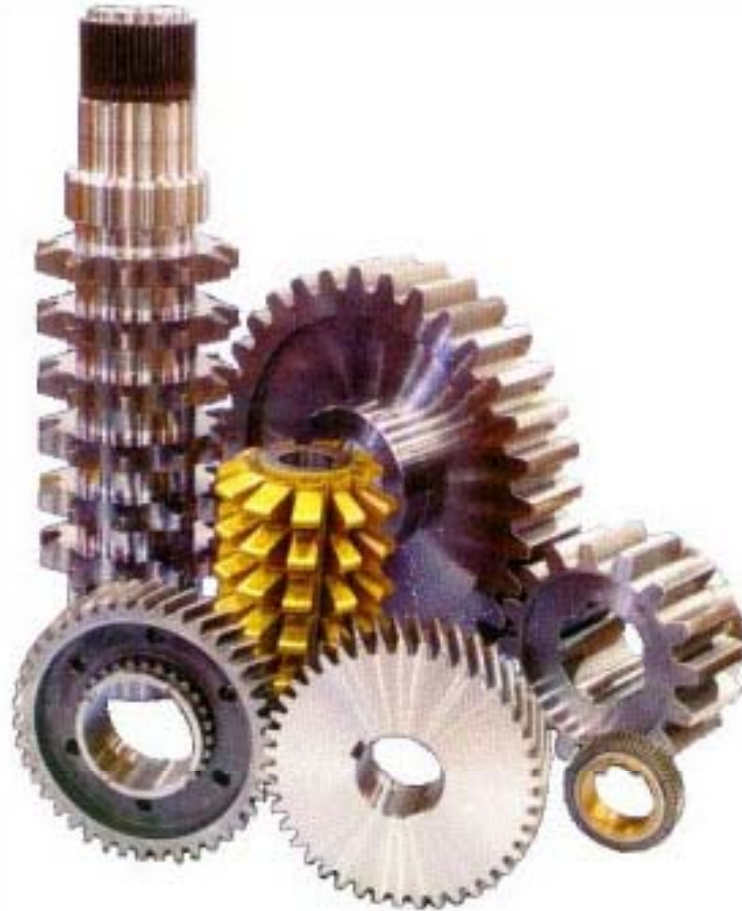
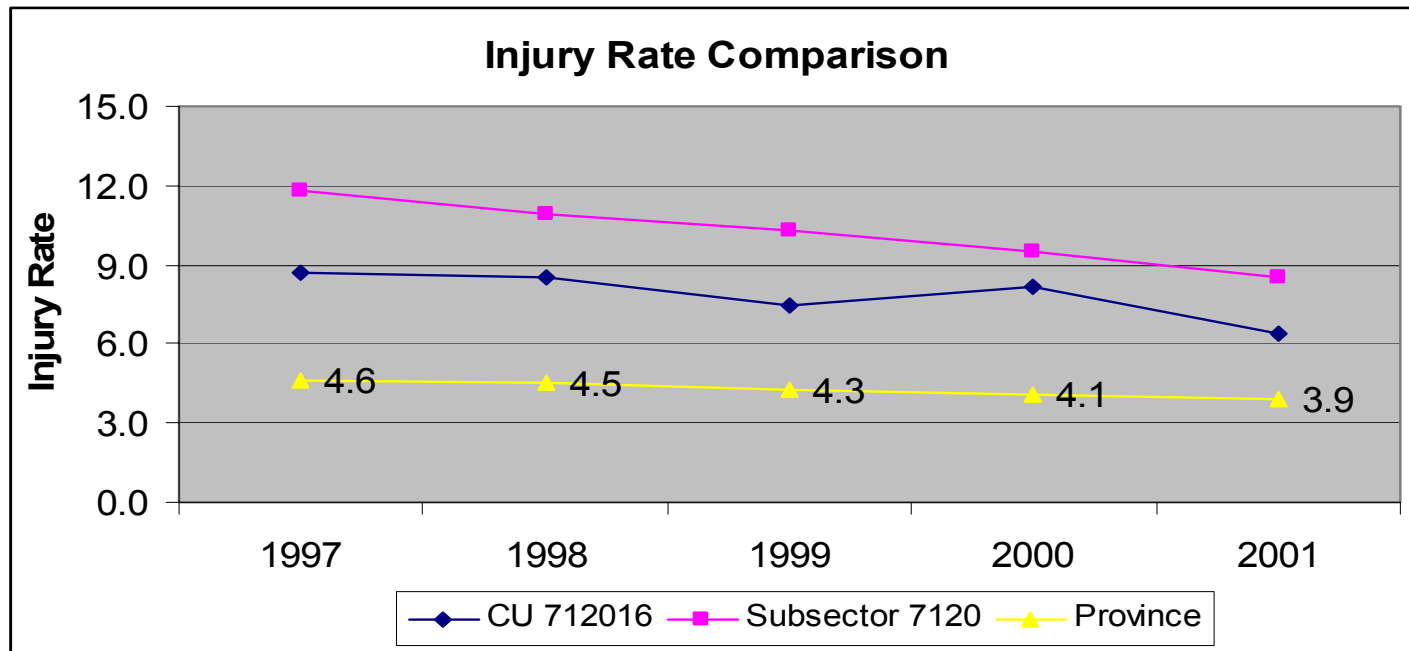


**Heavy Equipment, Machinery, or
Parts Manufacture or Installation (CU 712016)**
Industry Analysis



Introduction

The employers in CU 712016 manufacture or install heavy equipment, machinery and parts weighing in excess of 500 lbs.



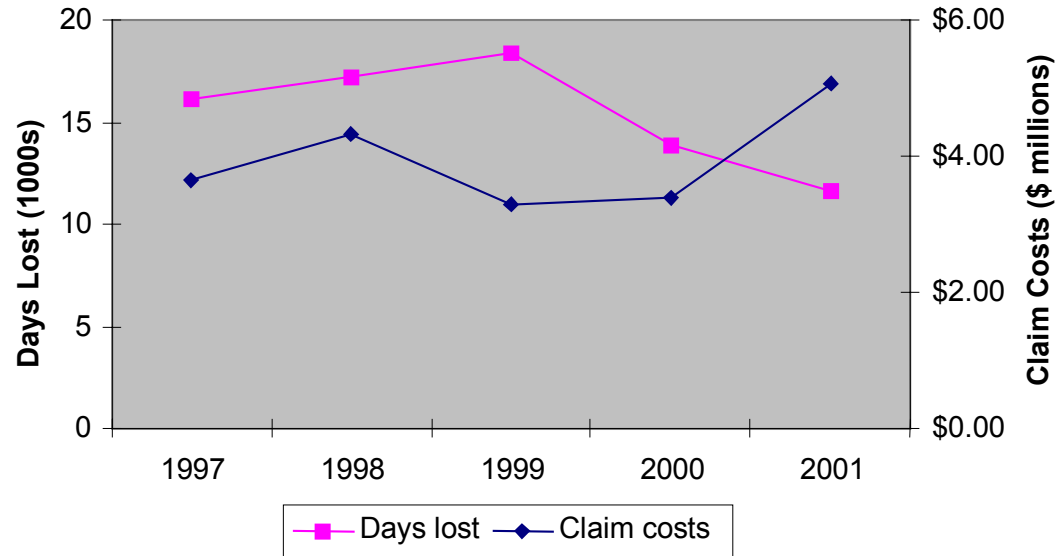
Frequency of claims

For the 5 year period, 1997 to 2001, this CU has an average injury rate of 7.9 (# of time-loss claims per 100 person years). So, on the average, a business of 100 employees can expect about 8 injuries each year, or a business with only ten employees may get one claim every 1 to 2 years.

Claim costs and days lost, 1997-2001

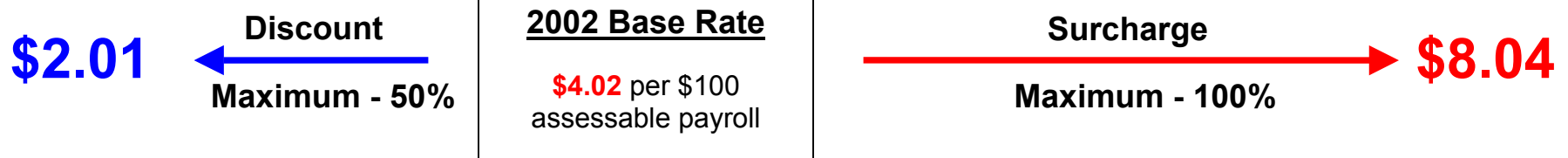
There were in total 2,063 claims resulting in 77,244 days lost and costs in excess of \$19.7 million in the five years. Small business originated 20% of claims, accounting for approximately 24% of claims costs and days lost.

Total Annual CU Statistics



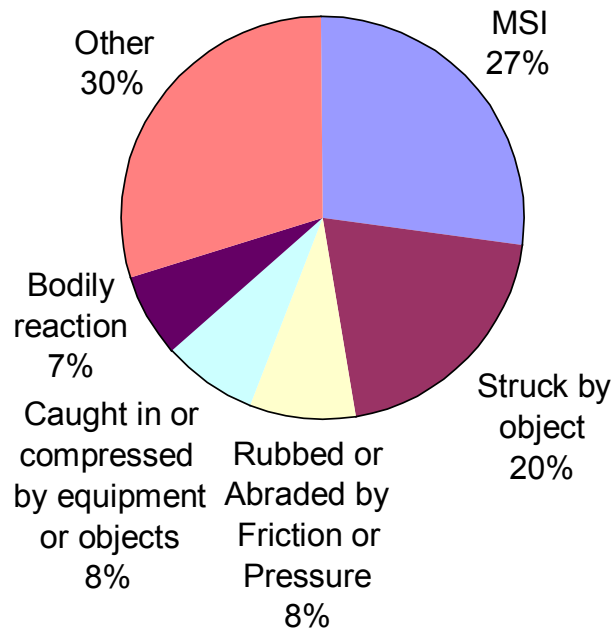
5 Year Average Statistics, 1997-2001		
	CU 712016	Subsector 7120
Claim costs per claim	\$9,566	\$8,178
Days lost per claim	37.4	32.8

Experience Rating

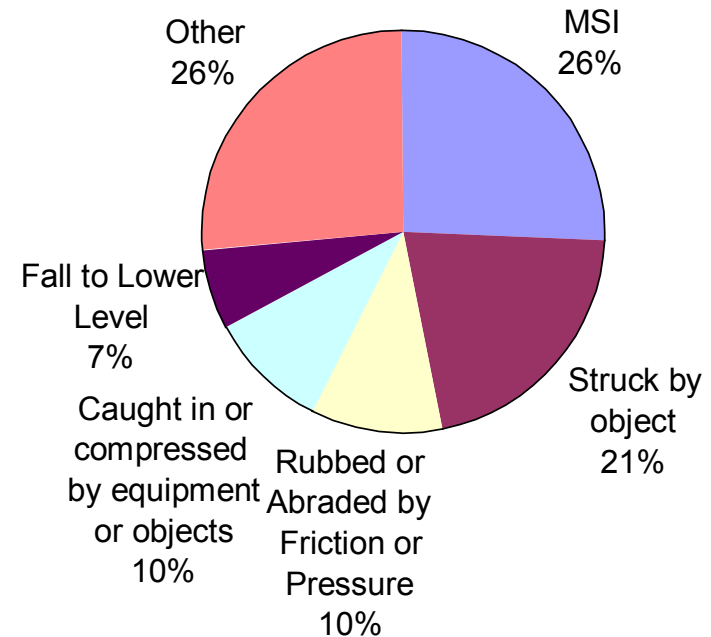


Main accident causes in CU 712016

All Businesses



Small Businesses



Injuries from **MSIs** (overexertion and repetitive motion) most likely caused by:

- Plates, metal panels
- Bodily motion or position
- Machine and appliance parts

Injuries from **Struck by object** most likely caused by:

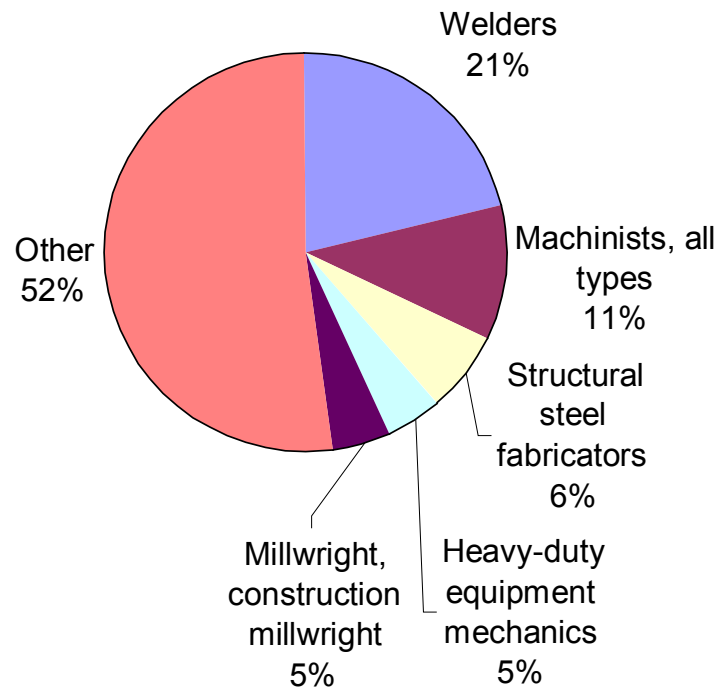
- Plates, metal panels
- Metal pipe, tubing
- Metal materials - nonstructural

Injuries from **Rubbed or abraded** most likely caused by:

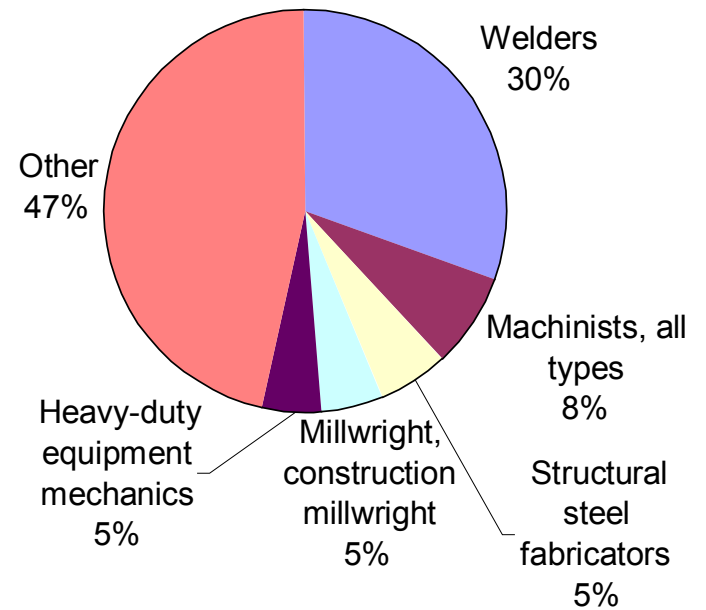
- Metal chips, particles
- Chips, particles, splinters
- Scrap, waste, debris

Which workers are getting injured?

All Businesses



Small Businesses

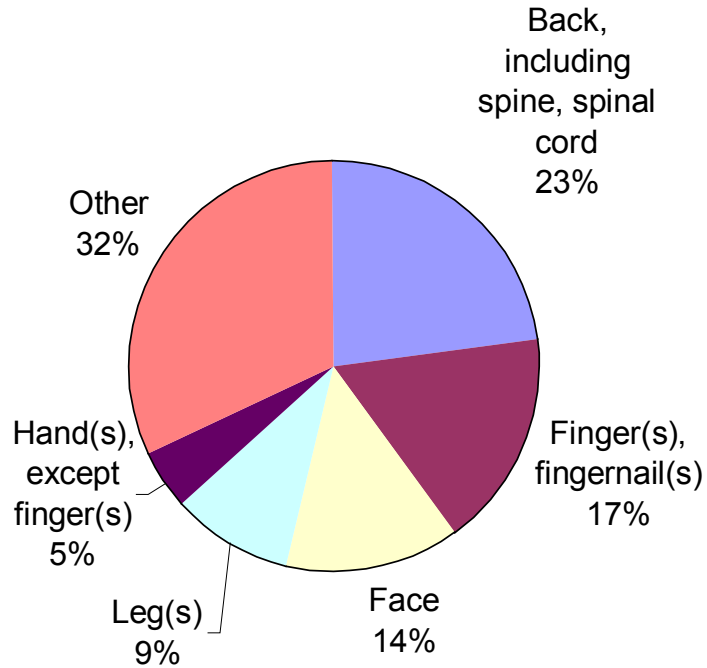


Some occupations in the 'Other' category include:

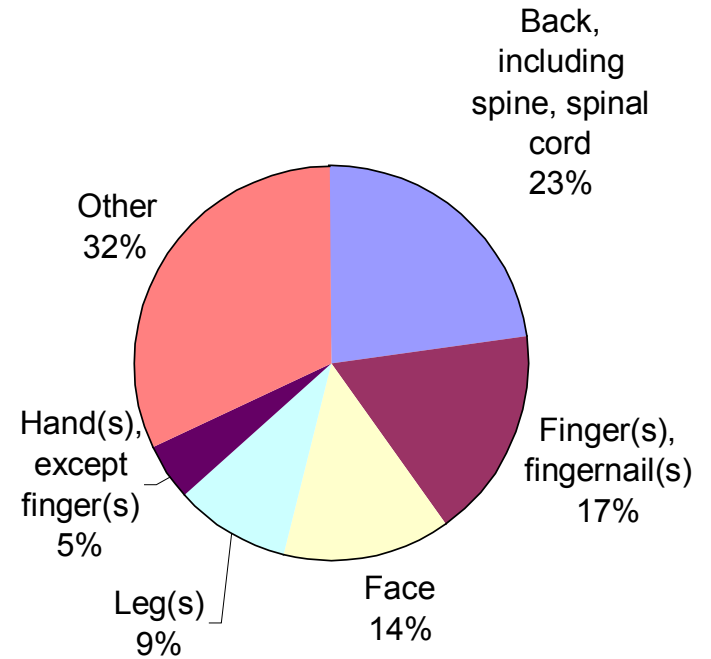
Ironworker's helper, Boilermaker, Pipefitter, Machinist's apprentice, Labourer – industrial equipment mfg, Shipper, Press operator, Metal grinder

Which parts of their bodies are getting injured?

All Businesses



Small Businesses



Some parts of the body in the 'Other' category include:

Arm, Multiple Body Parts, Ankle, Shoulder (including clavicle, scapula, and trapezius muscle), Abdomen

Typical Claim Profile

Gender & Occupation: Male Welder
Age: 37

Accident Type: MSI (overexertion and repetitive motion)
Injury Type: Sprains, strains, tears
Source of Injury: Plates, metal panels
Cost: \$ 9,566
Days Lost: 37

Employer group: Industrial and machine
manufacturing shop



Factors that place **welders** at risk:

- Awkward positions for long periods can lead to overexertion accidents.
- Restricted vision and hearing, and noisy work environment, resulting in reduced awareness of potential hazards.
- Arc welding process with potential for welding flash injuries.
- Molten metal, chips and slag, with potential for burn accidents.
- Dusty environments and metal/slag chips, leading to matter-in-eye accidents.
- Toxic and noxious materials that can cause metal fume fever, respiratory problems, chemical burns, and dermatitis (skin rash).

Factors that place **machinists** at risk:

- Work on heavy, awkward components, leading to overexertion accidents.
- Powered machinery and equipment that can be dangerous, especially if not properly guarded.
- Frequent work in restricted spaces, requiring work bent over or in awkward positions. Pushing or pulling tools in awkward positions leads to overexertion accidents.
- Use of oil-based coolants that are slippery on hands and footwear. These coolants can also irritate the eyes or skin.

Factors that place **structural steel fabricators** and **iron workers** at risk:

- Assembly and construction of large structures, involving climbing and carrying heavy equipment. This can lead to overexertion accidents.
- Long shifts, frequently or for extended periods of time, which can cause fatigue and increase the likelihood of accidents.
- Requirement to modify and adapt procedures and equipment for individual projects while the work is being done. Necessary to ensure that modified work procedures consider all hazards.
- Work at extreme heights and in all types of weather and working conditions.

Brief Survey

To help us provide useful and relevant H&S information for your business, please complete this survey and return to:

Industry Services

By Fax: (604) 279-7407

By Email: smallbiz@wcb.bc.ca

By Mail: Industry Services
Prevention Division, WCB
PO Box 5350 Stn Terminal
Vancouver, BC V6B 5L5

Today's visit

1. Did you find the information presented today relevant to your workplace?

YES	NO
<input type="checkbox"/>	<input type="checkbox"/>

2. Will be you able to use any of this information to help promote health and safety in your workplace?

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

3. How could we improve on the information you received today? _____

General H&S

4. Are you aware that health and safety educational and consultation services are available through your WCB Prevention officer?

<input type="checkbox"/>	<input type="checkbox"/>
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5. Are you aware of the various types of health and safety information available from the WCB?

Health and Safety e-news (newsletters by e-mail) through our website?

Booklets, pamphlets, bulletins, etc. from our website?

<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

6. What, if any, types of H&S information would you like to see from the WCB? _____

7. Would you be willing to work with the WCB on H&S projects or initiatives for your industry?

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

8. Would you be interested in joining a Health and Safety Association with other employers in your CU?

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

9. Do you have an e-mail address that we could use to contact you in the future? _____

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

10. Do you have any other comments or suggestions that would help us to better communicate with your business?

<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------

Comments: _____

The **Health and Safety Centre** has many health and safety booklets, pamphlets, bulletins, industry updates, etc. that are downloadable in pdf format. For more information, see our website at: www.worksafebc.com