National Oat Breeding Program

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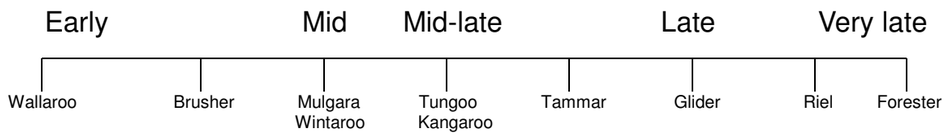
Hay Oats



MulgaraΦ
- Wintaroo replacement with improved disease resistance and hay quality
- Good grain yield and quality with high protein and low screenings

TungooΦ
- Kangaroo replacement with improved hay quality
- Broad spectrum of disease resistance
- Only variety available with red leather leaf resistance

TammarΦ
- Flexibility in cutting times with good hay quality (digestibility/ADF)
- Broad spectrum of disease resistance and good grain yield

ForesterΦ
- Suited to high rainfall and irrigation
- Excellent early vigour and foliar disease resistance

For more information please go to www.aexco.com.au

DISEASE PROFILE

Variety	Stem rust[1]	Leaf rust[1]	BYDV[1]	Septoria[1]	Bacterial blight[1]	CCN R[1]	CCN T[2]	Stem Nematode R[1]	Stem Nematode T[2]	Red leather leaf[1]	Stem diameter[3]
Brusher	MS-S	MR-MS	MS	MS	MR-MS	R	MI	MS	I	MR-MS	M
Forester	R-S	MR-MS	MR-S	MR	MS-S	MS	MI	S	I	R-MR	MT
Kangaroo	MS-S	MS	MR-S	MR-MS	MR-MS	R	MT	MS	MI	MS	MF
Mulgara	MS-S	MR	MS	MS	MR	R	MT	R	MT	MS	M
Tammar	MR-S	MR	MS	MR	MR	MR	MT	R	MT	R-MS	MF
Tungoo	MS-S	MR	MR-MS	MR	MR	R	MT	R	MT	R	M
Wintaroo	S	MS	MR-MS	MR-MS	MR-MS	R	MT	MR	MT	MS	M

[1] Disease reactions where R= resistant, MR=moderately resistant, MS=moderately susceptible, S= susceptible, VS=very susceptible
[2] T=tolerant, MT= moderately tolerant, MI=moderately intolerant, I=intolerant
[3] F=fine, MF=moderately fine, MT=moderately thick, T=thick, VT=very thick

(Rust and BYDV reactions may vary in different regions and with different seasonal conditions depending on the prevalent pathotype/serotype. Monitoring your oat crop is therefore essential.)

AEXCO · RIRDC · SAGIT · Government of South Australia · SARDI Research and Development

An exciting future for oaten hay

Denis McGrath
Seedvise Pty Ltd

A little over 10 years ago industry meetings were convened between growers and exporters of oaten hay to discuss the future plant breeding needs of the oaten hay industry.

As a consequence of this meeting the Australian Exporters Company (AEXCO) was formed by the major hay exporting companies of Australia to implement a new model to commercialise oat hay varieties.

One of the key drivers of the new model was to ensure Australia's major oat breeding program Oat Australia Technology (OAT), previously called the National Oat Breeding Program (NOBP), had the necessary industry input and resources to deliver new and improved varieties for the hay industry.

Since 2003 AEXCO has released seven oat hay varieties: Wintaroo, Brusher, Kangaroo, Mulgara, Tungoo, Forester and Tammar. These varieties now hold a significant market share of the oaten hay produced in Australia.

The 'AEXCO' commercialisation model started to provide funds to OAT six years ago and has subsequently allowed the additional expansion of the OAT breeding activities. In particular AEXCO funding has allowed OAT to purchase essential equipment to improve their breeding efficiency and to establish earlier generation trial cutting regimes for hay yield and quality.

AEXCO shareholder representatives have also assisted OAT develop NIR calibrations to predict hay quality. OAT uses these NIR calibrations, in conjunction with colour and stem diameter measurements, to accelerate the selection of lines with improved hay quality.

AEXCO shareholders are very excited about the potential of a number of new oat hay lines in the late stage of breeding process. The company looks forward to releasing a number of new varieties in the next few years. These new OAT varieties will play an important role in securing the Australian hay industry's future by delivering hay growers superior gross margins in comparison with other crops in their rotations.

OAT's future, with AEXCO's model and increased funding from the Rural Industries Research and Development Corporation (RIRDC) and the Grains Research and Development Corporation (GRDC) is now very positive. Importantly, for the Australian industry, OAT is now the only oat breeding program in the world breeding oat varieties specifically for hay production. The OAT hay breeding program will play a major role of differentiating Australia's hay from other competing hay exporting countries of the world.

For further information visit www.aexco.com.au

OAT is the only plant breeding program in the world focussed on oaten hay varieties. The collaboration between industry and research is empowering export hay producers to optimise production and make a premium product, and encouraging exporters to develop markets for a bright future.