Heritageseeds

ARNIE ANNUAL RYEGRASS

500mm+

pH 4.8-8.0

Most Soil Types

PBR

KEY FEATURES

- Late maturity to capture late-season growth
- High total forage yield
- Good winter and spring production
- Upright growth habit for making excellent quality hay or silage
- High quality forage for livestock

DESCRIPTION

Arnie is a late maturing diploid annual ryegrass selected for strong early yield, good spring growth and rust resistance. It is densely tillered with fine leaves and an upright growth habit. Arnie has undergone more than 6 years of evaluation in Australia and has proven to be highly adaptable across a diverse range of environments. It has shown fast establishment and strong winter, late spring and total yields in trials throughout Victoria, New South Wales and South East Queensland.

GROWTH CHARACTERISTICS

Arnie has fine leaves and has an erect growth habit and is densely tillered for an annual ryegrass. Due to the high tiller density and high dry matter content typical of diploid varieties, Arnie will offer more available feed at the same growth height than other varieties, especially tetraploid varieties which have lower dry matter content and a more open sward.

MATURITY

Arnie is late flowering for an annual ryegrass. This late maturity is key to Arnie's late spring production and quality.

RUST RESISTANCE

Arnie has shown similar levels of rust resistance to other commercially available varieties in screening at Gatton. It should be remembered that this screening is conducted under extremely high rust load in conditions that promote rust infection.

FEED QUALITY

Despite the belief that tetraploid ryegrasses have higher feed quality than diploids, there is minimal difference in perennial ryegrasses and no difference in short term ryegrasses. This was evident when comparing Hulk to tetraploid varieties such as Feast II and is also the case with Arnie compared to tetraploid annuals. Note that Arnie maintains high feed quality into late spring despite its upright growth habit.

Feed quality results from early and late spring, Howlong 2009

Variety	Early spring (11th September)			Late spring (6th November)		
	ME (MJ/kg DM)	Protein (% DM)	NDF (% DM)	ME (MJ/kg DM)	Protein (% DM)	NDF (% DM)
Arnie	**11.9**	**17.0**	**46.1**	**11.4**	**10.8**	**46.1**
Maximus	11.6	18.4	44.7	10.9	12.1	49.0
Winterstar II	11.6	16.8	46.3	11.1	11.3	48.5
T-Rex	11.7	15.0	44.4	11.1	10.4	47.5

TRIAL RESULTS SUMMARY

Arnie was first evaluated in Australia in 2004 and has continued to show consistently strong results in more than 30 trials over the past 7 years.

2006 Average results relative to the trial mean*

Entry	Autumn (%)	Winter (%)	E Spring (%)	L Spring (%)	Total (%)
Tetila	124	105	103	108	105
T-rex	108	97	104	97	101
Maximus	114	105	108	111	108
Winterstar II	126	97	96	94	98
Arnie	**101**	**116**	**112**	**102**	**110**
Griffin	89	107	97	96	100
Missile	86	93	90	102	94

**Combined 2006 results for trial sites at Howlong, Cobden, Heyfield and Keiwa (100% is the trial mean).*

2008 Average results relative to trial mean*

Entry	Winter (%)	E Spring (%)	L Spring (%)	Total (%)
Tetila	92	102	92	96
Sprinter	110	102	97	103
T-Rex	102	99	94	98
Maximus	114	102	91	104
Winterstar I I	103	97	103	101
Arnie	**102**	**103**	**100**	**101**
Griffin	97	98	79	92
Sultan	102	99	104	100

**Combined 2008 results for trial sites at Howlong, Glenormiston, Mooroopna, Gooloogong, Kempsey, Hunter Valley and Keiwa (100% is the trial mean).*

2009 Average results relative to trial mean*

Entry	Autumn (%)	Winter (%)	E Spring (%)	L Spring (%)	Total (%)
Tetila	91	96	103	88	97
Adrenalin	105	96	100	99	98
Sprinter	116	104	105	90	102
T-Rex	107	107	105	96	104
Maximus	110	110	109	97	106
Winterstar II	107	103	103	100	102
Arnie	**113**	**110**	**106**	**102**	**106**
Sultan	82	106	100	97	100

**Combined 2009 results for trial sites at Howlong, Glenormiston, Mooroopna, Maffra, Dubbo, Kempsey, Wauchope, Denmanand Gatton (100% is the trial mean).*

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