

Digest of the Analyses of Railway Accidents

For the prevention of derailment accident "Points of management of the track maintenance"

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1. Preface

The railway accidents, hereinafter including the tramway accidents, which became to the subject of the investigation by the JTSTB and the former Aircraft and Railway Accident Investigation Commission, were total 273 accidents in 16 years from 2002 to 2017, among these, the derailment accidents were 190 accidents which was about 70 % of the entire accidents. Refer to Table 1.

When viewed from the number of accidents for each category of the accident, the derailment accidents were the dominant in every year except for 2016, and occupied above half of the accidents occurred in each year in 12 years among the above 16 years.

The derailment accident with fatalities of passenger had not been occurred after 2006, but the prevention of derailment accident was selected as the theme of this digest, based on the situation that the derailment accident which might cause severe damages to persons has still been happened continuously.

Particularly, this digest introduces the trends of the occurrence of the accident, examples of the accidents to be referred, examples of the actions to prevent the accident, etc., in order to be referred widely particularly in the railway operators.

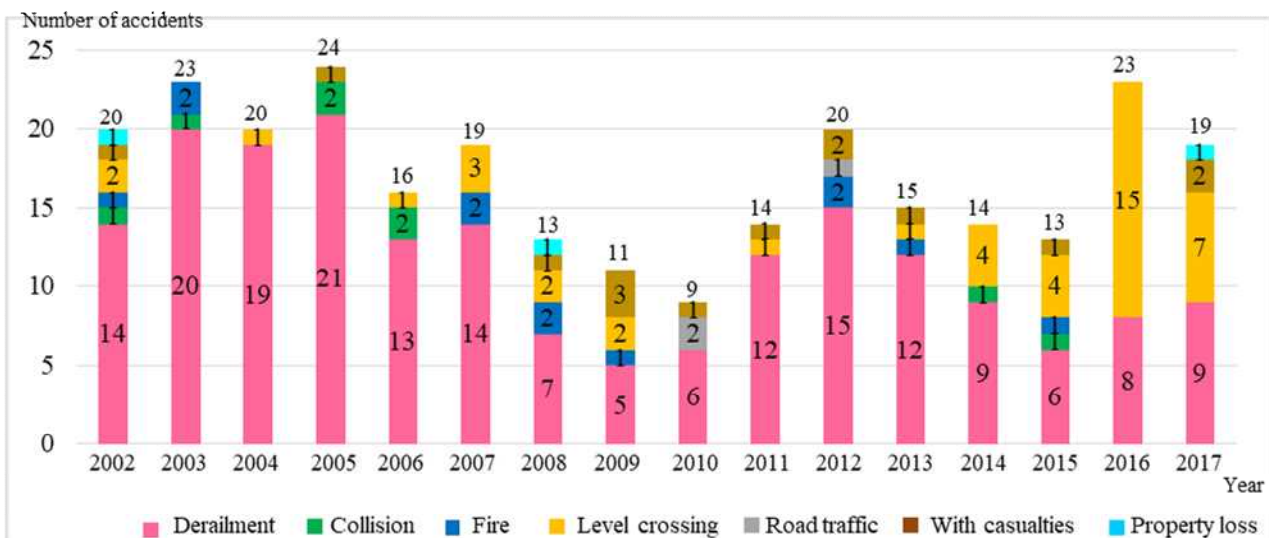


Figure 1. Number of the occurred railway accidents in each category

* Accidents occurred from January 2002 to December 2017 and became the subject to be investigated by the board were counted. The Aircraft and Railway Accidents Investigation Commission had established in October 2001.

* The derailment accident of the snowplow vehicle in the snow removing work was extracted from the subject to be investigated, and the accident with fatalities in the Class three and Class four level crossings, where the crossing gate was not equipped, were added to the subject of the investigation, after April 2014.