



## Triticale Growers Guide

### **Key Features**

- High yielding feed grain, desired by pig and dairy industries
- Strong take-all resistance, well suited as 2<sup>nd</sup> or 3<sup>rd</sup> cereal
- Good tolerance to lighter or wetter more “marginal” cropping soils
- Suit late April to late May sowing on all soil types
- Medium height triticale with stiffer straw
- Good levels of resistance to common leaf diseases
- Large grain with good resistance to shedding

Winslow’s strong root system provides increased tolerance to dry, wet or difficult soils.

It responds to nitrogen, water and PGR inputs like wheat while fungicide inputs can be reduced and, with higher resistance to take all than wheat (approx. 10% of wheat symptoms), Winslow makes a good option as a 2<sup>nd</sup> or 3<sup>rd</sup> year cereal.

*Trial results show an average 10% yield above feed wheat in 8-10 t/ha sites, with a similar yield to feed wheat in 11-13 t/ha sites.*

### **Sowing**

Winslow is a long season winter Triticale, best suited to sowings from late April to late May, but can be sown in June. It should not be spring sown. Early plant development is quite prostrate (flat) until mid tillering when it tillers strongly. It is typically harvest mature 3-5 days earlier than European winter feed wheat sown at the same time.

Late April sowing: establish 100 to 125 pl/m<sup>2</sup> using 90 % emergence. (75-85 kg/ha)  
Mid May sowing: establish 125 to 175 pl/m<sup>2</sup> using 85 % emergence. (90-110 kg/ha)

### **Fertilizer**

Base spring N requirements on estimated soil contribution and yield target.

Like wheat crops it needs adequate N from GS 32 onwards or will suffer a yield penalty.

A 10 t/ha crop contains 250 kg N/ha (25 kg N/t). Fertilizer N is used at approximately 80% efficiency in irrigated conditions and approximately 60% in dry land conditions.

The aim is to produce 700-800 tillers at GS 31 (1<sup>st</sup> node), and grow them to the maximum, (allowing 20-25 % tiller death to produce 500-600 ears/m<sup>2</sup> at harvest)

### **Fungicides**

Winslow has good resistance to speckled leaf blotch, leaf rust, glume blotch, mildew and medium resistance to stripe rust and fusarium. Low fungicide inputs can be used on these crops but they should always be monitored for changes in race resistance. A medium rate fungicide between GS32-39 and another at ear emergence is adequate for Winslow in most seasons.

### **Autumn Insecticide**

Use Gaucho treated seed if aphid and/or grass grub are expected. If sown with Gaucho before mid-May, follow-up with at least one foliar aphicide at GS21.

If not using Gaucho, then use an insecticide (e.g. Karate Zeon at 20-40 mls/ha) at GS12, again 17-21 days later on early sown crops. (BYDV has most impact on younger plants, with a declining impact after GS 32)

### **Irrigation**

With strong fibrous root systems, Winslow will handle drought conditions better than many cereals, however Winslow also responds to water like any other cereal with 50 mm of water required from soil or sprinkler for every 1 t of yield produced. Water use can peak at 5-6 mls/day in many crops.

### **Growth Regulators**

Growth Regulators are needed on all early sown crops and where yields will be 9 t/ha plus. 1.25 l/ha Cycocel + 200mls/ha Moddus at GS 30-31 (32 if missed) or higher rates and or split applications in early sown higher yield situations should be considered.

### **Harvesting**

Winslow has slightly lower initial falling number values than most feed wheats with similar sprouting resistance and good shedding resistance.

### **Yield Results**

#### **Methven (dry land) sown early May, trial mean 10 t/ha**

	Rel Yld	test wt	sd wt	scr
<b>Winslow</b>	<b>112</b>	<b>73</b>	<b>46</b>	<b>3</b>
Kortega (triticale)	112	70	44	1
Macro (wheat)	105	73	42	4
Option (wheat)	98	76	40	1

#### **Wakanui (irrigated), sown mid May, trial mean 13 t/ha**

	Rel Yld	test wt	sd wt	scr
<b>Winslow</b>	<b>102</b>	<b>69</b>	<b>52</b>	<b>1</b>
Kortega (triticale)	97	68	50	1
Macro (wheat)	103	70	42	1
Option (wheat)	103	75	52	1

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