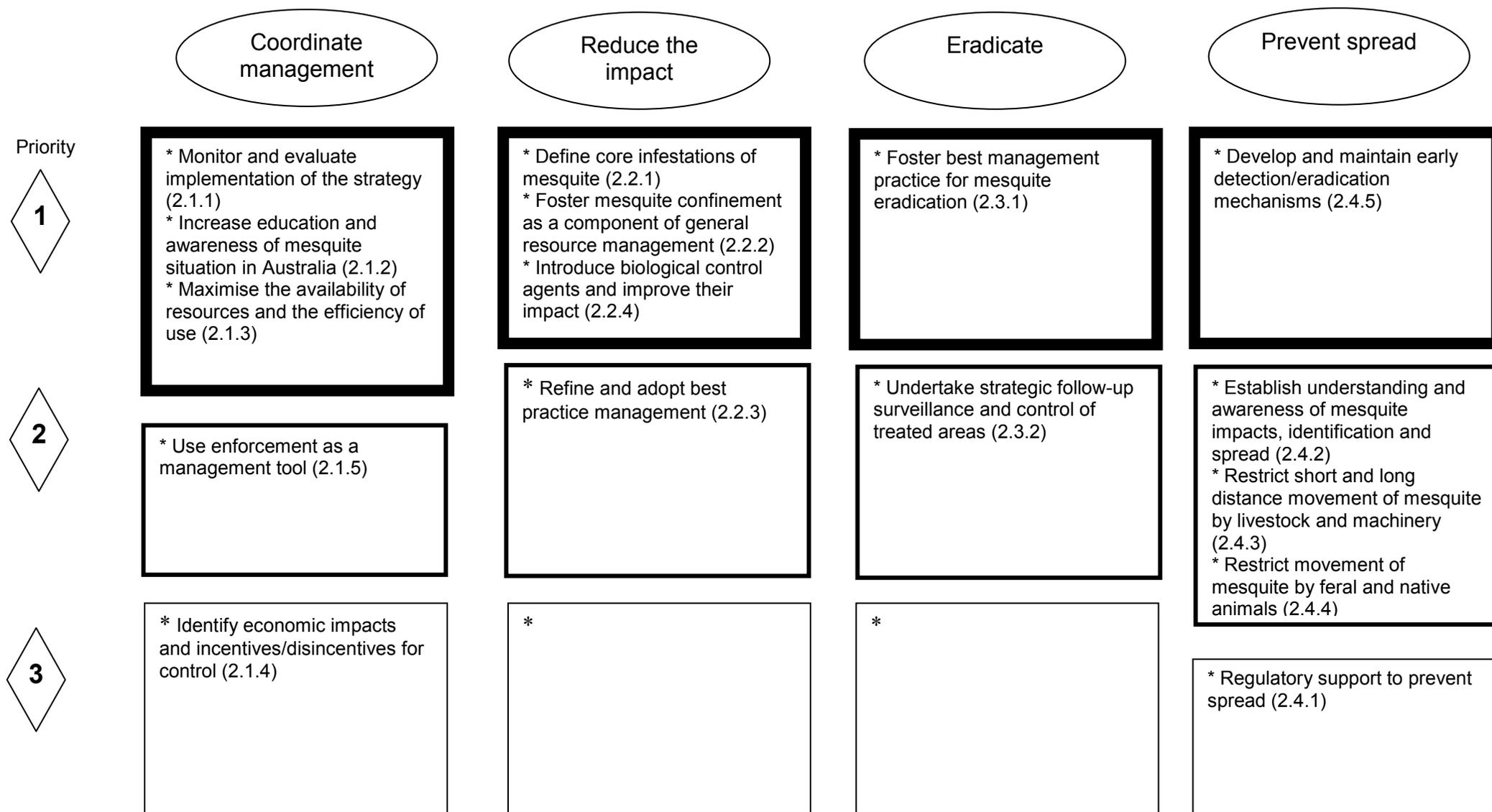


# The Mesquite National Priority Action Framework



Priorities are based on the National Strategy. Numbers correspond to actions in the National Strategy. See detailed information sheet on following pages and also see the Parkinsonia National Strategic Plan for more information.

# Detailed information regarding the Mesquite National Priority Action Framework

The framework is divided into 4 sections:

1. Coordinate management
2. Reduce the impact
3. Eradicate
4. Prevent spread

This document provides further detail regarding each action contained in the framework. Priorities were developed by the *National Prickle Bush Management Group* and are based on the National Strategy. Numbers correspond to actions in the National Strategy. Please see the *Mesquite National Priority Framework* for more information regarding boneseed.

## **Coordinate management**

### **Priority 1**

- Monitor and evaluate implementation of the strategy (2.1.1)
  - Maintain the National Prickle Bush Management Group and National Coordinator.
- Increase education and awareness of mesquite situation in Australia (2.1.2)
  - Implement a national education and awareness program & produce extension materials.
- Maximise the availability of resources and the efficiency of use (2.1.3)
  - Resources for ongoing research on ecology and biological control, maintain resources for ongoing management, mesquite management plans.

### **Priority 2**

- Use enforcement as a management tool (2.1.5)
  - Ensure national declaration, use notices where appropriate to achieve eradication, enforce lease conditions.

### **Priority 3**

- Identify economic impacts and incentives/disincentives for control (2.1.4)
  - Assess eradication economics at different scales, determine benefits and costs of mesquite control, update economic impacts.

## **Reduce the impact**

### **Priority 1**

- Define core infestations of mesquite (2.2.1)
  - Document and map core areas, investigate mapping technologies
- Foster mesquite confinement as a component of general resource management (2.2.2)
  - Develop confinement plans for core areas, promote establishment of clean areas within the core infestations
- Introduce biological control agents and improve their impact (2.2.4)
  - Maximise introduction of new agents, assess impacts of agents.

### **Priority 2**

- Refine and adopt best practice management (2.2.3)

- Update best practice publications, establish best practice demonstration sites, improve ecological understanding of mesquite.

## **Eradicate**

### **Priority 1**

- Foster best management practice for mesquite eradication (2.3.1)
  - Survey & map outlying infestations, develop distribution maps, implement eradication projects outside core areas, conduct control training, refine best practice, develop eradication plans.

### **Priority 2**

- Undertake strategic follow-up surveillance and control of treated areas (2.3.2)
  - Undertake regular surveys of treated areas, provide follow-up assistance and resources.

## **Prevent the spread**

### **Priority 1**

- Develop and maintain early detection/eradication mechanisms (2.4.5)
  - Maintain an eradication capability, regular surveys, early detection and reporting mechanisms.

### **Priority 2**

- Establish understanding and awareness of mesquite impacts, identification and spread (2.4.2)
  - Determine importance of spread vectors, document impacts and potential spread, implement awareness activities.
- Restrict short and long distance movement of mesquite by livestock and machinery (2.4.3)
  - Mesquite spread prevention protocols including stock hygiene and washdown facilities, risk assessment to determine likely spread, monitoring tools.
- Restrict movement of mesquite by feral and native animals (2.4.4)
  - Establish containment fences in association with core areas, implement and coordinate feral pig control to limit spread.

### **Priority 3**

- Regulatory support to prevent spread (2.4.1)
  - National declaration, promote alternative species for shade.

## Strategic control priorities

<b>Strategic control</b>	<b>Priority</b>
Kimberley	Very high
New South Wales	Very high
South Australia	Very high
Northern Territory	High
WA Gascoyne	High
Western Qld hybrid	High
Qld Western	High
Qld Coastal	High
Qld Gulf	Medium
Qld Quilpie	Medium
Qld Hughenden	Low
WA Pilbara	Low

## Capacity building/best practice promotion priorities

<b>Region/area</b>	<b>Priority</b>
Core areas – Pilbara, Quilpie, McKinlay, Hughenden	High
Outlier infestations	Low

## Research priorities

<b>Research focus</b>	<b>Priority</b>
Management of hybrid mesquite	High
Biological control	Medium
Predicting impact	Medium
Modelling integrated management	Medium
Taxonomy of mesquite in Australia	Medium