



syngenta

RISQ Test for detecting herbicide resistance to TWINAX.

Classification: PUBLIC

Background

- Herbicide resistant weeds are becoming more common in New Zealand.
- The number and area of resistant weeds is expected to increase.
- Syngenta has developed the RISQ Test for detecting herbicide resistance in weeds susceptible to TWINAX[®] (Group A – Pinoxaden).



What is the Syngenta RISQ Test?

- **Resistance In Season Quick.**
- A fast and effective test - results in 14 to 21 days.
- Allows growers (and agronomists) to make informed decisions **THIS** season, **PRIOR** to herbicide application.
- Trialed in NZ for the past 4 years.



What weeds can be tested?



Ryegrass



Phalaris



Wild oats

Which paddocks to sample

- Samples should come from high risk paddocks and areas where weeds survived herbicide application the previous season.



RISQ Test sampling procedure

1. Contact Syngenta for a complete RISQ Test Kit.
2. Rep collects at least 100 weed seedlings per paddock in a 'W' shape across the field to ensure representative sample.
3. Seedlings should be 5 cm in height, up to 3 leaf growth stage, before tillering.
4. Carefully dig out plants, place in plastic container.
5. Gently remove excess soil from roots, taking care to prevent damage to the seedling roots or leaves.



RISQ Test sending procedure (Syngenta provide complete kit)



1. Wrap tissue paper around Seedlings. Carefully remove most of the soil. Avoid root damage.



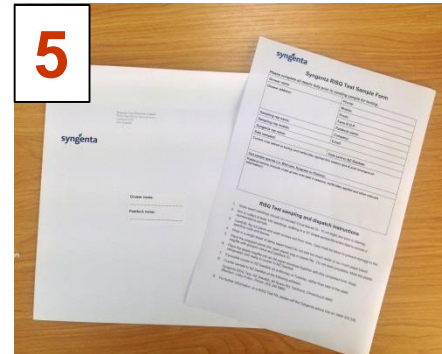
2. Place in some plastic, but very loosely so as to let the plants breathe.



3. A plastic filing pocket left open and with holes in is perfect. If plants are sealed in plastic entirely they will not survive.



4. Place plastic bag/filing pocket in a paper envelope.

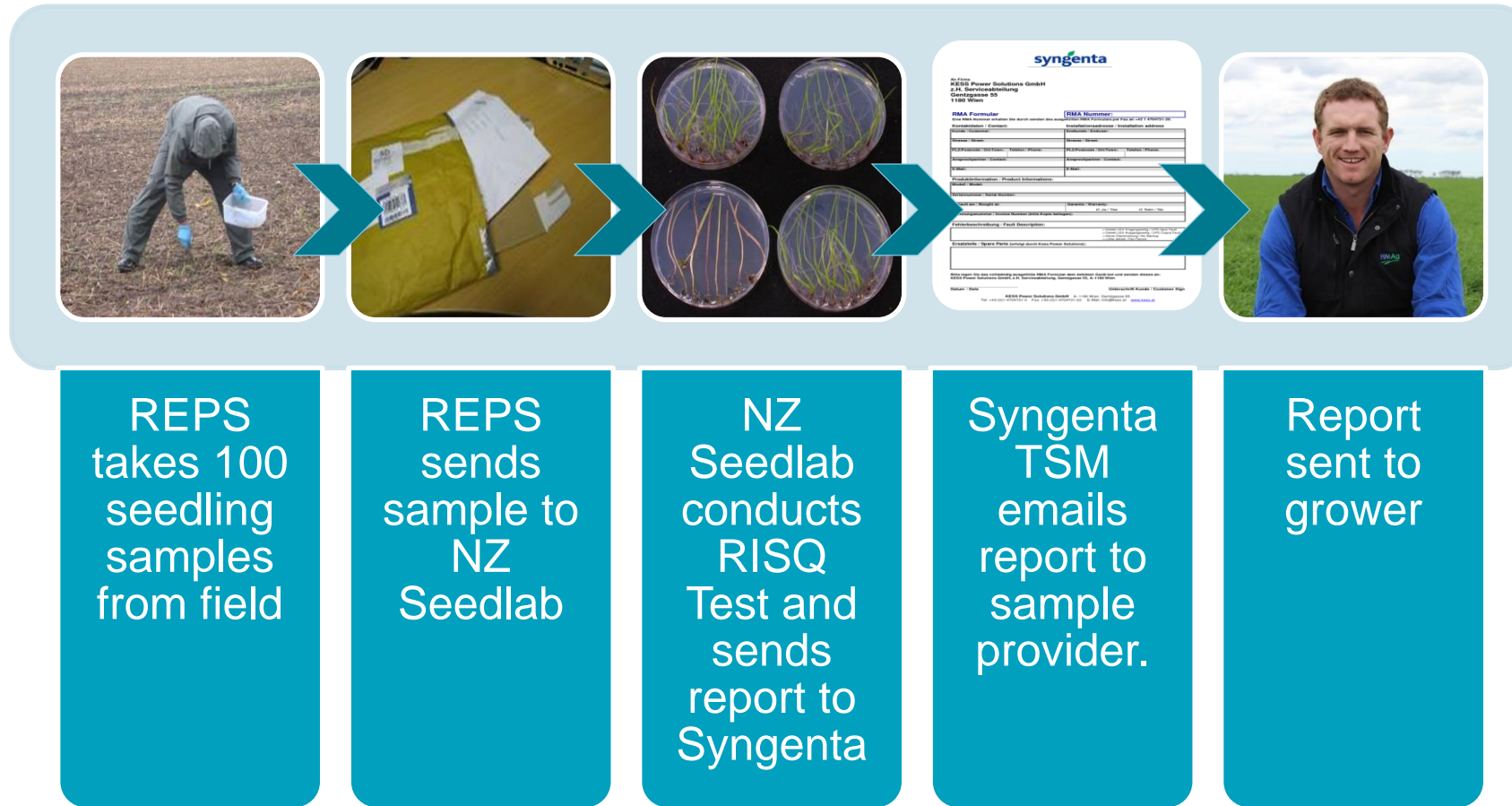


5. Mark paper envelope with the grower name and paddock ID. Fill in the RISQ Test Sample Form and place form inside paper envelope.



6. Courier to NZ Seedlab the day of, or day after sampling (preferably on a Monday or Tuesday).

Syngenta RISQ Test Summary (14 to 21 days)



Syngenta RISQ Test Update for 2018



100 seedlings
or



Cupful of mature seeds

Result in 14 days
Cost = \$180 plus GST
Charge per active

Result in 6-12 weeks
Cost = \$200 plus GST
Charge per active

 **Twinax**[®] = Group A

Rexade[™] GoDRI[™] = Group B
HERBICIDE

Simplicity[™] = Group B
HERBICIDE

RISQ test for:

- Wild Oats
- Annual Ryegrass
- Phalaris

Report includes:

- Plant survival (%)
- Level of resistance (RRR, RR, R, S)
- Recommendations

A screenshot of a Syngenta RISQ test report form. The form is titled 'RISQ Form' and includes fields for 'RISQ Number', 'Date', 'Field Name', 'Crop', 'Herbicide', 'Rate', 'Application Date', 'Observer', 'Weather', 'Soil Type', 'Seed Type', 'Seed Rate', 'Seedling Count', 'Plant Survival (%)', 'Level of Resistance', and 'Recommendations'. The Syngenta logo is visible at the top right of the form.