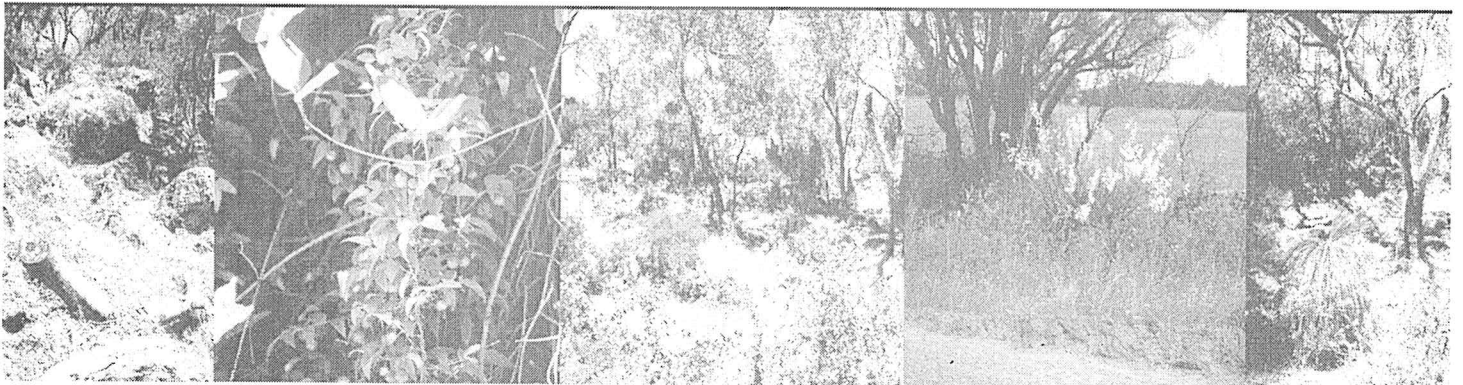


# WEED MANAGEMENT OPTIONS FOR GRANITE OUTCROPS

Patrick Pigott

*WA Herbarium* CALM**Science**



# ARE WEEDS A PROBLEM?

## \* Competition

→reduced biodiversity

→alter habitat quality

→threat to species

## \* Altered fire regimes

→intensity, spread

→vegetation structure

## \* Affected landscape values

→scenic

→recreation

# WHY GRANITE OUTCROPS?

- \* Fragmented remnants
- \* Special habitats
- \* High moisture availability
- \* High biodiversity
- \* Threatened Flora
  - *Caladenia caesarea* subsp. *maritima* ms **R**
  - *Darwinea acerosa* **R**
  - *Villarsia calthifolia* **R**
  - *Pimelea graniticola* **P4**

# Case studies

- \* Yilliminning Rock
  - Narrogin Shire
- \* Boulder Rock
  - Karragullen
- \* Private remnants
  - Gidgegannup
- \* Castle Rock Bay
  - Dunsborough

## *Yilliminning Rock weeds*

- \* *Briza maxima*
- \* *Ehrharta longiflora*
- \* *Freesia alba* x *leichtlinii*
- \* *Romulea rosea* var  
*australis*
- \* *Hypochoeris glabra*
- \* *Ursinea anthemoides*

# WEED CONTROL METHODS

- \* Broad spectrum herbicides
  - glyphosate for degraded areas
  - Brushoff, Ally, Glean
- \* Grass selective herbicides
  - Fusilade in bushland
  - Verdict, Lontrel, Targa
- \* Manual techniques
  - pulling /cutting selected species

# MANAGEMENT STRATEGIES

- \* Early intervention
  - detection of fast invading weeds
- \* Control of people
  - limits trampling
  - reduces seed introduction
  - risk of fire
- \* Fire protection
  - fire assists invasion
  - starts new cycle

# Weed Management Needs

- \* Planning

- management plan?

- \* Survey & mapping

- know the enemy, voucher & ID

- map important weeds

- \* Resources & labour

- finances and materials available?

- who will do the work?

- \* Timing of control

- time of year can be crucial