

BCRC Research Project - Fire Impact & Risk Evaluation Decision Support Tool (F.I.R.E. DST)



Research Questions

1. What is the sensitivity of extreme fire behaviour to atmospheric conditions & complex terrain?
2. What definitions of fuels are appropriate?
3. What are the requirements of asset data bases?
4. What models are required to describe potential house loss?
5. What are the risks to population health from extreme smoke?
6. What are the potential impacts to movement of EM services and local residents from reduced visibility?
7. How will the tool improve strategic fire management through 'what if scenarios'?

F.I.R.E - DST

- Complex, multi-faceted approach
- Software platform will ultimately integrate the components
- Researchers are producing papers, for example:
 1. “Modelling the air quality impacts of bushfires for Risk scenarios” – Mick Meyer, M. Cope, S Young
 2. “Vulnerability model parameters: literature review” - R. Bianchi et al
 3. “Bushfire Risk Assessment Framework for severe and extreme fires” – Geoscience Australia & BCRC
 4. “Future development of methods to characterise and map interface fuels using remotely sensed data” – G Newnham et al
 5. DVD – David Youseff & Bob Cechet