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Results: Fire Behaviour

Fire behaviour model for dry eucalypt forest:

- 3. Predicts forward rate of spread as a function of:
 - fine fuel moisture,
 - wind speed,
 - surface fuel hazard score, and
 - combined variable of near-surface fuel hazard and height
- Represents potential rate of spread of an established line of fire.
- Fires will burn below their potential rate of spread during initial stages of development:
 - until the headfire is at least 100 m wide (typically 1-2 hours), and
 - if the width of the headfire is constrained.



PROGRAM A : Fire in Dry Eucalypt Fores



Results: Fire Behaviour

- 6. A model to predict flame height from rate of spread and elevated fuel height has been developed to better describe suppression difficulty and to facilitate the prediction of maximum spotting distance.
- 7. Firebrand generation and spotting behaviour are intimately linked to the behaviour of the convection column, and hence fire behaviour.







PROGRAM A: Fire in Dry Eucalypt Fore:

→ Implications for hazard reduction burning





 Hazard reduction by prescribed burning will reduce the rate of spread, flame height and intensity of a fire, as well as the number and distance of spotfires by changing the structure of the fuel bed and reducing the total fuel load.













