



# Health and Safety Review

2005

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Department of Labour  
TE TARI MAHI

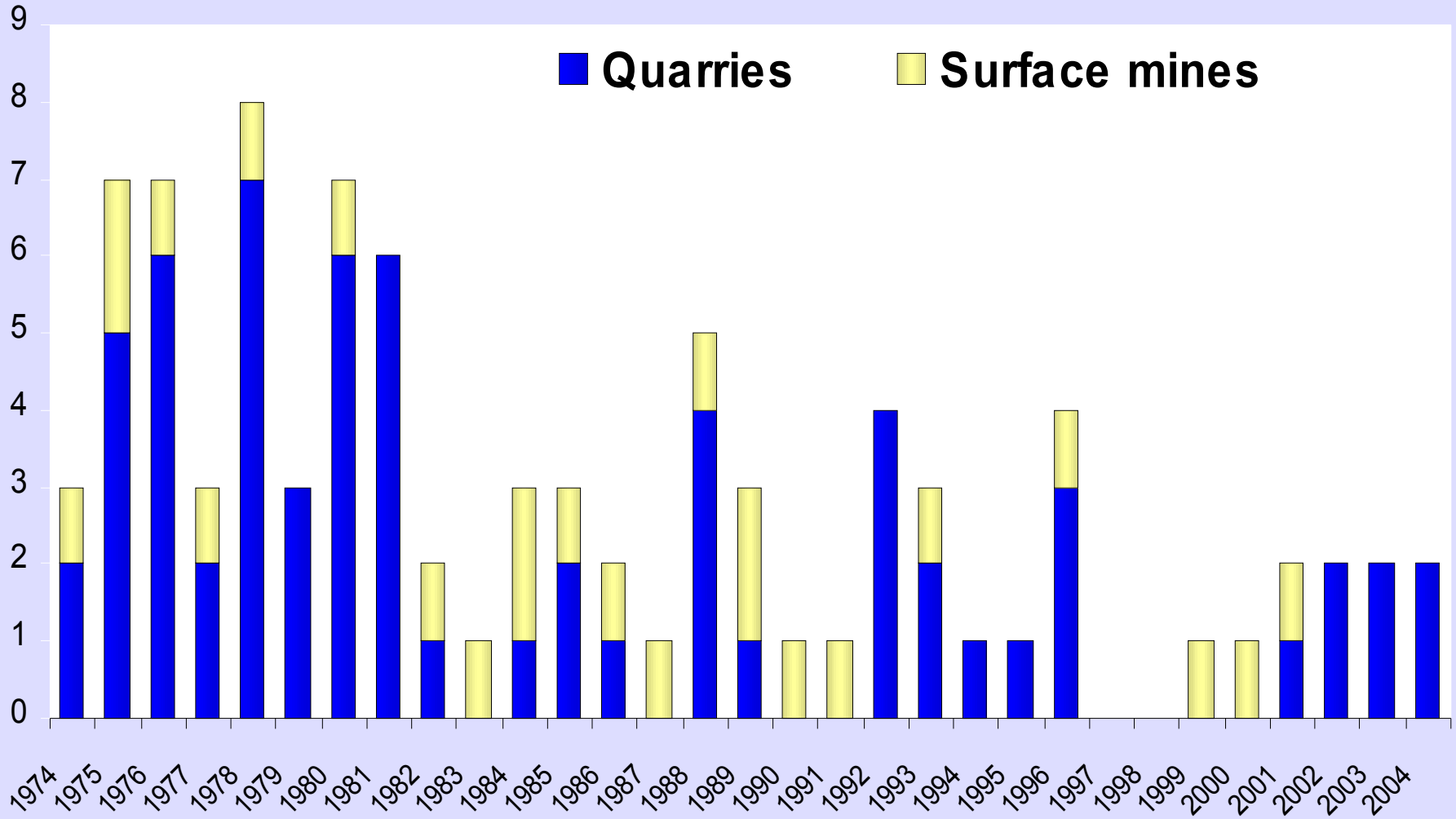


# Use of accident statistics to benchmark safety performance.

- Lost time injury accidents
- Serious harm accidents
- Fatal accidents

# Fatalities in all surface operations

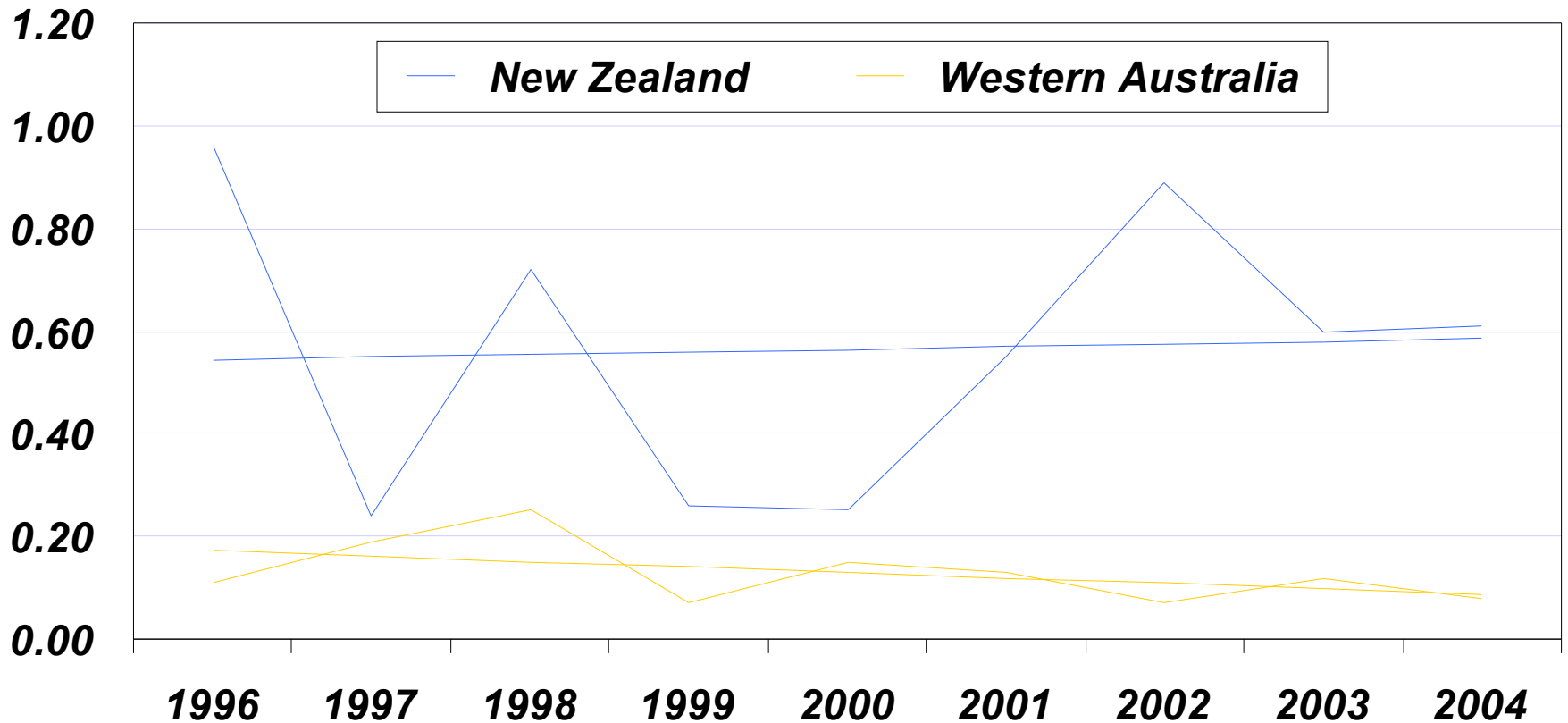
1974 to 2004 - total 89 : average 2.9



**The Western Australian mining industry had 4 fatal accidents last year, with over 43 000 employees.**

**Compare this with our 2 fatalities and around 3000 employees.**

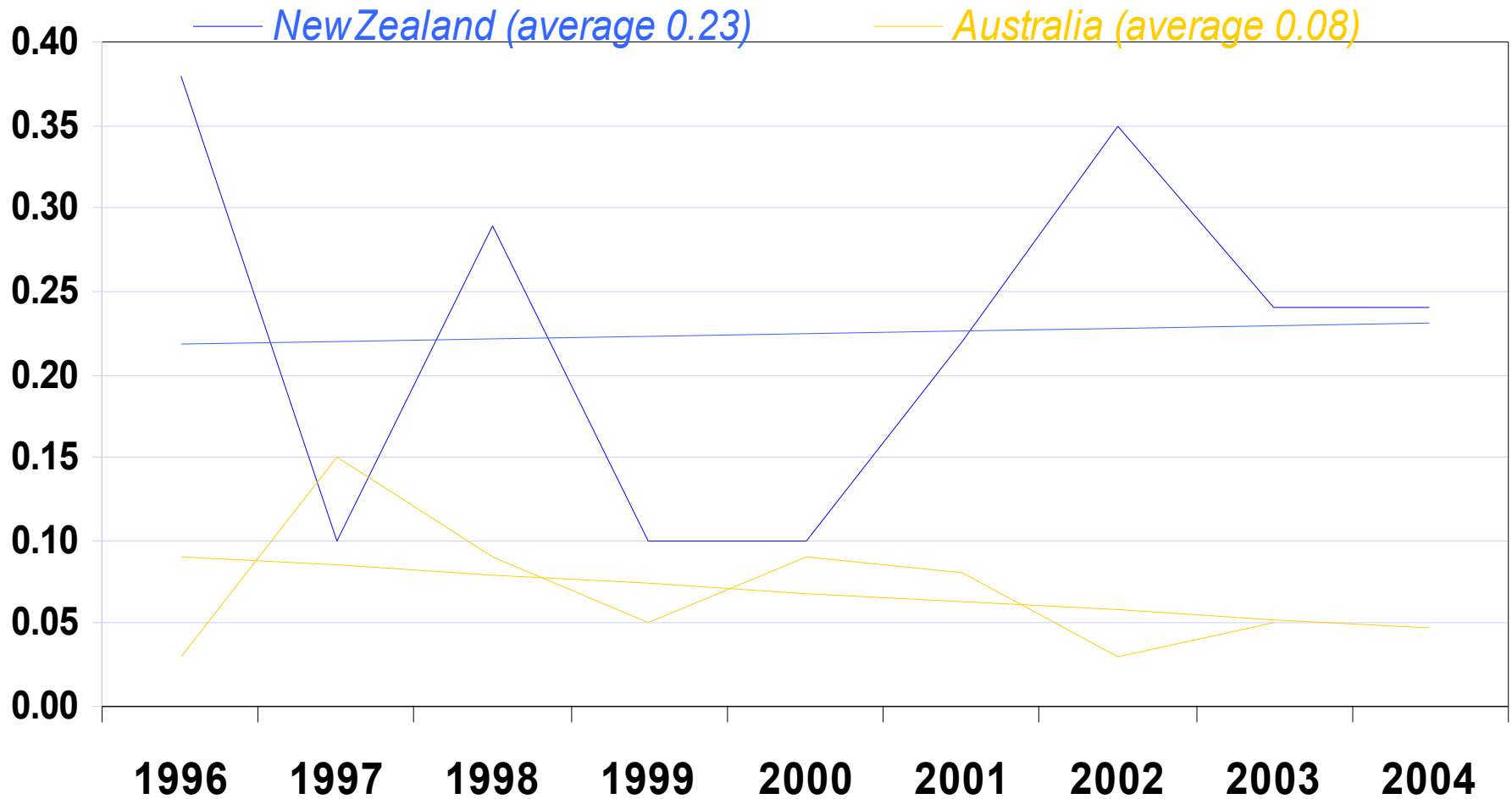
# Fatalities per 1000 employees all mines, quarries and tunnels



The Minerals Council of Australia compiles statistics for the whole Australian mining industry.

The next chart shows the number of fatal accidents per million hours worked.

# Fatal accidents per million hours worked mines, quarries and tunnels



Some of the Serious Harm  
Accidents in  
2004

7/1/2004

An articulated dump truck driver was fatally injured when his loaded truck overturned on a haul road.

27/05/2004

Prolonged contact with wet concrete resulted in two men being hospitalised for 8 days with third degree burns.

13/08/2004

A front end loader struck a light vehicle in a stockpile area and resulted in foot bone fractures.

11/09/2004

Serious head injury when struck by a rock during load out operations at the quarry face.

24/09/2004

Operator caught his right hand in the nip point of a conveyor head drum. The hand and arm were de-gloved up to the elbow.

All his fingers were amputated at the second joint and thumb was amputated at the first joint.

14/09/2004

A welder sustained fatal internal injuries when struck by fragments from a cut-off wheel on the hand held disk grinder he was using.

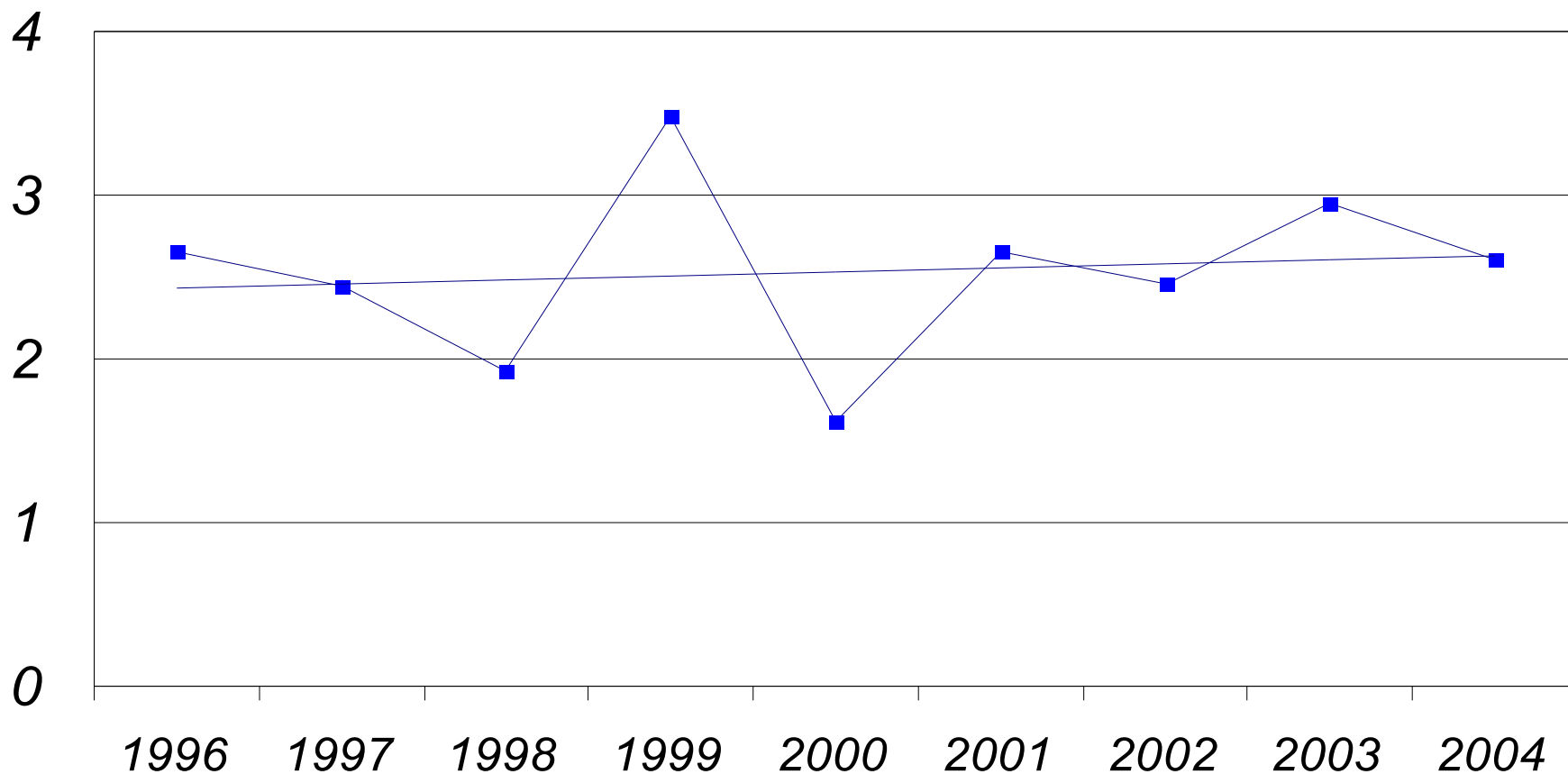
3/10/2004

A light vehicle driver broke his leg when the vehicle rolled after driving over spillage on a haul road.

26/10/2004

Driver broke a leg when he jumped from his truck as it started to go over the tip head.

# Serious Harm Frequency Rate per 1 000 000 hours worked all surface operations



Our accident rate is too high.

How can we improve  
performance?

"Rather than look at figures as a yardstick, I believe it is better to see safety within our industry as a reminder about the social value people place on working safely"

Bruce Taylor. President, AQA

The value society places on working safely is a key to improving safety performance.

This social value is guiding us towards a culture in which accidents are seen, not only as avoidable - but also as totally unacceptable.

Most Quarry Operators have spent considerable resources on H&S management in recent years and many good safety systems have been developed.

Quarry plant needs regular maintenance to keep operating properly.

So do safety systems.

Regular and full investigation of incidents is an excellent way of maintaining your safety system.

Near hits are "free lessons"

Respond to them.

# Incident Investigation

- Investigate all incidents with the potential to cause serious harm.
- The goal is fact finding – not fault finding. Blaming people inevitably results in obscuring the facts.

The investigation process  
is very straightforward.

What significant hazard was involved?

Is it listed in the Hazard Register?

## If it's not there

- Add it to the list of hazards.
- Develop your controls – remembering the statutory three step process of elimination, isolation and protection.

Yes, the hazard was listed

Look at the control procedures  
and assess whether or not they  
were being followed.

If they were being followed..

they must be inadequate -

and this is your opportunity to  
improve them.

# Controls not being followed

## Why not?

# Reasons could include..

**Not fully  
understood**

**Communication**

**Forgotten about?**

**Reminders**

**Not practical?**

**Review control**

**Short cut?**

**Why (culture)**

Developing a culture in which short cuts are unacceptable requires:

- effective two way communication,
- clear concise workable rules and procedures,
- and an acceptance by everyone that safety is their responsibility.

Thank you