



The New Zealand Workforce Survey

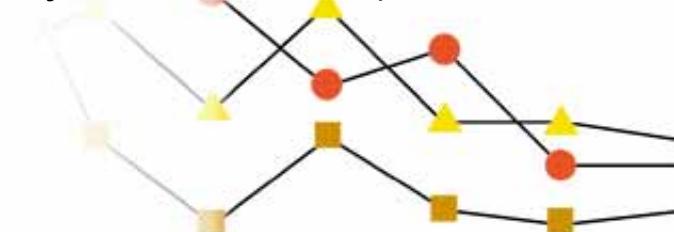
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Background

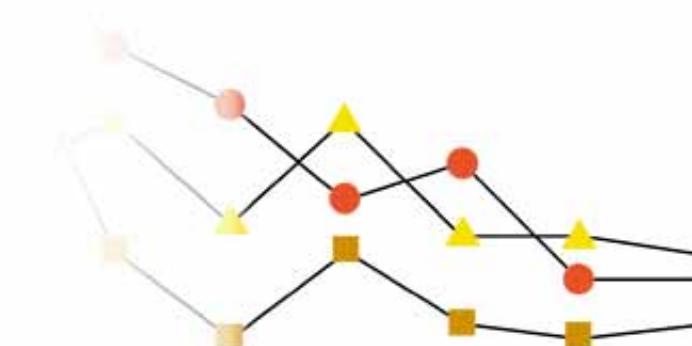
- There is limited information available on the burden of occupational ill-health in New Zealand
 - 700-1,000 deaths from work-related disease
 - 100 deaths from work-related injury
 - 17,000-20,000 new cases of work-related disease
 - 200,000 work-related accidents result in ACC claims

(‘t Mannetje & Pearce 2005)



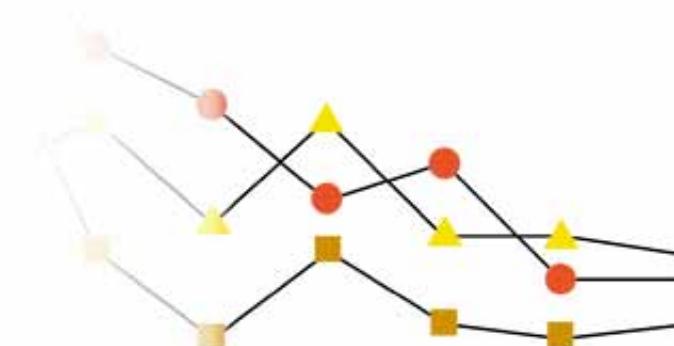
Objectives of Study

- To assess occupational exposures and workplace practices in a random sample of the New Zealand population
- To identify high-risk occupations and exposures so that effective interventions can be targeted to reduce the burden of disease



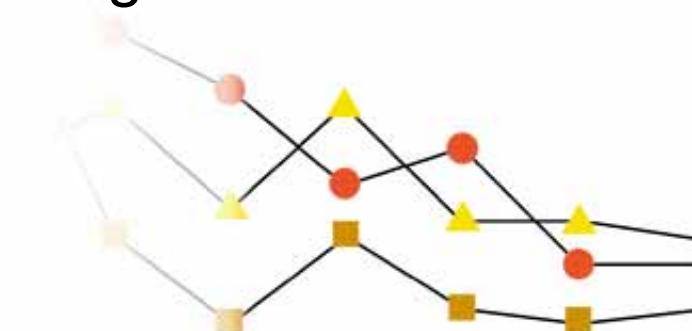
Methods

- 10,000 men and women aged 20-64 were randomly selected from the NZ Electoral Roll
- Telephone interview:
 - Occupational history
 - Current workplace exposures
 - Respiratory symptoms
 - Sleep patterns
 - Musculoskeletal symptoms



Statistical Analyses

- Occupations were coded using the New Zealand Standard Classification of Occupations (NZSCO) 1999
- Industries were coded using the Australian and New Zealand Standard Industrial Classification (ANZSIC) 1996
- Prevalence of exposure: % of individuals reporting exposure as part of their current job



9. In the environment where you work/worked were any of the following present?

** Interviewer: Please list all. If you tick any of these boxes please complete question 10 otherwise go to question 11.*

Dust: e.g. coal, metal, wood, grain, textile fibres, or insulation material

Smoke or fume: e.g. combustion products, engine emission, metal fume

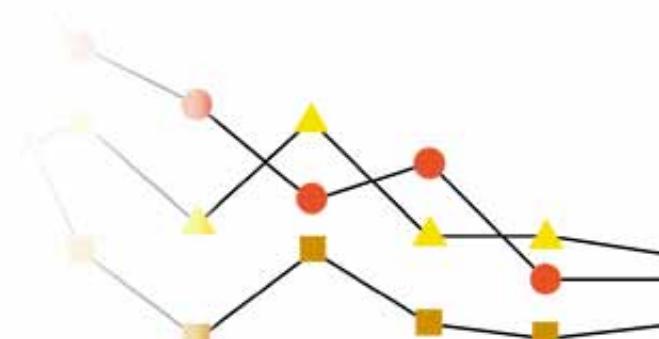
Gas: e.g. combustion gases, refrigerant

Oils and solvents: e.g. lubricants, cutting oils, degreasers, thinners

Acids or alkalis

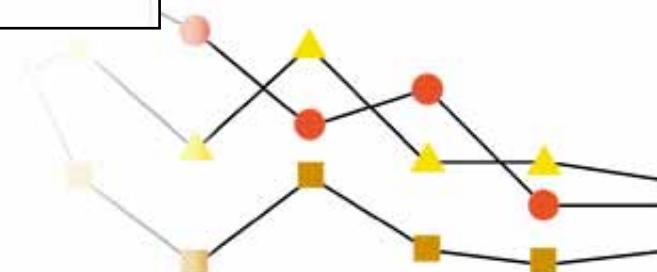
Fungicides, Insecticides, Herbicides or Timber Preservatives

Other chemical products e.g. dyes, inks, adhesives etc.

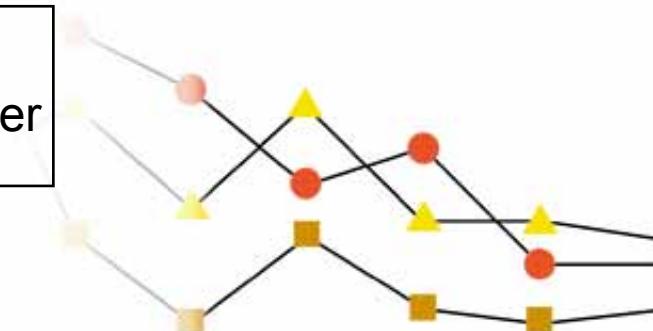
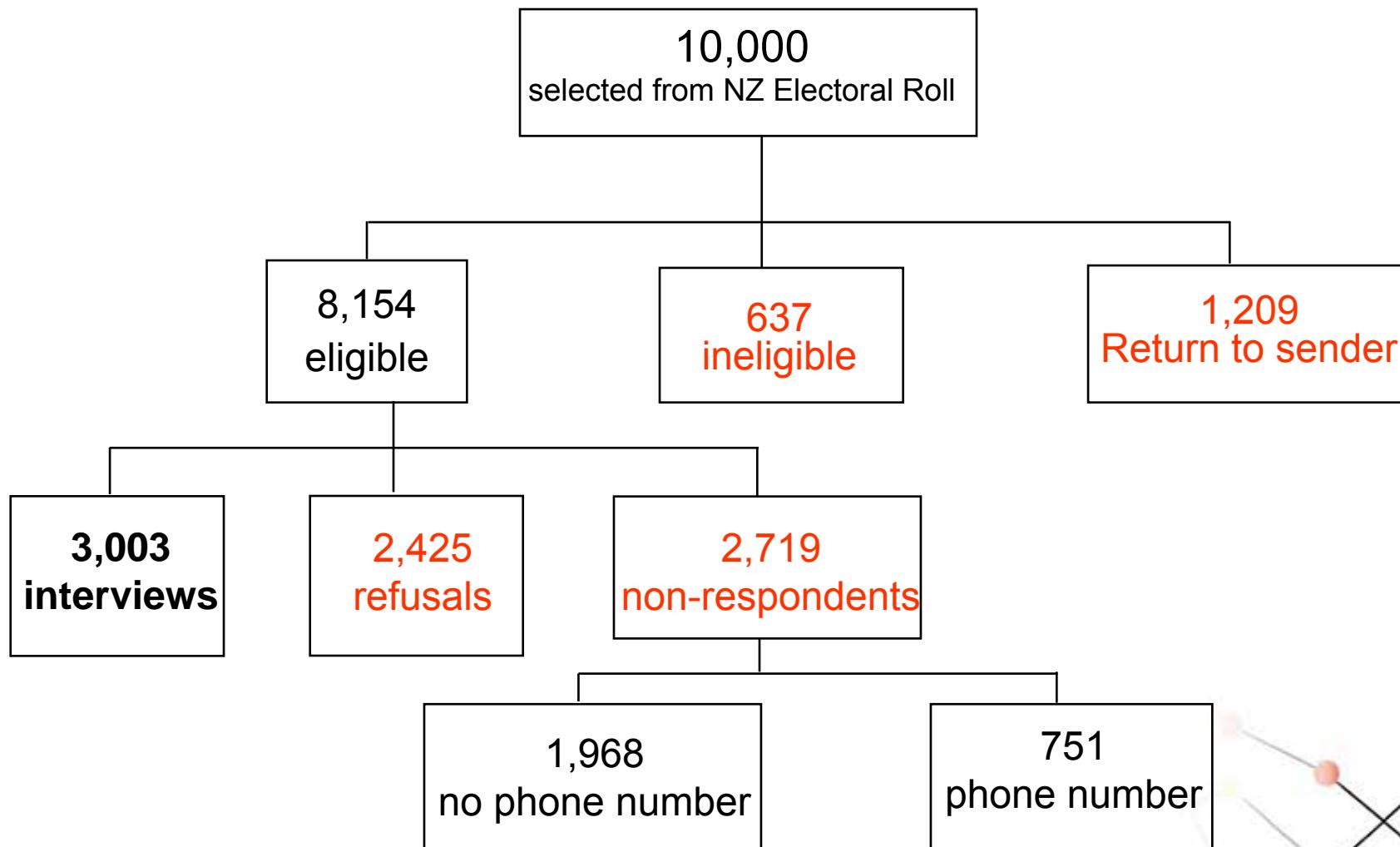


10. Please state the names of the substances you are/were exposed to, how many weeks per year and hours per day you are/were exposed, and the source of the substance.

Name/s of Substance	Weeks per year exposed	Hours per day exposed	Source of Substance

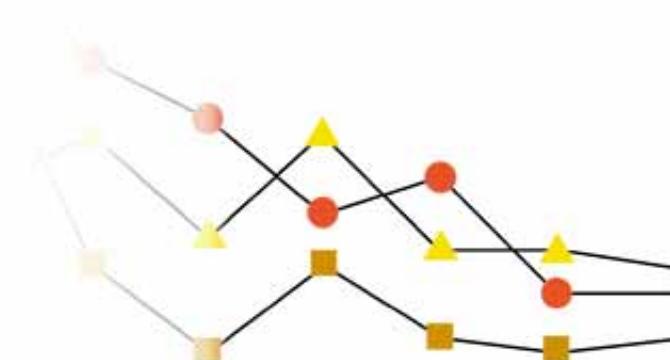


Results

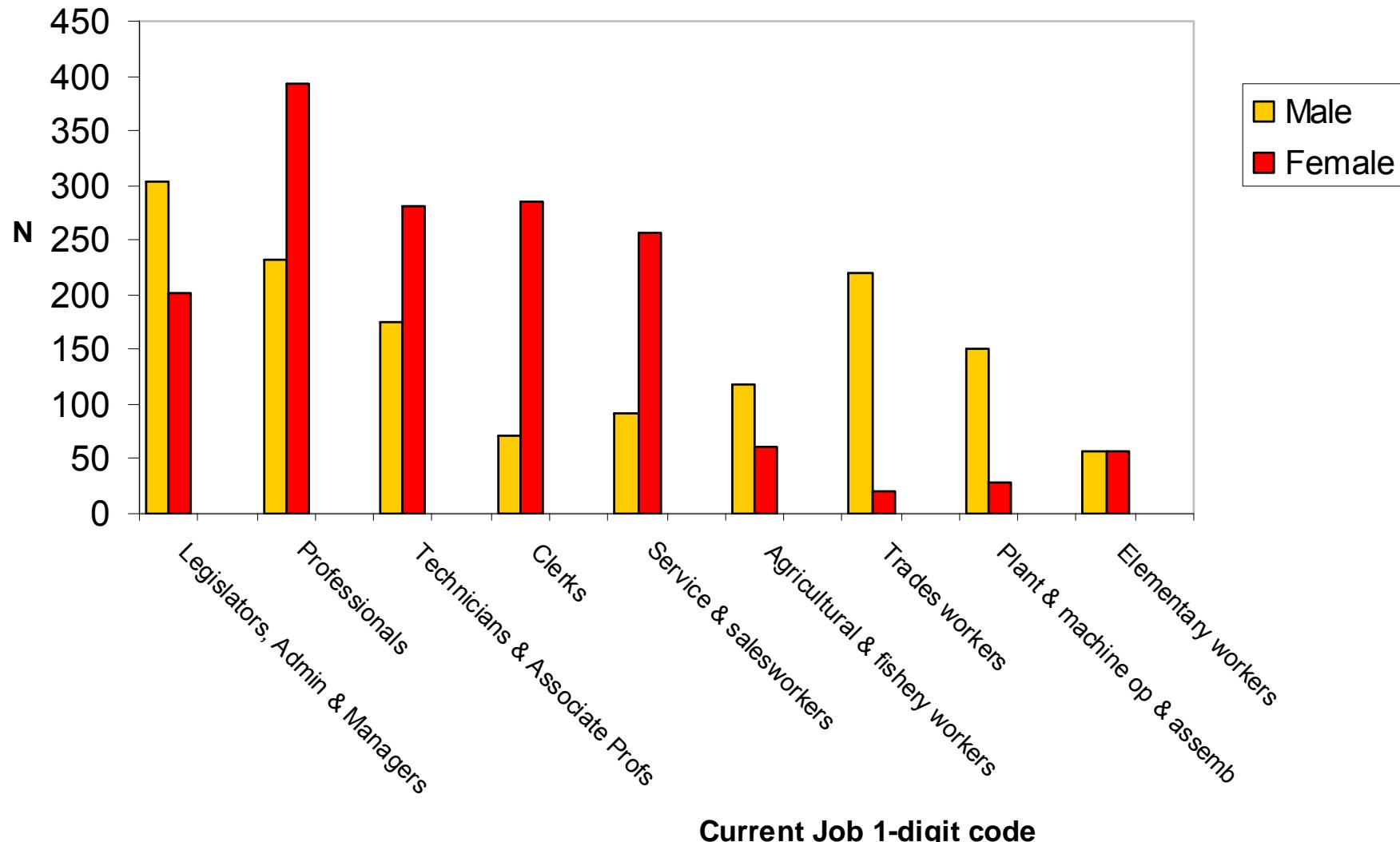


Study Sample

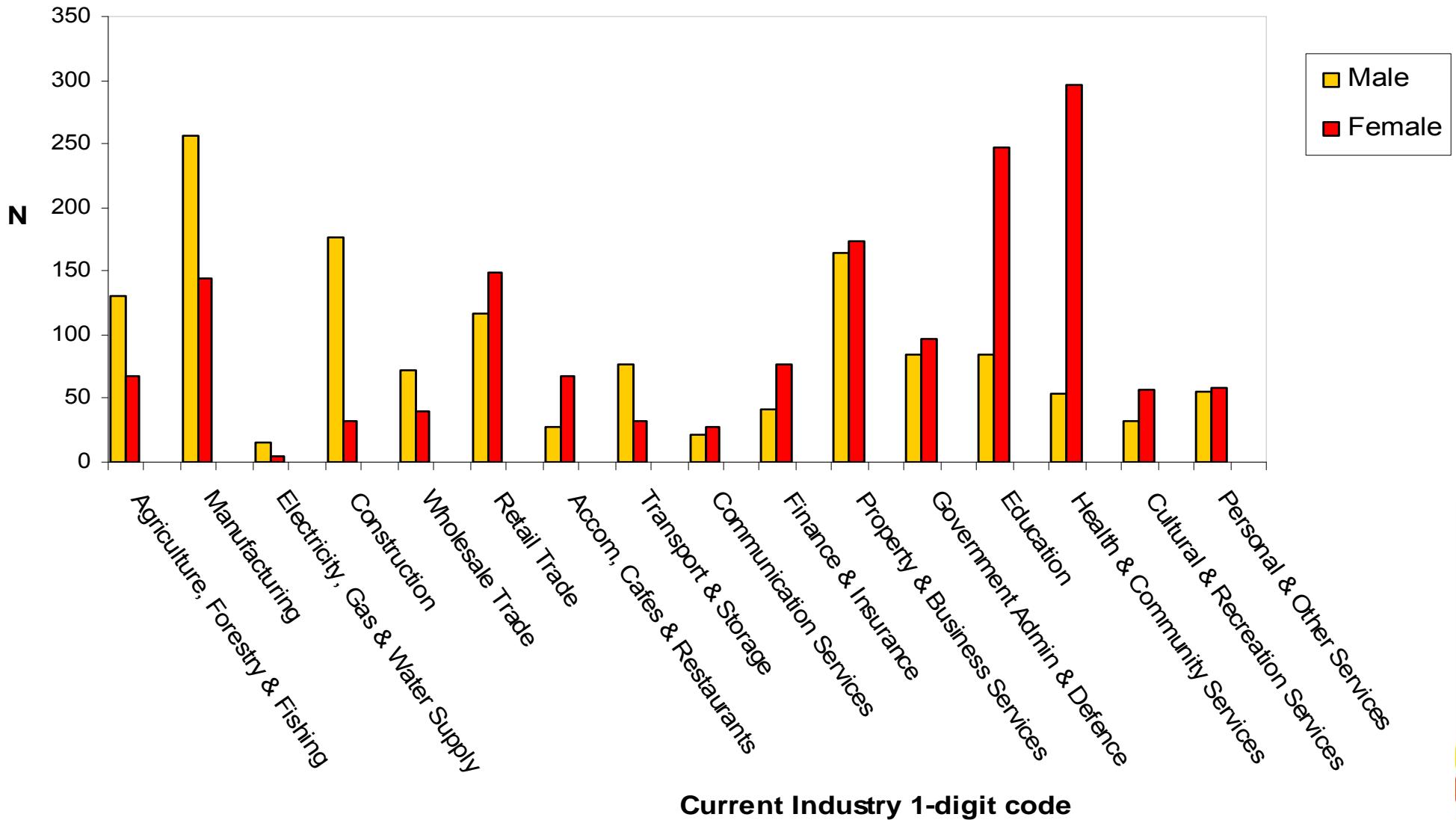
	N	%
Gender		
Male	1,420	47.3
Female	1,583	52.7
Ethnicity		
NZ European	2,454	81.7
Māori	270	9.0
Pacific Island	41	1.4
Other	375	12.5
Age		
20-34	659	21.9
35-44	820	27.3
45-54	868	28.9
55+	656	21.8



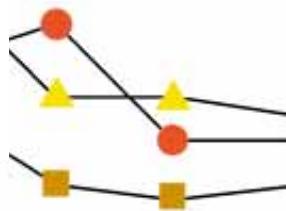
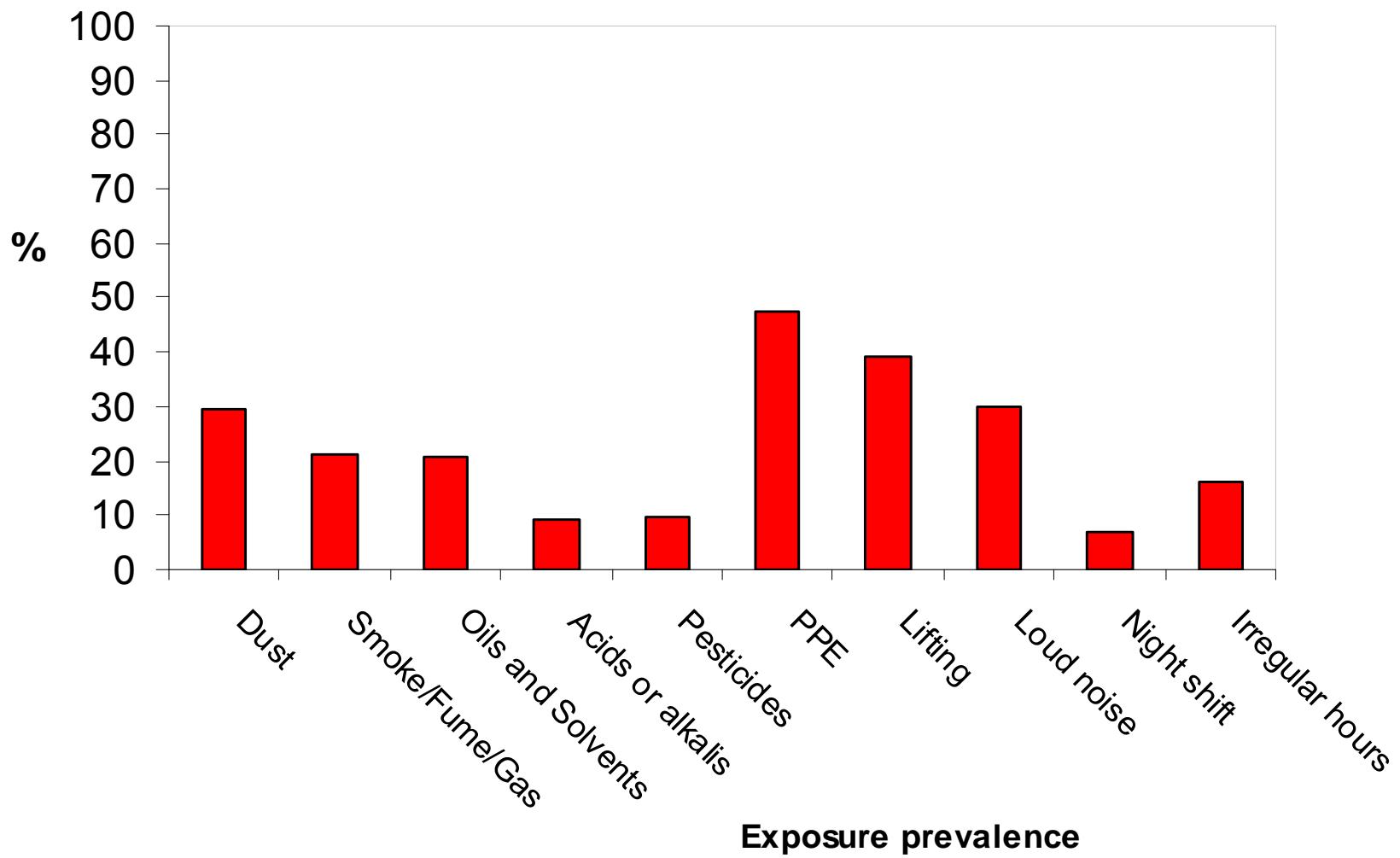
Occupational Group by Gender



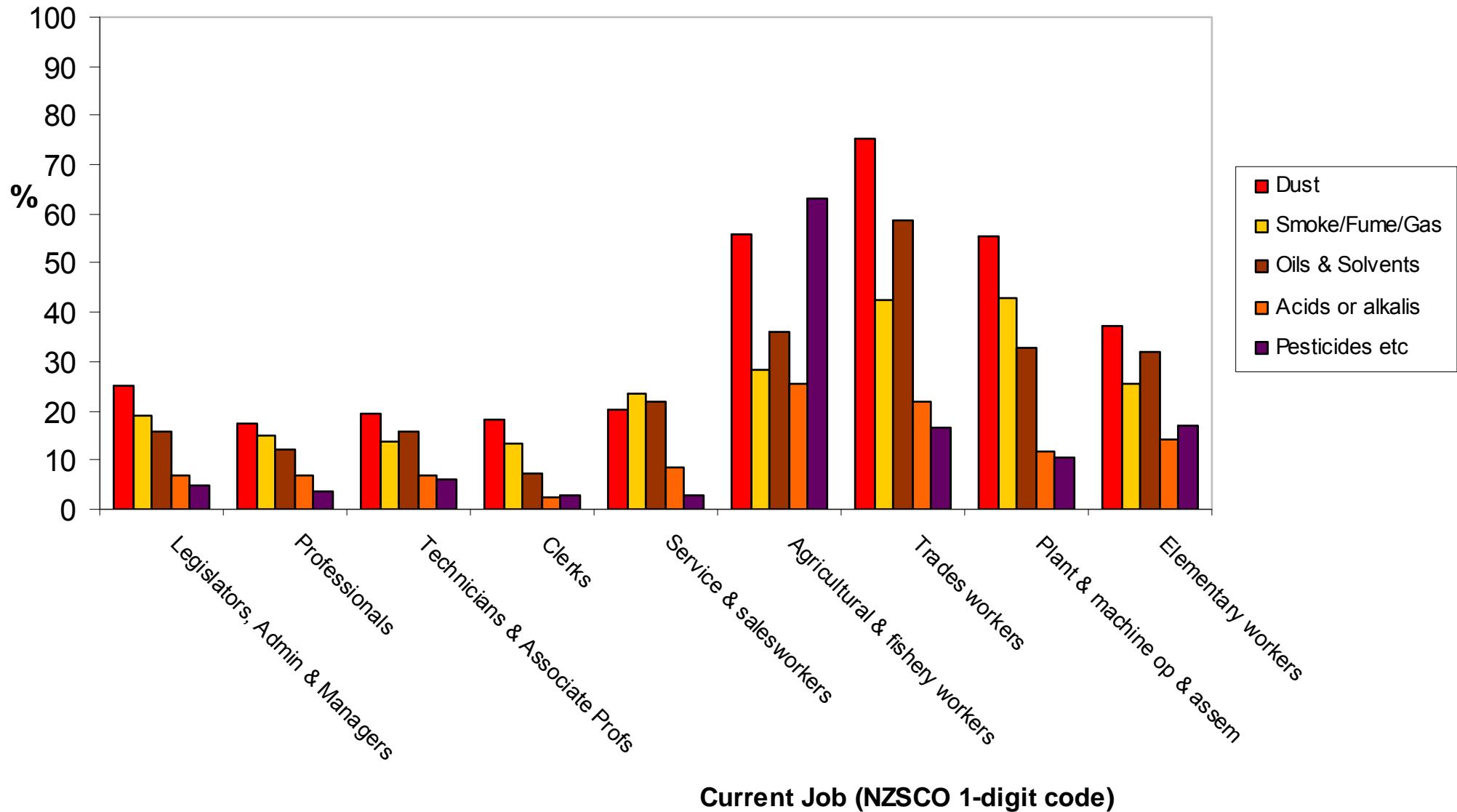
Industry by Gender



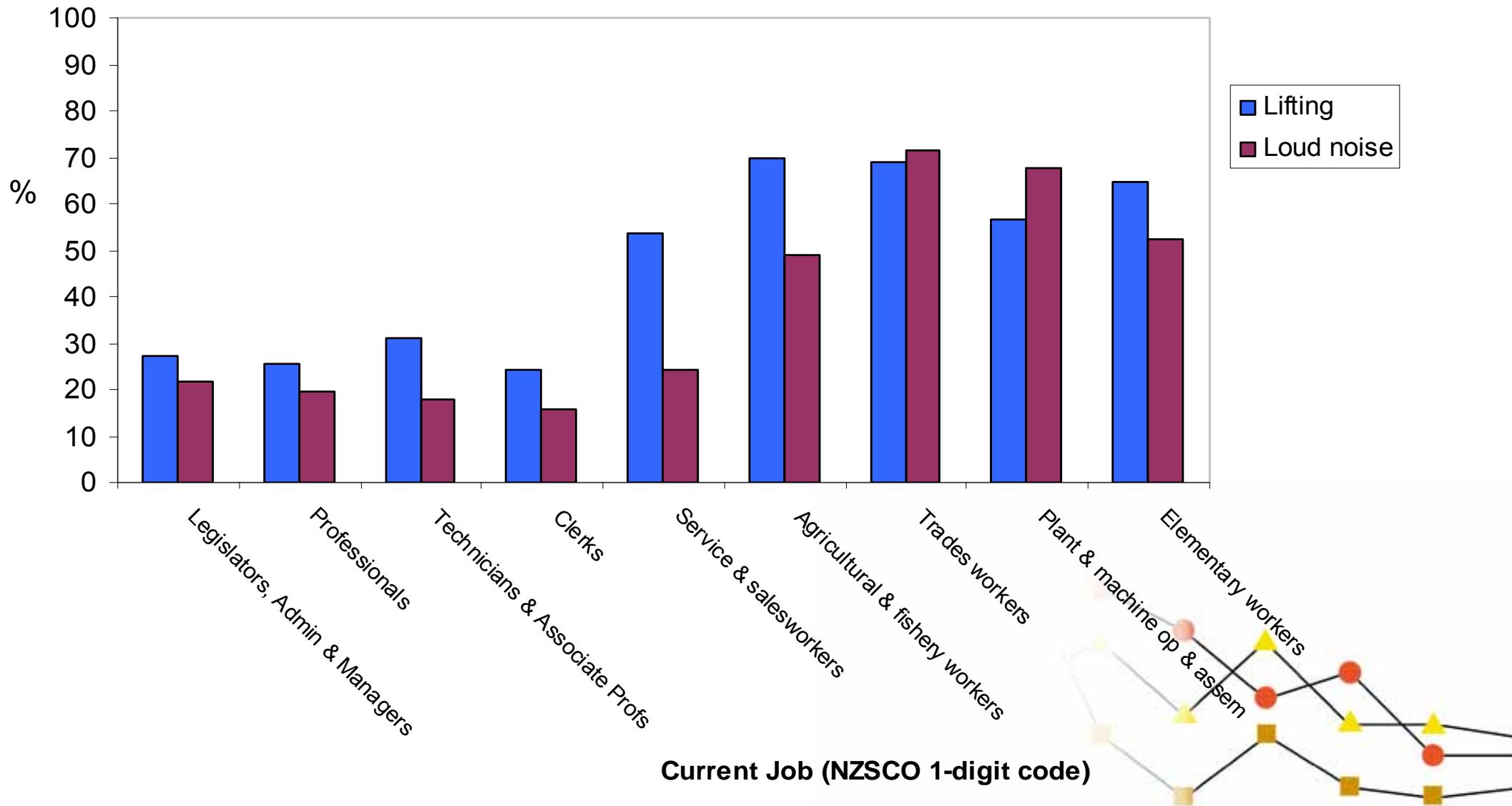
Exposure Prevalence



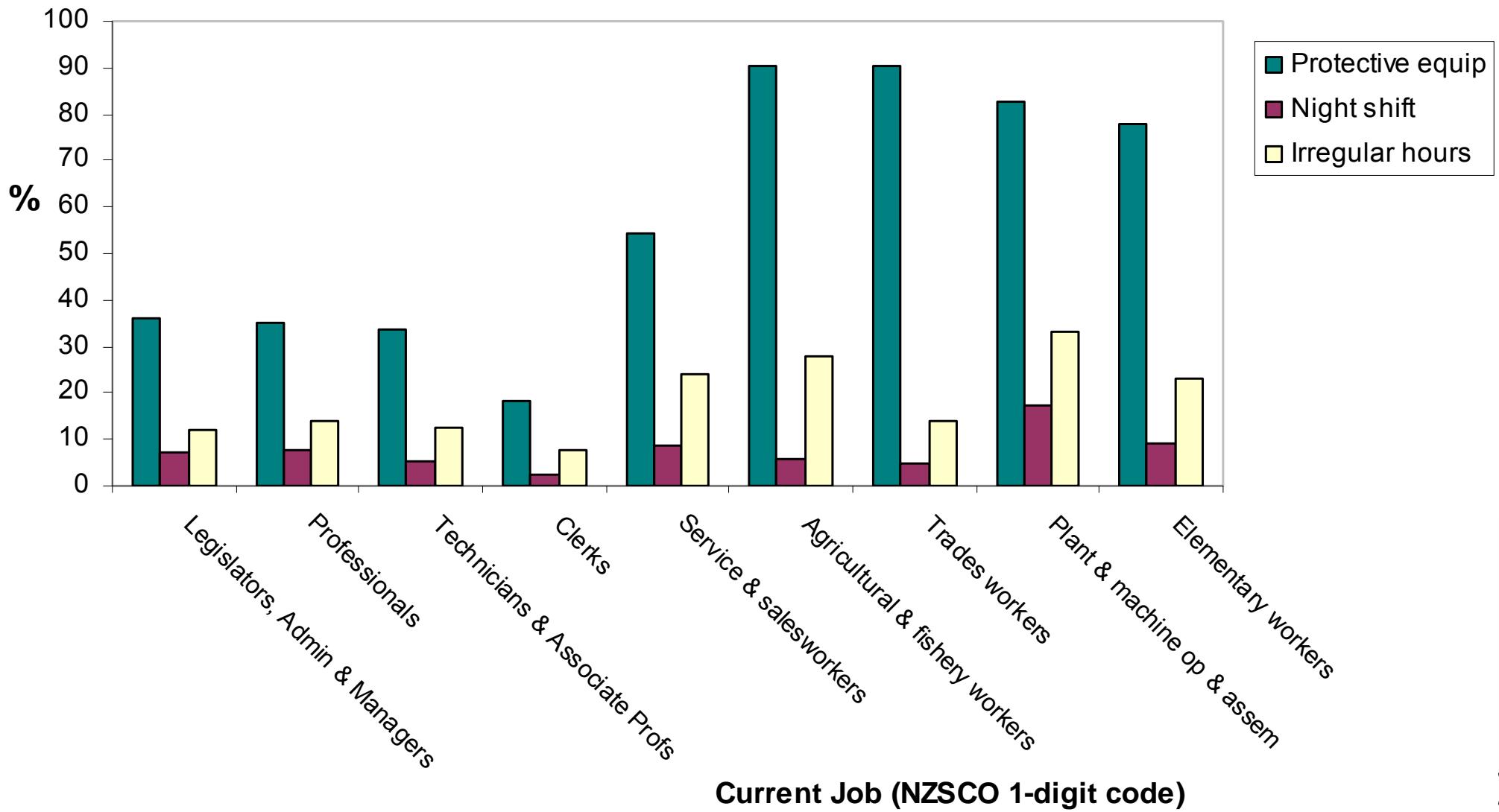
Exposure Prevalence by Occupation



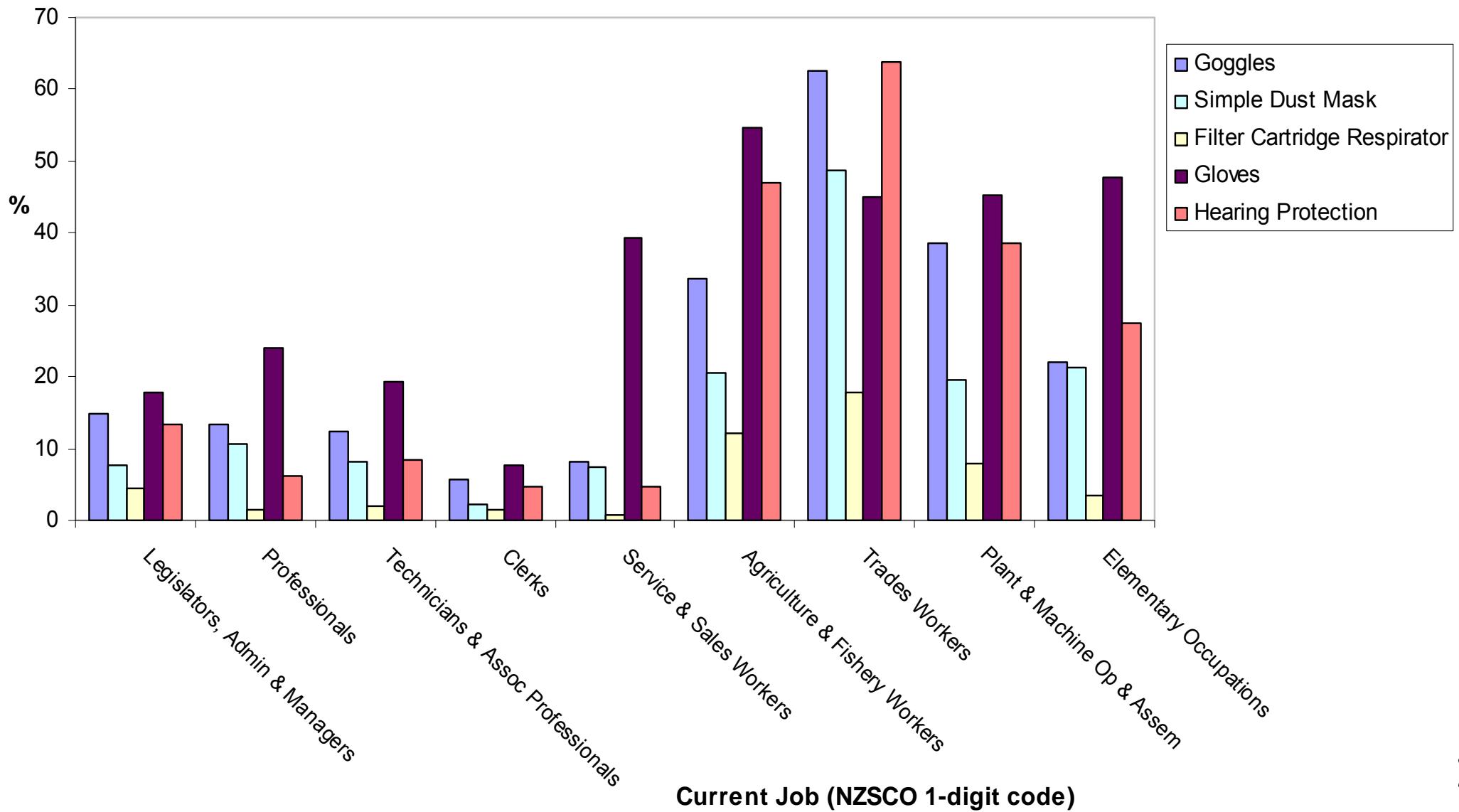
Exposure Prevalence by Occupation



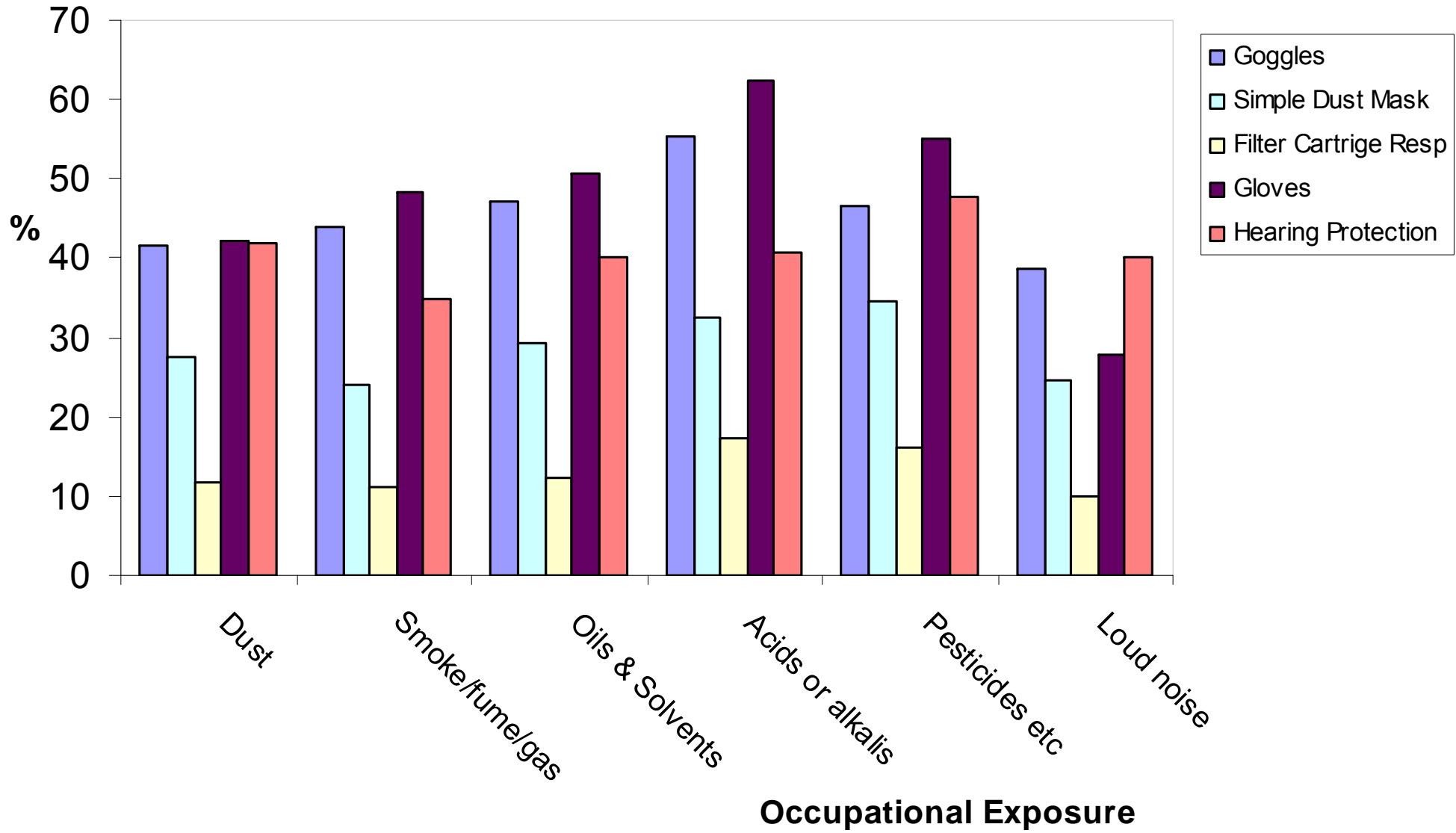
Work Organisation by Occupation



Personal Protective Equipment by Occupation

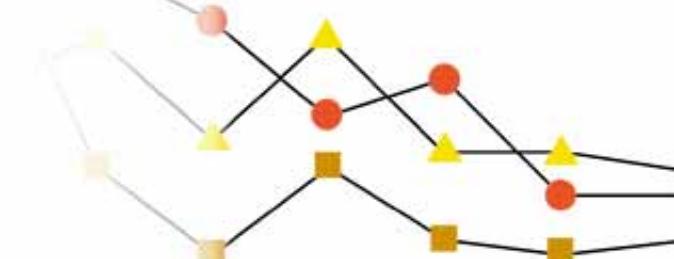


Personal Protective Equipment by Exposure



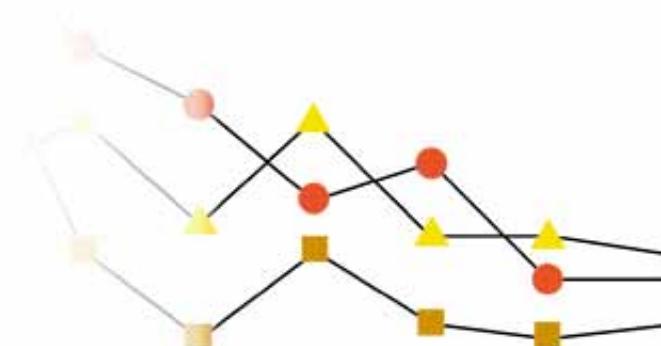
Conclusions

- The New Zealand working population is exposed to a wide range of occupational exposures that are potential risk factors for work-related disease
- Occupational exposures are disproportionately experienced by workers in certain occupations and industries
- Exposures can also occur in sectors not traditionally associated with hazardous occupational exposures or disease



Future Analyses

- Specific occupational exposures
 - Frequency and duration of exposure
 - Use of JEM
- Demographic differences
 - Gender
 - Ethnicity
 - Social class
- Occupational morbidity
 - Musculoskeletal disorders
 - Respiratory symptoms



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