# UNE GREENHOUSE COMPLEX FACILITIES

An induction is required before using any of the below facilities.

## GREENHOUSES:

- Established May 2009.
- Each bay within the greenhouses has individual temperature control capabilities (from 10°C to 35°C) to suit the needs of the trial.
- Climate data is logged for each bay and can be downloaded for your information.
- Bay sizes: standard ~6 x 3 m, large ~6 x 6 m.
- Each standard sized bay has 6-8 benches that are 1.4 x 0.9 m to 1.5 x 0.9 m.
- Watering systems can be installed for individual research projects with assistance from technical staff.

| Greenhouse 2 |       |  |  |  |
|--------------|-------|--|--|--|
| G2-13        | G2-01 |  |  |  |
| G2-12        | G2-03 |  |  |  |
| G2-11        | G2-04 |  |  |  |
| G2-10        | G2-05 |  |  |  |
| G2-09        | G2-06 |  |  |  |
| G2-08        | G2-07 |  |  |  |

|   | Greenhouse 1   |       |       |  |  |
|---|----------------|-------|-------|--|--|
|   | G1-14          | G1-01 |       |  |  |
| - | G1-13          |       | G1-03 |  |  |
|   | G1-12          |       | G1-04 |  |  |
|   | G1-11<br>G1-10 |       | G1-05 |  |  |
|   |                |       | G1-06 |  |  |
|   | G1-09          |       | G1-07 |  |  |
|   | G1-08          |       |       |  |  |

#### GREENHOUSE 1:

- Glass walls and roof.
- Plant growth lights for extending day length during winter.
- 13 bays (11 x standard, 1 x large, 1 x foyer area).
- Bays G1-07 and G1-08 have the capacity to increase CO<sub>2</sub> levels using an external gas source.

#### GREENHOUSE 2:

- Polycarbonate walls and glass roof
- 12 bays (9 x standard, 2 x large (prioritised for teaching), 1 x foyer area).
- Some watering systems are installed (mainly in bays prioritised for teaching).
- Propagation beds with heating and misting capabilities in G2-08.

# **OTHER GROWING STRUCTURES:**

- Shade house with 70% shade and automatic irrigation.
- Polyhouse plastic tunnel with automatic irrigation as well as storage space.
- Growth cabinets 3 cabinets with temperature ranges from 4°C to 45°C and plant growth lights that can be set to achieve any day length.

## OTHER FACILITIES

- Soil processing bulk soil drying, crushing, and sieving for pot trial preparation. Equipment for sample drying, grinding, and sieving for laboratory analysis.
- Plant processing root washing, sample drying and grinding for laboratory analysis.
- General laboratory for basic research techniques.