



**Wrightson**

## CRAW 103

### High quality winter wheat

CRAW 103 is a high quality, autumn/winter sown wheat, which has been bred by Crop & Food Research at Lincoln. It is recommended for sowing in Canterbury autumn wheat regions. Crop & Food Research trials indicate that CRAW 103 yields are similar to Monarch and Kotuku and about 15-20% below Impact. It has good resistance to most common wheat leaf diseases and produces a large soft grain of good processing quality desired by the end users.

#### Key Features

- # Good processing quality desired by end users
- # Consistent yields across districts/management
- # Autumn, winter and clearly spring sown
- # Good resistance to stripe rust and speckled leaf blotch
- # Good straw strength and resistance to shechling
- # High grain weight and low screenings

#### Characteristics

CRAW 103 is an early/medium maturing autumn/winter white wheat, with medium height and good straw strength. It tillers and sets grain more sparsely than most modern wheats.

Like all white wheats, CRAW 103 has limited sprouting resistance, is easily threshed, and produces grain with weights of 40-45 g/1000 (in average seasons), low screenings and average test weights.

CRAW 103 has good resistance to stripe rust and speckled leaf blotch (*Septoria tritici*), with average resistance to mildew, barley yellow dwarf virus (BYDV) and leaf rust.

Mean values for two or three sites in Canterbury autumn trials  
(source: Crop & Food Research regional trials).

Year	Cultivar	Relative yield	Screenings (%)	Seed weight
96/97	CRAW 103	80	2	48
	Monarch	78	3	47
	Impact	100	1	45
95/96	CRAW 103	77	4	41
	Impact	100	1	41
94/95	CRAW 103	88	3	3
	Impact	100	3	3

## Management

### Sowing

CRAW 103 is best sown in May, but can be sown in June or July. The recommended sowing rate is 110-130 kg/ha. As with all wheats, BYDV prevention is recommended when sowing early or in mild winters.

### Fertiliser

CRAW 103 produces average wheat yields. Where adequate soil moisture will be available from tillering to late grain-fill, medium levels of nitrogen should be applied from early growth stages (Zachks G S 21) to 1st or 2nd node (Zachks G S 31-32) to achieve desired yield levels.

### Straw Strength

CRAW 103 has good straw strength in most conditions but, like all wheats, straw shortens at average rates (1.0-1.5 t/ha d.t. form equivalent) may be of benefit where expected yields are over 7 t/ha or where there has been lush and vigorous spring growth.

### Fungicides

Fungicides will usually be required during early stem extension for mildew control and after ear emergence to control mildew and other late leaf and ear diseases. Regular observations should be made during the season for all diseases.

### Irrigation

CRAW 103 will benefit from irrigation whenever it is necessary, but especially during grain-fill, to ensure yield potential is achieved by adequately filling those grains set. If the cultivar is subjected to water stress at early growth stages, grain numbers may be low.

### Harvesting

CRAW 103 has little sprouting resistance so should be harvested promptly to avoid any physical or quality deterioration.

### Acknowledgements

Crop & Food Research acknowledges the ongoing support received from the United Wheat Growers and the Foundation for Research, Science and Technology, which enables new superior performing cultivars to be developed for use by New Zealand growers and processors.

### Marketing

New Zealand Institute for Crop & Food Research Limited, as head licensee, have appointed Wrightson Seeds Ltd as seed production licensee.

As CRAW 103 is undergoing final pre-commercial evaluation, the above information is based on limited trial data and observations. Growers should monitor new cultivar crops closely and seek advice to ensure they are managed to achieve their potential.

### Contacts for further technical support and information

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