Heritageseeds



Description

Rust Resistance

Maturity

Significant Characteristics

Disease Resistance

Key Farmer Attributes

Product Fit

Breeding History

Heritage Seeds Product Position

Forage Oat

Complete resistance to all Australian pathotypes

Very late

- ✓ Complete resistance to all Australian pathotypes of leaf rust
- ✓ Semi erect growth habit early growth prior to initial grazing
- ✓ Large seed size
- ✓ Good seedling vigour
- ✓ Low growing point and therefore is more tolerant to heavy grazing
- ✓ Excellent growth during the cooler winter months.
- Moderately susceptible to stem rust in common with all other commercial varieties
- Moderately susceptible to bacterial blight and septoria leaf blight
- Moderately resistant to BYDV.
- Complete rust resistance
- Aladdin produces a very high forage yield under both dryland and irrigated conditions.
- Good recovery from grazing and will tolerate heavy grazing.
- The stem and leaf thickness of Aladdin make it suitable for oaten hay production.
- Late maturity helps to keep quality through the growing season which
 means a long window of opportunity for grazing if sufficient rainfall during
 the season will allow repeated grazings.

Aladdin is suitable for all forage oat growing areas in central Queensland, southern Queensland and northern New South Wales. The high leaf rust resistance of Aladdin means it is also suitable for planting in coastal and higher rainfall areas.

- Aladdin is a new forage oat cultivar selected by Bruce Winter from DEEDI forage oat breeding program at Leslie Research Centre Toowoomba.
- Aladdin has provisional PBR protection.
- Aladdin will replace Volta because it has the advantages of complete resistance to all Australian pathotypes of leaf rust
- Exceptional high forage yield under both dryland and irrigated conditions.
- Good recovery from grazing and excellent growth during the cooler winter months.
- The stem and leaf thickness of Aladdin make it suitable for oaten hay production.



Table 1

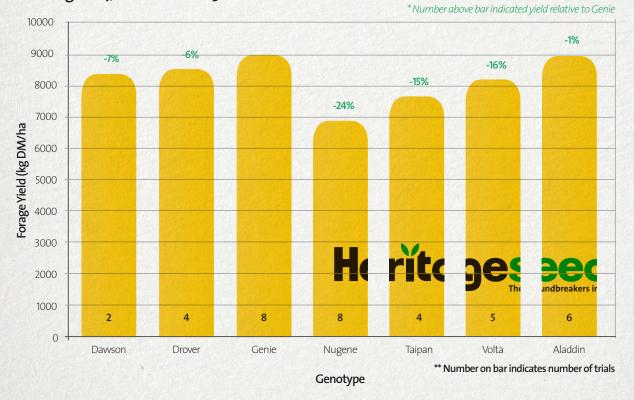
Comparison of Alladin with eight commercial forage oat cultivars for resistance of leaf rust and other agronomic characters in southern Queensland during 2008-2010.

Genotype	Resistance to Leaf Rust		Cuass the Habit	Speed To Initial	
	Glasshouse ¹	Field ²	Growth Habit	Grazing	Maturity
QA51 (Aladdin)	R (o)	0	Semi-erect	Quick	Late
Genie	S (;2,3)	10MR	Erect	Quick	Late
Volta	S (3-4)	50S	Semi-erect	Intermediate	Intermediate
Algerian	S (3-4)	70S	Semi-prostrate	Intermediate	Intermediate
Drover	R (;1)	0	Semi-prostrate	Intermediate	Intermediate
Taipan	S (3-4)	6oS	Semi-erect	Quick	Late
Warrego	S (3-4)	40S	Erect	Quick	Intermediate
Moola	S (4)	705	Erect	Quick	Quick

¹ Glasshouse leaf rust rating is based on inoculation with a bulk of Australian pathotypes, and uses standard Australian Cereal Rust Control Program rating system.

Figure 1

Forage yield (total dry weight in kg/ha) of ten forage oat cultivars at Kingsthorpe and Gatton during 2007, 2008 and 2009.



Bruce Winter Senior Plant Breeder (Forage Oats) Crop and Food Science DEEDI



² Field leaf rust rating is based on the observed level of infection under epiphytotic conditions, where o = no infection and go = complete infection, and the plant reaction to infection where 5 = susceptible and MR = moderatley resistant.