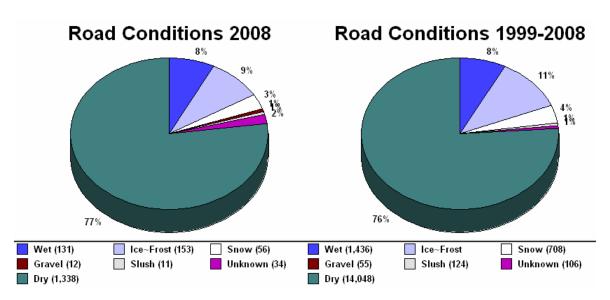


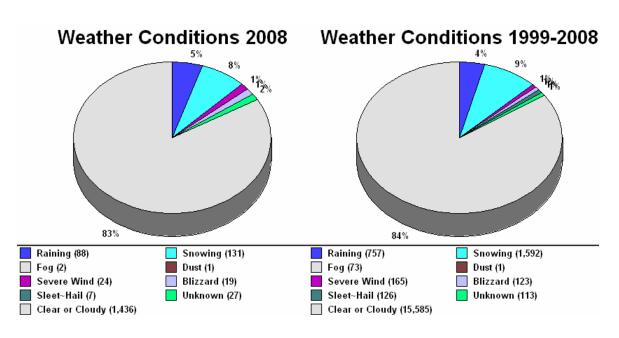




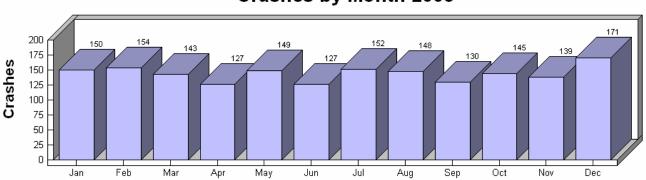




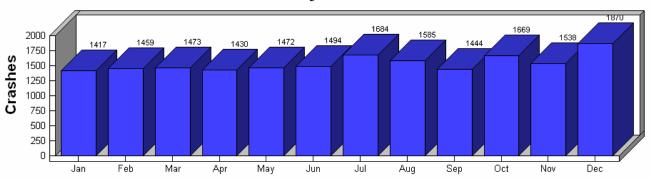




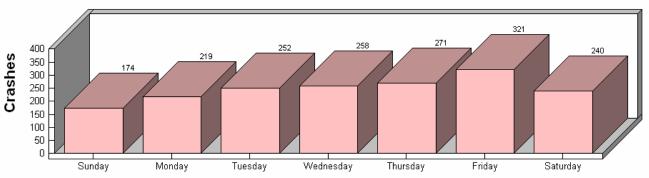
Crashes by Month 2008



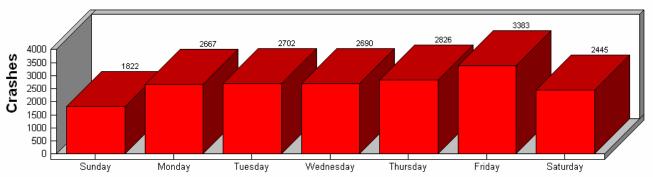
Crashes by Month 1999-2008



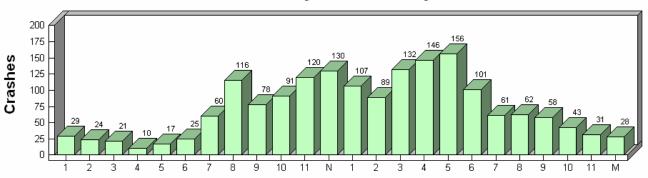
Crashes by Day of Week 2008



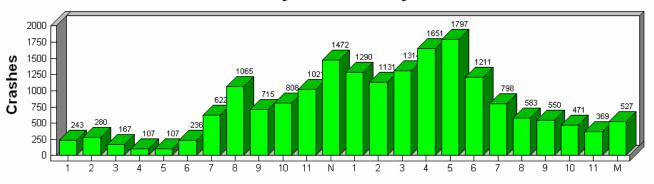
Crashes by Day of Week 1999-2008







Crashes by Time of Day 1999-2008

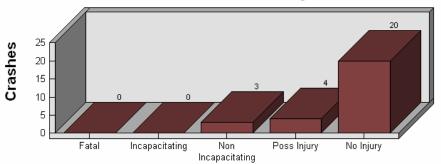




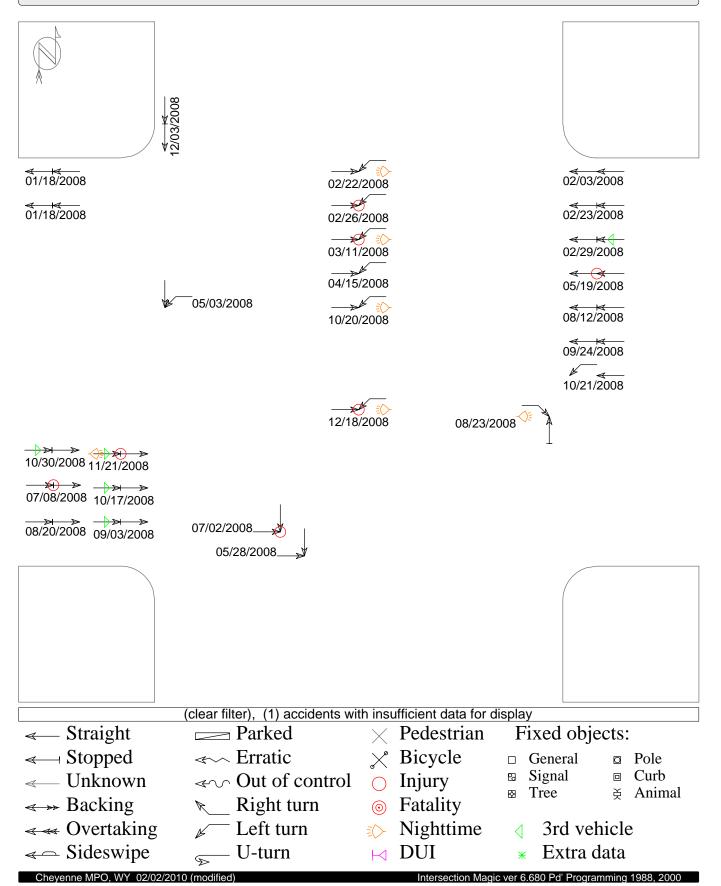
Crashes on Dell Range, 2004-2008								
	Total	% Change from Previous Year	Injury Crashes	% Change from Previous Year	Injuries	% Change from Previous Year		
2008	187	- 15.0%	49	- 26.8%	88	- 17.8 %		
2007	220	- 5.2%	66	- 10.8%	107	- 14.4%		
2006	232	4.9%	74	21.3%	125	11.6%		
2005	221	1.8%	61	7.0%	112	28.7%		
2004	217	5.8%	57	- 3.4%	87	3.6%		

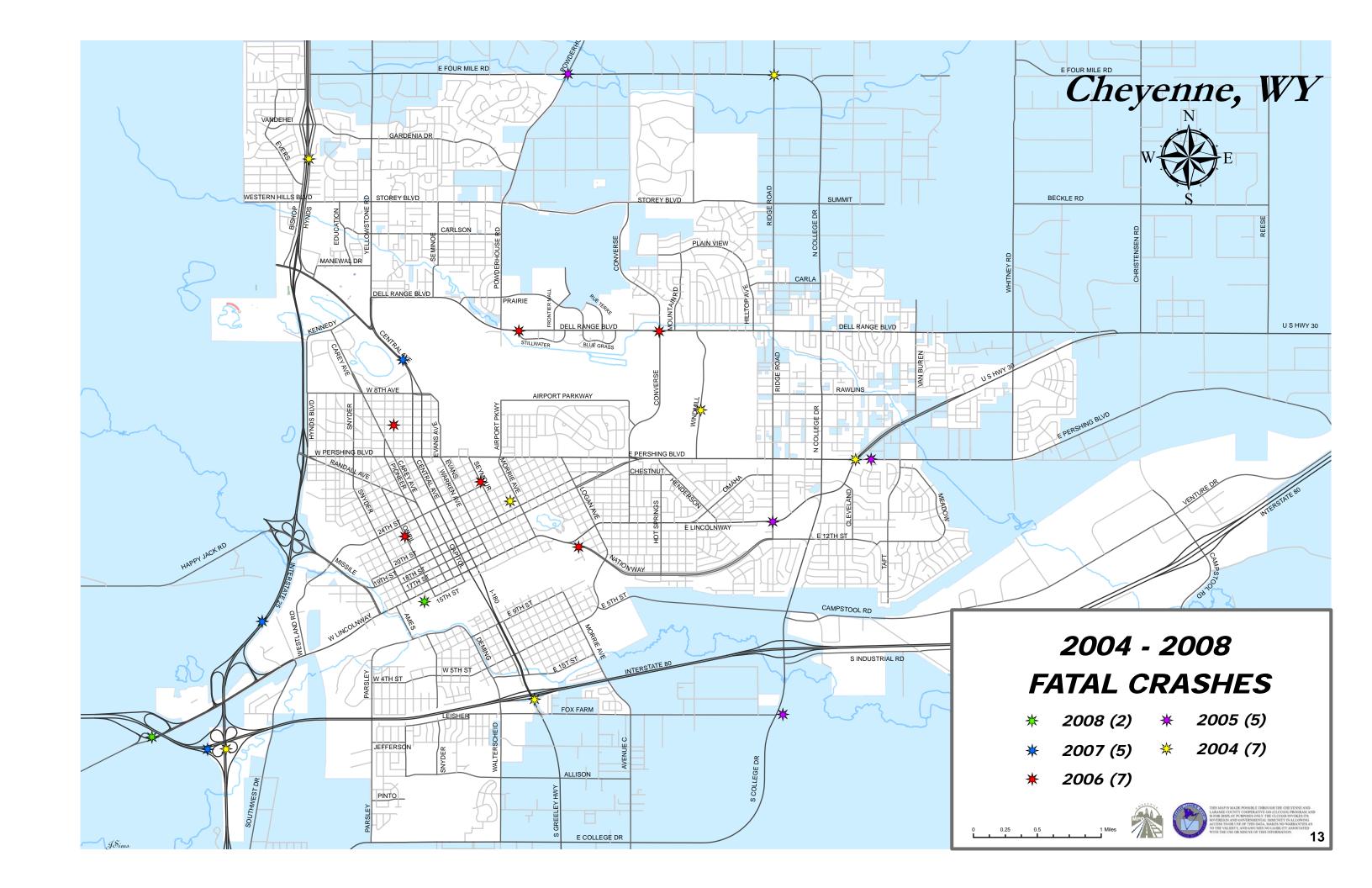
Intersection Crashes at Converse Ave & Dell Range Blvd, 2004-2008								
Year	Total	% Change	Injury Crashes	% Change	Collision Type			
2008	27	- 20.6%	7	-36.4%				
2007	34	- 12.8%	11	- 42.1%	55% of the Crashes at			
2006	39	18%	19	46%	this intersection were			
2005	33	- 23%	13	- 13%	Rear End Crashes			
2004	43	59%	15	67%				

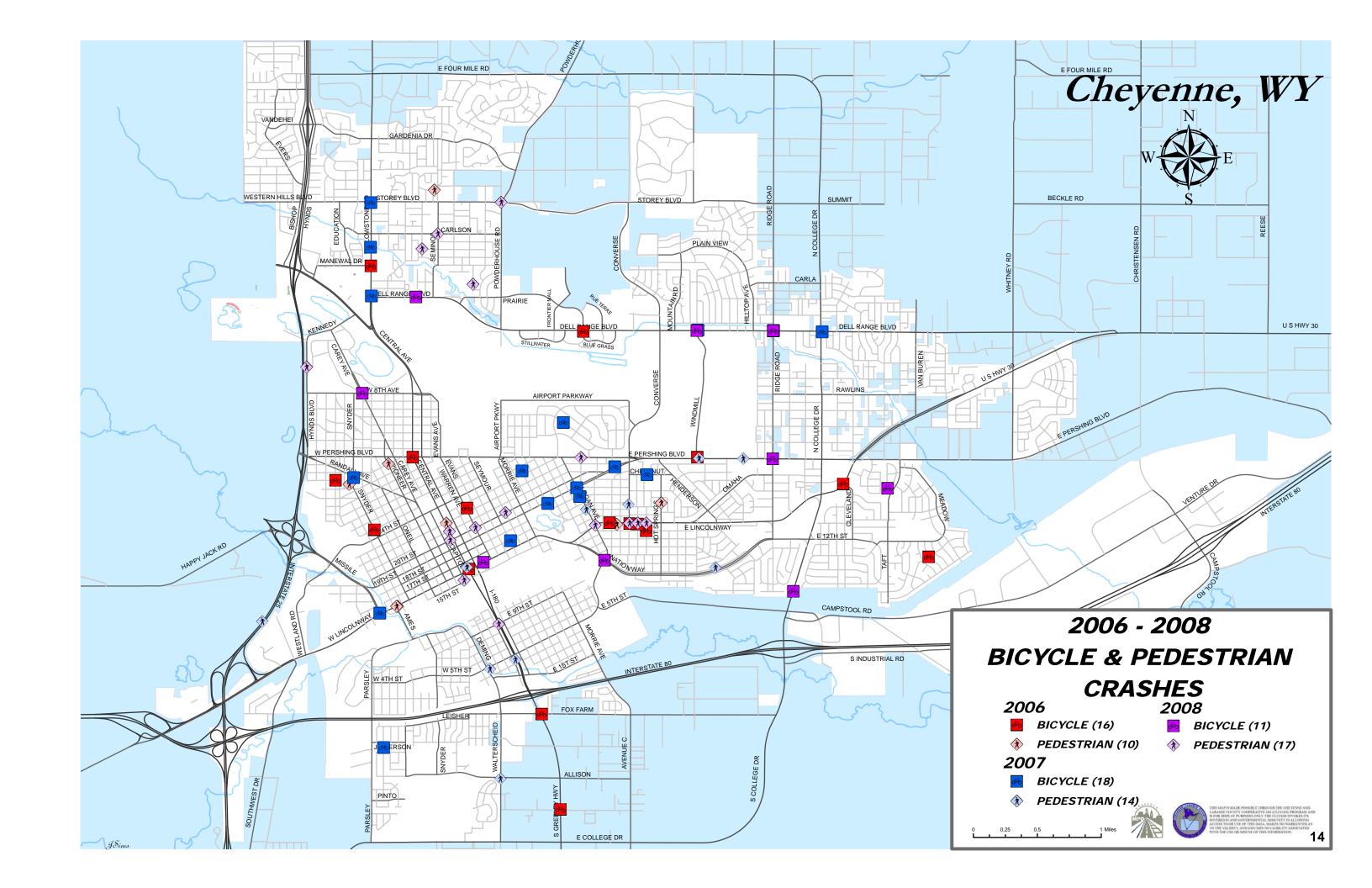




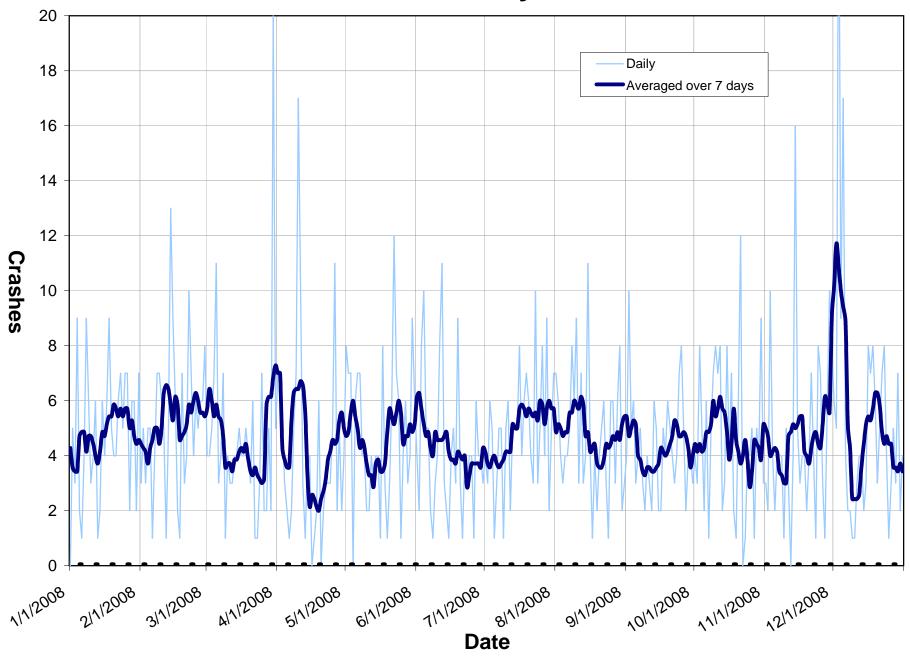
Converse Ave & Dell Range Blvd 27 Accidents 01/01/08 - 12/31/08







2008 Crashes by Date



Accident Summary Report 2008

Greater Cheyenne Area

Severity Multi-Vehicle Month									
PDO: 1342		One Vehi		: 351 Jan: 150 Apr: 127 July: 152 (Oct:	145
	:Injured		vo Vehicles: 1283 Feb: 154 Ma				ıg: 148	Nov:	
		hree or Mo			June: 12		pt: 130	Dec:	
Manner of Collision First Harr							•		
Head	Pedes	Pedestrians: 17 Overturned: 55					55		
Rear E	End: 446		E	Bicycle: 11			Jack	kknife: 9	9
Angle Same Direct		Domestic Animal: 1				Parked Motor Vehicle: 201			
Angle Opp Direct		Wild Animal: 22			Berr		/Embank		
Angle Ri	-		Light/Utilit	y Pole: 16			ee/Shrub/		
Angle Unk Direct				Sign: 11	J	lump/P	ushed/Th		
Sideswipe (San	,		Guard Rail				Traffic B		
Sideswipe (Oppos			Bridge Str				Wall/Bu	-	
Other Collis			Culvert/He			0.1		ailbox: 4	
Not Collis				Fence: 27			er Fixed C	-	
Unkno	wn: 28	Ra	aised Mediar		Ir		g Other C		
			Delineato				r Non Col		
	Weather C		ns R	oad Descri	_	L	<u> ighting</u>		
	Clear or Clou	•		At Intersection				ylight:	
Dry: 1338		ain: 88		Priveway Acces			Dawn or		
	Wet: 132 Snowing: 149			Intersection Related: 302			Dark-Lighted: 242		
Muddy/Dirt: 12		og: 2		Non Junction: 522			Dark-Unlighted: 155		
,	Snow/Sleet/F			Ramp: 42			Unk	nown: 2	29
lcy: 154		nd: 24		Other: 7 Unknown: 105					
Slushy: 11 Other: 7		ard: 1			vii. 105		Duinkin		
Unknown: 32	Unkno	wn: 28		it & Run & Run: 224	Ye	s: 12	Drinking	9 o: 1509)
Vehicle Type	O Vob	Vol. 0		•		Veh 1 Veh 2			
Passenge		700		Going Straight:		712		-3am:	
_	Pickup: 330	280		Blowing Down:		52		-6am: :	
'	SUV: 226	177		ped in Traffic:		252		-9am: 2	
Passenge		76	•	g a Right Turn:		34		12pm: 3	
_	o Van: 11	1		ng a Left Turn:		74		-3pm: 3	
_	ol Bus: 1	2		king a U-Turn:		1		-6pm: 4	
	er Bus: 6	2		Passing:		11		-9pm: 2	
Construction Ma		0	_				12am:		
Motorcycle < 150cc: 6		0	Enter/Leave Parked: 10 3 Day of						
Motorcycle > 150cc: 21		18				ınday:			
Scooter: 1		0	•			onday: 2			
Light Truck: 8		5	Ch	anging Lanes:	51	6		esday: 2	
Medium Truck: 4		6	Negotiating Curve: 46 7 Wednes		esday: 2	258			
Heavy truck > 26,000: 60		34		Other Action:	0	1	Thu	rsday: 2	271
Other	Type: 5	3		Driverless: 8 3 Fr		riday: 3	321		
Unk	known: 48	9		Unknown:	52	7	Sat	urday: 2	240
		Tot	al Accid	ents: 1,73	35				

10 Year Accident Summary Report

1/1/1999 - 12/31/2008 Greater Cheyenne Area

Severity	Severity Multi-Vehicle Month													
PDO: 76.6%	One Vehicle:		Jan: 7.6%	Apr: 7.7		ıly: 9.1%	Oct: 9.0%							
INJ: 23.2% 6517 :Injured	Two Vehicles:			May: 7.9		ıg: 8.6%	Nov: 8.3%							
FAT: 0.3% 52 :Killed		ree or More: 6.6% Mar: 7.9%				ept: 7.8%	Dec: 10.1%							
Manner of Collision			First Ha	June: 8.1 <mark>rmful</mark>										
Head On: 2.4%		Pedestrians: 0.7% Overturned: 2.4%												
Rear End: 25.8%		Bicycle: 1.0% Jackknife: 0.0%												
Angle: 22.9%		Domestic Animal: 0.1% Parked Motor Vehicle: 11.3%												
Sideswipe (Same): 9.4%			nimal: 0.7%				on Rd: 71.1%							
Sideswipe (Opposite): 1.4%		ght/Utility	Pole: 1.3%	Berr	n/Ditch	/Embank	ment: 0.5%							
Other Collision: 20.4%	6		Sign: 0.8%		Tre	e/Shrub/	Rock: 0.4%							
Not Collision: 1.8%	Gua	ard Rail/0	Cable: 2.5%			Traffic B	arrier: 0.3%							
Unknown: 15.9%	6 Br	idge Stru	cture: 0.5%			Wall/Bu	ilding: 0.4%							
	Cu		dwall: 0.1%				ailbox: 0.1%							
			ence: 1.4%				bject: 0.3%							
			/Curb: 1.0%	Ir			Object: 0.8%							
			Post: 0.4%				lision: 1.3%							
	r Conditions	R	oad Descri				Conditions							
	Cloudy: 84.1%		At Intersection			Daylight: 76.5%								
Dry: 75.8%	Rain: 4.1%		At Driveway Access: 10.1%				Dawn or Dusk: 2.8%							
	owing: 8.6%	Inter	Intersection Related: 25.4%			Dark-Lighted: 12.3%								
Muddy/Dirt: 0.3%	Fog: 0.4%					Dark-Unlighted: 7.8% Unknown: 0.5%								
,	et/Hail: 0.7%			er: 0.0%		Unk	nown: 0.5%							
lcy: 11.1%	Wind: 0.9%		Unknow	11. 0.0%		Duintin								
,	izzard: 0.7% known: 0.6%			Vo	s: 6.4°	Drinking	9 : 93.0%							
		iolo Ma	avomont.											
	h 1 Veh 2 Veh			ent Veh 1 Veh 2 Time of E raight: 59.6% 42.7% 12am-3am: 4			ne of Day							
Passenger Car: 63	.5% 54.5% .8% 18.3%		lowing Down:		42.7%		-6am: 2.1%							
Passenger Van: 5.			ped in Traffic:		16.1%		-9am: 11.7%							
Cargo Van: 0.			a Right Turn:		2.3%		12pm: 15.8%							
School Bus: 0.			g a Left Turn:		4.8%		-3pm: 20.3%							
Other Bus: 0.			ing a U-Turn:		0.1%		-6pm: 26.2%							
Construction Machine: 0.			Passing:		0.4%		-9pm: 11.6%							
Motorcycle < 150cc: 0.			Backing Up:		1.2%		12am: 8.1%							
Motorcycle > 150cc: 1.	2% 0.7%	Enter/L	eave Parked:	1.4%	0.2%	Day	of the Week							
Motor Home: 0.		E	intering Lane:	0.2%	0.0%	_	ınday: 9.8%							
Light Truck: 0.	0% 0.0%		Parked:	0.1%	11.6%	Mo	onday: 14.4%							
Medium Truck: 0.			anging Lanes:		0.7%		esday: 14.6%							
Heavy Truck > 26,000: 2.		_	tiating Curve:		0.0%		esday: 14.5%							
Emergency Veh: 0.			Other Action:		0.3%		rsday: 15.2%							
Other Type: 0.			Driverless:		0.0%		riday: 18.3%							
Unknown: 3.			Unknown:		0.1%	Sati	urday: 13.2%							
	Total A	Accide	nts: 18,53	35			Total Accidents: 18,535							