

# Reliance

## A Large Grained Premium Bread Wheat

### **Sowing Date Flexibility – Early May to late spring**

Reliance is an early maturing facultative wheat (needs no cold vernalization). Flowering date is 2-3 days earlier than Conquest. It is well suited to sowings from very early May in both dryland and irrigated conditions through to late spring, although the optimum sowing window is mid May to late August in Canterbury.

Medium to high bread wheat sowing rates are recommended (seed size may be larger than average and it has medium tillering ability). Shoot emergence length will be shorter than most wheat cultivars, so take care not to sow too deep (3-4 cm)

### **High Yields**

**Reliance yields are usually 5% above Conquest, especially from autumn sowing.**

While all cereals need adequate fertility and soil moisture to achieve their yield potential, Reliance responds well to wetter conditions and will also finish very well in drier conditions.

### **Consistent Grading Results – large grain**

**It has very good resistance to sprouting** and also produces high initial falling number values, slightly lower than Conquest. It has high proteins and it consistently produces good values for test weight and screenings. Seed size is consistently within the 44-48g/1000 range, which equips it well for tougher finishing conditions.

### **Good Disease Resistance**

**Reliance has good tolerance to seedling and adult stripe rust and, moderate tolerance to mildew and susceptibility to leaf rust**, allowing medium fungicide inputs to be used on Reliance crops, but they should always be monitored for susceptibility to new races of diseases. Fungicide trials indicate that good flag leaf and ear wash fungicides are sufficient in most mid-late May sown crops. Earlier sown crops may respond to a fungicide around 1<sup>st</sup> node. While it has good BYDV tolerance, good aphid control is recommended.

### **Good Straw Strength**

**Reliance is slightly shorter than Conquest with very good straw strength**, but growth regulators are advised on all early (May/June) sown crops and where yield potential is 8 t/ha plus. Use 1.25 l/ha Cycocel + 200mls/ha Moddus at GS 30-31 (32 if missed). 1.5 - 2 L Cycocel alone could be used in low risk conditions.

## Nitrogen

**Timing is more critical for facultative wheats** and will be slightly earlier in spring than for winter wheats as development will be faster and all growth stages will have shorter intervals. Protein levels are usually high, so yield should be the primary nitrogen management focus. Approximately 25-30 kg's of N/t of yield are required from the soil or sack for bread wheats.

## Harvesting

Reliance has high initial falling numbers and good resistance to sprouting with medium to good shedding resistance.

## Canterbury CPT Trial Results

**FAR CPT results - 4 year results to 12/13 (4 site mean)**

	<b>Rel. Yield</b>	<b>Test Tw</b>	<b>Seed Wt</b>	<b>Screenings</b>	<b>Protein</b>	<b>Fall no.</b>
<b>Reliance</b>	<b>98</b>	<b>75</b>	<b>48</b>	<b>2</b>	<b>12.5</b>	<b>349</b>
Conquest	92	76	45	1	12.7	378

100 = 9.4 t/ha

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