

# **Mass and dimensions – where might we be heading?**

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# Topics

- What's happened about the truck study
- The bus study
- Forestry development
- The future
- A possible strategy

# Truck study proposals 2000

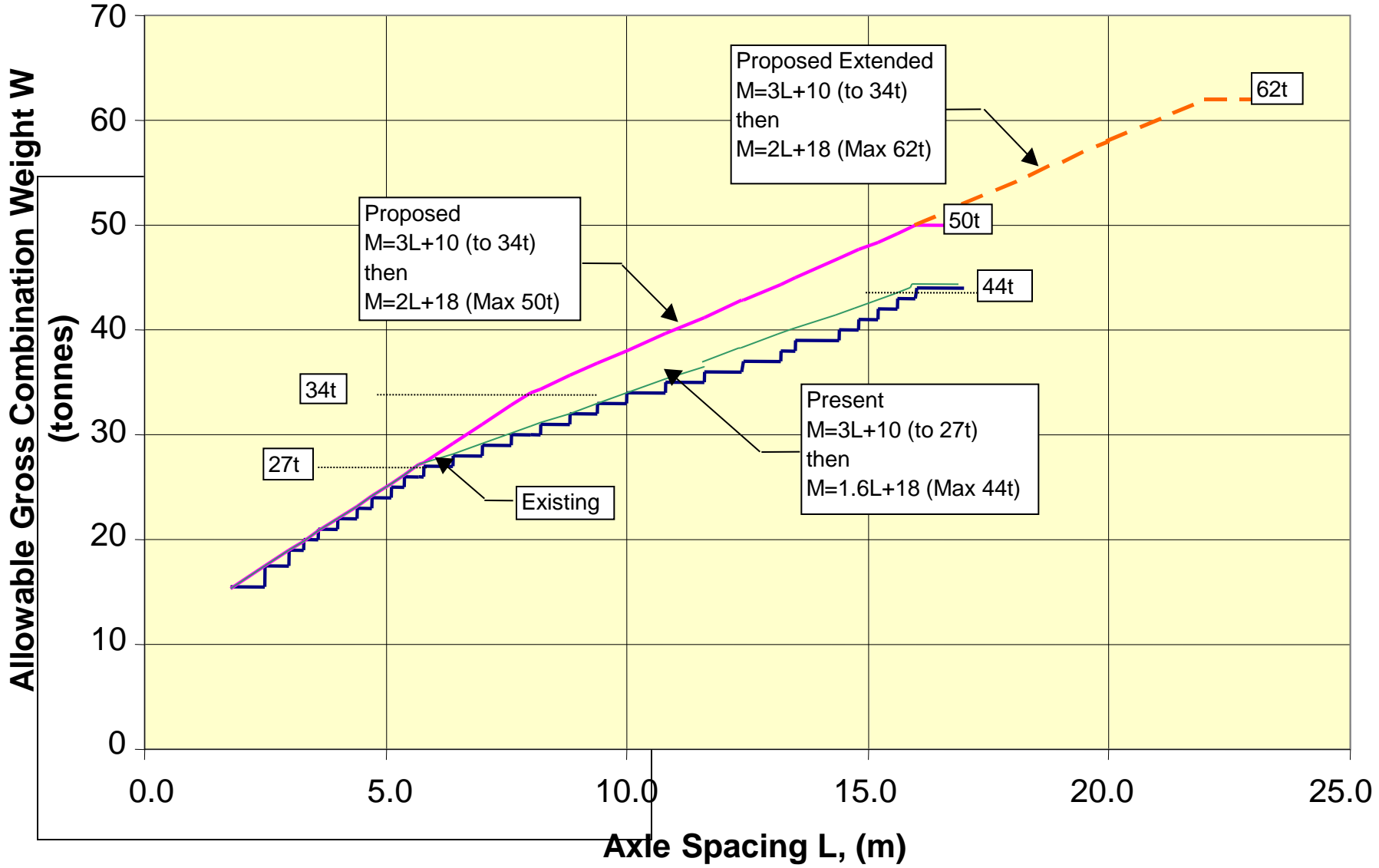
## All roads:

- Scenario A
- Higher axle mass limits on existing vehicles
- Some gross mass increases up to 50 tonnes

## Selected routes:

- Scenario B
- New longer vehicles with higher gross mass limits up to 62 tonnes
- Roads would be upgraded first

# Axle Spacing Weight Schedule



# Some of the concerns raised I

- Modal shift and impact on other modes
- Environmental issues not fully considered
- Vehicle safety and performance
- Impact on cyclists, pedestrians, communities, and regional development
- Impact on local roads

# Some of the concerns raised II

- Costs, benefits, and economic viability questioned
- Timing
- Legislation required to protect local roads
- Mass and route compliance unclear

# Are trucks safe?



Photograph by Otago Daily Times

# Can longer trucks fit?





# Current MOT Investigations

- Extent of modal shift
- Review previous costs and benefits with new assumptions
- Assess new impacts
- Assess impact on other modes
- Implementation issues
- Review economic analysis
- Regulatory issues

# Research on higher limits for buses

- Higher axle weights on all state highways
- Higher axle weights on longer buses in urban areas



# Bus developments



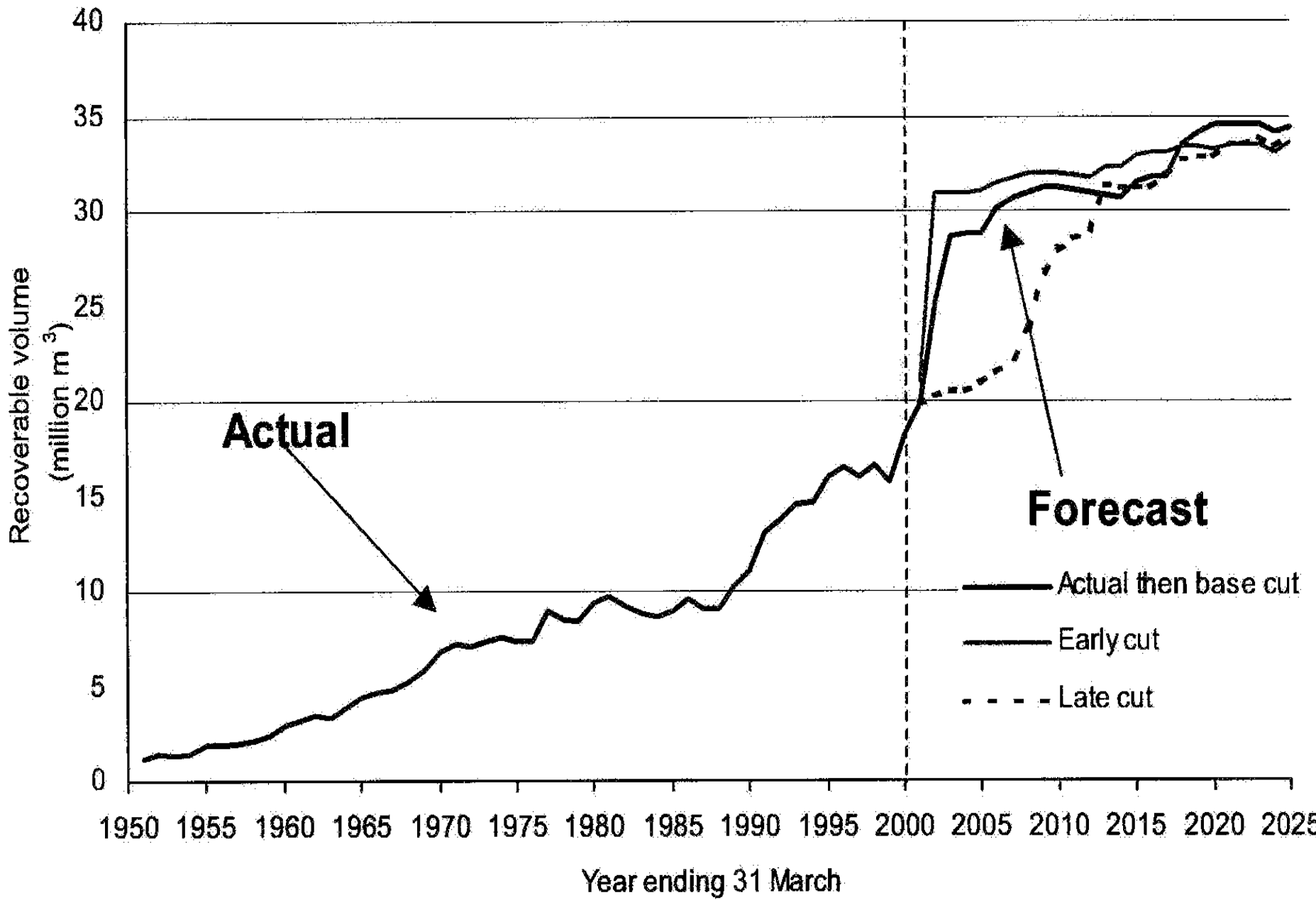


# Log Transport Task

- Rapid growth
  - 650 log trucks in 1997
  - 1,000 log trucks in 2001
  - 3,000 log trucks within 5 to 10 years

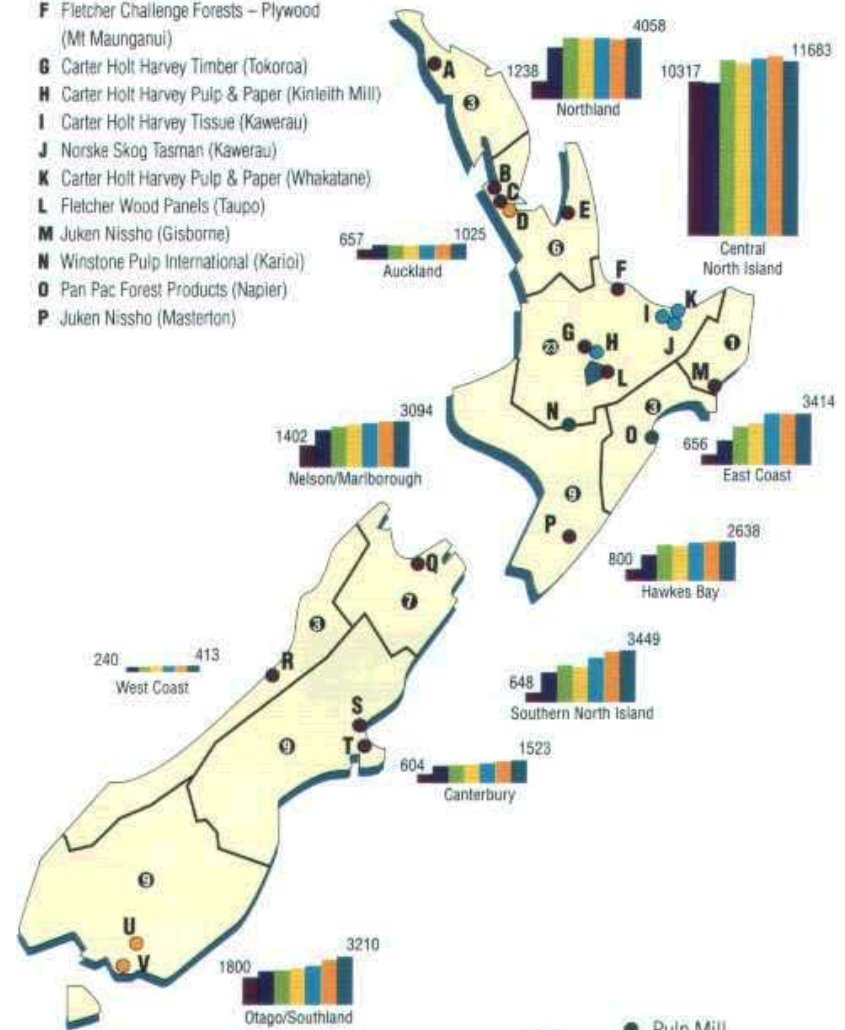
Extra travel almost all on public roads

**Graph 1: Actual and Forecast Harvest from New Zealand's Planted Forests**



# Expected wood flows

- A Juken Nissho (Kaitia)
- B Fletcher Wood Panels (Kumeu)
- C Fletcher Wood Panels (Penrose)
- D Carter Holt Harvey Pulp & Paper (Penrose)
- E Carter Holt Harvey Panels (Thames)
- F Fletcher Challenge Forests – Plywood (Mt Maunganui)
- G Carter Holt Harvey Timber (Tokoroa)
- H Carter Holt Harvey Pulp & Paper (Kintleith Mill)
- I Carter Holt Harvey Tissue (Kawerau)
- J Norske Skog Tasman (Kawerau)
- K Carter Holt Harvey Pulp & Paper (Whakatane)
- L Fletcher Wood Panels (Taupo)
- M Juken Nissho (Gisborne)
- N Winstone Pulp International (Karioti)
- O Pan Pac Forest Products (Napier)
- P Juken Nissho (Masterton)



- Q Nelson Pine Industries (Richmond)
- R International Panel & Lumber (Greymouth)
- S Carter Holt Harvey Panels MDF (Ranglora)
- T Gunn's Veneers (Christchurch)
- U Rayonier New Zealand MDF (Mataura)
- V Southland Veneers (Invercargill)



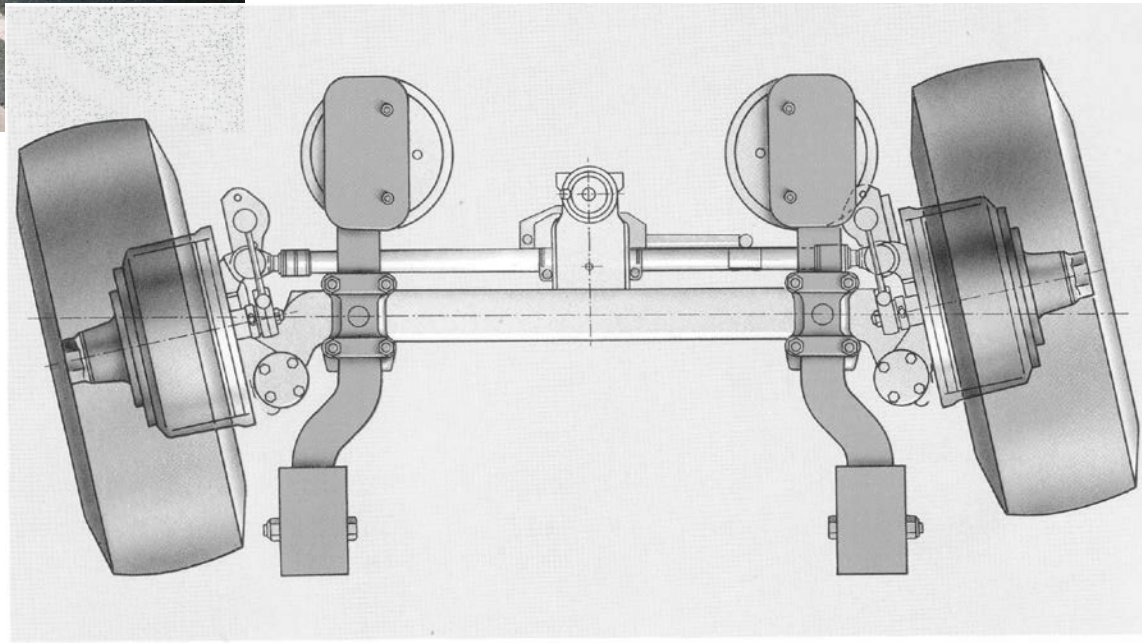
- Pulp Mill
- Paper Mill
- Pulp & Paper
- Panel Board Mill
- Ⓜ Number of sawmills producing 5000m³ or more of sawn timber in the year ended 31/3/00

# The future

- More log trucks on lower strength roads
- Concessions for inter-modal travel
- Higher axle loads on buses and coaches
- 22 m trucks ( and maybe higher mass)
- Higher mass on quad axles
- Wide single tyres



# Quad axle semi-trailers



# X One tyre ranges.

# X One

Long haul in NA.



455/45R22.5 X One XDA & XTA

# A possible strategy

- Develop safety compliance strategy
- Better industry performance → improve public perception of trucks
- ITS including smart vehicles with EPS etc
- Solve the 4<sup>th</sup> power riddle
- Use PBS to encourage innovation



**Thank you  
for your  
attention**