



2019-2020 season

Charles Sturt University is one of a few nationwide organisations that provide herbicide resistance testing. This service is available to improve efficiency of herbicide use, there is no point applying a herbicide that is ineffective because the target weed is resistant. Testing will improve weed management decisions, help to minimise herbicide wastage.

How to collect suspect seed

The best time to collect suspected resistant weed seed is when it is close to maturity, which often occurs **before the crop is to be harvested**. The steps involved in seed collection are:

1. Collect at least **1 cup full of clean weed seed (more for wild oats and wild radish)** either from screenings on your header or from plants randomly throughout the paddock. **An A4 envelope full of seed heads will also be sufficient. Insufficient seed will reduce the number of herbicides that can be tested.** Each paddock will need to be sampled **separately** as results may vary. **NOTE: More**

seed collected the better especially for wild oats.

2. Place each sample in a sealed paper bag. Place this bag and the **Identification slip** (this page) in an envelope. If multiple samples are being sent in the same envelope, clearly identify each sample bag and herbicides to be tested.
3. Mail samples as soon as possible to avoid seed deterioration.
4. Address to **Herbicide Resistance Testing, School of Agricultural and Wine Sciences, Charles Sturt University, Locked Bag 588, Wagga Wagga, NSW, 2678.**

For further information contact:

John Broster
Phone: 02 6933 4001
Mobile: 0427 296 641
Email: jbroster@csu.edu.au

Web site <http://www.csu.edu.au/research/grahamcentre/> and follow the Quicklink to herbicide resistance

Then click on: [Instructions for collecting seed and submitting samples](#)

IDENTIFICATION SLIP
To be enclosed with sample

Name:
Postal address: Postcode:
Phone: Mob: Email:
Paddock name/number:

Agent:
Address:
Phone: Mob: Email:

I agree to have the following tests (over page) conducted providing sufficient viable seed is made available, and will be charged at the stated prices.

Purchase Order No. _____ Customer signature: _____

Submission of this sample to the Charles Sturt University Herbicide Resistance Testing Service implies that:

- the landowner agrees to its submission
- the landowner agrees to the nominated agent receiving all results

License to Intellectual Property

- (1) The Client(s) assigns to Charles Sturt University exclusive intellectual property to the data.
- (2) Charles Sturt University licenses back to the Client(s) an irrevocable, non-exclusive license to use the results for internal purposes

SAMPLES MUST BE RECEIVED BEFORE 1st APRIL TO BE TESTED THIS YEAR.

What to expect

- Charles Sturt University will acknowledge receipt of your sample(s) either direct or via the nominated agent.
- **As most weed seeds have a dormancy period testing does not begin until February. Tests take 8-10 weeks to complete with tests sown every 2-3 weeks. Results may be delayed in samples with poor germination.**
- If the results are required for pre-season planning it is essential that samples are sent prior to mid-January, to allow enough time for the test to be carried out, and results returned.
- Results will be released to you or via your local agronomist for interpretation as soon as they are available. These results include a resistance category and response curve for each herbicide tested.
- Further queries should be directed to your agronomist / agent, or Charles Sturt University on 02 6933 4001

Tick test(s) to be done

(all prices include GST)

Ryegrass cross resistance test (any five selected herbicides)

Cost \$400

Specific herbicides

Herbicide 1:
☐ Herbicide 2:
☐ Herbicide 3:
 Herbicide 4:
 Herbicide 5:

or

Standard herbicides

Hoegrass® (Group A fop)
☐ Select® (Group A dim)
☐ Glean® (Group B)
 Simazine (Group C)
 Trifluralin (Group D)

☐ **Ryegrass cross resistance test plus Roundup® (Group M)**

Cost \$450

Wild oats cross resistance test (any four selected herbicides)

Cost \$400

Specific herbicides

Herbicide 1:
☐ Herbicide 2:
☐ Herbicide 3:
 Herbicide 4:

or

Standard herbicides

Topik® (Group A fop)
☐ Select® (Group A dim)
☐ Atlantis® (Group B)
 Avadex Xtra® (Group J)

☐ **Wild oat cross resistance test plus Roundup® (Group M)**

Cost \$450

Broadleaf cross resistance test (any four selected herbicides)

Cost \$400

(including Wild Radish, Wild Turnip and Indian Hedge Mustard)

Specific herbicides

Herbicide 1:
☐ Herbicide 2:
☐ Herbicide 3:
 Herbicide 4:

or

Standard herbicides

Glean® (Group B)
☐ Atrazine (Group C)
☐ Brodal® (Group F)
 24D Amine (Group I)

☐ **Broadleaf cross resistance test plus Roundup® (Group M)**

Cost \$450

Individual herbicides (circle herbicides required)

for **any** weed species

Cost 1st herbicide \$140
Cost each extra herbicide \$90

Herbicide additional to cross resistance test \$60

* Hoegrass® (Gp A – fop)
 * Verdict® (Gp A – fop)
 * Topik® (Gp A – fop)
 * Select® (Gp A – dim)
 * Achieve® (Gp A – dim)
 * Axial® (Gp A – den)
 * Glean® (Gp B – SU)
 * Logran® (Gp B – SU)
 * Atlantis® (Gp B – SU)
 * Hussar® (Gp B – SU)

* Intervix® (Gp B – Imi)
 * Crusader® (Gp B – SA)
 * Simazine (Gp C)
 * Atrazine (Gp C)
 * Trifluralin (Gp D)
 * Brodal® (Gp F)
 * 24-D Amine (Gp I)
 * MCPA (Gp I)
 * Avadex Xtra® (Gp J)
 * Boxer Gold® (Gp J/K)

* Sakura® (Gp K)
 * Gramoxone® (Gp L)
 * Roundup® (Gp M)
 * Mataven® (Gp Z)
 ** Others (please specify)

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