



### 3 Management strategies

#### Current situation

#### Proposed policies, guidelines and actions

##### **Plant communities and species**

DoE staff completed a comprehensive plant species checklist for Dwyers Scrub and the immediate environs in 1988. This was compiled from various field surveys and was updated in 1993. It appears weed invasion (especially by madeira vine, cats claw creeper and lantana) is severely threatening the integrity and species diversity of the park's vegetation communities. A small section of the park has been significantly disturbed by activities such as clearing and grazing. Currently the fences and thickness of lantana are enough to exclude stock but these fences need repair.

##### **Native animals**

A detailed survey of the park has not been conducted although a provisional list of 72 bird species has been compiled. There is evidence that the vulnerable black-breasted button quail (*Turmix melanogaster*) occurs on the park. The quail appears to use lantana on the perimeter of the scrub for shelter. This species might be considered for the Fauna Species Recovery Program.

##### **Introduced plants and animals**

The endangered dry vine scrub is threatened by invading aggressive climbing weeds, especially madeira vine (*Anredera cordifolia*). This vine is one of the most serious weeds threatening rainforest in eastern Australia. It is causing major problems in rainforests from northern New South Wales to Rockhampton. Controlling it will need to be part of a strategic approach. Cats claw creeper is another aggressive exotic vine of particular concern. It can grow in restricted light and has invaded parts of the dry vine scrub remnant. Experimental weed control work has been initiated by DoE staff and LWMA on cats claw creeper and other weeds on the park.

Previous clearing and other disturbance has allowed lantana to invade, especially in the sheltered valleys and dry vine scrub surrounds. Lantana particularly threatens the open forest understorey. Experimental fire management is aiming to control this weed and allow native species to regenerate.

##### **Fire management**

The last wildfire recorded on the park was 30 years ago. Fire was historically used on this area to maintain cleared areas as open grassland. This caused the fire-sensitive dry vine scrub to retreat. To conserve this endangered regional ecosystem, management would aim to exclude fire from dry vine scrub areas. The scrub would be encouraged to spread into surrounding cleared areas. Fire would also be used to control lantana. The fire regime required by various open forest species, including the fire-sensitive *Callitris glaucocephala*, will be studied. Prescribed burning undertaken in October 1997 was aimed at protecting the scrub remnant and creating a variable fire mosaic in the open forest communities.

##### **Landscape, soil and catchment protection**

Dwyers Scrub Conservation Park provides vegetative cover for the Ma Ma Creek catchment. Retaining this vegetation in the uplands will help to reduce topsoil runoff and subsequent stream siltation lower in the Lockyer Creek catchment.

##### **Cultural heritage**

The cultural heritage significance of the park has yet to be determined.

##### **Education and research**

LWMA is keen to continue using Dwyers Scrub as an educational tool to demonstrate the importance of applying LandCare principles to conserve natural resources and to provide a basis for sustainable future development.

##### **Recreation and tourism**

Other than discreet boundary signs marking the edge of the park, there are no other interpretive facilities at Dwyers Scrub. There is a track system on the park for ranger access. Only pedestrian access is permitted along the southern boundary, although there are no walking tracks or other visitor facilities. Overnight camping facilities and permanent water are not provided. The only visitors using the park are associated with LWMA or birdwatching groups.

##### **Plan implementation and monitoring**

The management plan will be implemented by Central Moreton District staff with help from staff at the Conservation Resource Unit at Moggill. The LWMA and neighbours will also have the opportunity to play an important role in implementing the plan and protecting the park.

#### Desired outcomes

The biological diversity and integrity of the ecosystems and communities are conserved. Rare or threatened species and other species of special significance occurring on the park are protected.

The long-term survival of the animal population, especially that of any rare and threatened species, is ensured.

The adverse affects of weeds and feral and domestic animals on the park are minimised.

The biological diversity of the native plant and animal communities is maintained through responsible fire management. Human life and property are protected as far as possible from fire originating from within the park or entering the park from surrounding properties.

Minimise soil erosion and compaction from within the park. Maintain catchment quality.

Involve local communities in managing cultural heritage values.

Provide research and educational opportunities that directly benefit the protection of native species and vegetation communities on the park.

To provide for an ecologically sustainable use of the park for low impact nature-based recreation pursuits.

To maintain the current low level of visitor use whilst maintaining the conservation values of the park.

To implement the management plan effectively.

- Develop an action plan for managing Dwyers Scrub vegetation particularly concentrating on the endangered semi-evergreen thicket. Actions will include:
  - Considering the ecological requirements of any significant species including those listed as rare or threatened.
  - Beginning a rehabilitation strategy for the park, incorporating weed control and using results of previous weed control efforts with similar weed problems.
  - Monitoring effectiveness of strategies.

- Prepare an action plan to effectively manage the animals. Actions will include:
  - Conducting an animal survey on the park.
  - Recording incidental animal sightings.
  - Further encouraging local community groups, including the Toowoomba Birdwatchers Club and the Toowoomba Field Naturalists Club, to continue surveying the area.
  - Following any recovery plans produced for rare and threatened animals.
  - Considering needs of species of special significance in fire and weed management.

- Develop a weed action plan for Dwyers Scrub Conservation Park. The plan's priorities will be to:
  - Collate existing information on the biology of weeds and current control methods.
  - Target cats claw creeper, madeira vine and other invasive weeds in the dry vine scrub. Constantly review new control methods for these weeds. The control of madeira vine would need to form part of a strategic approach for the entire region.
  - Control lantana around the dry vine scrub perimeter to decrease the risk of a hot fire burning fire-sensitive scrub species.
  - Minimise damage caused by domestic cattle by upgrading park boundary fences in conjunction with park neighbours.

- Develop and implement a fire management plan for Dwyers Scrub. The plan will include:
  - Collate existing fire history and monitoring information.
  - Continuing fire monitoring at specific sites to help determine the effect of fire on the vegetation communities and to help make decisions relating to fire management.
  - Liaising with neighbouring landholders to develop co-operative fire suppression programs.
  - Developing wildfire response plans and prescribed burning programs in co-operation with the local Rural Fire Brigade and other relevant authorities.
  - Conducting ecologically based fuel reduction burns in open forest and woodland communities.
  - Excluding fire from the fire-sensitive and endangered dry vine scrub.

- Maintain natural vegetation on the park through fire management which protects the scrub and erosion-prone steep slopes.
- Encourage interested groups to participate in park management.

- Allow LWMA to use Dwyers Scrub as an educational tool to demonstrate to landholders the benefits of preserving native vegetation remnants. Use Dwyers Scrub as part of a broad strategy to investigate methods of controlling madeira vine, cats claw creeper and lantana. Encourage local groups, including tertiary students, to participate in research on Dwyers Scrub which will help protect the integrity of the park.

- Maintain current low-level use of the park. Maintain existing signs but do not develop directional road signs or visitor information sheets.
- Develop a schedule for plan implementation which identifies priorities for park management.
- Liaise with neighbours and community groups about management issues and directions to increase protection of the park's conservation values.