

# International Safety Data on the Solid Waste Industry

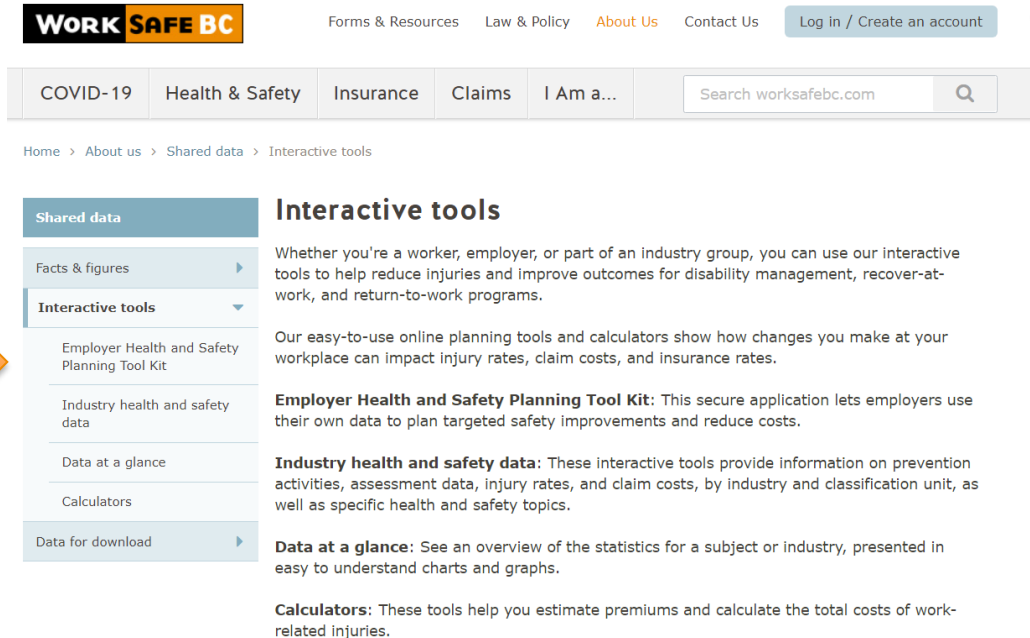
## WorkSafeBC's Data Perspective

November 2021

# WorkSafeBC's Primary Data Sources

- Claims
- Prevention Activities
- Research projects
- Risk analysis - monitoring emerging trends (ex. EV batteries and fire risk)
- Exploring new methods (ex. COVID algorithm and EIIR word mining)

# Employers can view



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**Shared data**

- Facts & figures
- Interactive tools**
- Employer Health and Safety Planning Tool Kit
- Industry health and safety data
- Data at a glance
- Calculators
- Data for download

**Interactive tools**

Whether you're a worker, employer, or part of an industry group, you can use our interactive tools to help reduce injuries and improve outcomes for disability management, recover-at-work, and return-to-work programs.

Our easy-to-use online planning tools and calculators show how changes you make at your workplace can impact injury rates, claim costs, and insurance rates.

**Employer Health and Safety Planning Tool Kit:** This secure application lets employers use their own data to plan targeted safety improvements and reduce costs.

**Industry health and safety data:** These interactive tools provide information on prevention activities, assessment data, injury rates, and claim costs, by industry and classification unit, as well as specific health and safety topics.

**Data at a glance:** See an overview of the statistics for a subject or industry, presented in easy to understand charts and graphs.

**Calculators:** These tools help you estimate premiums and calculate the total costs of work-related injuries.

<https://www.worksafebc.com/en/about-us/shared-data>

# Industry Health and Safety Data

## Industry risks: Prevention data for planning workplace health and safety in B.C.

[Industry risks: Prevention data for planning workplace health and safety in B.C.](#) 

Employers can use this tool to understand WorkSafeBC's injury prevention activities. You can access data from the past ten years showing workplace inspections, orders, and penalties across different industries.

This information can be used to:

- Identify trends and patterns of prevention activities in specific industries and regions
- Explore and understand the different levels of violations cited in each industry
- Support your own research, reports, and business planning

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**Serious injuries: Data about workplace injuries in B.C.** 

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**Work-related deaths: Data about workplace deaths in B.C.** 

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# 732018 – Prevention Data (Tableau example)

Classification unit

732018 - Garbage, Debris...

Regional district

(All)

Links and references

[Statistics book](#)

[Search penalties](#)

[Search incident investigation reports](#)

[Occupational health and safety regulation](#)

[Worker's compensation act](#)

OHS Regulation Part 12: Tools, Machinery and Equipment

OHS Regulation Part 4: General Conditions OHS Regulation Part 17: Transportation of Workers OHS Regulation Part 20: Construction, Excavation and Demolition

OHS Regulation Part 14: Cranes and Hoists OHS Regulation Part 3: Rights and Responsibilities

**WCA: Occupational Health and Safety** OHS Regulation Part 18: Traffic Control  
OHS Regulation Part 26: Forestry Operations and Similar Activities

OHS Regulation Part 8: Personal Protective Clothing and Equipment

OHS Regulation Part 9: Confined Spaces OHS Regulation Part 5: Chemical Agents and Biological Agents

OHS Regulation Part 6: Substance Specific Requirements OHS Regulation Part 15: Rigging

OHS Regulation Part 16: Mobile Equipment OHS Regulation Part 19: Electrical Safety  
OHS Regulation Part 2: Application OHS Regulation Part 11: Fall Protection

Regulation cited	Regulation text	# Regulations cited	# Locations	# Employers
WCA21(2)(e)	An employer must provide to the employer's workers the information, instruction, training and supervision necessary to ensure the health and safety of those workers in carrying out their work and to ensure the health and safety of other workers at the workplace.	49.00	38.00	36.00
OHS3.16(1)(a)	The employer must provide for each workplace such equipment, supplies, facilities, first aid attendants and services as are adequate and appropriate for (a) promptly rendering first aid to workers if they suffer an injury at work, and	34.00	33.00	30.00

# 731004 – Claim Count (Tableau example)

Currently displaying statistics on: Classification unit: 731004 - Recycling Depot. Employer size: All. Gender: All. Age group: All

Total time-loss claims  
**405**

Customize your search

Industry classification

Classification unit

Classification unit

731004 - Recycling Depot

Employer size

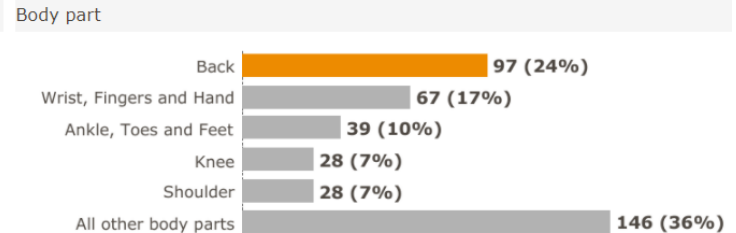
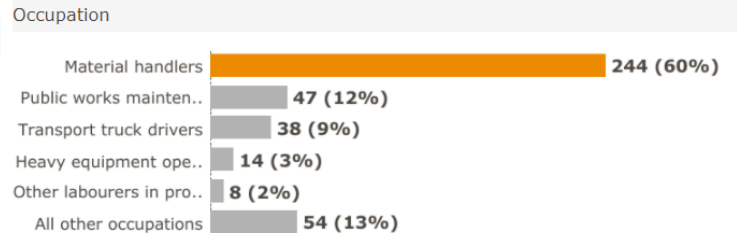
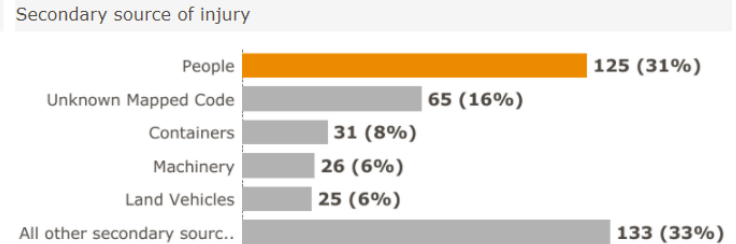
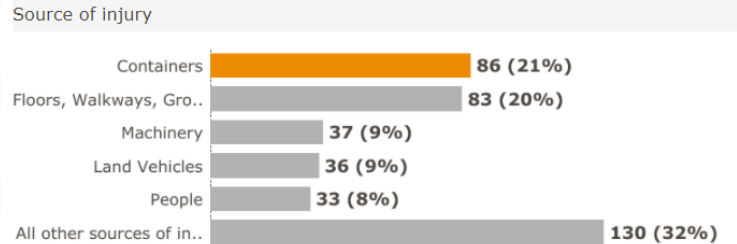
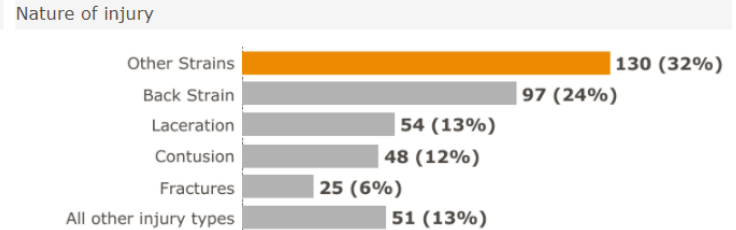
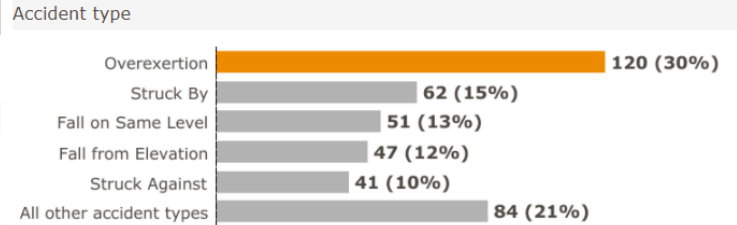
All

Gender

(All)

Age group

(All)



# 732018 - Garbage, Industrial, Recyclable Waste Removal

## Time-loss claims (2016-2020)

Total time-loss claims		1547
1. Overexertion	485	31%
2. Falls – elevation & same level	378	25%
3. Struck by	186	17%
4. MVI	100	6%

Source of injury		
1. Containers	414	27%
2. Floor, Walkway, Ground Surfaces	292	19%
3. Land Vehicles	250	16%

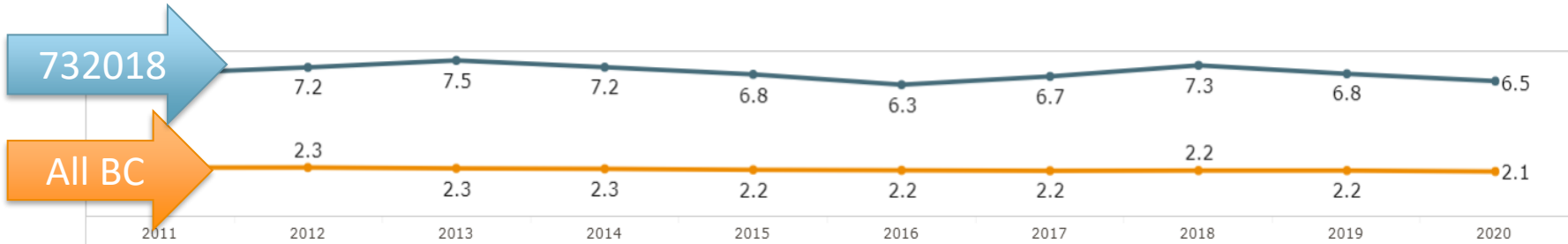
Type of injury		
Other strains and back strain	917	59%

Cost		\$27.7 million
2	\$6.5 million	23%
1	\$7.0 million	26%
4	\$3.6 million	13%
3	\$3.7 million	13%

1	\$6.2 million	22%
3	\$5.2 million	19%
2	\$5.6 million	20%

	\$13.7 million	50%
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# 732018 - Garbage, Industrial, Recyclable Waste Removal Overview



## Injury rate summary

### Selection

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Injury rate	6.9	7.2	7.5	7.2	6.8	6.3	6.7	7.3	6.8	6.5
Serious injury rate	0.7	0.8	0.9	0.8	0.7	0.8	0.8	0.8	0.7	0.9
# Time-loss claims	194	207	228	233	251	253	291	332	334	310
# Serious injury claims	21	24	28	25	25	32	33	38	36	43
% Serious injury claims	11%	12%	12%	11%	10%	13%	11%	11%	11%	14%
# Person years*	2,827	2,892	3,043	3,251	3,680	4,002	4,330	4,576	4,878	4,771



# 731004 – Recycling Depot

## Time-loss claims (2016-2020)

Total time-loss claims	405	
1. Overexertion	120	30%
2. Falls – elevation & same level	98	28%
3. Struck by	62	15%
4. Struck Against	41	10%

Source of injury		
1. Containers	86	21%
2. Floor, Walkway, Ground Surfaces	83	20%
3. Machinery	37	9%

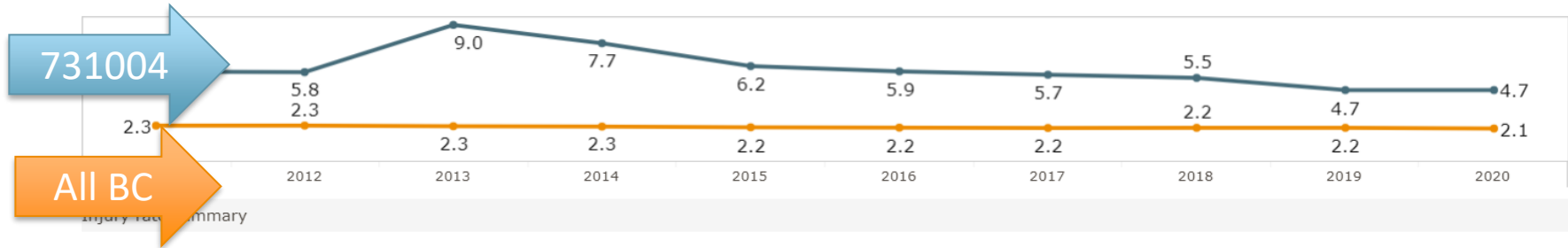
Type of injury		
Other strains and back strain	227	56%

Cost	\$6.5 million	
3	\$1.0 million	16%
2	\$1.8 million	27%
1	\$1.9 million	29%
Drops out of the top 6		

3	\$1.2 million	18%
2	\$1.6 million	25%
1	\$1.7 million	26%

	\$2.5 million	38%
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# 731004 – Recycling Depot Overview



## Selection

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Injury rate	5.9	5.8	9.0	7.7	6.2	5.9	5.7	5.5	4.7	4.7
Serious injury rate	0.7	0.5	0.6	0.5	1.0	1.1	0.5	1.2	0.6	0.6
# Time-loss claims	99	103	125	116	92	90	88	86	74	66
# Serious injury claims	11	8	9	8	14	17	7	19	9	8
% Serious injury claims	11%	8%	7%	7%	15%	19%	8%	22%	12%	12%
# Person years*	1,681	1,761	1,396	1,497	1,473	1,526	1,550	1,572	1,585	1,413

## Comparison

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Injury rate	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.1
Serious injury rate	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
# Time-loss claims	48,061	48,848	48,295	48,298	48,138	49,137	50,369	51,798	53,113	48,220
# Serious injury claims	6,125	6,171	6,099	6,243	6,453	6,519	7,037	6,855	7,059	6,252
% Serious injury claims	13%	13%	13%	13%	13%	13%	14%	13%	13%	13%
# Person years*	2,060,016	2,090,861	2,105,166	2,126,041	2,165,083	2,232,059	2,311,546	2,364,282	2,424,428	2,248,309

# Industry Trends:

- **Overexertion – an issue with all industries**
  - Conduct ergonomic risk assessments
  - Review employer claims data and incident investigations to identify the source
  - Share knowledge with industry
- **MVIs – low counts but high costs**
  - MVIs are preventable – seat belt use is necessary
  - Road Safety At Work
- **Fractures – shows where severity of injury occurs**
  - Review employer claims data and incident investigations to identify the source
  - Share knowledge with industry

# Inform Industry:

- **Look at all the pieces**
  - Compare regulator data to your own employer & industry data
  - We provide high level insights and you can supply industry level specifics
- **We are all in this together**
  - Reducing claims at employer level improves your experience rating
  - Reducing claims at an industry (CU) level reduces your base premium rate

