

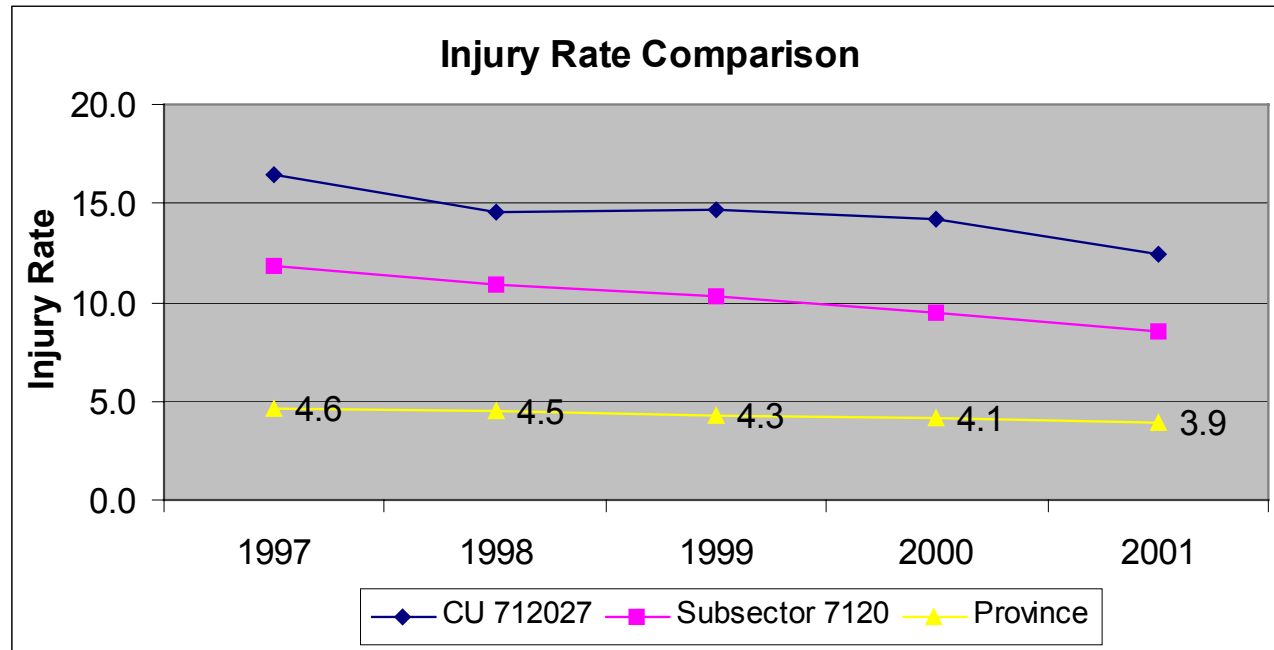
Structural Metal Product Fabrication (CU 712027)

Industry Analysis



Introduction

The employers in CU 712027 fabricate structural metal products.



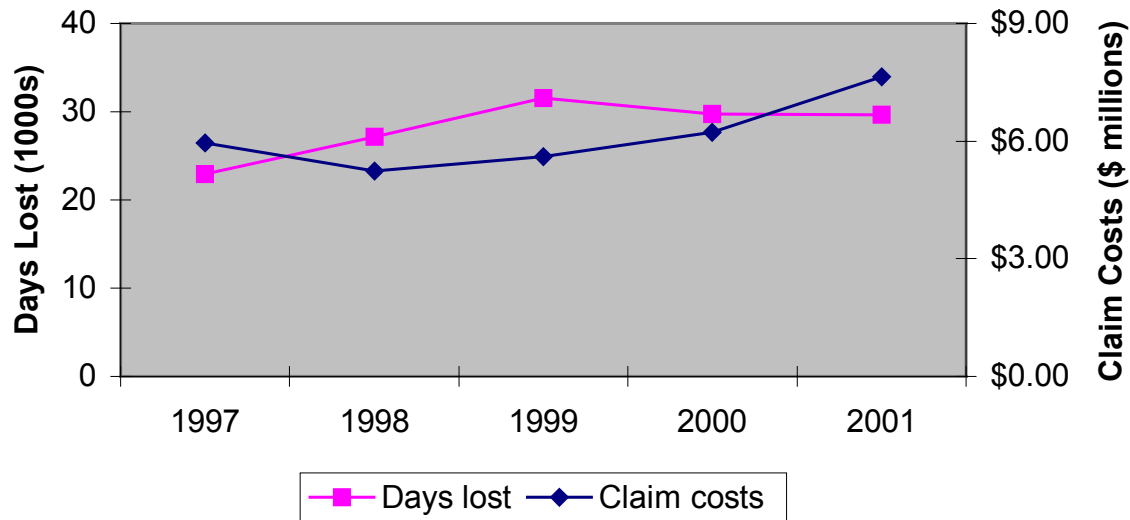
Frequency of claims

For the 5 year period, 1997 to 2001, this CU has an average injury rate of 14.5 (# of time-loss claims per 100 person years). So, on the average, a business of 100 employees can expect about 14 to 15 injuries each year, or a business with only ten employees may get one to two claims every year.

Claim costs and days lost, 1997-2001

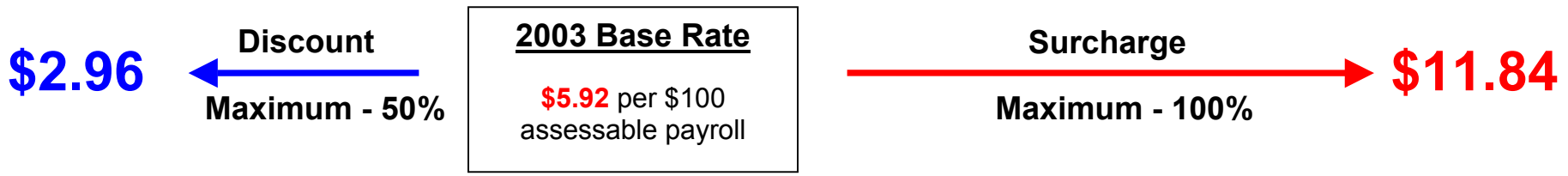
There were in total 4,833 claims resulting in 141,039 days lost and costs in excess of \$30.6 million in the five years. Small business originated 24% of claims, accounting for approximately 21% of claims costs and 26% of days lost.

Total Annual CU Statistics



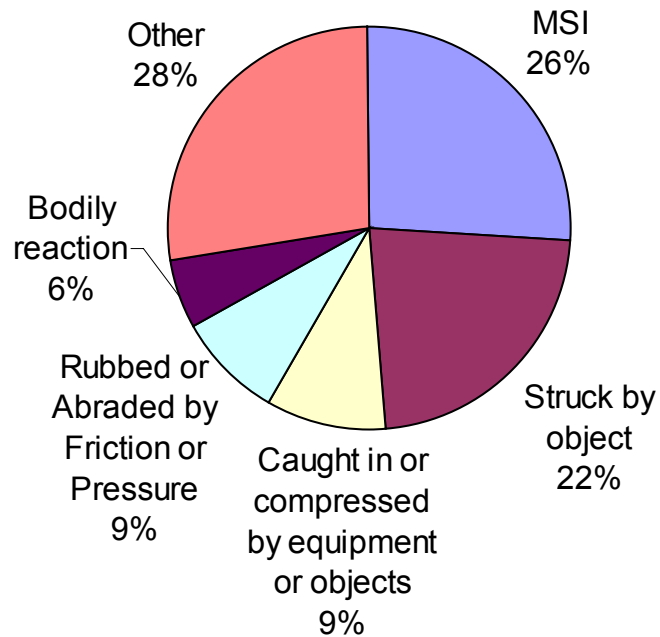
5 Year Average Statistics, 1997-2001		
	CU 712027	Subsector 7120, Metal & Non-Metallic Manufacturing
Claim costs per claim	\$6,342	\$8,178
Days lost per claim	29.2	32.8

Experience Rating

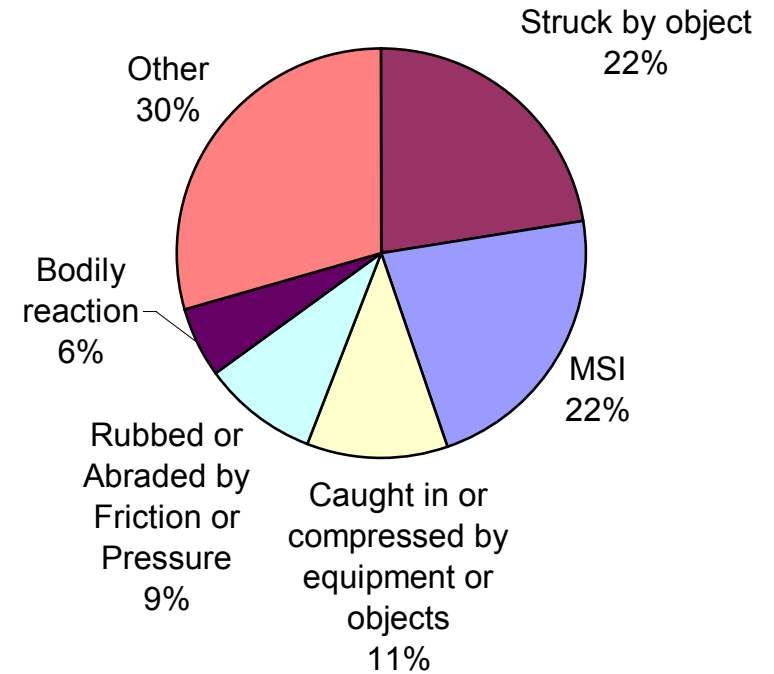


Main accident causes in CU 712027

All Businesses



Small Businesses



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

- Bodily motion or position
- Plates, metal panels
- Structural metal materials, NEC

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

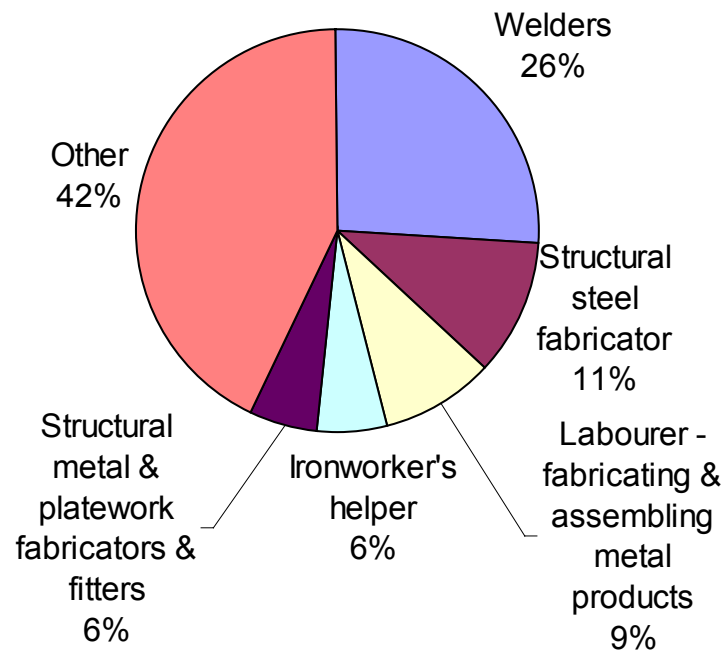
- Plates, metal panels
- Hand grinders - powered
- Structural metal materials, NEC

Injuries from **Caught in or compressed by equipment or objects** most likely caused by:

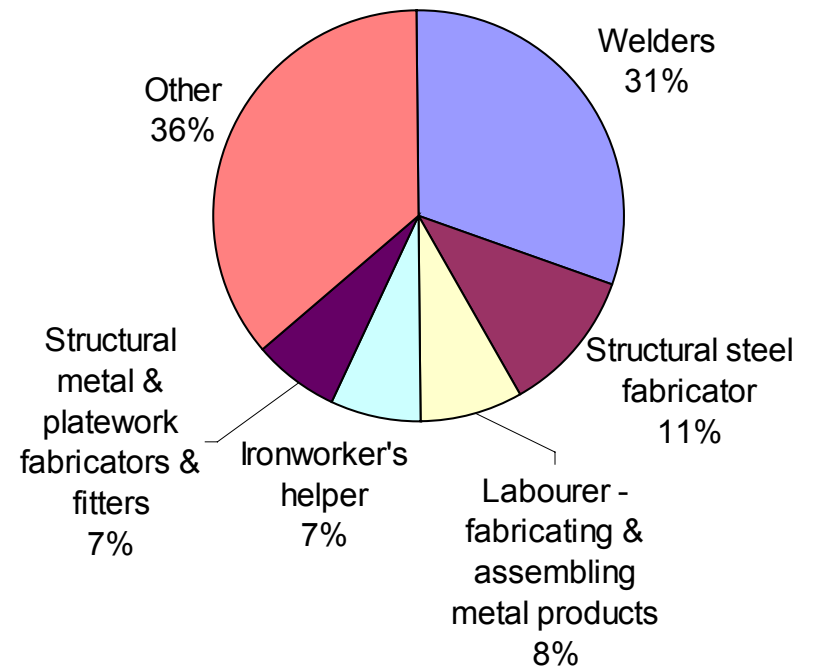
- Beams
- Plates, metal panels
- Structural metal materials, NEC

Which workers are getting injured?

All Businesses



Small Businesses

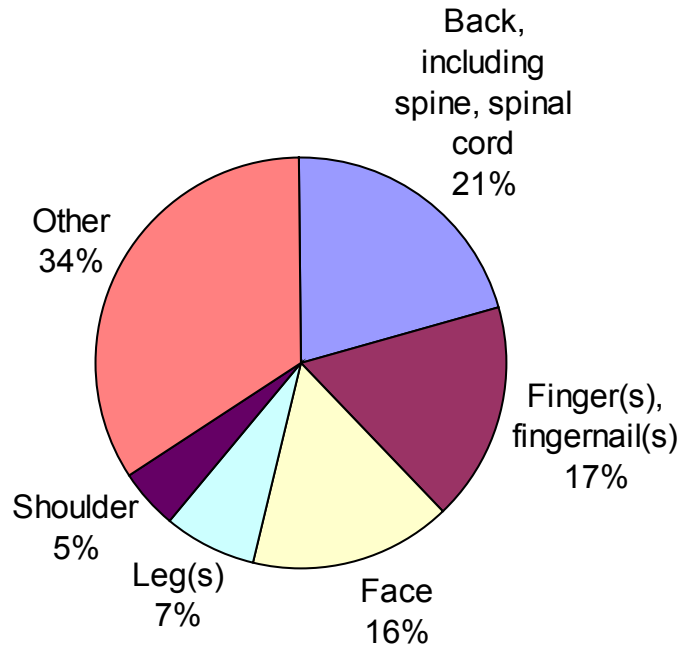


Some occupations in the 'Other' category include:

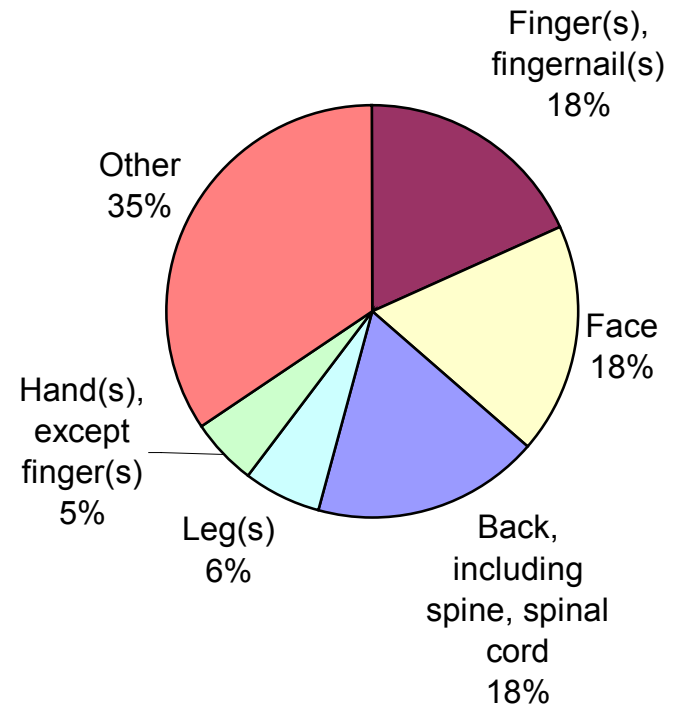
Metalworking machine operators, Labourer - metalworking, Welder's helper, Fitter – sheet metal, Shipper/receiver

Which parts of their bodies are getting injured?

All Businesses



Small Businesses



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

Arm(s), Multiple Body Parts, Pelvic region, Multiple trunk locations, 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: Bodily motion or position of injured, ill worker
Cost: \$6,342
Days Lost: 29

Employer group: Industrial, structures and sheet
metal manufacturing



Factors that place **welders** at risk:

- Awkward positions for long periods can lead to overexertion injuries.
- 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 **structural steel fabricators** at risk:

- Assembly and construction of large structures, involving climbing and carrying heavy equipment. This can lead to overexertion injuries.
- 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.

Factors that place **labourers – fabricating and assembling metal products** at risk:

- Work on heavy, awkward components, leading to overexertion injuries.
- Lifting, turning and rotating a wide variety of heavy loads with cranes or other lifting equipment, potential for unexpected shifts in load position, especially if not adequately supported or clamped.
- Powered machinery and equipment that can be dangerous, especially if not properly safeguarded.
- Frequent work in restricted spaces, requiring work bent over or in awkward positions. Pushing, pulling and lifting in awkward positions leads to overexertion injuries.

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

<input type="checkbox"/>	<input type="checkbox"/>
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9. Do you have an e-mail address that we could use to contact you in the future? _____

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