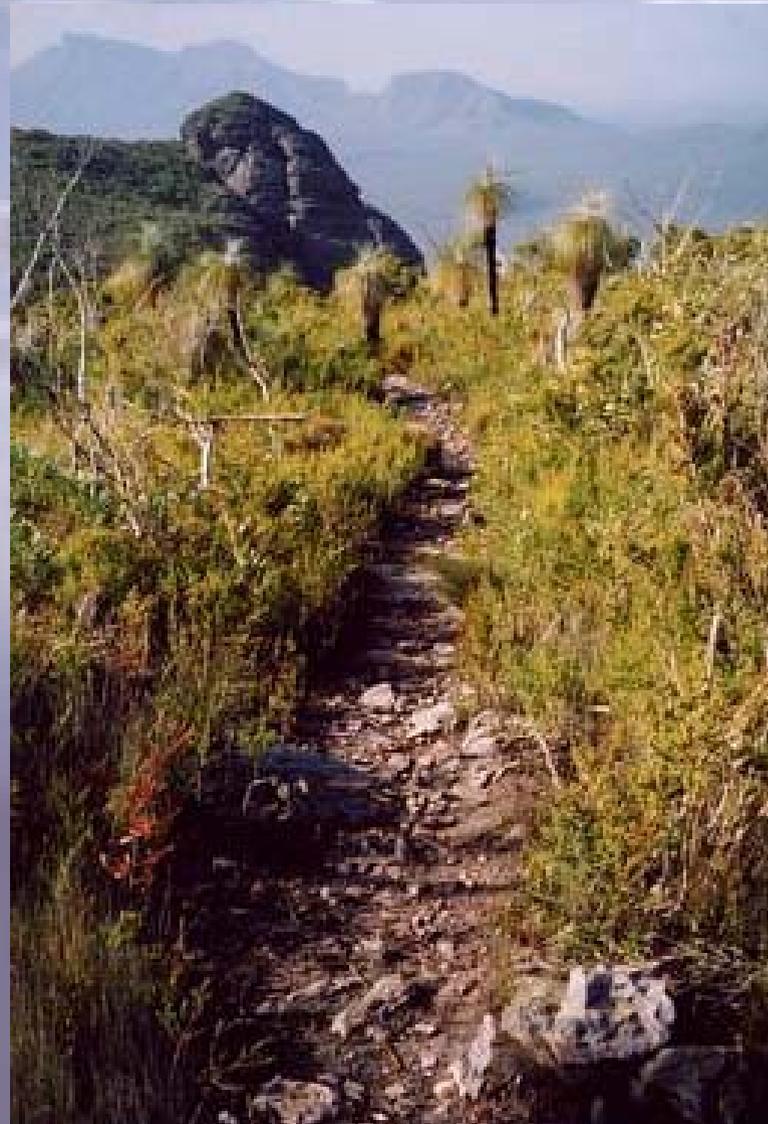


An Evaluation of the Footpaths in the Stirling Range National Park (SRNP)

Pamela Mende



An Evaluation of the Footpaths in SRNP

- Issue
- Research Objectives
- Study Site
- Research Methods
- Results
- Recommendations
- Conclusion

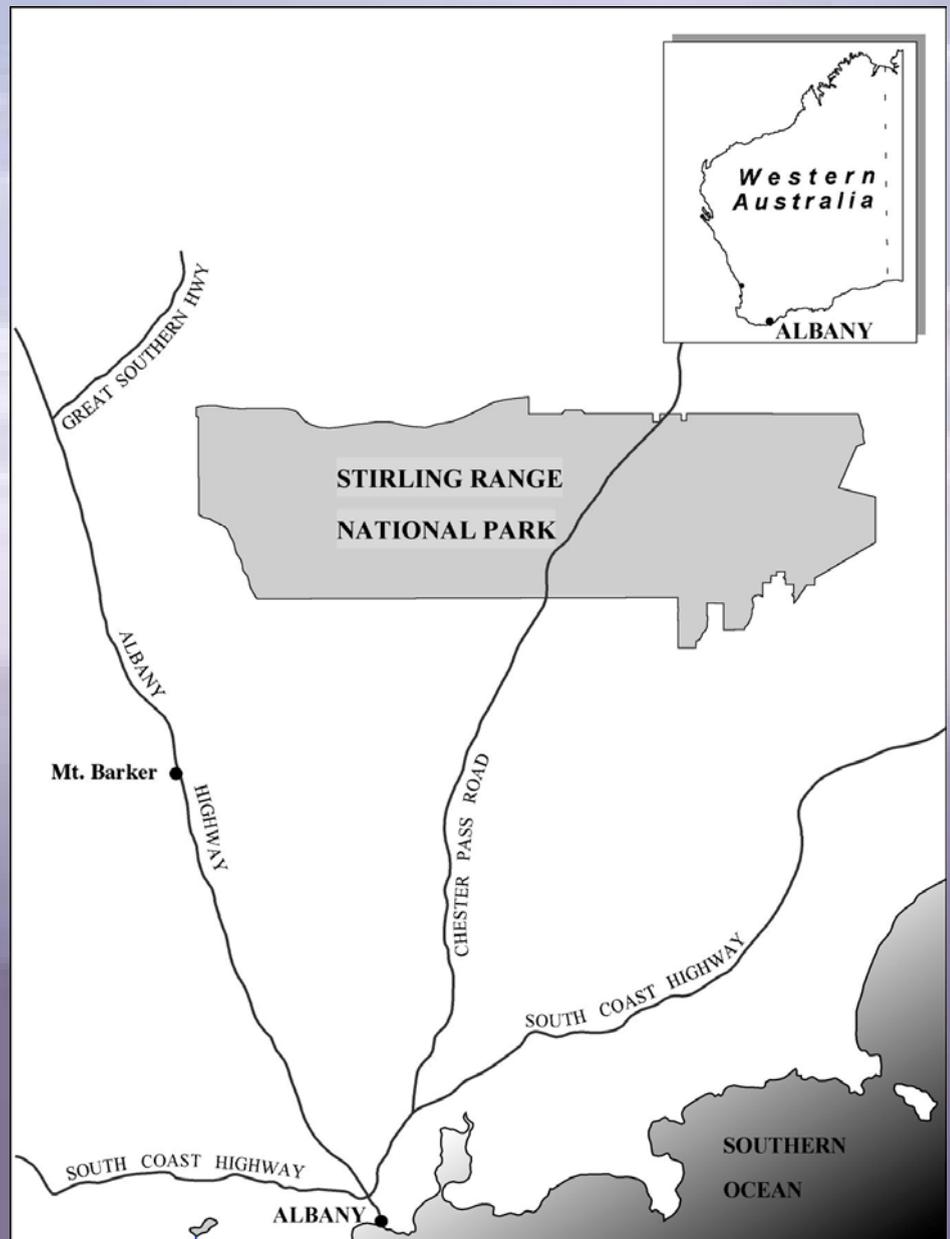
Issue

- Footpaths in the SRNP are the primary recreation resource – hiking, photography, wildflower viewing
- What condition are the footpaths in?
- How effective is footpath management?

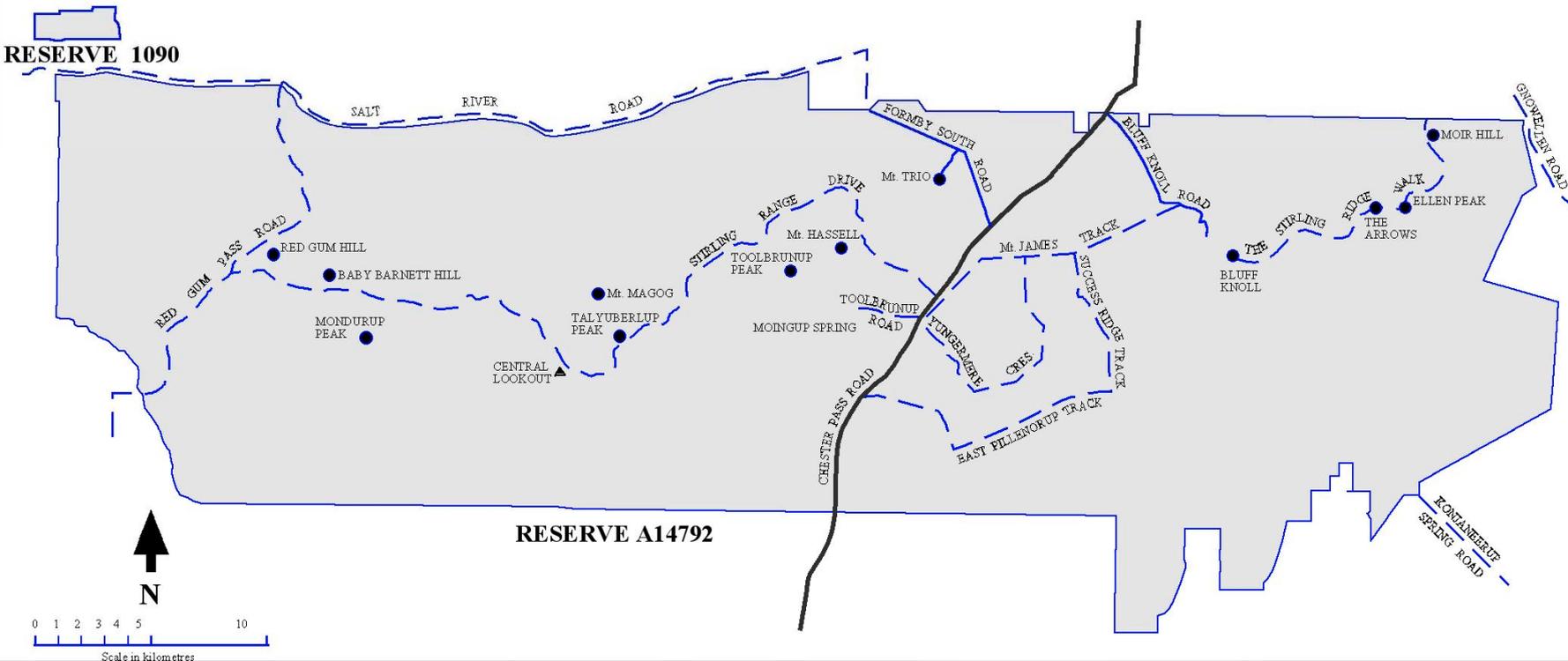
Research Objectives

- Evaluate the footpaths in the SRNP using interval sampling and a modified version of the Trail Problem Assessment Method
- Evaluate the effectiveness of footpath management
- Provide baseline information required for future path management

Study Site



Footpaths in SRNP



Research Methods

- Interval Sampling
- Trail Problem Assessment Method (TPAM)
- Footpaths were evaluated from the summit down to the start of the path
 - Ease of measurement
 - Time

Interval Sampling

- Measurements taken every 100 metres
- Footpath Width
- Footpath Slope
- Footpath Rockiness

Trail Problem Assessment Method

- Soil Texture
- Erosion
- Footpath Proliferation
- Excessive Width
- Exposed Roots
- Maintenance Features
- Start and finish points of soil texture and degradation indicators
- Locations of roots and maintenance features



Trail Problem Assessment Method

■ Erosion

- E1= Erosion Depth 5 to 10cm
- E2= Erosion Depth 11 to 15cm
- E3= Erosion Depth 16 to 20cm
- E4= Erosion Depth over 20cm

■ Footpath Proliferation

- Location, number, length of parallel paths

■ Excessive Width

- Start and finish, maximum width

■ Exposed Roots

- Location, depth

Maintenance Features

■ Condition (1-3)

- **1=Good Condition:** very little or no damage, no repairs needed
- **2=Moderate Condition:** damaged or worn, repairs are required to improve its condition
- **3 = Poor Condition:** extremely damaged or worn, needs urgent replacement

■ Effectiveness (1-3)

- **1=Very Effective:** well designed and placed, very successful at managing the footpath segment.
- **2=Moderately Effective:** fairly well designed/placed, moderately successful at managing the footpath segment.
- **3=Ineffective:** poorly designed/placed, unsuccessful at managing the footpath segment.

Results

- General Characteristics
- Footpath Degradation
- Footpath Maintenance
- Case Study – Mt Trio Vs Talyuberlup

General Characteristics

■ Mt Trio

- Length 1658m
- Slope 27.9°
- Rockiness 76.8%
- Width 80cm

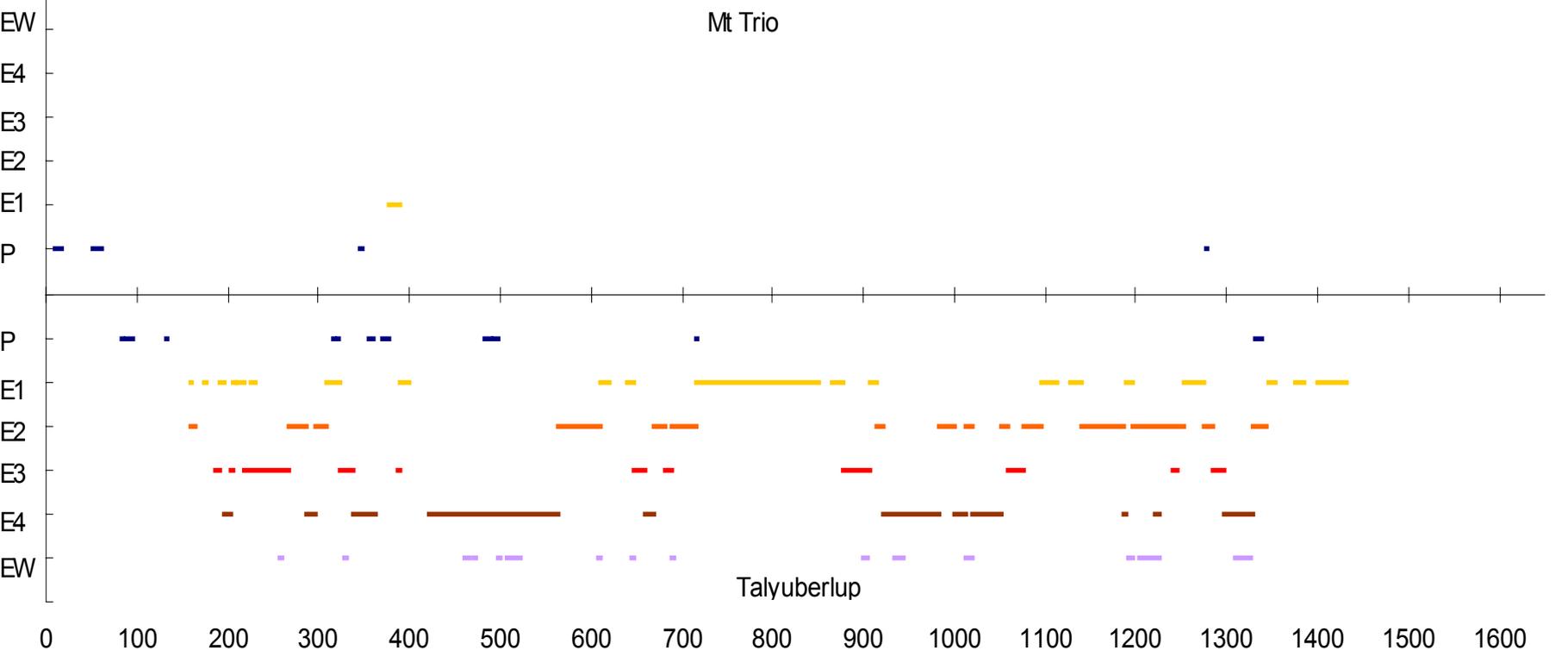
■ Talyuberlup

- Length 1473m
- Slope 38.7°
- Rockiness 59.4%
- Width 120cm



Footpath Degradation

- Footpath Proliferation (P)
- Erosion Depth 5 - 10cm (E1)
- Erosion Depth 11 to 15cm (E2)
- Erosion Depth 16 to 20cm (E3)
- Erosion Depth over 20cm (E4)
- Excessive Width (EW)



Mt Trio and Talyuberlup have similar characteristics and similar visitor numbers, however:

Mt Trio has 0.7% erosion, 4 extra paths

Talyuberlup has 78.1% erosion, 11 extra paths

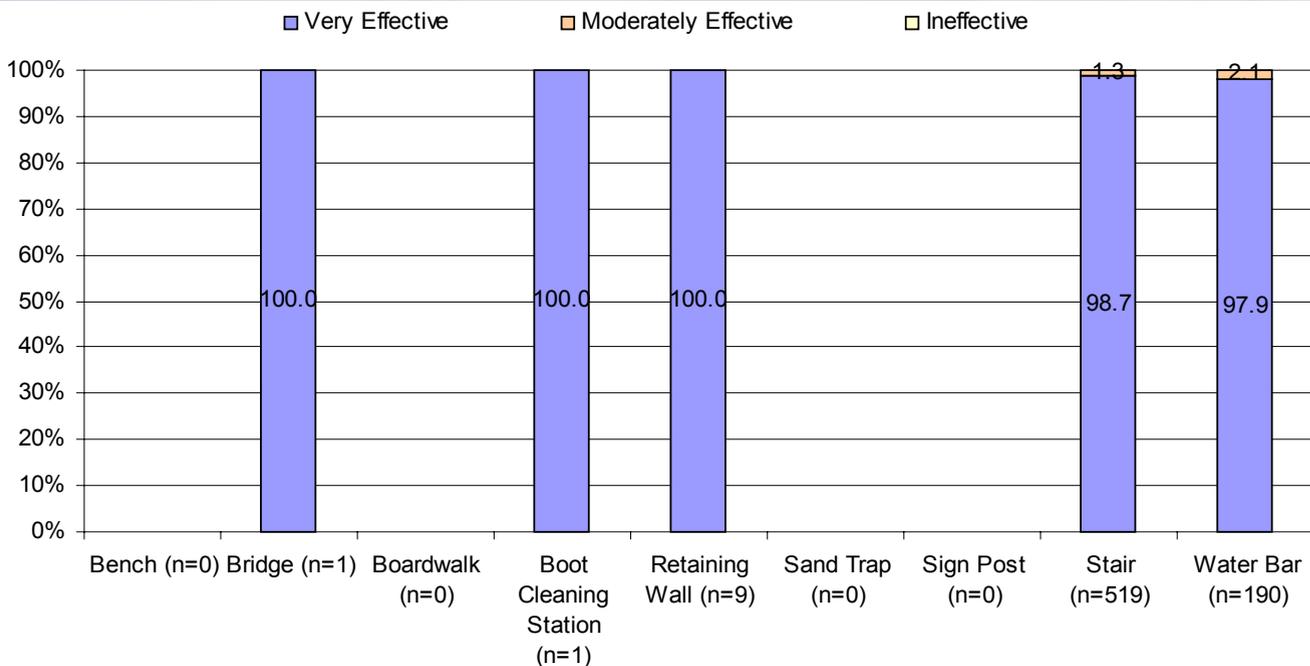
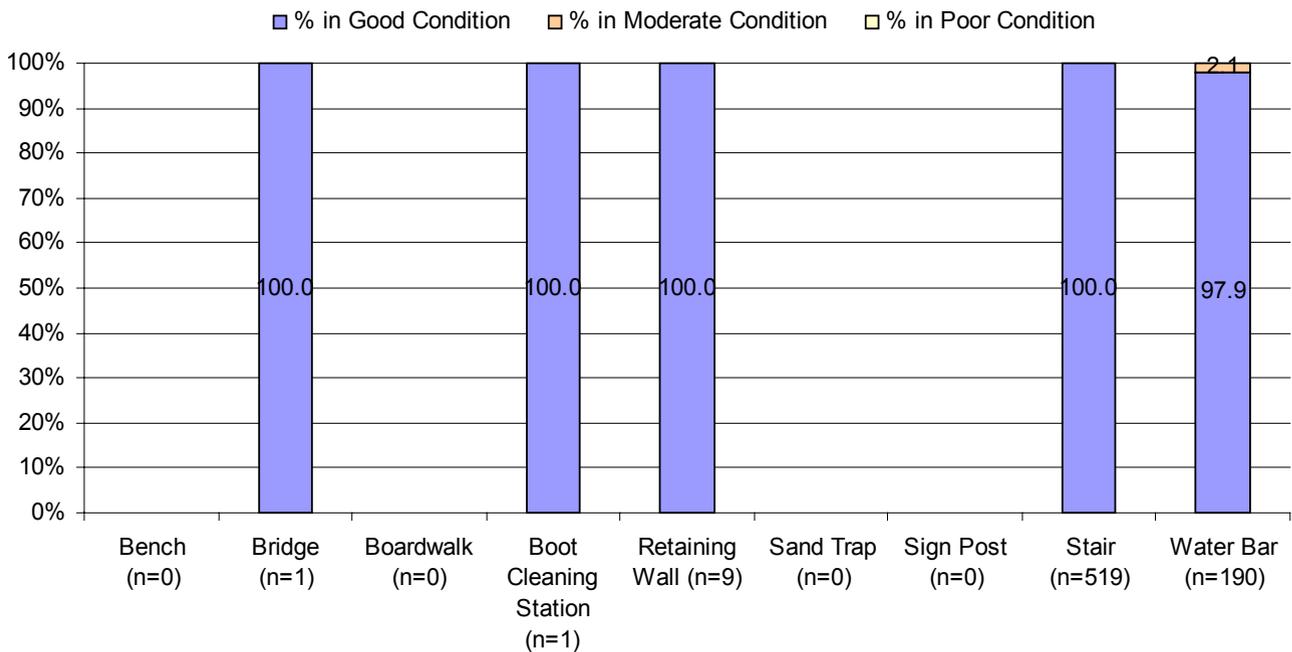
Why??

Footpath Maintenance

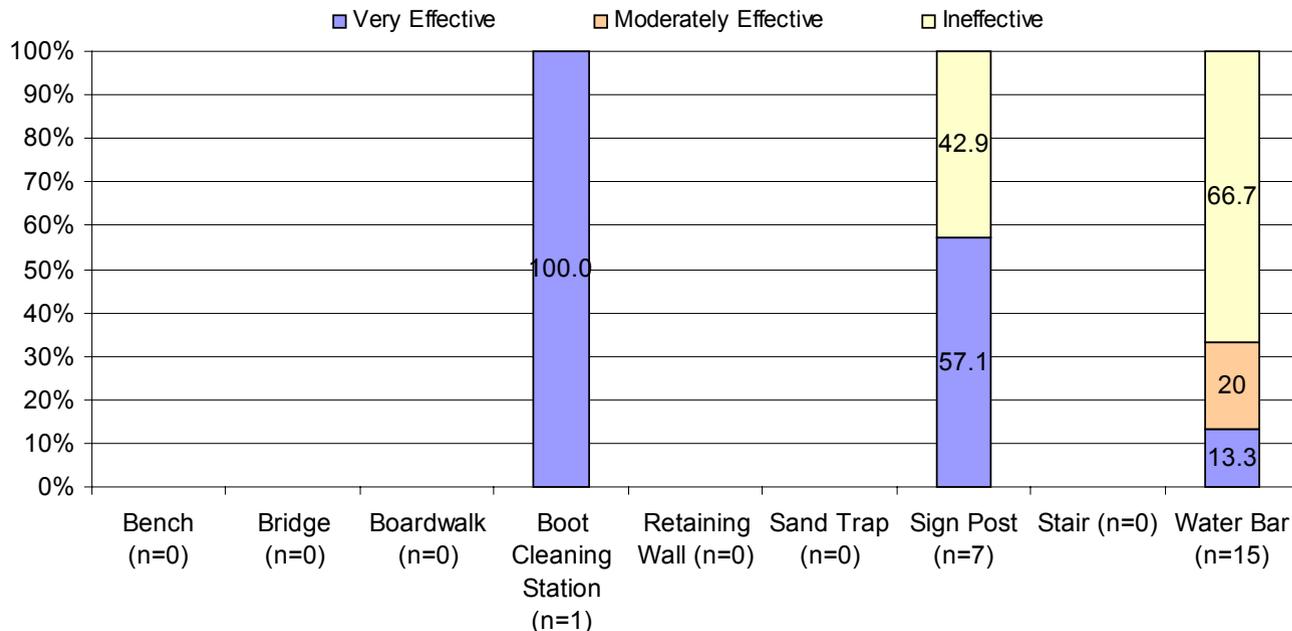
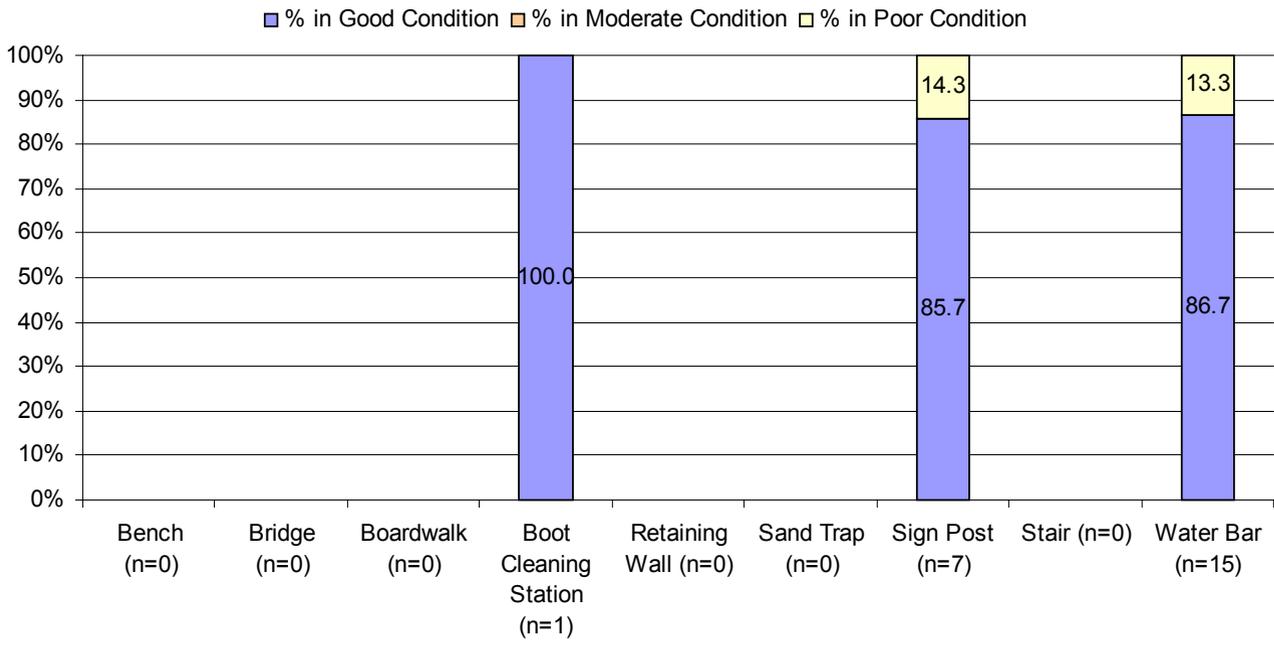
- Total Number
- Regular Upkeep
- Condition
- Effectiveness

Footpath Maintenance

- Mt Trio
 - 725 maintenance features
 - Regular upkeep
- Talyuberlup
 - 23 maintenance features
 - Informal monitoring once a year

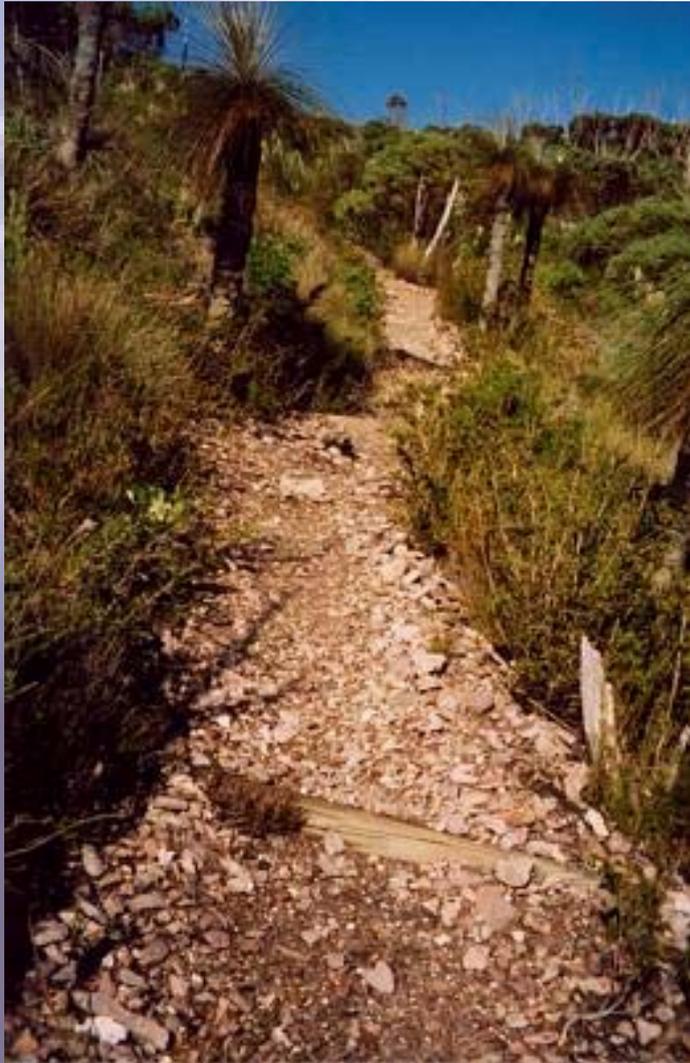


Mt Trio

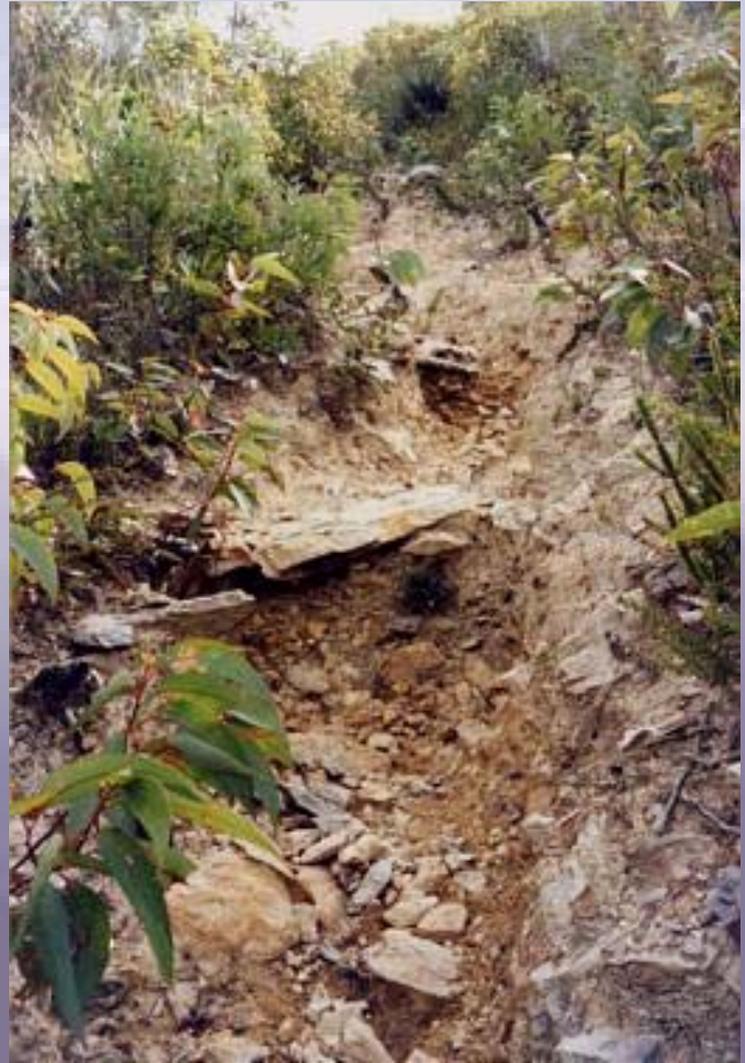


Talyuberlup

Is Current Management Effective?



Mt Trio



Talyuberlup

Short Term Recommendations

- **Visitor Data**
- **Short Term Solutions**

Mt Trio:

- **Continue with regular upkeep of maintenance features**

Talyuberlup:

- **Heavy engineering to stabilize path**
- **Signposting**
- **Regular upkeep of maintenance features**

Long Term Recommendations

- Footpath monitoring system
- Regular maintenance program
- Increase resources for footpath management

Conclusion

- Footpaths are the primary recreation resource in the Stirling Range National Park
- Footpath condition varies greatly
- Sufficient maintenance and regular upkeep can maintain good footpath condition
- Footpaths in good condition provide safe and enjoyable experiences for visitors