

**Facilities:**

- Industry Services administration building
- Science Services building
- Research and Development Nursery complex - with 'state of the art' tunnel and extensive shade houses
- Glasshouses - including PC2 glasshouse
- Large shade houses
- Plastic tunnels for sheltered growth environments
- Fruit fly proof growing areas
- Propagation areas
- Seed store and cold room
- Machinery sheds
- Engineering workshops
- Plant pathology laboratory
- Turf research laboratory
- 'World class' tissue culture laboratory/growth rooms



Formerly a vegetable, fruit and ornamental horticultural centre, Redlands Research Station now services the needs of the turf, nursery, cut flower and foliage industries, with a wider focus on lifestyle industries such as tourism, local government, interior scapes and soft green landscapes. Research is undertaken in strawberry, sweet potato & pine tree tissue culture, breeding & nutrition of strawberries, ripening and flowering of pawpaw and pineapple, fruit fly control, insect resistance in leucaena, and growth of *Euphorbia peplus* ( potential cancer treatment).

**Lifestyle Products and Services**

**L**ifestyle Products and Services focus team, part of Horticulture and Forestry Sciences, Department of Primary Industries and Fisheries (DPI&F) and the Australian Centre for Lifestyle Horticulture (ACLH), an initiative of industry, government and universities, progress all aspects of lifestyle horticulture.

Lifestyle horticulture is now recognised as being worth in excess of \$1.5 billion annually in Queensland.

The Lifestyle Products and Services focus team has strong links with industry bodies and recognises the importance of environmental horticulture and how the lifestyle horticultural industry impacts on environments.



The team focuses on turf, nursery, cut flower/foliage, soft green landscapes and water use efficiency.

**Turf Industry**

**T**urf research at Redlands Research Station provides an independent scientific research and extension capacity servicing the Queensland and Australian turf industries. The scope and impact of Queensland Turf Research extends across the whole turf industry - from producers to facility managers, homeowners to professional turf managers, and roadside/urban open space to golf courses, bowling greens and sportsfields.

**Activities include:**



- Collection of 138 warm-season turfgrass varieties
- Buffalograss shade and water conservation studies
- Greens grass study for golf and bowls industry
- Remediation of salt-affected roadsides and parks with salt-tolerant grasses
- Screening of turf for tolerance of saline and low pH soils
- Turfgrass wear tolerance studies
- Chemical testing of turf varieties
- Developing maintenance soil fertility programs for different turf species
- Disease identification and control across a range of warm-season turf species
- Sportsfield characterisation, safety & auditing of local and elite fields
- Offering independent contract research

**Nursery Industry**

**O**ur Research and Development Nursery complex provides leading facilities to undertake research and development for the Queensland nursery industry.

**Activities include:**

- Floriculture and bedding plant product trials for two leading propagation nurseries
- Developing protocols for disinfestation of recycled water in production nurseries
- Best practice irrigation scheduling guidelines for production nurseries
- Comprehensive cost/benefit analysis of best practice water use efficiency
- CRC for Microtechnology moisture sensor trials



**Cut Flower and Foliage Industry**

**T**he Lifestyle Products and Services focus team has strong links with the Flower Association of Queensland.

**Activities include:**

- Strategic industry development
- Identification and commercialization of North Queensland foliage species for the export cut flower market
- North Queensland industry development
- Improving Queensland industry structure and sustainability
- Developing a marketing/promotions plan
- Reforming a national industry body
- Australian Flower Industry magazine
- Implementation of the Smart Flowers & Foliage ICT Strategy
- National Flower Industry Conference



## Landscape Industry

**Q**ueensland Association of Landscape Industry has a strong working relationship with DPI&F.

### Activities include:

- Industry development
- Registration and training of industry professionals
- Development of water fact sheets series for domestic outdoor water consumers on behalf of Natural Resources and Mines in collaboration with ACLH member organizations



## GrowSearch Australia

**G**rowSearch Australia is an information service for members of Australia's horticultural industry. Information is available on topics such as crop production, postharvest handling, irrigation systems, greenhouse design and equipment, pests and diseases, integrated pest management, turf, hydroponics, new crops, bush foods and many more.

Visitors to Redlands Research Station are welcome to browse the articles and books on the shelves. Although many of the resources in GrowSearch are focussed on commercial production, home gardeners may also discover some interesting reading on topics such as garden plant varieties, pests and landscaping.

## Queensland Boating and Fisheries Patrol

**I**n 2005, the Queensland Boating and Fisheries Patrol officers patrolling southern Moreton Bay opened offices at Redlands Research Station to carry out surveillance and education. They are responsible for enforcing the boating and fisheries legislation and safety laws to commercial and recreational fishermen.



## Queensland Poultry Research and Development Centre (QPRDC)

**S**ited at the western entrance to Redlands Research Station, this centre's research and development capabilities service State and National industries.

### Activities include work on:

- Vaccine development
- Nutritional requirements
- Feed ingredient composition
- Environmental research into odour, air quality and safe use of litter
- Wholesome food including food safety
- Animal welfare
- Natural medications
- Disease investigation
- Exotic disease prevention strategies
- Research in alternative species (e.g. turkeys, squab)

### The work is communicated through:

- The Poultry Information Exchange
- Poultry production and management web pages
- The High School's Poultry Industry Education Project
- World Poultry Science Association support
- assistance to industry to adapt to challenges and adopt new technology
- Community industry education
- Joint lecturing with the University of Queensland
- Consultancy and advisory services.



**Queensland Government**  
Department of **Primary Industries and Fisheries**

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## Redlands Research Station

### The home of

**Queensland Department of Primary Industries and Fisheries**

**Queensland Association of Landscape Industries**

**Flower Association of Queensland**

**Australian Centre for Lifestyle Horticulture**

**New Zealand Sports Turf Institute**

**Nursery and Garden Industry Queensland**



## Overview

**R**edlands Research Station is located in Cleveland near the shores of Moreton Bay (approximately 20 kilometres from Brisbane) and is close to many of Queensland's major lifestyle horticultural industries. It is situated on 66 hectares of land, including red krasnozem and yellow podzolic soils, with a permanent water supply from the local creek, large on-site dam and access to grey water.