



# Statistics and Risk Analyses in the Transport of Dangerous Goods

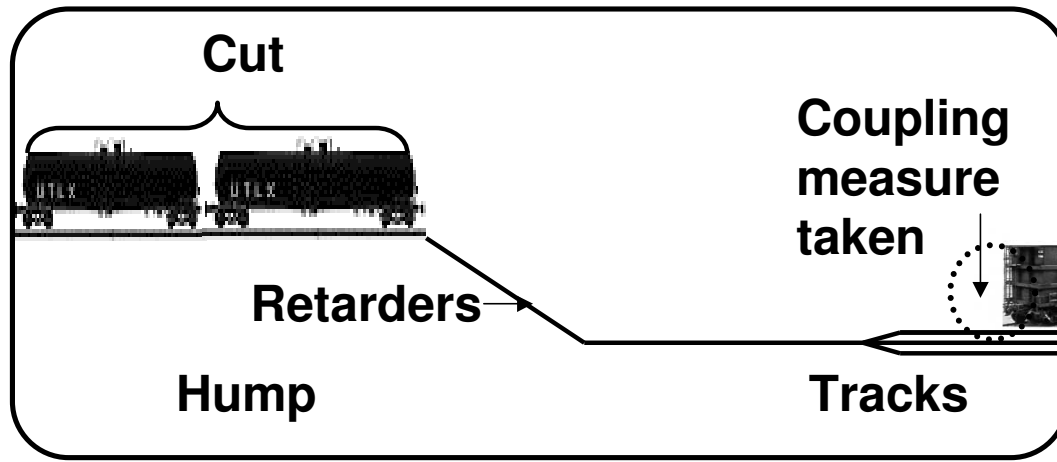
Presented to the Statistical Society of Ottawa — November 25, 2004  
by Michèle Provencher



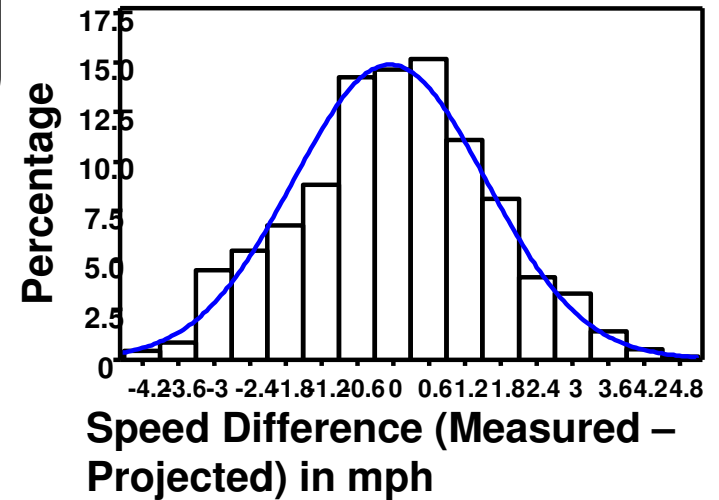
## Risk Analyses

- **Coupling speeds in hump yards**
- **Reliability of girth seams and pressure relief valves on railway tank cars**
- **Transport of dangerous goods: just how much flows within Canada**
- **Severity of accidents involving dangerous goods**

# Coupling Speeds in Hump Yards



Event	Total
Coupling Reading Unreliable	287
No Coupling	210
Coupling Reading Measured	1 269
<b>Total</b>	<b>1 766</b>

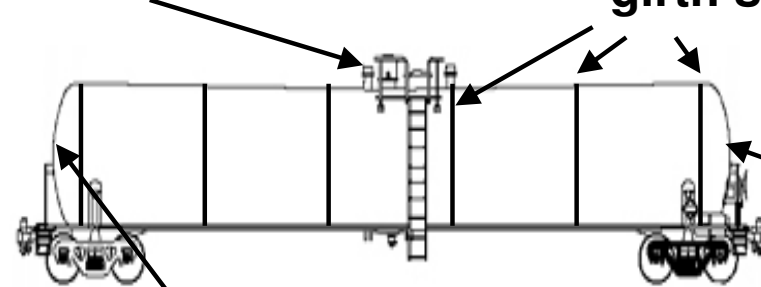


# Reliability of girth seams

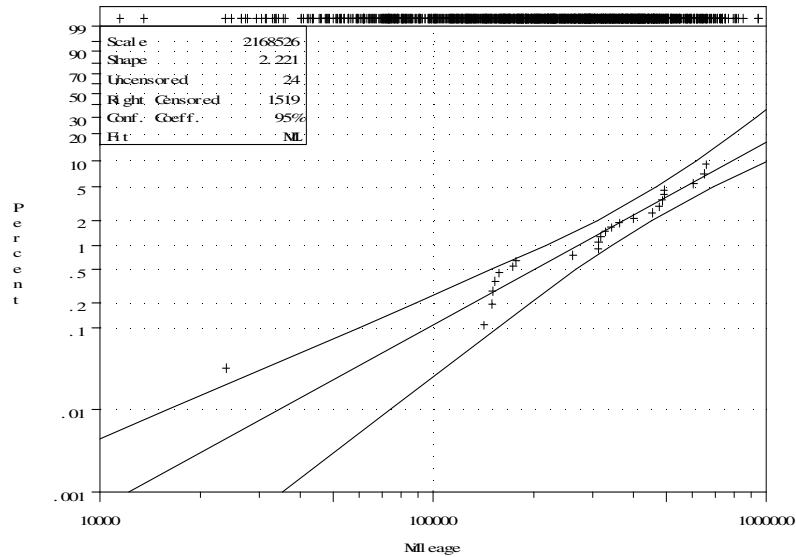
pressure relief valve

girth seams

head



head





# Flow of Dangerous Goods in Canada

Year 2002

## Severity of Accidents

439 reportable accidents (all modes) involving dangerous goods in 2002 resulting in 12 deaths and 72 injuries

