The Quarterly Statistical Statement of Rail Incidents is based on rail incident reports provided by rail operators. These reports cover a wide range of incidents including near misses. Only a relatively small number of reported incidents result in injury. The less serious incidents and near misses are useful for identifying potential safety issues.

**Key points**

This quarter there have been:

- 521 reported incidents, resulting in
  - 5 deaths
  - 44 injuries
  - 1 death in level crossing incidents
  - 5 injuries in level crossing incidents
  - 4 deaths in person on track incidents
  - 3 injuries in person on track incidents
  - 36 deaths in operating incidents
  - 36 injuries in operating incidents

In the last 12 months there have been:

- 1684 reported incidents, resulting in
  - 13 deaths
  - 73 injuries
  - 2 deaths in level crossing incidents
  - 14 injuries in level crossing incidents
  - 11 deaths in person on track incidents
  - 4 injuries in person on track incidents
  - 55 deaths in operating incidents
  - 55 injuries in operating incidents

Note that rail incident deaths can include suicides.

**NOTES:**

- The Rail Incident database was initiated during 1993 to collate information about rail incidents. Previously the only rail incident data collected at a national level was for level crossing motor vehicle crashes attended by the Police.
- These reports are provided to the Ministry of Transport and the New Zealand Transport Agency by rail operators, usually within 72 hours of the incident or when enough information has been compiled.
- Caution should be exercised in interpreting the statistics in this report in the light of the size of the numbers and the short time periods involved.
### Rail incidents in New Zealand reported by rail operators

#### Rail incidents

<table>
<thead>
<tr>
<th>General category incident type</th>
<th>Oct to Dec 2010</th>
<th>Oct to Dec 2011</th>
<th>Last 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collisions (between rail vehicles)</td>
<td>8</td>
<td>2</td>
<td>18</td>
</tr>
<tr>
<td>Derailments (of rail vehicles)</td>
<td>95</td>
<td>77</td>
<td>310</td>
</tr>
<tr>
<td>Fires (on trains/by track)</td>
<td>17</td>
<td>16</td>
<td>42</td>
</tr>
<tr>
<td>Level crossing incidents</td>
<td>54</td>
<td>32</td>
<td>168</td>
</tr>
<tr>
<td>Obstruction incidents</td>
<td>35</td>
<td>71</td>
<td>226</td>
</tr>
<tr>
<td>Operating incidents</td>
<td>130</td>
<td>221</td>
<td>624</td>
</tr>
<tr>
<td>Person on track incidents</td>
<td>21</td>
<td>43</td>
<td>133</td>
</tr>
<tr>
<td>Shunting incidents</td>
<td>4</td>
<td>8</td>
<td>25</td>
</tr>
<tr>
<td>Tram</td>
<td>6</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Vandalism incidents</td>
<td>20</td>
<td>43</td>
<td>128</td>
</tr>
<tr>
<td>Other incidents</td>
<td>1</td>
<td>7</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total number of incidents</strong></td>
<td><strong>391</strong></td>
<td><strong>521</strong></td>
<td><strong>1684</strong></td>
</tr>
</tbody>
</table>

#### Casualties from rail incidents

<table>
<thead>
<tr>
<th>General category incident type</th>
<th>Oct to Dec 2010</th>
<th>Oct to Dec 2011</th>
<th>Last 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collisions (between rail vehicles)</td>
<td>.</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>Derailments (of rail vehicles)</td>
<td>.</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>Fires (on trains/by track)</td>
<td>.</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>Level crossing incidents</td>
<td>.</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>Obstruction incidents</td>
<td>.</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>Operating incidents</td>
<td>.</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>Person on track incidents</td>
<td>3</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>Shunting incidents</td>
<td>.</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>Tram</td>
<td>.</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>Vandalism incidents</td>
<td>.</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>Other incidents</td>
<td>.</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td><strong>Total number of casualties</strong></td>
<td><strong>3</strong></td>
<td><strong>2</strong></td>
<td><strong>43</strong></td>
</tr>
</tbody>
</table>

**Last 12 months:**

<table>
<thead>
<tr>
<th>General category incident type</th>
<th>Deaths</th>
<th>Serious injuries</th>
<th>Minor injuries</th>
<th>Deaths</th>
<th>Serious injuries</th>
<th>Minor injuries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collisions (between rail vehicles)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Derailments (of rail vehicles)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fires (on trains/by track)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Level crossing incidents</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Obstruction incidents</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating incidents</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Person on track incidents</td>
<td>3</td>
<td>.</td>
<td>.</td>
<td>4</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Shunting incidents</td>
<td>.</td>
<td>.</td>
<td>.</td>
<td>.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tram</td>
<td>.</td>
<td>.</td>
<td>.</td>
<td>.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vandalism incidents</td>
<td>.</td>
<td>1</td>
<td></td>
<td>.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other incidents</td>
<td>.</td>
<td>.</td>
<td>.</td>
<td>.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total number of casualties</strong></td>
<td>3</td>
<td>2</td>
<td>4</td>
<td>5</td>
<td>1</td>
<td>43</td>
</tr>
</tbody>
</table>
## Rail incidents by local government region

<table>
<thead>
<tr>
<th>Local govt region</th>
<th>Oct to Dec 2010</th>
<th>Oct to Dec 2011</th>
<th>Last 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northland</td>
<td>6</td>
<td>4</td>
<td>21</td>
</tr>
<tr>
<td>Auckland</td>
<td>80</td>
<td>128</td>
<td>430</td>
</tr>
<tr>
<td>Waikato</td>
<td>35</td>
<td>45</td>
<td>133</td>
</tr>
<tr>
<td>Bay of Plenty</td>
<td>14</td>
<td>20</td>
<td>76</td>
</tr>
<tr>
<td>Gisborne</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Hawke’s Bay</td>
<td>10</td>
<td>14</td>
<td>50</td>
</tr>
<tr>
<td>Taranaki</td>
<td>11</td>
<td>17</td>
<td>40</td>
</tr>
<tr>
<td>Manawatu-Wanganui</td>
<td>43</td>
<td>45</td>
<td>154</td>
</tr>
<tr>
<td>Wellington</td>
<td>80</td>
<td>116</td>
<td>349</td>
</tr>
<tr>
<td>Nelson-Marlborough-Tasman</td>
<td>11</td>
<td>16</td>
<td>45</td>
</tr>
<tr>
<td>West Coast</td>
<td>19</td>
<td>27</td>
<td>83</td>
</tr>
<tr>
<td>Canterbury</td>
<td>52</td>
<td>56</td>
<td>205</td>
</tr>
<tr>
<td>Otago</td>
<td>20</td>
<td>11</td>
<td>54</td>
</tr>
<tr>
<td>Southland</td>
<td>8</td>
<td>20</td>
<td>40</td>
</tr>
<tr>
<td><strong>Total number of incidents</strong></td>
<td><strong>391</strong></td>
<td><strong>521</strong></td>
<td><strong>1684</strong></td>
</tr>
</tbody>
</table>

**Note:** total includes unknowns so region data may not add to column total.
**Level crossing incidents**

**Definition:** incidents that occur at a level crossing (public or private) involving a motor vehicle, a pedestrian or a pedal cyclist. Incident reports can give information about the type of protection present at the level crossing.

**Number of level crossing incidents**

<table>
<thead>
<tr>
<th>Incident type</th>
<th>Oct to Dec 2010</th>
<th>Oct to Dec 2011</th>
<th>Last 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level crossing incidents – collision with motor vehicle</td>
<td>5</td>
<td>9</td>
<td>30</td>
</tr>
<tr>
<td>Level crossing incidents – NEAR collision with motor vehicle</td>
<td>44</td>
<td>22</td>
<td>108</td>
</tr>
<tr>
<td>Level crossing incidents – collision involving a pedestrian or pedal cyclist</td>
<td>-</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>Level crossing incidents – NEAR collision involving a pedestrian or pedal cyclist</td>
<td>4</td>
<td>1</td>
<td>16</td>
</tr>
<tr>
<td>Level crossing incidents – other</td>
<td>1</td>
<td>-</td>
<td>13</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>54</strong></td>
<td><strong>32</strong></td>
<td><strong>168</strong></td>
</tr>
</tbody>
</table>

**Type of protection present and working for level crossing incidents**

<table>
<thead>
<tr>
<th>Protection type</th>
<th>Oct to Dec 2010</th>
<th>Oct to Dec 2011</th>
<th>Last 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Present</td>
<td>Working</td>
<td>Present</td>
<td>Working</td>
</tr>
<tr>
<td>Flashing lights &amp; bells (FLB)</td>
<td>3</td>
<td>3</td>
<td>8</td>
</tr>
<tr>
<td>Half arm barriers with lights and bells (HAB)</td>
<td>11</td>
<td>11</td>
<td>6</td>
</tr>
<tr>
<td>Stop signs/St Andrews signs</td>
<td>4</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>18</strong></td>
<td><strong>18</strong></td>
<td><strong>19</strong></td>
</tr>
<tr>
<td>None/not known</td>
<td>36</td>
<td>-</td>
<td>13</td>
</tr>
</tbody>
</table>

**Type of protection present and working for level crossing collision with motor vehicle incidents**

<table>
<thead>
<tr>
<th>Protection type</th>
<th>Oct to Dec 2010</th>
<th>Oct to Dec 2011</th>
<th>Last 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Present</td>
<td>Working</td>
<td>Present</td>
<td>Working</td>
</tr>
<tr>
<td>Flashing lights &amp; bells (FLB)</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Half arm barriers with lights and bells (HAB)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Stop signs/St Andrews signs</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>2</strong></td>
<td><strong>2</strong></td>
<td><strong>4</strong></td>
</tr>
<tr>
<td>None/not known</td>
<td>3</td>
<td>-</td>
<td>5</td>
</tr>
</tbody>
</table>
Crashes and casualties for level crossing collisions with motor vehicles (Crash Analysis System) (1)

Data derived from Police traffic crash reports of collisions with motor vehicles at level crossings.

<table>
<thead>
<tr>
<th>Year</th>
<th>Crashes</th>
<th>Casualties</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total</td>
<td>Fatal</td>
</tr>
<tr>
<td>2000</td>
<td>14</td>
<td>3</td>
</tr>
<tr>
<td>2001</td>
<td>16</td>
<td>4</td>
</tr>
<tr>
<td>2002</td>
<td>14</td>
<td>6</td>
</tr>
<tr>
<td>2003</td>
<td>16</td>
<td>3</td>
</tr>
<tr>
<td>2004</td>
<td>21</td>
<td>7</td>
</tr>
<tr>
<td>2005</td>
<td>21</td>
<td>4</td>
</tr>
<tr>
<td>2006</td>
<td>7</td>
<td>2</td>
</tr>
<tr>
<td>2007</td>
<td>15</td>
<td>3</td>
</tr>
<tr>
<td>2008</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>2009</td>
<td>12</td>
<td>3</td>
</tr>
<tr>
<td>2010</td>
<td>8</td>
<td>-</td>
</tr>
</tbody>
</table>

Level crossing collisions by crash severity (1970–2010) (from Police motor vehicle traffic crash reports)

Note: pre–1980 data are derived from historical records.

(1) the Crash Analysis System (CAS) is a tool available to registered users that manages, analyses and maps traffic crash and related data, based on Police traffic crash reports (TCR) forwarded to the NZ Transport Agency (NZTA).
**Obstruction incidents**

**Definition:** incidents where an object obstructing the rail corridor has been struck by a train or nearly been struck by a train. This excludes level crossing collisions.

Overall there were 226 obstruction incidents recorded for the last 12 months, with 153 of these being collisions.

**Obstruction ‘collision with object’ incidents by type of object struck**

<table>
<thead>
<tr>
<th>Type of object struck</th>
<th>Oct to Dec 2010</th>
<th>Oct to Dec 2011</th>
<th>Last 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal not cattle</td>
<td>-</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Cattle</td>
<td>8</td>
<td>10</td>
<td>40</td>
</tr>
<tr>
<td>Motor vehicle</td>
<td>1</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Rail equipment</td>
<td>3</td>
<td>7</td>
<td>26</td>
</tr>
<tr>
<td>Tree</td>
<td>3</td>
<td>8</td>
<td>28</td>
</tr>
<tr>
<td>Other</td>
<td>14</td>
<td>13</td>
<td>55</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>29</strong></td>
<td><strong>38</strong></td>
<td><strong>153</strong></td>
</tr>
</tbody>
</table>

*Note: total may include unknown objects*

**Type of object struck by a train by percentage of reported obstruction – collision incidents (2009–2011)**

- Cattle, 28%
- Other, 36%
- Tree, 16%
- Motor vehicle, 4%
- Rail equipment, 13%
- Animal not cattle, 2%

*Note: percentages have been rounded and may not add up to 100%*
**Person on track incidents**

**Definition:** incidents where a person on track (defined as being on or obstructing the rail corridor NOT at a level crossing) has been struck by a train, nearly struck by a train or observed to be present without a train being in the vicinity. These incidents relate to members of the public trespassing in the rail corridor and can include suicides. Rail operator staff or contractors are included in the “Operating incidents” category.

### Number of incidents

<table>
<thead>
<tr>
<th>Incident type</th>
<th>Oct to Dec 2010</th>
<th>Oct to Dec 2011</th>
<th>Last 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Person on track – collision incidents</td>
<td>3</td>
<td>7</td>
<td>17</td>
</tr>
<tr>
<td>Person on track – near collision incidents</td>
<td>15</td>
<td>27</td>
<td>86</td>
</tr>
<tr>
<td>Person on track – other incidents</td>
<td>3</td>
<td>9</td>
<td>30</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>21</strong></td>
<td><strong>43</strong></td>
<td><strong>133</strong></td>
</tr>
</tbody>
</table>

### Historical time series of reported casualties by calendar year for person on track collisions

<table>
<thead>
<tr>
<th>Year</th>
<th>Deaths</th>
<th>Serious injuries</th>
<th>Minor injuries</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>17</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>2001</td>
<td>11</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>2002</td>
<td>10</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>2003</td>
<td>14</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>2004</td>
<td>5</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>2005</td>
<td>9</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>2006</td>
<td>14</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>2007</td>
<td>3</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>2008</td>
<td>7</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>2009</td>
<td>7</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>2010</td>
<td>9</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>2011</td>
<td>11</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>
**Vandalism incidents**

**Definition:** incidents where an object has been thrown at a train, an object has been deliberately placed on the track, or rail property has been altered deliberately or stolen.

### Number of incidents

<table>
<thead>
<tr>
<th>Incident type</th>
<th>Oct to Dec 2010</th>
<th>Oct to Dec 2011</th>
<th>Last 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vandalism – object thrown at train incidents</td>
<td>15</td>
<td>14</td>
<td>55</td>
</tr>
<tr>
<td>Vandalism, other incidents</td>
<td>5</td>
<td>29</td>
<td>73</td>
</tr>
<tr>
<td>TOTAL</td>
<td>20</td>
<td>43</td>
<td>128</td>
</tr>
</tbody>
</table>

**Vandalism – object thrown at train incidents**

<table>
<thead>
<tr>
<th>Object thrown at train</th>
<th>Oct to Dec 2010</th>
<th>Oct to Dec 2011</th>
<th>Last 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bottles</td>
<td>-</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Rocks or stones</td>
<td>9</td>
<td>12</td>
<td>47</td>
</tr>
<tr>
<td>Unknown objects</td>
<td>6</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>Other</td>
<td>-</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>TOTAL</td>
<td>15</td>
<td>14</td>
<td>55</td>
</tr>
</tbody>
</table>

**Fire incidents**

**Definition:** incidents where there was a fire either trackside by the rail corridor or on board a rail vehicle.

<table>
<thead>
<tr>
<th>Fire location</th>
<th>Oct to Dec 2010</th>
<th>Oct to Dec 2011</th>
<th>Last 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trackside fire</td>
<td>4</td>
<td>7</td>
<td>18</td>
</tr>
<tr>
<td>Fire on board a rail vehicle</td>
<td>13</td>
<td>9</td>
<td>24</td>
</tr>
<tr>
<td>Total</td>
<td>17</td>
<td>16</td>
<td>42</td>
</tr>
</tbody>
</table>
Derailment incidents

**Definition:** incidents where a train or rail vehicle has derailed while moving along a rail track. The type of rail vehicle that derailed is identified as best as possible from rail incident reports. Note: many of these derailments occur in rail yards during loading and shunting operations.

### Derailments by type of rail vehicle (including bogies)

<table>
<thead>
<tr>
<th>Type of rail vehicle</th>
<th>Oct to Dec 2010</th>
<th>Oct to Dec 2011</th>
<th>Last 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>On mainline</td>
<td>In yard</td>
<td>On mainline</td>
</tr>
<tr>
<td>Hi rail vehicle</td>
<td>-</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Lead bogie</td>
<td>1</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>Locomotive</td>
<td>1</td>
<td>19</td>
<td>3</td>
</tr>
<tr>
<td>Shunt</td>
<td>-</td>
<td>11</td>
<td>-</td>
</tr>
<tr>
<td>Trailing bogie</td>
<td>2</td>
<td>6</td>
<td>-</td>
</tr>
<tr>
<td>Tram</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Wagon</td>
<td>1</td>
<td>48</td>
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</tr>
<tr>
<td>Other</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>5</strong></td>
<td><strong>90</strong></td>
<td><strong>5</strong></td>
</tr>
</tbody>
</table>

**Note:** a Hi rail vehicle is a general purpose rail capable truck, utility, car, bus or van, used to transport people, equipment or materials to a site, or to carry out on-rail tasks such as inspection, grease dispensing, weed spraying, drain cleaning etc. For more detail, please go to [http://www.kiwirail.co.nz/glossary-of-terms.html](http://www.kiwirail.co.nz/glossary-of-terms.html)
**Operating incidents**

**Definition:** incidents that occur during the course of rail operations in motion but excludes those categorised as derailments, collisions or shunting incidents.

### Operating incident by incident type

<table>
<thead>
<tr>
<th>Incident type</th>
<th>Oct to Dec 2010</th>
<th>Oct to Dec 2011</th>
<th>Last 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collision</td>
<td>-</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>Illegal passenger on train incidents</td>
<td>3</td>
<td>4</td>
<td>19</td>
</tr>
<tr>
<td>Infrastructure incidents</td>
<td>59</td>
<td>58</td>
<td>159</td>
</tr>
<tr>
<td>Insecure load incidents</td>
<td>5</td>
<td>9</td>
<td>25</td>
</tr>
<tr>
<td>Level crossing alarm failure incidents</td>
<td>2</td>
<td>7</td>
<td>11</td>
</tr>
<tr>
<td>Near collision incidents</td>
<td>-</td>
<td>5</td>
<td>14</td>
</tr>
<tr>
<td>Rolling stock incidents</td>
<td>4</td>
<td>4</td>
<td>18</td>
</tr>
<tr>
<td>SPAD related incidents</td>
<td>18</td>
<td>24</td>
<td>70</td>
</tr>
<tr>
<td>Track warrant irregularity incidents</td>
<td>4</td>
<td>11</td>
<td>26</td>
</tr>
<tr>
<td>Track occupancy irregularity incidents</td>
<td>7</td>
<td>14</td>
<td>54</td>
</tr>
<tr>
<td>Other incidents</td>
<td>28</td>
<td>85</td>
<td>227</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>130</strong></td>
<td><strong>221</strong></td>
<td><strong>624</strong></td>
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</tbody>
</table>

**Note:** SPAD = signals passed at danger.
# Time series casualty data

## Deaths and reported injuries for motor vehicle crashes at a level crossing in the Crash Analysis System (CAS)

<table>
<thead>
<tr>
<th>Year</th>
<th>2001</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Motor vehicle level crossing casualties</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Deaths</td>
<td>4</td>
<td>6</td>
<td>3</td>
<td>8</td>
<td>4</td>
<td>2</td>
<td>5</td>
<td>1</td>
<td>4</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Injuries</td>
<td>18</td>
<td>11</td>
<td>17</td>
<td>18</td>
<td>22</td>
<td>7</td>
<td>19</td>
<td>13</td>
<td>14</td>
<td>11</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** The number of level crossing deaths in CAS may be lower than the number in the Rail Incident Database as CAS includes only official road deaths. Deaths determined by the coroner to be a result of medical events or suicide are not included as official road deaths. Reported injury numbers may differ between the two systems. CAS includes road crashes attended and reported by Police.

## Deaths and reported injuries for grouped rail incident types in the Rail Incident Database

<table>
<thead>
<tr>
<th>Year</th>
<th>2001</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
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<tr>
<td><strong>Motor vehicle level crossing casualties</strong></td>
<td></td>
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<td></td>
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<td></td>
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</tr>
<tr>
<td>Deaths</td>
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<td>8</td>
<td>4</td>
<td>7</td>
<td>5</td>
<td>2</td>
<td>6</td>
<td>3</td>
<td>4</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Injuries</td>
<td>18</td>
<td>11</td>
<td>17</td>
<td>18</td>
<td>22</td>
<td>7</td>
<td>19</td>
<td>13</td>
<td>14</td>
<td>11</td>
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</tr>
<tr>
<td><strong>Pedestrian level crossing casualties</strong></td>
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<td>2</td>
<td>4</td>
<td>3</td>
<td>2</td>
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<td><strong>Pedal cyclist level crossing casualties</strong></td>
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<tr>
<td>Deaths</td>
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<tr>
<td><strong>Person on track casualties</strong></td>
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<td>7</td>
<td>8</td>
<td>1</td>
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<td>8</td>
<td>7</td>
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<tr>
<td><strong>Other casualties - members of the public</strong></td>
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<td>8</td>
<td>7</td>
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<td>Injuries</td>
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<td>22</td>
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<td>13</td>
<td>25</td>
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<tr>
<td><strong>Other casualties - rail employees</strong></td>
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<td>17</td>
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<td>11</td>
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<tr>
<td><strong>All rail incident deaths and injuries</strong></td>
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<td>33</td>
<td>30</td>
<td>34</td>
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</tr>
</tbody>
</table>

Statistics prepared by Financial, Economic and Statistical Analysis, Ministry of Transport. Enquiries regarding these statistics may be directed to Financial, Economic and Statistical Analysis, Ministry of Transport, PO Box 3175, Wellington or by email on info@transport.govt.nz.

For further information on crash statistics see Motor Vehicle Crashes in New Zealand, the annual statistical statement produced by the Ministry of Transport. This publication is available in secondary school libraries and many public libraries and online at www.transport.govt.nz.