

GRAMKO The Mining and Mineral Industry's Health and Safety Committee

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Occupational Injuries and Sick Leave in the Swedish Mining and Mineral Industry 2014

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1. Main Statistics of the Mining and Mineral Industry

| All employees (excl. contractors) Total Number of Occupational Injuries | 2014 76 | 2013 95 |
|---|-------------------|-------------------|
| Lost Day Injury Frequency Rate, LDIFR (number of occupational injuries per one million working hours) | 6.4 | 7.9 |
| Number of Days of Sick Leave per Injury | 13.5 | 12.0 |
| Number of Fatalities | 0 | 0 |
| Occupational Diseases | 23 | 40 |
| Commuting Accidents | 21 | 33 |
| All employees incl. contractors | | |
| Number of Occupational Injuries | 133 | 180 |
| Lost Day Injury Frequency Rate, LDIFR | 6.3 | 8.1 |
| Contractors | | |
| Total Number of Occupational Injuries | 57 | 86 |
| Lost Day Injury Frequency Rate, LDIFR | 6.3 | 8.3 |
| Number of Fatalities | 0 | 0 |
| Sick Leave | | |
| Total Sick Leave (percentage of regular number of working hours) | 3.5 | 3.3 |
| Short term sick leave (< 14 days) | 2.0 | 2.0 |
| Long term sick leave (<u>></u> 14 days) | 1.5 | 1.3 |
| | | |

2. Scope of the Statistics

Occupational Injuries

The following mining companies reported statistics on occupational injuries to SveMin: Boliden Mineral AB, LKAB, Zinkgruvan Mining AB, Björkdalsgruvan AB, Dannemora Mineral AB, Dragon Mining (Sweden) AB, Lovisagruvan AB, Cementa AB, Nordkalk AB and SMA Mineral AB.

The statistics on occupational injuries includes all employees on all levels (blue-collar and white-collar staff) of the mining and mineral companies listed above.

The number of occupational injuries and lost day injury frequency rate (LDIFR) for contractors are based on figures from the mining companies, as are the estimated working hours.

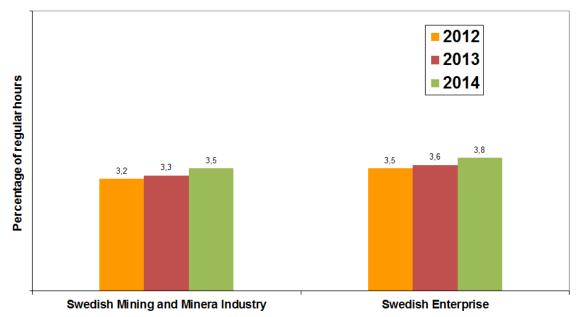
Sick Leave

The statistics on sick leave include <u>all employees</u>. Contractors are not included.

3. Definitions

| Lost Day Case | A sudden unforeseen incident leading to personal injury resulting in at least one day of sick leave. |
|---|--|
| Lost Day Injury Frequency Rate, LDIFR | Number of Lost Day Injuries per one million working hours. |
| Occupational Injury per 1, 000 employees | A frequency measure used in the official Swedish statistics by Statistics Sweden and the Working Environment Authority. (It may, however, be rather difficult to obtain information on the number of full-time employees.) |
| Severe Accident | Accident resulting in a fatality, disability or at least 30 days sick leave. |
| Occupational Diseases | Number of occupational diseases reported to the Social Insurance Agency. |
| Commuting Accident | Traffic accident on way to and/or from work. |
| Zero Injury Case | Accident at work resulting in an injury, but <u>not</u> in absence from work. |
| Near Misses | Accidents not resulting in any injury, but which could have. |
| Total Sick Leave | Includes all sick leave periods as a percentage (%) of the regular working hours. |
| Regular Working Hours | Regular working hours consist of working hours according to the contract of employment (hours worked + sick leave + leave of absence) <i>and</i> vacation. Overtime is not included in the regular working hours. This definition is also used in the Time Allocation Survey of the Confederation of Swedish Enterprise. |

4. Sick Leave 2012-2014



Total Sick Leave 2012 - 2014 (all employees)

5. Occupational Injuries in the Mining and Mineral Industry 2004-2013

Number of Working Hours

The working hours reported include the working hours of supervisors and blue-collar and white-collar staff. The working hours of contractors are not included in the following tables.

Number of Employees

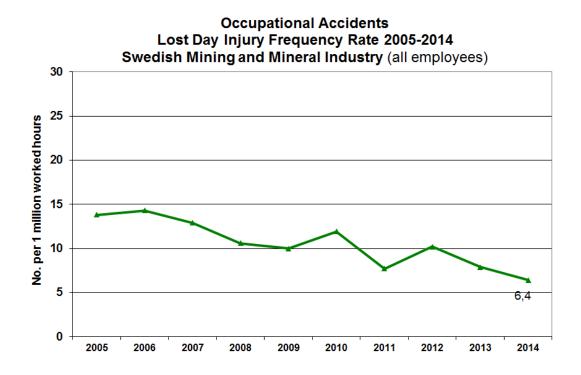
The number of employees has been calculated to represent the number of full-time, whole-year employees.

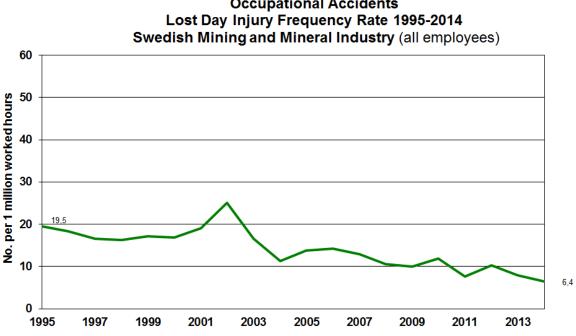
The figures in the tables do not include contractors. For contractors see chapter 10.

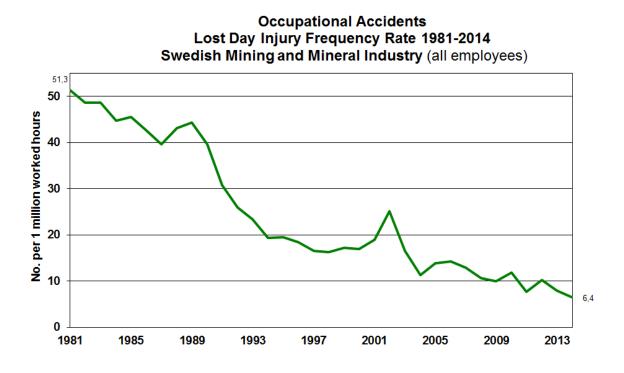
| | | | | Lost day | Lost day | | |
|------|-----------|---------------|-----------|-----------|--------------|--------------|--------------|
| | | | Number of | injury | injuries per | Number of | Days of sick |
| | Number of | | lost day | frequency | 1,000 | days of sick | leave per |
| Year | employees | Working hours | injuries | rate | employees | leave | injury |
| 2005 | 5 156 | 8 183 606 | 113 | 13,8 | 21 | 1 577 | 14,0 |
| 2006 | 5 482 | 8 836 215 | 126 | 14.3 | 23 | 2 359 | 18.9 |
| 2007 | 5 771 | 9 085 587 | 117 | 12.9 | 20 | 2 025 | 17.3 |
| 2008 | 5 351 | 9 402 873 | 100 | 10.6 | 19 | 1 854 | 18.5 |
| 2009 | 6 264 | 8 974 503 | 90 | 10.0 | 14 | 1 483 | 16.7 |
| 2010 | 6 260 | 10 017 155 | 119 | 11.9 | 19 | 1 644 | 13.8 |
| 2011 | 6 216 | 10 633 032 | 82 | 7.7 | 13 | 1 560 | 19.0 |
| 2012 | 6 342 | 11 321 237 | 115 | 10.2 | 18 | 1 136 | 9.9 |
| 2013 | 7 849 | 12 072 100 | 95 | 7.9 | 12 | 1 144 | 12.0 |
| 2014 | 6 737 | 11 944 033 | 76 | 6.4 | 11 | 1 027 | 13.5 |

<u>Total 2005-2014</u>. Employees, working hours, lost day injuries, frequency, days of sick leave.

Lost Day Injury Frequency Rate

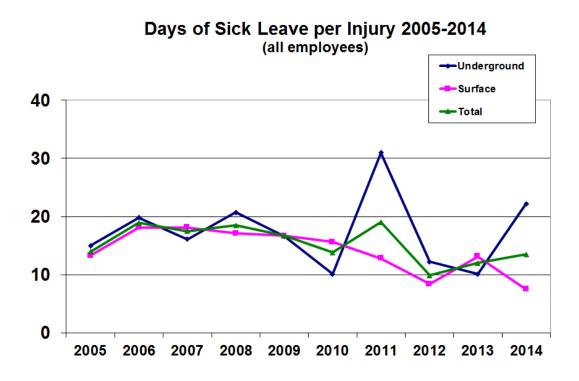






Occupational Accidents Lost Day Injury Frequency Rate 1995-2014

Days of Sick Leave per Injury



6. Occupational Injuries – Severe Accidents

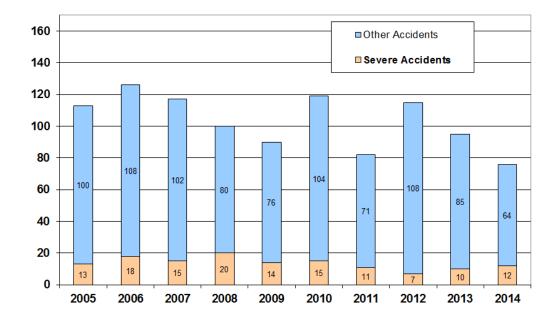
Severe accident = accident resulting in a fatality, disability or at least 30 days sick leave.

Severe Accidents

Severe accidents compared to the total number of accidents 2005–2014

| | LOST DAY CASES | SEVERE ACCIDENTS | PER CENT | SEVERE ACCIDENTS | |
|------|-------------------|---------------------|----------|------------------|---------|
| | Total | | | Underground | Surface |
| 2005 | 113 | 13 | 11,5 | 8 | 5 |
| 2006 | 126 | 18 | 14.3 | 10 | 8 |
| 2007 | 117 | 15 | 12.8 | 5 | 10 |
| 2008 | 100 | 20 | 20.0 | 8 | 12 |
| 2009 | 90 | 14 | 15.6 | 7 | 7 |
| 2010 | 119 | 15 | 12.6 | 4 | 11 |
| 2011 | 82 | 11 | 13.4 | 5 | 6 |
| 2012 | 115 | 7 | 6.0 | 4 | 3 |
| 2013 | 95 | 10 | 10.5 | 2 | 8 |
| 2014 | 76 | 12 | 15.8 | 9 | 3 |

Severe Accidents 2005 - 2014



Type of activities during which severe occupational injuries occur

| Type of activity/injury | | Ν | lo. of Acci | dents |
|------------------------------------|------|------|-------------|-------|
| | 2014 | 2012 | 2011 | 2010 |
| Scaling | 1 | 0 | 0 | 0 |
| Falling rock | 1 | 0 | 1 | 1 |
| Walking, jumping, sliding/slipping | 3 | 1 | 5 | 3 |
| Service and maintenance | 2 | 4 | 2 | 6 |
| Traffic | 0 | 0 | 2 | 0 |
| Blasting gas | 0 | 0 | 0 | 0 |
| Squeeze injuries | 2 | 1 | 0 | 5 |
| Miscellaneous | 3 | 1 | 1 | 0 |
| Total | 12 | 7 | 11 | 15 |

Fatalities

The Swedish mining industry has had few occupational accidents with fatal outcome during the last 20 years.

The figures below do not include contractors. For contractor, see chapter 10.

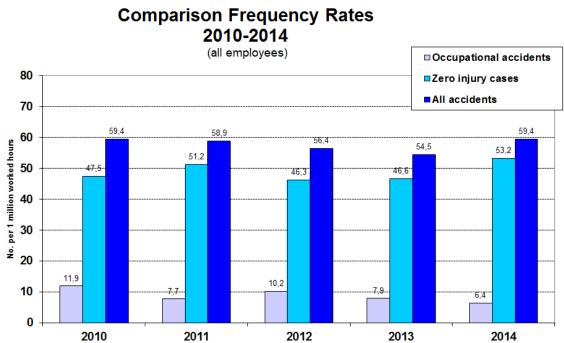
| Year | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 |
|------|------|------|------|------|------|------|------|------|------|------|
| No. | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |

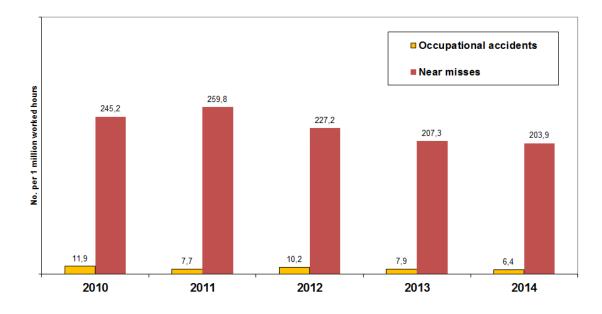
Number of fatalities 2005-2014

Zero Injury Cases and Near Misses 7.

Figures for 2014:

| | Number | Frequency |
|---|--------|-----------|
| Occupational accidents (lost day cases) | 76 | 6.4 |
| Zero injury cases | 635 | 53.2 |
| All accidents | 711 | 59.4 |
| Near misses | 2 435 | 203.9 |





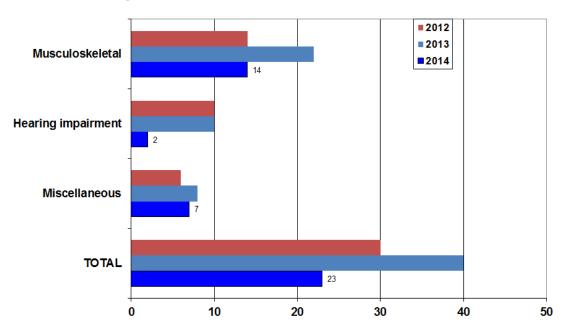
Comparison Frequency Rate Occupational Accidents and Near Misses 2010-2014 (all employees)

8. Occupational Diseases

The table below shows the number of occupational diseases reported to the Social Insurance Agency.

| | 2014 | 2013 | 2012 |
|--------------------------|------|------|------|
| Musculoskeletal disorder | 14 | 22 | 14 |
| Hearing impairment | 2 | 10 | 10 |
| Miscellaneous | 7 | 8 | 6 |
| TOTAL | 23 | 40 | 30 |

| Year | Frequency rate, Occupational deseases per 1,000 employees |
|------|---|
| 2014 | 3.4 |
| 2013 | 5.1 |
| 2012 | 4.7 |



Occupational Deseases 2012-2014

9. Commuting Accidents

Commuting accidents are traffic accidents occurring on the way to and from work. As a consequence, these accidents do not directly involve work and work assignments. Nevertheless, commuting accidents are included in the social insurance system and entitle to financial compensation, etc.

| 2014 | 21 commuting accidents | 8 days of absence from work on average |
|------|------------------------|--|
| 2013 | 33 commuting accidents | No figures on days of absence |
| 2012 | 31 commuting accidents | 4 days of absence from work on average |

10. Accidents of Contractors Working for Mining Companies

| Number of | 2014 | 2013 | 2012 | 2011 |
|----------------|------|------|------|------|
| Lost day cases | 57 | 86 | 82 | 65 |
| Fatalities | 0 | 0 | 0 | 1 |