



tested
as
RAC1669R

Kord CL Plus



Clearfield[®] Plus

Production System for Wheat

Kord CL Plus carries two genes for Clearfield[®] resistance, providing improved levels of tolerance to imidazolinone herbicides, and offering more options for in-crop weed management.

As of February 2011, Clearfield[®] Plus wheat varieties are registered to be used with Intervix[®] herbicide. Please refer to the Crop Care Australia website for further information on the Clearfield Production System.
www.cropcare.com.au/TheSystem

Key Features

- Tolerant of imidazolinone herbicides
- CCN resistance
- Has performed well relative to other varieties in areas suffering drought stress
- Tolerant of boron toxicity
- Preliminary APW/AH quality classification, to be confirmed in April 2011

Plant Characteristics

Kord CL Plus is a fully awned spring wheat with a mid season maturity, similar to Gladius. Kord CL Plus is primarily derived from Gladius, and therefore shares many of the same characteristics, producing broad, erect leaves with a heavy wax cover.

Adaptation and Yield

Kord CL Plus has been tested in AGT internal trials since 2008, and was tested in the National Variety Trials (NVT) across South Australia in 2010. Table 1 presents the AGT yield performance data of Kord CL Plus and control varieties across a range of years and environments. The performance of Kord CL Plus in the relatively tough year of 2008, compared to 2009 and 2010 highlights its adaptation to dry environments.

Grain Quality

Kord CL Plus has a preliminary quality classification of APW/AH, and final classification will be confirmed by April 2011. Kord CL Plus has moderately sized grain. Limited sprouting data suggests that Kord CL Plus is likely to have similar sprouting susceptibility to Gladius, Excalibur and Krichauff.

Disease Profile

Kord CL Plus carries excellent stem rust resistance, and has good resistance to stripe rust. Kord CL Plus is rated as being moderately resistant to CCN infection. See Table 2 for detailed disease ratings.

Breeding

Kord CL Plus was tested as RAC1669R, and is derived from a cross between Gladius and the imidazolinone tolerance donor. Throughout the breeding of the variety, imidazolinone herbicides were used to confirm the presence of tolerance.

Table 1. Regional mean yield of Kord CL Plus and control varieties (% of site mean) in AGT trials.

Variety	SA 2008	SA 2009	SA 2010	SA 2008-2010	Mallee 2009-2010	Mid North/Yorke Pen 2009-2010	Eyre Pen 2009-2010
Kord CL Plus	113	94	100	101	100	99	95
Axe	106	95	97	98	105	97	93
Espada	-	100	103	-	98	101	105
Gladius	105	99	100	101	104	99	99
Mace	-	104	109	-	110	105	111
Wyalkatchem	108	103	105	105	100	106	103
Yitpi	103	100	100	101	96	98	105
mean t/ha	2.0	3.0	4.6	3.2	2.2	4.4	3

Table 2. Disease ratings for Kord CL Plus and control varieties.

Variety	Stem Rust	Stripe Rust	Leaf Rust	CCN	Yellow Leaf Spot	Septoria tritici Blotch	Powdery Mildew
Kord CL Plus*	R/MR	MR/MS	MS	MR	MS/S	MS/S	MS/S
Axe	MS	R/MR	MR	S	S	S/VS	MR
Espada	R/MR	MR/MS	R	MS	MS	S	MS/S
Gladius	MR	MR/MS	MS	MS	MS	MS/S	S
Mace	MR/MS	S/VS	R	MR/MS	MR/MS	MR/MS	MS/S
Wyalkatchem	MS	S	R	S	MR/MS	MR	S/VS
Yitpi	S	MR/MS	MS	MR	S/VS	MR/MS	MR/MS

R = Resistant, MR = Moderately Resistant, MS = Moderately Susceptible, S = Susceptible, VS = Very Susceptible, - = provisional ratings subject to change. Source: SARDI Cereal Variety Disease Guide 2011 and AGT disease data.

Seed Availability

Limited quantities of Kord CL Plus will be available for 2011 through an AGT Affiliate: Booleroo Centre Seeds: (08) 8667 2286, Breona Farming: (08) 8836 7238, Colrae Seeds: (08) 8538 5017, Minnipa Ag. Centre: (08) 8680 6206, Modra Seeds: (08) 8688 8094, Tatiara Seeds: (08) 8752 0054, RH Verner: (08) 8520 2181, or your local retailer.

Plant Breeders Rights

Kord CL Plus is protected by PBR and all production (except seed saved for planting) is liable to an End Point Royalty (EPR), which funds future plant breeding. Kord CL Plus growers will be subject to a Grower Licence Agreement that acknowledges that an EPR of \$3.55/tonne* plus GST has to be paid on all production other than seed saved for planting.

(* \$3.00/tonne AGT Breeder Royalty, \$0.55/tonne BASF Technical Fee).

Growing of AGT varieties is subject to the terms and conditions of the Industry Standard PBR Licence Agreement and its Schedules (as amended by AGT), the combination of which forms the AGT Grower Licence. A full copy of the AGT Grower Licence is available at www.ausgraintech.com

Acknowledgements

Kord CL Plus was bred and selected by AGT's Roseworthy Campus wheat breeding program led by current wheat breeder Haydn Kuchel. The name Kord continues in the tradition of naming wheats bred at Roseworthy Campus after bladed weapons, Kord being a Polish word for sword.