

IMI OAT GUIDE 2022

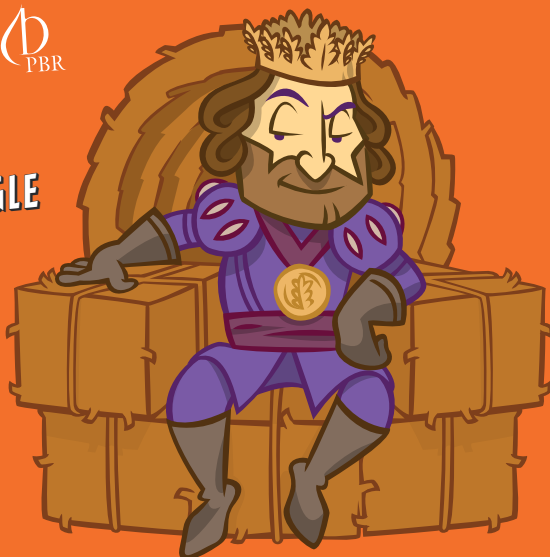


ALL ZONES

KINGBALE

IMI OATEN HAY

A DYNASTY FIRST, SINGLE
GENE IMI OATEN HAY!



ARCHER

IMI OATEN HAY

A SKILLED MARKSMAN
TARGETING MORE WEEDS
IN HAY CROPS!

INTRODUCING THE IMI OAT DYNASTY

KINGBALE[®] and ARCHER[®] are the world's only IMI tolerant oaten hay varieties!

KINGBALE[®] and ARCHER[®] are single gene IMI tolerant varieties and have improved tolerance to soil residual imidazolinone herbicides and are ideal for use where there are IMI residue concerns from previous crops.

Sentry[®] is currently registered for preplanting incorporation by seeding (IBS) for hay, forage, seed and grain (domestic feed market only) production. Excess grain, seed and screenings produced from single gene IMI Oaten hay varieties, KINGBALE[®] and ARCHER[®] can be used for the domestic oaten grain feed markets and/or consumed on-farm. Grain of these varieties cannot be delivered into bulk handling systems.

It should be noted that applications of imidazolinone herbicides other than Sentry[®] used in a pre-sowing application are not registered, and are likely to cause significant crop damage and may also lead to imidazolinone residues in hay and grain.

KINGBALE[®]

ALTERNATIVE TO:

CARROLUP[®] WINJARDIE[®]
KOORABUP[®] WINTAROO[®]

KINGBALE[®] is a mid-slow maturing oaten hay variety suitable for planting in the major hay growing regions of Australia.

Preliminary data shows KINGBALE[®] has a similar disease and agronomic profile to WINTAROO[®], which includes good early vigour and hay colour retention, a tall plant type and CCN resistance. Red leather leaf and stem rust will require proactive management.



GOOD HAY YIELD



IMI TOLERANT:
SENTRY[®]
REGISTRATION



OATEN HAY
EXPORT
QUALITY



MID-SLOW
MATURING



PLANT HEIGHT:
TALL



VIGOUR:
HIGH



CCN (Rp)



EXCELLENT
HAY YIELD



IMI TOLERANT:
SENTRY[®]
REGISTRATION



OATEN HAY
EXPORT
QUALITY



MID
MATURING



HEIGHT: MEDIUM



VIGOUR:
HIGH

ARCHER[®]

ALTERNATIVE TO:

YALLARA[®] MULGARA[®]
BRUSHER[®] CARROLUP[®]

ARCHER[®] is a mid maturing oaten hay variety suitable for planting in the major hay growing regions of Australia.

ARCHER[®] has a medium height variety, with good early vigour and hay colour retention. Preliminary data indicates moderately resistant to stem rust and moderate resistant to leaf rust in Western Australia and CCN in ARCHER[®] may require proactive rotational management.

The original breeding work was undertaken by Grains Innovation Australia (GIA) and the varieties are being commercialised by InterGrain.

KINGBALE[®] and ARCHER[®] seed is available for planting in 2023. Seed can be purchased through your local reseller or Seedclub Member.

PLANT FEATURES

VARIETY	KINGBALE [®]	ARCHER [®]	BRUSHER [®]	KOORABUP [®]	MULGARA [®]	WINJARDIE [®]	WINTAROO [®]	BANNISTER [®]	CARROLUP [®]	YALLARA [®]
Variety Type	Hay	Hay	Hay	Hay	Hay	Hay	Hay	Dual Purpose	Dual Purpose	Dual Purpose
Maturity	Mid-Slow	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Quick-Mid
Colour	Good	-	Good	Moderate	Good	-	Good	Good	Good	-
Stem Diameter	Moderate - Fine	Moderate	Moderate - Fine	Moderate - Fine	Moderate	Moderate	Moderate - Fine	Moderate	Moderate	Moderate - Fine
Plant Height	Tall	Medium	Tall	Tall	Tall	Tall	Tall	Tall	Tall	Medium

Variety Features Source: 2022 Western Australian Crop Sowing Guide, 2022 Victorian Crop Sowing Guide, South Australian Crop Sowing Guide and InterGrain oat breeding.

WESTERN DISEASE RATINGS

VARIETY	KINGBALE [®]	ARCHER [®]	BRUSHER [®]	KOORABUP [®]	MULGARA [®]	WINTAROO [®]	WINJARDIE [®]	BANNISTER [®]	CARROLUP [®]	YALLARA [®]
Septoria	MSS	MSS	MSS	MRMS#	S	MSS	SVS	MSS	MSS	MSS
Leaf Rust*	S	MR	MR	MRMS	RMR	S	SVS	MR/MRMS	VS	MR
Stem Rust*	S	MS	S	MSS	MR	MSS	-	MS	S	MSS
BYDV	MSp	MS	SVSp	MS	MSSp	MSS	MSS	MS	S	MSS
CCN Resistance	R	Sp	MR	MRMS	R	R	-	MR	S	R

EASTERN DISEASE RATINGS

VARIETY	KINGBALE [®]	ARCHER [®]	BRUSHER [®]	KOORABUP [®]	MULGARA [®]	WINTAROO [®]	CARROLUP [®]	YALLARA [®]
Septoria (NSW/VIC/WA rating)	MSS	-	MSS	MRMS#	S	MSS	MSS	MSS
Leaf Rust*	MRMS	MR	MS/MRMS/RMR	MSS	RMR/MS	MRMS/S	MS	S
Stem Rust	S	-	SVS	S	S	S	S	S
BYDV	MSp	-	SVSp	MS	MSSp	MSS	S	MSS
CCN Resistance	R	Sp	MR	MRMS	R	R	S	R
Stem Nematode Resistance	MR	-	S	S	R	MR	S	MS
Red Leather Leaf (NSW/VIC/WA rating)	S	-	MS	SVS	S	S	S	SVS

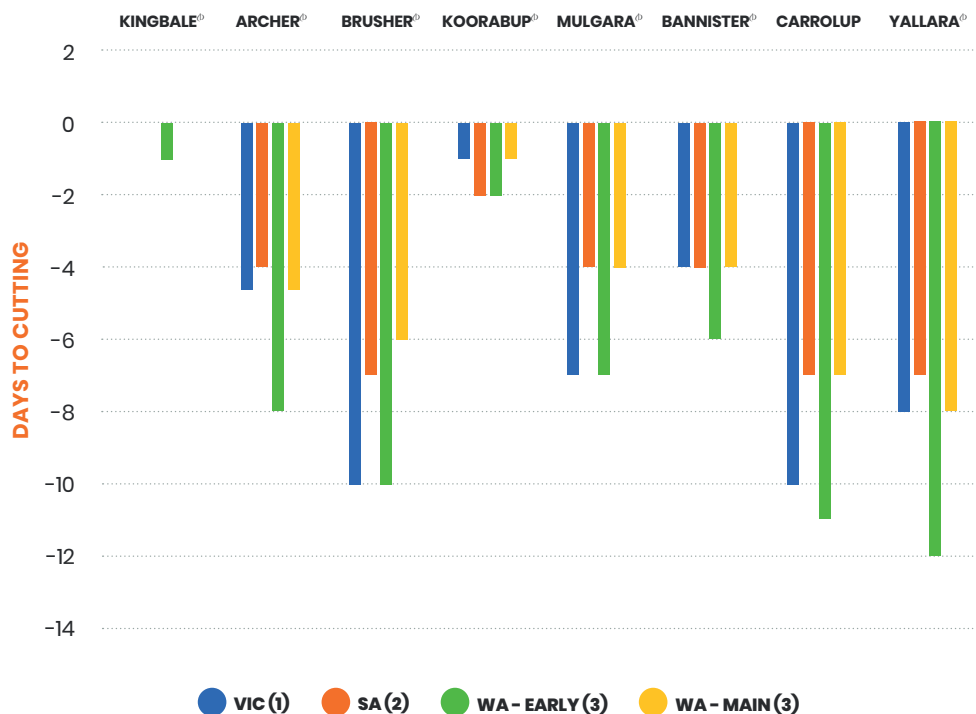
R = Resistant, RMR = Resistant to Moderately Resistant, MR = Moderately Resistant, MRMS = Moderately Resistant to Moderately Susceptible, MS = Moderately Susceptible, MSS = Moderately Susceptible to Susceptible, S = Susceptible, SVS = Susceptible to Very Susceptible, VS = Very Susceptible to alternate pathotypes, p = provisional rating. / Source: 2021 NVT Pathology consensus disease ratings. Pathotype differences. *WA rating. #East South rating. #ARCHER[®] disease rating source: InterGrain internal disease screenings.

HAY YIELD AND QUALITY COMPARISON

VARIETY	Hay yield (t/ha)	Digestibility (% dm)	Water-soluble carbohydrates (WSC) (% dm)	Acid detergent fibre (ADF) (% dm)	Neutral detergent fibre (NDF) (% dm)	Crude protein (CP) (% dm)
KINGBALE [®] **	9.1	64.2	25.7	31.6	52.0	7.2
ARCHER [®] **	9.4	64.3	24.6	31.9	52.2	7.7
BRUSHER [®]	9.1	65.8	26.2	31.1	51.5	7.7
KOORABUP [®]	8.9	64.3	25.3	31.4	52.0	7.4
MULGARA [®]	9.2	65.9	27.4	31.9	50.8	7.3
WINTAROO [®]	9.3	64.9	25.5	31.1	51.4	7.5
CARROLUP	8.7	64.3	25.9	31.5	51.2	7.6
YALLARA [®]	9.1	64.6	26.6	31.3	51.1	7.4

Source: 2017-21 InterGrain SA, Vic and WA MET (93 trials). *KINGBALE[®] and ARCHER[®] only present in 2021 (9 trials).

2021 HAY CUTTING DAY, RELATIVE TO WINTAROO[®]



GROUP 2 IMIDAZOLINONE HERBICIDE INFORMATION

InterGrain supports only the use of Australian Pesticides and Veterinary Medicines Authority (APVMA) approved Sentry herbicide. Where the grower uses Sentry[®] they must comply with all label recommendations. The Sentry[®] herbicide is a Group 2 (formally known as Group B) herbicide, ALS inhibitor. Sentry[®] provides control of many major grass and broadleaf weeds present in broadacre cropping systems. These weeds include brome grass, barley grass, wild oats, indian hedge mustard, muskweed, oats, wheat and barley (non-Clearfield[®]), wild radish, wild turnip and suppression of annual ryegrass. For the Sentry[®] label, plant back and Immediately Before Sowing (IBS) application details please refer to: nufarm.com/au/product/sentry/

SENTRY[®]

InterGrain strongly supports substantiable IMI Oat Production Systems and we recommend reviewing the stewardship guidelines suggested within the below guides to ensure longevity of the Sentry[®] herbicide: Nufarm IMCrops: <https://bit.ly/3xXmhT8>

SENTRY[®] REGISTRATION

Sentry[®] is currently registered for preplanting incorporation by seeding (IBS) for hay, forage, seed and grain (domestic feed market only)

production. Excess grain, seed and screenings produced from single gene IMI Oaten hay varieties, KINGBALE[®] and ARCHER[®] can be used for the domestic oaten grain feed markets and/or consumed on-farm.

Grain of these varieties cannot be delivered into bulk handling systems.



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PBR/EPR

KINGBALE[®] and ARCHER[®] is protected by Plant Breeder's Rights and is subject to an end point royalty of \$3.65/tonne GST Exclusive. The original breeding work was undertaken by GIA and the lines are being commercialised by InterGrain.

Seed Availability - KINGBALE[®] and ARCHER[®] seed is available for planting from your local reseller or Seedclub member.





intergrain.com

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