

Safety: Don't Become a Statistic March 29th, 2006

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Wyoming Department of Employment, Research & Planning



Topics

- Comparison of Research & Planning (R&P) and OSHA functions.
- How R&P and OSHA use one another's data.
- How R&P obtains injury and fatality data.
- Most recent statistics on occupational injuries and fatalities in the U.S. and Wyoming.
- Focus on traffic accidents.



R&P's and OSHA's Roles in Occupational Safety

 OSHA and R&P are both housed in the Wyoming Department of Employment.



- R&P is part of the Unemployment Tax Division.
- OSHA is part of the Workers' Safety & Compensation Division.
- OSHA has a direct role in worker safety and health while R&P's role is indirect.





R&P's and OSHA's Roles in Occupational Safety Continued

OSHA

- Oversees the implementation and enforcement of worker safety regulations.
- Helps employers with accident prevention strategies.
- Does not investigate work-related traffic deaths.
 - Traffic accidents are the leading cause of occupational fatalities in both Wyoming and the U.S.

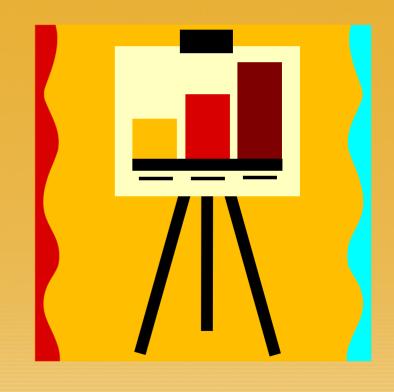
R&P

- Collects and analyzes health and safety data.
 - Survey of Occupational Injuries and Illnesses (SOII)
 - Census of Fatal Occupational Injuries (CFOI)
- By Federal law, data that allows individual firms or workers to be recognized cannot be released.



How R&P and OSHA Use One Another's Data

- OSHA uses SOII and CFOI data to track accident and illness trends.
- R&P uses OSHA accident reports to confirm work-related fatalities for CFOI.





Injuries and Illnesses Defined

- Injuries are acute (short term).
 - A broken arm from a fall down the stairs
 - A concussion from being hit on the head by a hammer
- Illnesses are chronic (long term).
 - Carpal tunnel syndrome
 - Black lung disease



Obtaining Occupational Injury & Fatality Data

U.S. Department of Labor

- Nonfatal injury and illness data are collected via the SOII.
- •If selected to participate in the SOII, your firm will first receive a notice of requirement to participate in December prior to the year you are you required to participate.
- •Over the course of the year, your firm keeps track of work-related injuries or illnesses that occur on the OSHA 300 form included in the Notification booklet.
- •The SOII is the only mandatory survey R&P conducts.

Notification of Requirement to Participate in the Survey of Occupational Injuries and Illnesses – Calendar Year 2006



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- IMPORTANT -

- Maintain the information required for all recordable work-related injuries and illnesses that occur during calendar year 2006 for the establishment(s) identified on the cover under Reporting Site.
- Keep these records and use them to complete the Survey of Occupational Injuries and Illnesses that we will send to you early in 2007.



Obtaining Occupational Injury & Fatality Data Continued

Survey of Occupational Injuries and Illnesses, 2005



U.S. Department of Labor Bureau of Labor Statistics YOUR RESPONSE IS REQUIRED IN 30 DAYS.

Please correct your company address as needed.

For your convenience, you can submit your survey response on our website at https://idcf.bls.gov.

See the brochure inside this booklet for more information!

We estimate it will take you an average of 24 minutes to complete this survey (ranging from 10 minutes to 5 hours per package), including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing this information. If you have any comments regarding the estimates or any other aspect of this survey, including suggestions for reducing this burden, please send them to the Bureau of Labor Statistics, Occupational Safety and Health Statistics (1220-0045), 2 Massachusetts Avenue, N.E., Washington, DC 20212. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. DO NOT SEND THE COMPLETED FORM TO THIS ADDRESS.

The Bureau of Labor Statistics, its employees, agents, and partner statistical agencies, will use the information you provide for statistical purposes only and will bold the information in confidence to the full extend the product of the confidential Information Protection and Statistical Efficiency Act of 2002 (Title 5 of Public Law 107-347) and othe applicable Federal laws, your responses will not be disclosed in identificial form without your informed consent.

OMB No. 1220-0045 Approval expires 08-31-0 BLS-9300 N06

- In January following the year your firm tracked injuries/illnesses, your firm will receive a 2nd booklet.
- Record any injuries or illnesses that occur in the booklet, along with some employment information, then mail it back.
- R&P can't accept the 300 form.
- Even if your firm did not have any injuries or illnesses, we need your information.



Obtaining Occupational Injury & Fatality Data Continued

- Report only those injuries or illnesses that required a doctor's treatment.
 - Set bones
 - Prescriptions
 - Stitches
- The following are not considered doctor's treatment, even if performed by a doctor.
 - Diagnostic tests
 - X-rays
 - · blood tests
 - First aid
 - Band aids
 - Flushing of eyes with water
 - Pulling splinters or other objects with tweezers



Occupational Injury Data After the Survey



- Using the information that firms provide, estimates of nonfatal injuries and illnesses are developed at the state and national levels.
- Data are used for a variety of purposes by agencies such as OSHA.



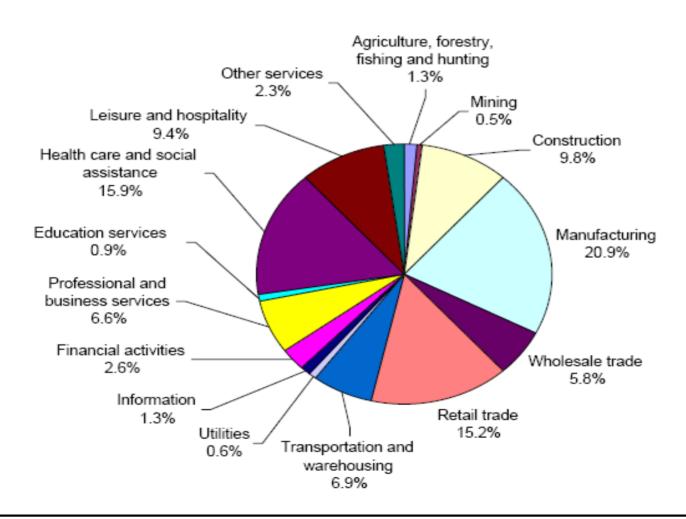
Collecting Occupational Fatality Data

- Administrative and public records are the main data sources
 - Death certificates
 - OSHA reports
 - News media reports
- Only rarely are employers ever directly contacted about work-related deaths.
- CFOI data are used for purposes similar to SOII data.



Nonfatal Injuries & Illnesses – U.S.

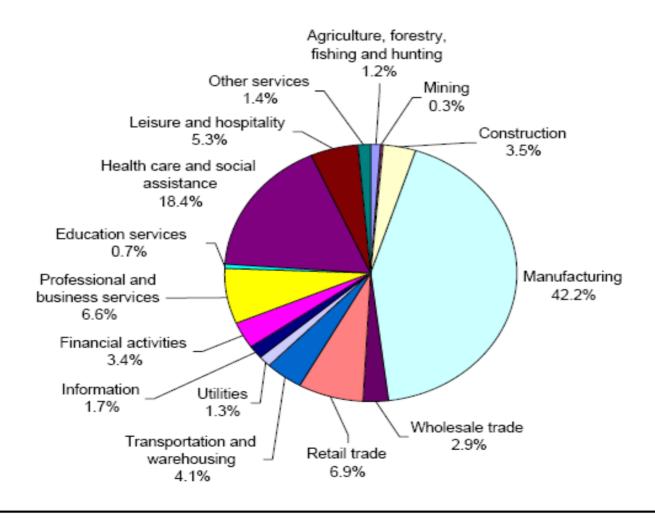
Chart 2. Percent of nonfatal workplace injuries by industry sector, 2004





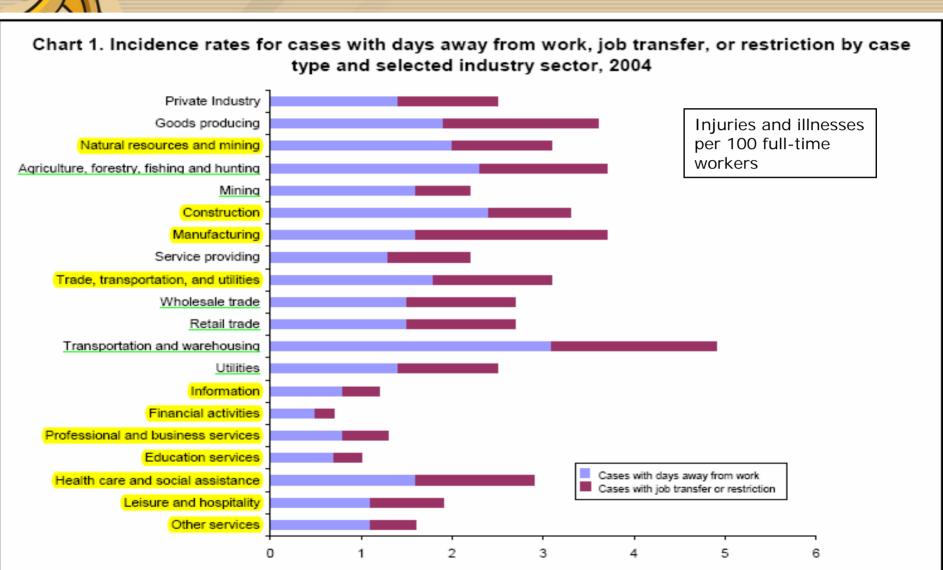
Nonfatal Injuries & Illnesses – U.S. Continued

Chart 3. Percent of nonfatal workplace illnesses by industry sector, 2004





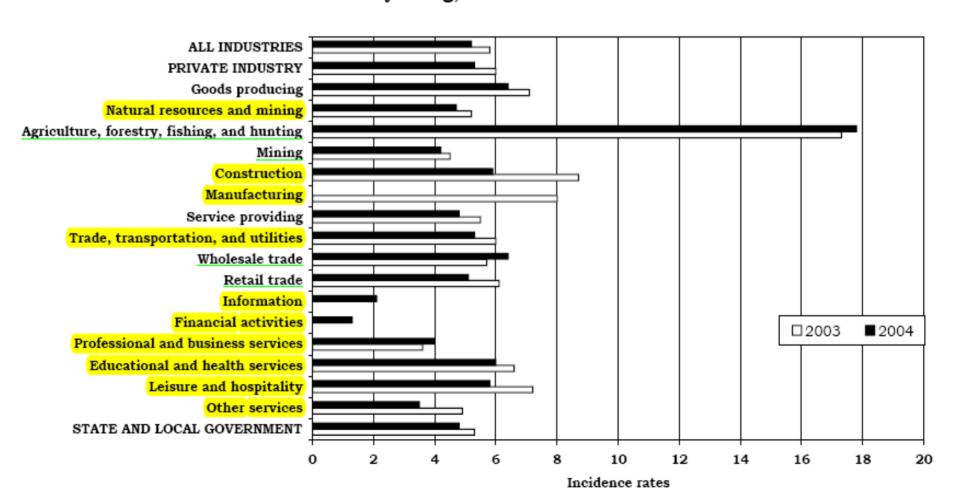
Nonfatal Injuries & Illnesses – U.S. Continued





Nonfatal Injuries & Illnesses – Wyoming

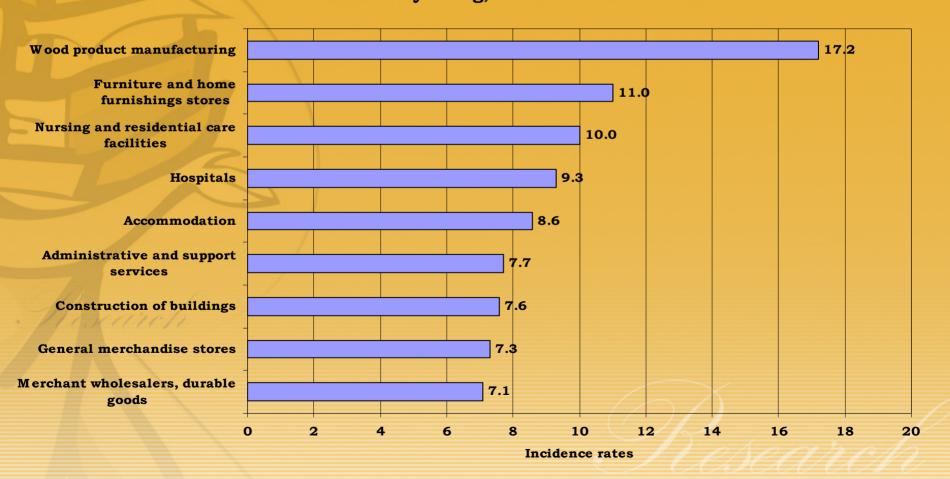
Incidence rates per 100 full-time workers for total nonfatal occupational injuries and illnesses by major industry sector, Wyoming, 2003 & 2004





Nonfatal Injuries & Illnesses – Wyoming Continued

Major industry groups with the highest nonfatal occupational injury and illness incidence rates per 100 full-time employees for total cases, Wyoming, 2004





Nonfatal Injuries & Illnesses U.S./ Wyoming Comparison

- Agriculture, Forestry,

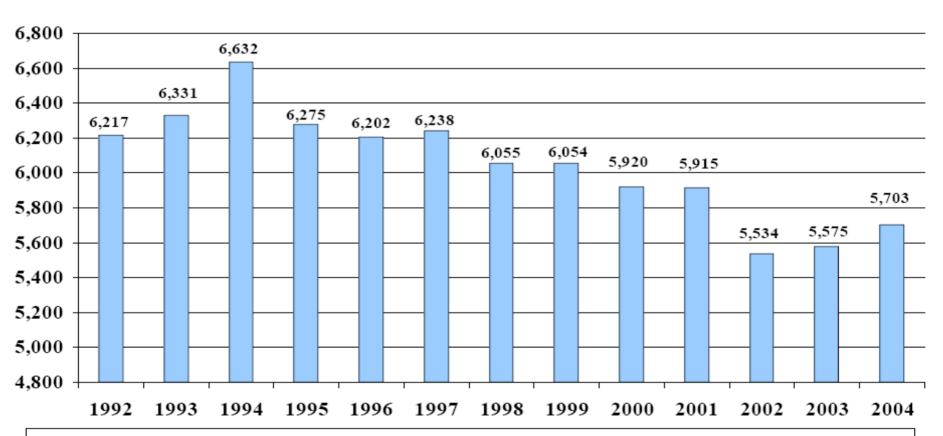
 Fishing & Hunting had the highest incident rate in Wyoming.
- Transportation & Warehousing had the highest rate nationwide.
- Financial Activities had the lowest rate for both the U.S. and Wyoming.





Fatal Workplace Injuries – U.S.

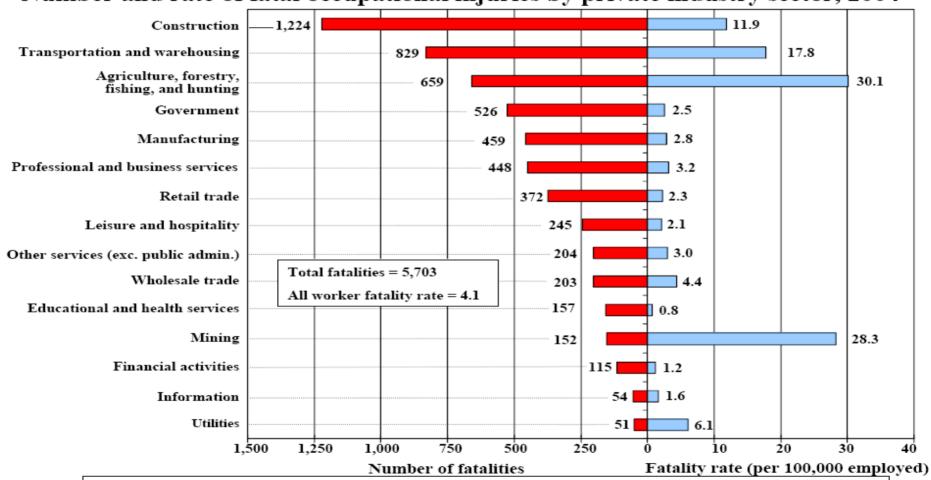
Number of fatal work injuries, 1992-2004



The 5,703 work-related fatalities recorded in 2004 represents an increase of 2 percent from the revised total of 5,575 fatal work injuries reported for 2003.



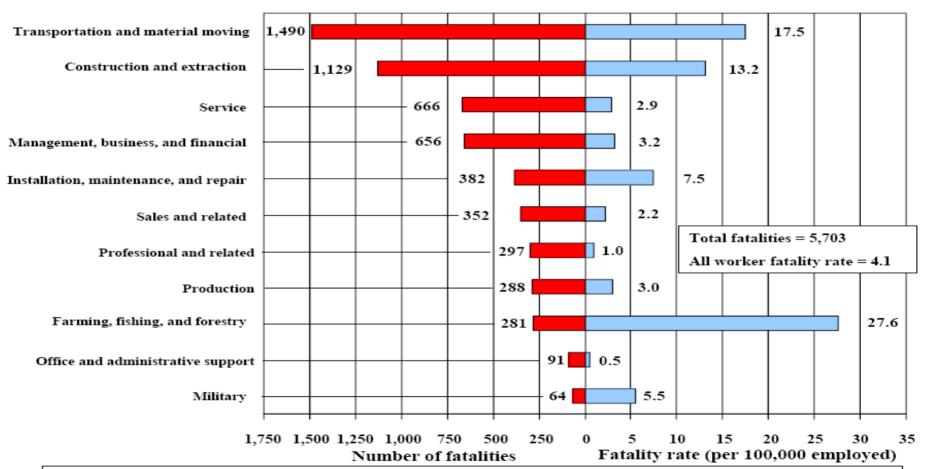
Number and rate of fatal occupational injuries by private industry sector, 2004



Although the construction sector recorded the highest number of fatal injuries, the highest fatality rates were in agriculture, forestry, fishing, and hunting and in mining.



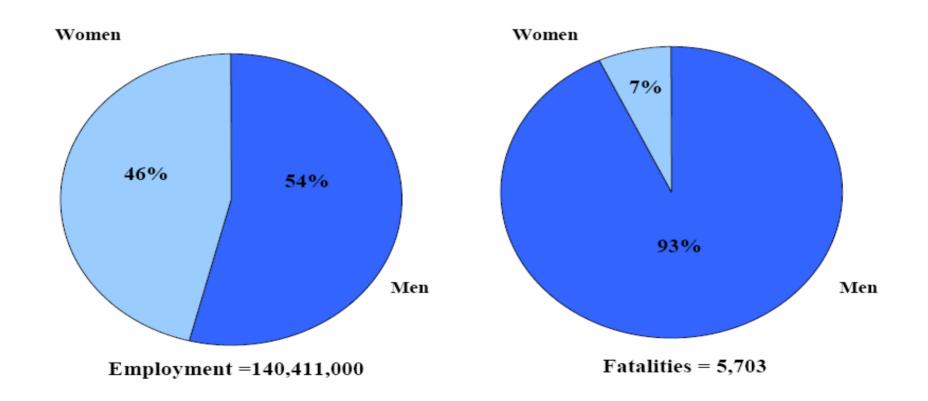
Number and rate of fatal occupational injuries by major occupation groups, 2004



Although transportation and material moving occupations recorded the highest number of fatal work injuries, the highest fatality rates were in farming, fishing, and forestry.



Employment and fatality profiles by gender of worker, 2004



Men continued to record a disproportionate share of fatalities relative to their employment in 2004.



Table: U.S. Employment by Industry and Gender, 2003 (In Thousands)

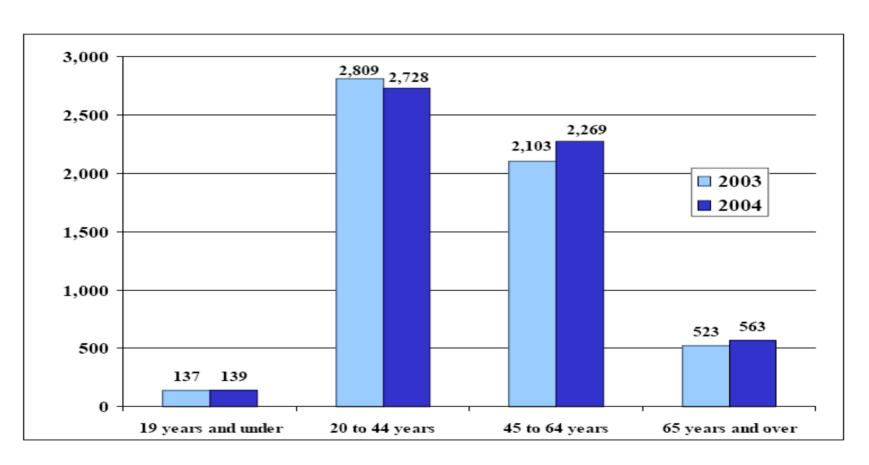
	Meı	n l	Wom	en	Tota	վ
NAICS ^a Industry	Number	%	Number	%	Number	%
Natural Resources & Mining	2,147	2.9%	653	1.0%	2,800	2.0%
Construction	9,146	12.5%	975	1.5%	10,121	7.3%
Manufacturing	11,734	16.0%	5,168	8.0%	16,902	12.3%
Wholesale Trade, Transportation, &	8,387	11.4%	3,049	4.7%	11,436	8.3%
Utilities		2, 1 (2,014-7)				
Retail Trade	8,295	11.3%	7,925	12.3%	16,220	11.8%
Information	2,084	2.8%	1,603	2.5%	3,687	2.7%
Financial Activities	4,314	5.9%	5,434	8.4%	9,748	7.1%
Professional & Business Services	7,914	10.8%	5,966	9.3%	13,880	10.1%
Educational Services	3,608	4.9%	8,218	12.8%	11,826	8.6%
Health Care & Social Assistance	3,383	4.6%	13,050	20.3%	16,433	11.9%
Leisure & Hospitality	5,647	7.7%	5,961	9.3%	11,608	8.4%
Other Services Exc. Public Admin.	3,331	4.5%	3,504	5.4%	6,835	5.0%
Government	3,343	4.6%	2,899	4.5%	6,242	4.5%
Total	73,333	100.0%	64,405	100.0%	137,738	100.0%

^aNorth American Industry Classification System.

Source: U.S. Department of Labor, Bureau of Labor Statistics. (2005, May). *Employed Persons by Industry and Sex*, 2003-04 Annual Averages. Retrieved March 22, 2006, from http://www.bls.gov/cps/wlf-databook2005.htm



Comparison of fatal work injury counts from 2003 to 2004 by age groups



The number of fatal injuries rose for workers 45 years of age and older in 2004, but the number of fatalities for workers 44 years of age and younger declined.



Fatal Workplace Injuries Wyoming

Figure 1: Total Wyoming Fatal Occupational Injuries, 1993-2004

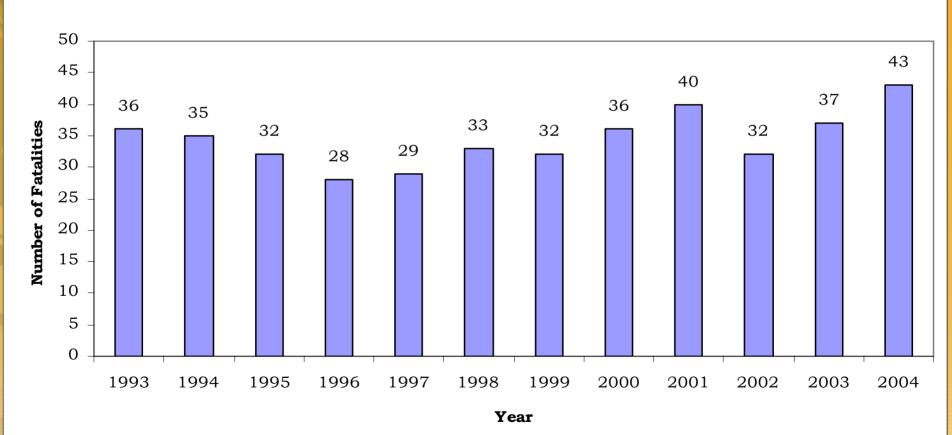




Table 1: Wyoming Fatal Occupational Injuries by Industry, 2004

	<u>2</u> 0	004 Fataliti	<u>es</u>
		Percent of	
		Total	Change
Industry ^a	Number	Fatalities	from 2003
Agriculture, Forestry, Fishing, & Hunting	3	7.0%	0
Mining ^b	8	18.6%	0
Construction	6	14.0%	1
Trade, Transportation, & Utilities	16	37.2%	6
Public Administration ^c	5	11.6%	3
All Other Industries	5	11.6%	-4
Total	43	100.0%	6

^aClassified according to the North American Industry Classification System (NAICS), 2002.

^bIncludes fatalities at all establishments classified as Mining (Sector 21) in NAICS, including establishments not governed by Mine Safety and Health Administration (MSHA) rules and reporting, such as those in Oil & Gas Extraction.

^cIncludes fatalities to workers employed by governmental organizations regardless of industry.



Table 2: Wyoming Fatal Occupational Injuries by Gender and Age, 2004

	2004 Fatalities					
3	Number	Percent of Total Fatalities	Change from 2003			
Gender Men	38	88.4%	5			
Women	5	11.6%	1			
Age Group						
25-34	7	16.3%	2			
35-44	9	20.9%	-2			
45-54	11	25.6%	1			
55-64	8	18.6%	4			
All Other Ages	8	18.6%	1			
Total	43	100.0%	6			





Table: Wyoming Employment by Industry and Gender, 2003

	Me	n	Won	nen	Unkn	own	Tot	al
NAICS ^a Industry	Number	%	Number	%	Number	%	Number	%
Natural Resources & Mining	20,162	14.8%	2,850	2.3%	3,949	6.5%	26,961	8.4%
Construction	20,858	15.3%	2,805	2.3%	11,693	19.1%	35,356	11.0%
Manufacturing	8,486	6.2%	2,793	2.2%	1,595	2.6%	12,874	4.0%
Wholesale Trade, Transportation, &	13,962	10.2%	3,941	3.2%	2,700	4.4%	20,603	6.4%
Utilities								
Retail Trade	14,881	10.9%	19,223	15.4%	7,149	11.7%	41,253	12.8%
Information	2,499	1.8%	2,678	2.1%	777	1.3%	5,954	1.8%
Financial Activities	3,688	2.7%	7,458	6.0%	1,341	2.2%	12,487	3.9%
Professional & Business Services	9,419	6.9%	9,003	7.2%	5,257	8.6%	23,679	7.3%
Educational Services	9,430	6.9%	19,295	15.5%	3,179	5.2%	31,904	9.9%
Health Care & Social Assistance	4,859	3.6%	21,559	17.3%	3,206	5.2%	29,624	9.2%
Leisure & Hospitality	12,661	9.3%	19,207	15.4%	16,808	27.5%	48,676	15.1%
Other Services Exc. Public Admin.	3,842	2.8%	3,827	3.1%	1,765	2.9%	9,434	2.9%
Nonclassified	620	0.5%	364	0.3%	434	0.7%	1,418	0.4%
Government	11,169	8.2%	9,566	7.7%	1,353	2.2%	22,088	6.9%
Total	136,536	100.0%	124,569	100.0%	61,206	100.0%	322,311	100.0%

^aNorth American Industry Classification System.

Source: Jones, S. (2004, June). Earnings by Age, Gender, and Industry, 1993-2004. Retrieved March 22, 2006, from http://doe.state.wy.us/lmi/wfdemog/toc3.htm



Table 3: Wyoming Fatal Occupational Injuries by Event or Exposure, 2004

	2	004 Fatalitie	<u>es</u>
		Percent of	
		Total	Change
Event or Exposure ^a	Number	Fatalities	from 2003
Transportation Incidents	28	65.1%	2
Highway Incidents	25	58.1%	5
Collision Between Vehicles, Mobile Equipment	13	30.2%	10
Noncollision Incident	8	18.6%	-7
Jack-Knifed or Overturned No Collision	8	18.6%	-7
Contact with Objects and Equipment	6	14.0%	2
Struck by Object	4	9.3%	1
Falls	3	7.0%	0
Fall to Lower Level	3	7.0%	0
Exposure to Harmful Substances or Environments	4	9.3%	1
Nondisclosable	2	4.7%	1
Total	43	100.0%	6

^aBased on the 1992 Bureau of Labor Statistics Injury and Illness Classification Manual.



Fatal Workplace Injuries U.S./Wyoming Comparison

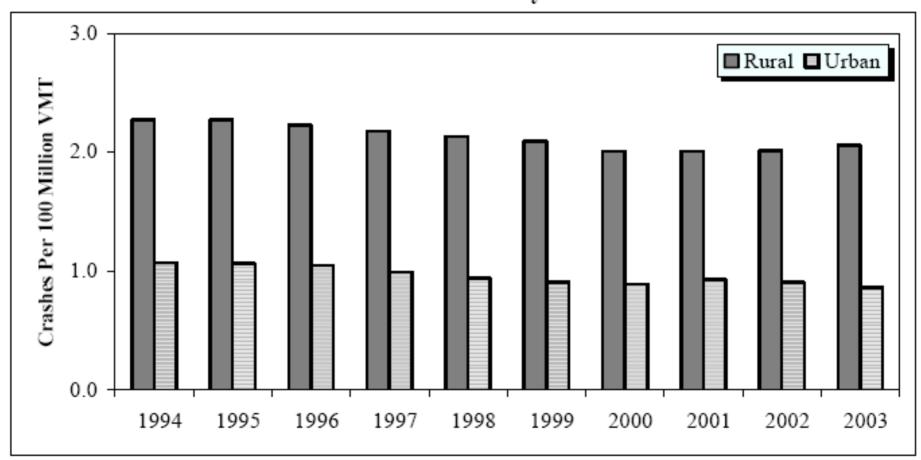
- The high numbers of men's deaths in Wyoming and the U.S. is at least partly a result of the occupations and industries in which they work.
- Wyoming followed the U.S. pattern of increases in deaths over the past two years.
- The Construction industry lead the U.S. in deaths, while Trade, Transportation, & Utilities experienced the most in Wyoming.
- Traffic accidents were the leading cause of work-related fatal accidents for both Wyoming and the U.S.





Rural vs. Urban U.S. Highway Fatalities 1994-2003

Figure 6
Fatal Crash Rate by Year



Source: NCSA, NHTSA, FARS 1994-2003 and FHWA, VMT data 1994-2003



Rural vs Ilrhan IIS Highway

Percent

51.19

1994

40.75

2003

10.12

2000

5.70

2003

2.59

2003

Percent

49.06

2003

25.50

1994

5.88

2003

4.55

1997

2.30

1998

55.30

29.96

6.48

5.59

2.67

100%

133,585

72,370

15,670

13,497

6,447

241,569

Percent

60.18

1994

33.78

2003

6.88

1998

7.36

2003

3.93

2003

)4-2		•	J	J	
Table 19 Vehicle Type										
			Ru	ral		Urban				
7	Vehicle Type	Count	Lowest Yearly	Mean Percent	Highest Yearly	Count	Lowest Yearly	Mean Percent	Highest Yearly	

46.69

37.25

9.70

4.11

2.25

100%

Percent

41.56

2003

33.13

1994

8.99

1995

3.19

1996

1.98

1995

152,880

121,962

31,754

13,476

7,373

327,445

Source: NCSA, NHTSA, FARS 1994-2003

Vehicle Type

Passenger Car

Light Trucks

Large Trucks

Motorcycles

Other/Unknown

&Vans

Total



Rural vs. Urban U.S. Highway Fatalities 1994-2003 Continued

		Ru	ral			Urk	an		
Rollover	Count	Lowest Yearly Percent	Mean Percent	Highest Yearly Percent	Count	Lowest Yearly Percent	Mean Percent	Highest Yearly Percent	
Rollover	78,258	23.14 1997	23.90	25.13 2002	25,268	9.57 1994	10.46	11.33 2002	
No Rollover	249,187	74.87 2002	76.10	76.86 1997	216,301	88.67 2002	89.54	90.43 1994	
Total	327,445		100%		241,569		100%		
Source: NCSA, NHTSA, FARS 1994-2003									



Rural vs. Urban U.S. Highway Fatalities 1994-2003 *Continued*

Table 25 Ejection										
		Ru	ral			Urk	oan			
Ejection	Count	Lowest Yearly Percent	Mean Percent	Highest Yearly Percent	Count	Lowest Yearly Percent	Mean Percent	Highest Yearly Percent		
Ejected	90,704	14.97 2003	16.67	16.07 1995	32,399	7.11 2003	7.54	7.96 2001		
Other	488,051	83.93 1995	84.33	85.03 2003	397,147	92.04 2001	92.56	92.89		
Total	578,755		100%		429,546		100%	2003		
Source: NCSA, NHTSA, FARS 1994-2003										



Restraint

Use

Child Safety

Belted

Seat

Helmet

Restraint

Not Used

Restraint

Unknown

Improper

Restraints

Unknown

Use of

Total

Use

Rural vs Ilrhan IIS Highway

Count

171,550

5,166

8,265

170,198

21,877

51,522

429,546

968

Urban

Mean

Percent

39.94

1.20

1.92

39.62

5.09

0.23

12.00

100%

Highest

Yearly

Percent

45.59

2003

1.58

2003

2.49

2003

43.83

1994

8.01

1994

0.29

2001

12.66

1994

Lowest

Yearly

Percent

32.61

1994

0.93

1994

1.58

1998

35.26

2003

2.68

2003

0.14

1994

10.92

2002

Fatalities 1994-2003 Continued	
Table 27	
Restraint Use	

Highest

Yearly

Percent

46.88

2003

1.87

2003

2.16

2003

51.55

1994

5.32

1994

0.29

2003

7.21

1996

Rural

Mean

Percent

40.48

1.46

1.53

46.56

2.96

0.25

6.76

100%

Lowest

Yearly

Percent

33.71

1994

1.16

1995

1.17

1996

40.82

2003

1.61

2003

0.19

1995

6.35

2002

Count

234,306

8,438

8,829

269,497

17,161

1,428

39,096

578,755

Source: NCSA, NHTSA, FARS 1994-2003

Fatalities	1994-2003	Continu	ied
	Table 27		

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Fatalities	1994-2003	Continued

		<u> </u>	J
Fatalities	1994-2003	Continu	ıed

Fatalities 1994-2003 Conti	inued



U.S. Highway Fatalities

Table 1
Motorists and Non-motorists Killed in Traffic Crashes

Description	2003	2004	Change	% Change	
Motorists Killed in					
Passenger Vehicles	32,271	31,693	-578	-1.8%	
Passenger Cars	19,725	19,091	-634	-3.2%	
Vans	2,080	2,036	-44	-2.1%	
SUVs	4,483	4,735	252	5.6%	
Pickup Trucks	5,957	5,801	-156	-2.6%	
Large Trucks	726	761	35	4.8%	
Other/Unknown	630	680	50	7.9%	
Motorcycles	3,714	4,008	294	7.9%	
Non-motorists Killed					
Pedestrians	4,774	4,641	-133	-2.8%	
Pedalcyclists	629	725	96	15%	
Other/Unknown	140	128	-12	-8.6%	
Total	42,884	42,636	-248	-0.6%	







Wyoming Highway Fatalities 2004

Fatalities Relating to Roadway, Pedestrian and Large Trucks by State and US					
State	Roadway Departure Fatalities*	Intersection Fatalities*	Pedestrian Fatalities	Fatalities in Crashes Involving Large Trucks	Total Fatalities
Wyoming	110	7	3	41	164
Percent of Total Killed	67.1%	4.3%	1.8%	25.0%	
US Total	25,676	9,117	4,641	5,190	42,636
Percent of US Total Killed	60.2%	21.4%	10.9%	12.2%	

*Fatalities based on FHWA Definition



Wyoming Highway Fatalities

Seat Belt Use Lags in Wyoming

Casper Star-Tribune

March 21, 2006



Cheyenne – Wyoming lags behind the nation in seat belt use the Wyoming Department of Transportation announced Monday.

Only 56 percent of Wyoming drivers are using seat belts. On a national level, seat belt use is at an all-time high of 82 percent.

Nearly 70 percent of the people who died on Wyoming roads in 2005 were not wearing seat belts.

The Wyoming Highway Patrol and other law enforcement agencies will work overtime this week to crack down on people who fail to use their seatbelts.



Wyoming Work-Related Highway Fatalities

Table 4: Wyoming Fatal Occupational Injuries Due to Highway Incidents, 1993-2004



		Change from Prior Year		
Year	Number of Incidents	Numeric	%	
1993	11	NA	NA	
1994	11	0	0	
1995	11	0	0.0%	
1996	ND	ND	ND	
1997	7	NA	NA	
1998	16	9	128.6%	
1999	12	-4	-25.0%	
2000	11	-1	-8.3%	
2001	17	6	54.5%	
2002	12	-5	-29.4%	
2003	20	8	66.7%	
2004	25	5	25.0%	

NA-Not applicable.

ND-Not disclosable due to confidentiality of information.

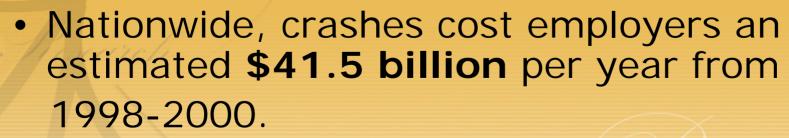


What Traffic Accidents Mean for Employers' Bottom Line

- Crashes cost YOUR BUSINESS money.
- Estimated annual total cost to Wyoming employers of on- and off-the-job crashes from 1998-2000



\$73 million \$310 per employee





What's an Employer to Do?

 The number one way to avoid becoming a CFOI statistic

Wear your seatbelt





What's an Employer to Do?

- Don't wait for an accident to happen before you talk to your employees about safe travel.
 - REMIND THEM TO BUCKLE UP.
 - Slow down on slick roads.
 - Avoid driving distractions.
 - Help your workers overcome the "it will never happen to me" attitude.
- Employer traffic safety resources on the Internet.





Let's be safe out there.

