



NSW DEPARTMENT OF
PRIMARY INDUSTRIES



Partners in the profitable and sustainable development of
agriculture, fisheries, forests and minerals in New South Wales

Mine Safety Operations Branch

Site Check Inspectors Conference



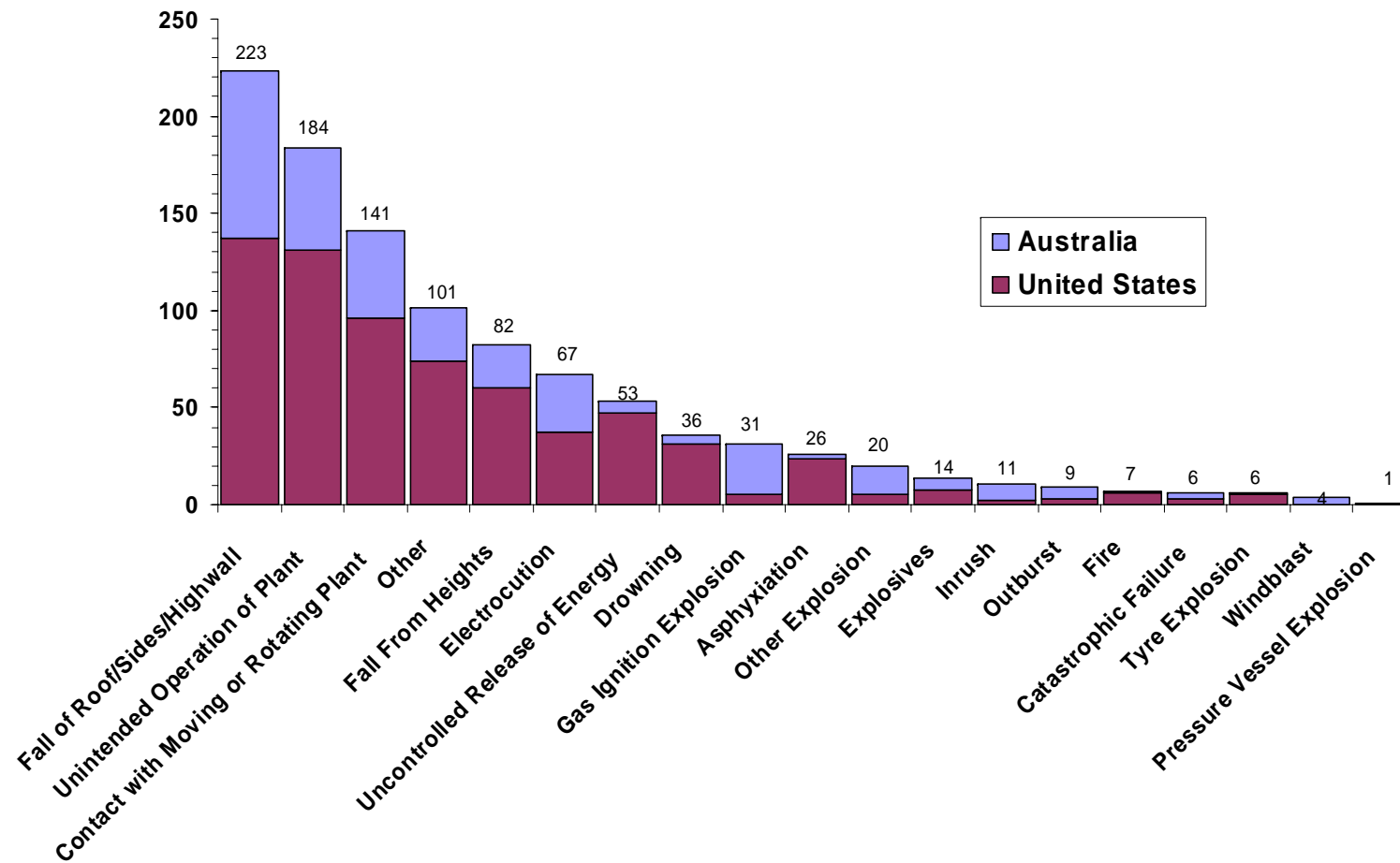
Mechanical Engineering - Issues

Issues:

- Fatalities and Equipment
- New Legislation
- Safety Envelope
- Hydraulics
- Cranes and Lifting
- Human Error

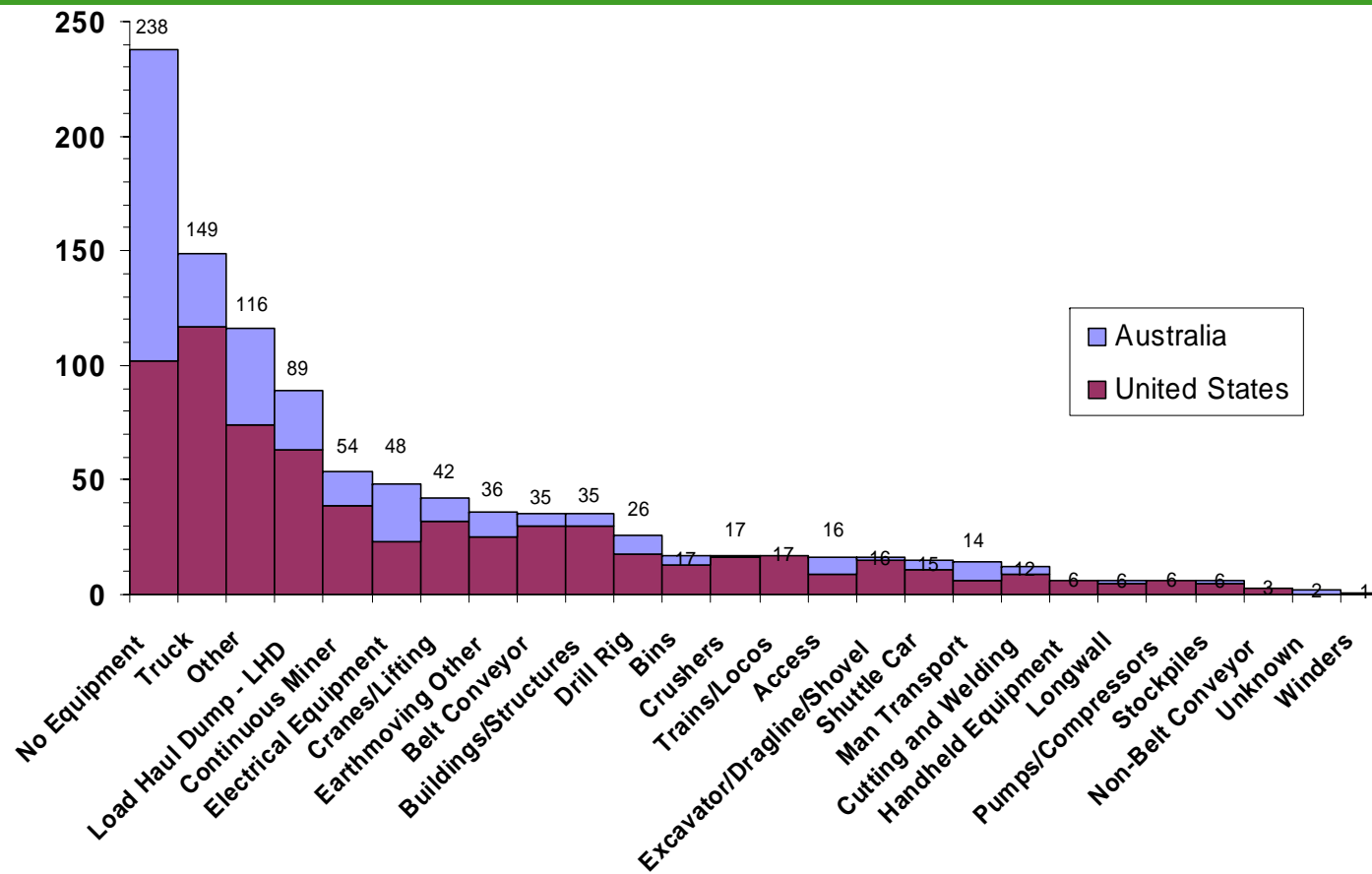


Agent of Fatality – Total 1022



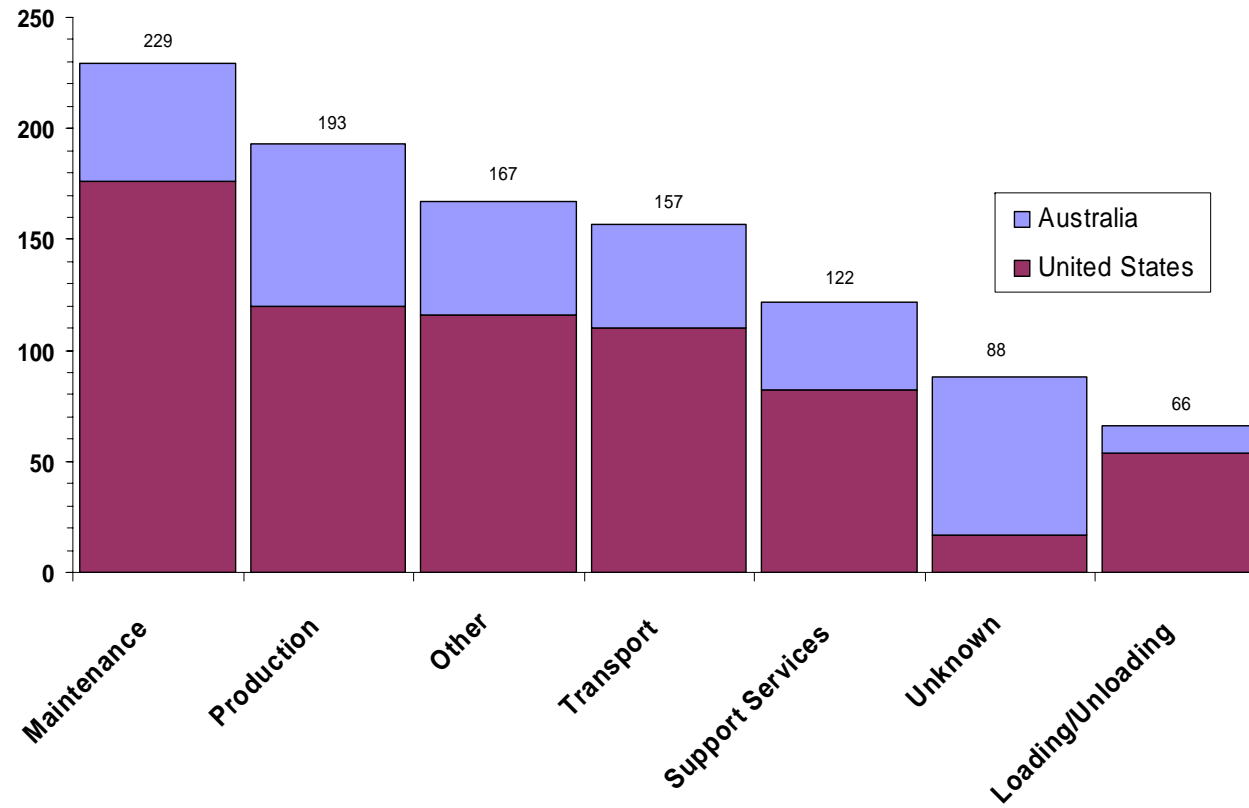


Equipment Involved



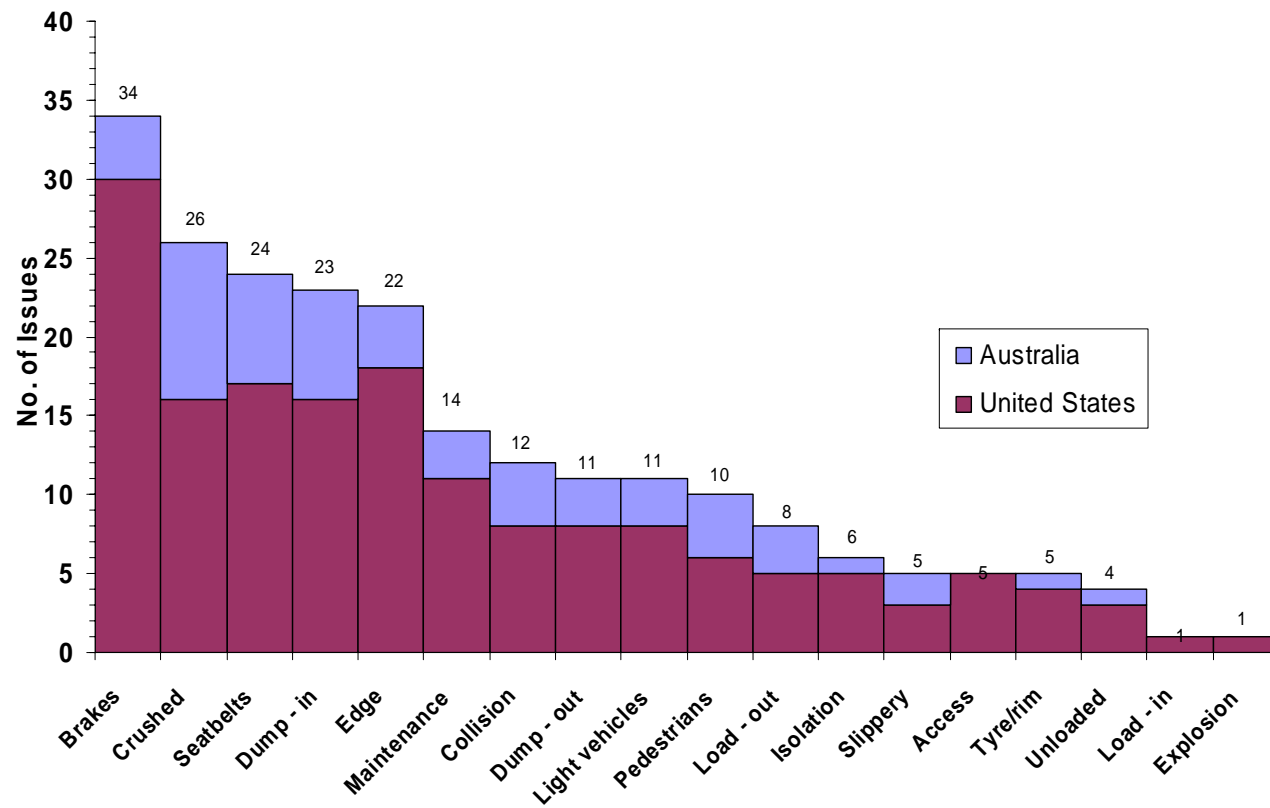


Activities at Time of Incident

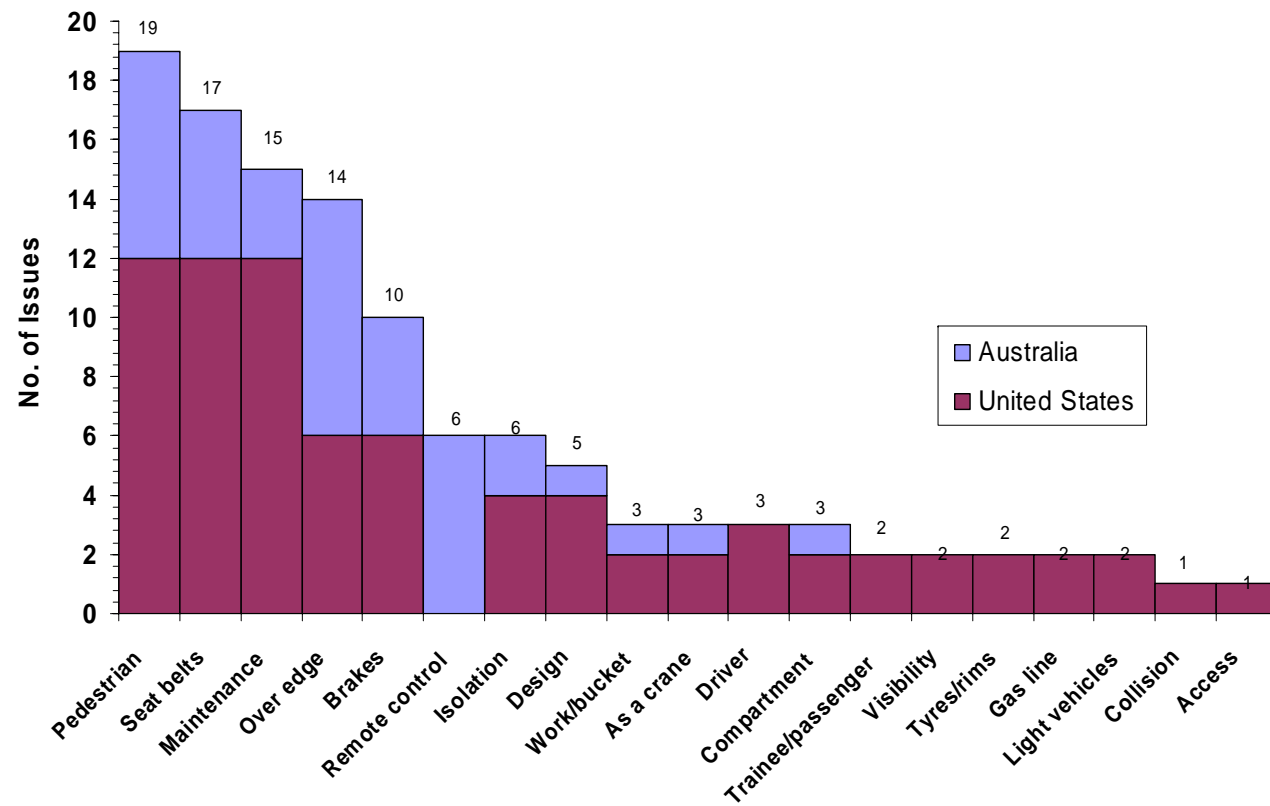




Trucks/Light Vehicles – 147 Fatalities 222 Issues

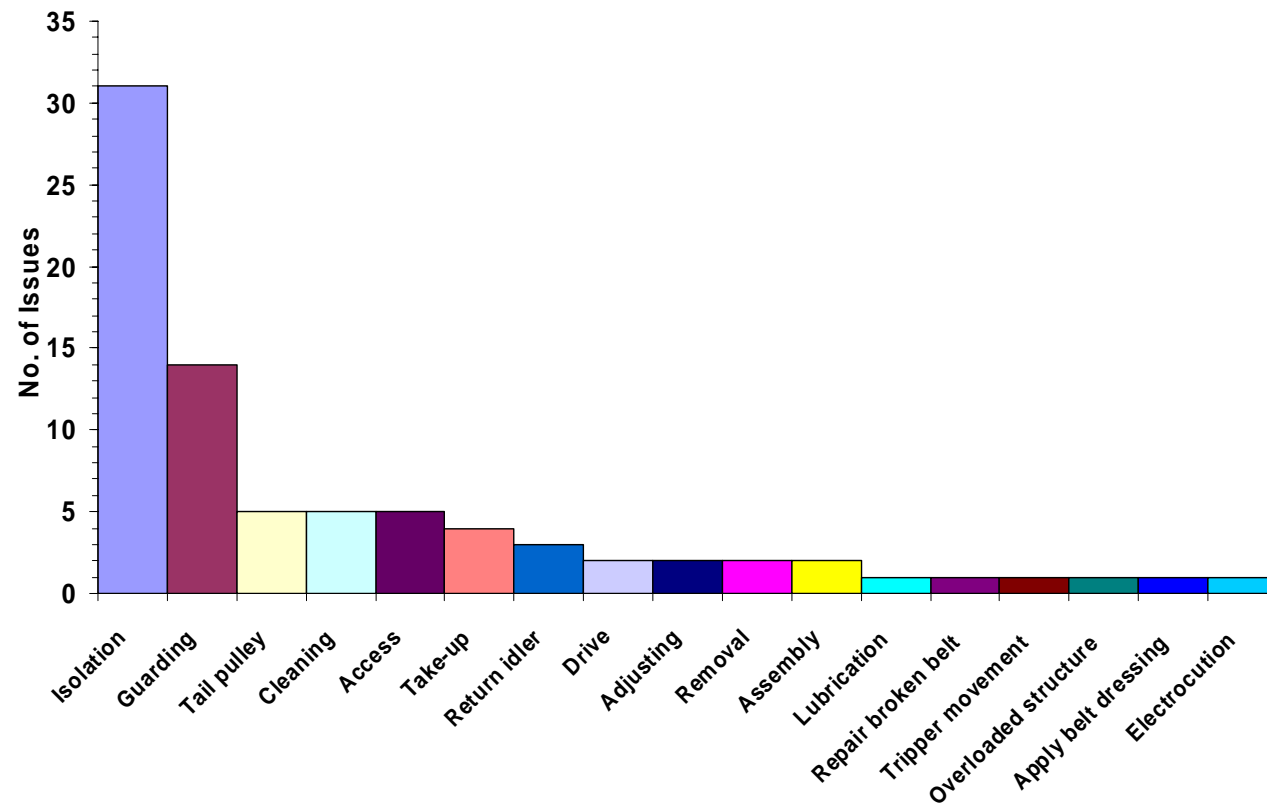


Load Haul Dump Vehicles – 90 Fatalities 116 Issues





Conveyors – 37 Fatalities 81 Issues





Mechanical Engineering - Issues

New Legislation – OH&S Regs, CMH&S Regs

- Registration to Workcover
- Registration to DPI – diesels, winders
- Keeping of Records



Mechanical Engineering - Issues

Safety Envelope

- Information from Supplier of Equipment to cover life cycle use of equipment
- Equipment performing functions on minesites within its capabilities
- Use of a Safety File

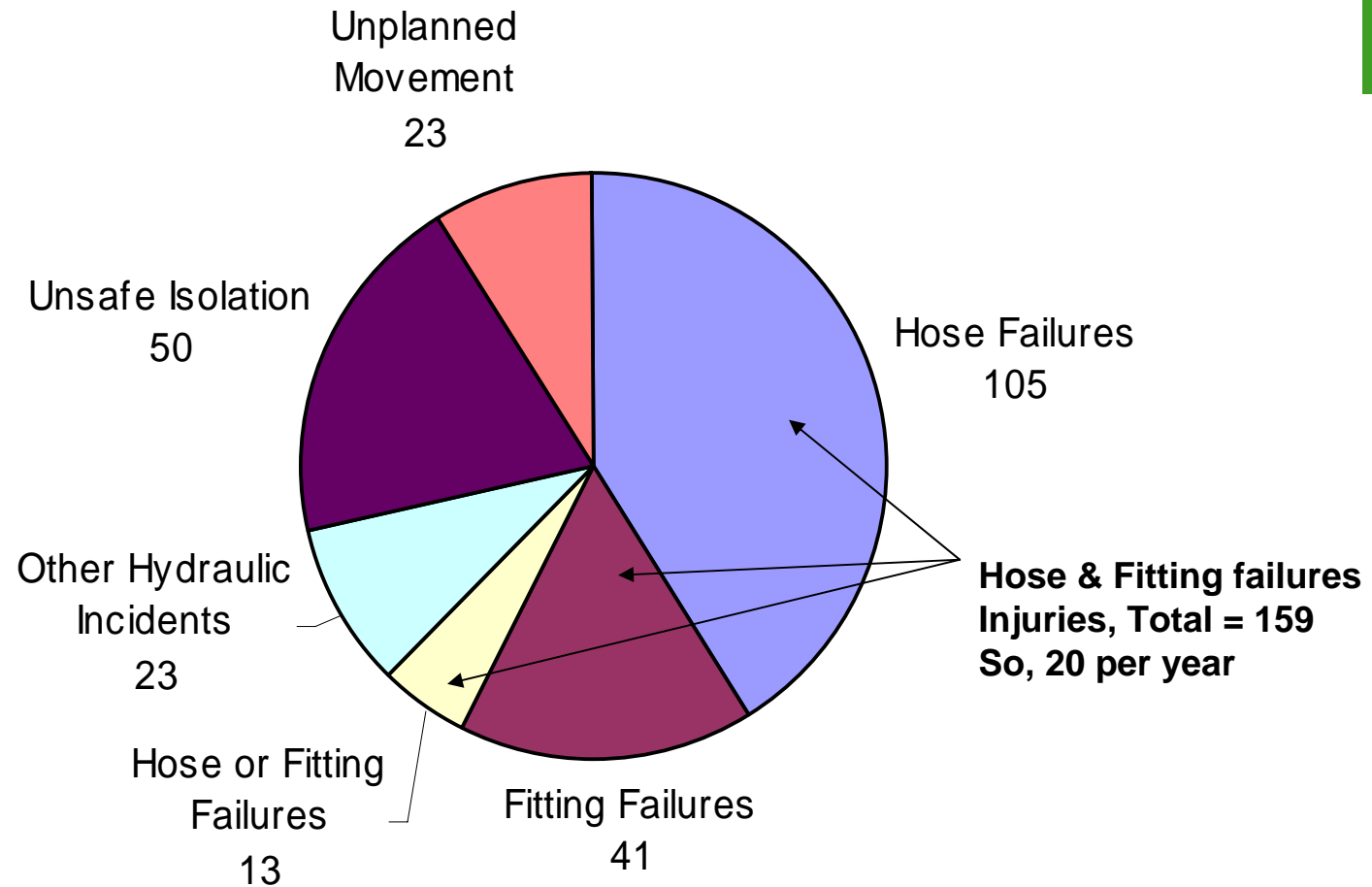


Mechanical Engineering - Issues

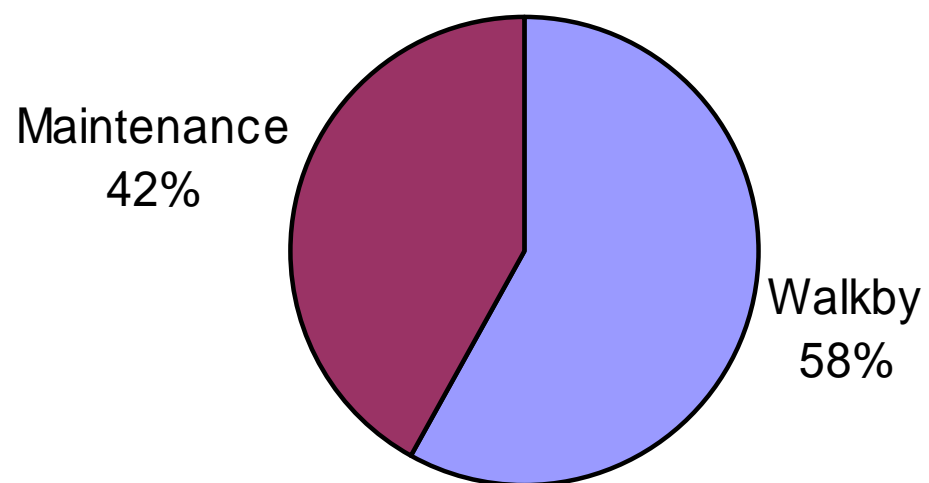
Hydraulics

- Escape of High Pressure Fluid into the workplace
- Notifiable – Cl 56(1)(o) Escape of fluid under pressure.
- Guidance documents – MDG 41, AS 2671
- Use of staples
- Hoses as an asset – hose management plan
- Isolation

255 Longwall Hydraulic Incidents over 8 years from C.M.S. Insurance



255 Incidents





Mechanical Engineering - Issues

Cranes / Lifting

- Does equipment comply with the standards
- Is equipment **used** in compliance with standards
- Is equipment registered
- Competency



Mechanical Engineering - Issues

Human Error

- Studies by Dr Anne Williamson on reportable accident data supplied shows human elements are a dominant causal factor in our injuries and fatalities.
- The department is currently developing workshops to assist in our understanding of human or behavioural elements.
- Unfortunately **“TO ERR IS TO BE HUMAN”**.



Mechanical Engineering - Issues

- Thankyou, as life was meant to be.

