HERBICIDE RESISTANCE TESTING SERVICE
(seed testing service)

2011-2012 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 the sample(s) in a sealed bag with the **Identification slip** (this page) included. Place this bag in an envelope. If multiple samples are being sent, clearly identify each sample bag and herbicides to be tested.

3. Place the sample or samples in an envelope and send as soon as possible to avoid seed deterioration. Mail 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

IDENTIFICATION SLIP
To be enclosed with sample

Name:……..

Postal address:..... Postcode: ……

Phone:……..……... Fax:.....……..... Email: ……

Paddock name/number: ……

Agent: ……

Address: ……..

Phone:……..... Fax:.....……..... 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.
- Because most weed seed has a dormancy period, the test may take 8-10 weeks to complete. Testing begins in February and is usually complete by mid to late April.
- 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** **Cost $325**

GROUP A FOPS	Hoegrass®	*Indicate if alternative herbicide preferred……..
GROUP A DIMS	Select®	*Indicate if alternative herbicide preferred……..
GROUP B SU's	Glean®	*Indicate if alternative herbicide preferred……..
GROUP C	Simazine®	
GROUP D	Trifluralin®	*If alternative herbicides are selected results may be delayed

☐ **Wild oats cross resistance test** **Cost $325**

GROUP A FOPS	Wildcat®	*Indicate if alternative herbicide preferred……..
GROUP A DIMS	Select®	*Indicate if alternative herbicide preferred……..
GROUP B	Atlantis®	*Indicate if alternative herbicide preferred……..
GROUP J	Avadex Xtra®	

*If alternative herbicides are selected results may be delayed

☐ **Broadleaf weeds cross resistance test** **Cost $325**
(incl. Wild Radish, Wild Turnip and Indian Hedge Mustard)

GROUP B	Glean®
GROUP C	Simazine®
GROUP F	Brodal®
GROUP M	Roundup®

24-D Amine or **MCPA** may be selected as an alternative to Roundup (please circle choice)

☐ **Individual herbicides (circle herbicides required)** **Cost 1st herbicide $110**
for **any** weed species **Cost each extra herbicide $70**
Herbicide additional to cross resistance test $50

* Hoegrass®	(Gp A – fops)		* Sertin®	(Gp A – dims)	
* Verdict®	(Gp A – fops)		* Achieve®	(Gp A – dims)	
* Select®	(Gp A – dims)		* Axial®	(Gp A –dens)	
* Glean®	(Gp B – SU's)		* Fusion®	(Gp A)	
* Simazine®	(Gp C)		* Logran®	(Gp B – SU's)	
* Trifluralin®	(Gp D)		* Oust®	(Gp B – SU's)	
* Avadex BW®	(Gp J)		* Intervix®	(Gp B)	
* Mataven®	(Gp Z)		* Hussar®	(Gp B)	
* Brodal®	(Gp F)		* 24-D Amine	(Gp I)	
* Roundup®	(Gp M)		* MCPA	(Gp I)	
* Eclipse®	(Gp B)		* Atrazine®	(Gp C)	

** Other (please specify) ……

*** Results may be delayed when these herbicides are selected**

**** Unlisted herbicides may incur additional costs**