Economic Commission for Europe
Inland Transport Committee
Working Party on Road Traffic Safety
Group of Experts on Improving Safety at Level Crossings
Sixth session
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Item 2 (b) of the provisional agenda
Programme of Work:
An evaluation and analysis of the safety performance of types of level crossings in UNECE member States and in selected non-UNECE member States such as Australia, India, New Zealand and South Africa

This document, submitted by the Government of Turkey, provides detailed data related to number of accidents, deaths and injuries at level crossings in Turkey.
The following data were taken for 2014, and prepared in accordance with the criteria of UIC.

Annex-2

The Proposed Data Inputs 1:

1. The number of level crossing accidents in 2014 by the legal status of level crossings.
   41 level crossing accidents occurred. (All public)

2. The number of level crossing accidents in 2014 by the protection systems type of the level crossings.
   a- 3 accidents occurred on manned level crossings.
   b- 9 accidents occurred on automatic barrier level crossings.
   c- 4 accidents occurred on automatic level crossings with flasher and bell.
   d- 21 accidents occurred on open level crossings.
   e- 4 accidents occurred on the railway sections with no level crossing.

3. The number of level crossing accidents in 2014 by the type of level crossing user.
   41 level crossing accident occurred.

4. The number of level crossing accidents involving death in 2014 by the legal status of level crossing.
   29 level crossing accidents occurred. (All public)

5. The number of level crossing accidents in 2014 by the protection systems type of the level crossings.
   a- 2 accidents occurred on manned level crossings.
   b- 4 accidents occurred on automatic barrier level crossings.
   c- 2 accidents occurred on automatic level crossings with flasher and bell.
   d- 18 accidents occurred on open level crossings.
   e- 3 accidents occurred on the railway sections with no level crossings during the crossing of road vehicles.
6. The number of level crossing accidents involving death in 2014 by the type of level crossing user.
29 level crossing accidents involving death, all of which were train-vehicle collision, occurred.

7. The number of deaths due to level crossing accidents in 2014 by the legal status of level crossings.
43 people died. (All public)

8. The number of deaths due to level crossing accidents in 2014 by the protection systems type of the level crossings.
a- 10 people died due to accidents occurred on manned level crossings.
b- 5 people died due to accidents occurred on automatic barrier level crossings.
c- 2 people died due to accidents occurred on automatic level crossings with flasher and bell.
d- 24 people died due to accidents occurred on open level crossings.
e- 2 people died due to accidents occurred on the railway sections with no level crossings during the pass of road vehicles.

9. The number of deaths due to level crossing accidents in 2014 by the type of level crossing user.
43 people died due to level crossing accidents, all of which were train-vehicle collision.

10. The number of level crossings by legal status as of 31 December.
a- Public level crossings- 3036
b- Private level crossings- 74
c- The number of unauthorized level crossings is not available.

11. The number of level crossings by protection type as of 31 December.
a- Manned level crossings- 235
b- Automatic barrier level crossings- 833
c- Open level crossings- 2042
The Proposed Data Inputs 2:

1. **The number of level crossing accidents per 1000 level crossings.**
   
   3110 level crossings are available on railway line by 2014.
   
   41 level crossing accidents occurred in 2014.
   
   \[
   \frac{41000}{3110} = 13 \text{ level crossing accidents per 1000 level crossing were occurred.}
   \]

2. **The number of level crossing accidents involving death per 1000 level crossings.**
   
   3110 level crossings are available on railway line by 2014.
   
   29 level crossing accidents involving death occurred on railway line in 2014.
   
   \[
   \frac{29000}{3110} = 9 \text{ level crossing accidents involving death per 1000 level crossing occurred.}
   \]

3. **The number of deaths due to level crossing accidents per 1000 level crossings.**
   
   3110 level crossings are available on railway line by 2014.
   
   43 people died due to level crossing accidents in 2014.
   
   \[
   \frac{43000}{3110} = 14 \text{ people died per 1000 level crossing due to level crossing accidents.}
   \]

4. **The number of level crossing accidents per 1000 km railway line.**
   
   The total length of conventional main railway line by 2014 is 8334 km (level crossings are not available on High-Speed Train (YHT) line).
   
   41 level crossing accidents occurred in 2014.
   
   \[
   \frac{41000}{8334} = 5 \text{ level crossing accidents per 1000 km railway line occurred in 2014.}
   \]

5. **The number of level crossing accidents involving death per 1000 km railway line.**
   
   The total length of conventional main railway line by 2014 is 8334 km (level crossings are not available on High-Speed Train (YHT) line).
   
   29 level crossing accidents involving death occurred in 2014.
   
   \[
   \frac{29000}{8334} = 3 \text{ level crossing accidents involving death per 1000 km railway line occurred in 2014.}
   \]
6. The number of deaths due to level crossing accidents per 1000 km railway line.
The total length of conventional main railway line by 2014 is 8334 km (level crossings are not available on High-Speed Train (YHT) line).
43 people died due to level crossing accidents in 2014.
41000/8334= 5 people died per 1000 km railway line.

7. The percentage of the number of deaths due to level crossing accidents within the number of people killed in road accidents.
The number of people killed in road accidents in 2014: 3524
The number of deaths due to level crossing accidents in 2014: 43
43000/3524= 1.2%

8. The number of deaths due to level crossing accidents per million people.
The population of Turkey in 2014 - 78 000 000
The number of deaths due to level crossing accidents in 2014 - 43
The number of deaths due to level crossing accidents per million people:
43 000 000/78 000 000=0.6 accidents per million people