

NORTHERN VICTORIA FORAGE VALUE INDEX

2020 UPDATE



The Forage Value Index (FVI) is a tool that helps Australian dairy farmers and their advisors to make more informed decisions when selecting perennial ryegrass cultivars. It provides an accurate, reliable and independent assessment of the potential economic value of perennial ryegrass cultivars in different dairy regions of southeast Australia.

The FVI is calculated by multiplying the Performance Value of each cultivar (i.e. total kilograms dry matter produced per hectare per season) by its Economic Value (i.e. the estimated value of this extra production per season).

Performance Values are determined by industry assessed trial data. To be included in the FVI database, each cultivar must have data from at least three, three-year trials that have been conducted using strict industry protocols. The Performance Value is expressed as a percentage change relative to 'Victorian' cultivar of perennial ryegrass.

Economic Values are determined by assessing the economic value of extra pasture grown during the respective seasons through an economic analysis of 'case study' farms in the four different dairying regions in southeast Australia.

The FVI for each cultivar is expressed as a colour, whereby those cultivars with the same colour are not significantly different to each other. The green colour indicates those cultivars that have performed the best in each region and have the most potential to contribute to operating profit.

The FVI information allows users to rank cultivars according to their region and user nominated attributes (e.g. seasonal yields, ploidy, heading date, endophyte). The number of trials in which the cultivar has been tested is also included in the table.

The accompanying tables of the performance of the cultivars during the various seasons are of particular importance to dairy farmers, depending upon their farming system and calving pattern. For example, dairy farmers that calve in the autumn would favour those cultivars that have a high performance value for autumn and winter as they would value more highly greater winter growth of their pastures.

Northern Victoria: Forage Value Index 2020

Cultivar	FVI North Vic	Autumn	Winter	Early Spring	Late Spring	Summer	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Base AR37	152	111	119	98	99	113	AR37	Tetraploid	Late	PGG Wrightson Seeds	12
Bealey NEA2	134	111	116	98	99	113	NEA2	Tetraploid	Very Late	Barenbrug	13
Kidman AR1	116	109	113	100	98	110	AR1	Diploid	Early	Barenbrug	8
Impact2 NEA2	106	107	113	99	99	111	NEA2	Diploid	Late	Barenbrug	12
SF Hustle AR1	103	107	113	99	99	110	AR1	Diploid	Mid	Seedforce	6
Halo AR37	101	109	115	96	97	113	AR37	Tetraploid	Late	Agricom	12
Shogun NEA2	100	105	112	100	98	112	NEA2	Tetraploid	Late	Barenbrug	6
Fitzroy	97	106	112	102	97	108	SE	Diploid	Early	PGG Wrightson Seeds	4
One50	96	107	113	98	97	111	SE	Diploid	Late	Agricom	4
Arrow AR1	86	105	109	99	99	110	AR1	Diploid	Mid	Barenbrug	9
BanquetII Endo5	85	107	112	96	98	111	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
Reward Endo5	84	107	112	97	98	110	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	5
One50 AR37	83	107	113	98	97	110	AR37	Diploid	Late	Agricom	8
Expo AR37	81	107	112	97	98	109	AR37	Diploid	Late	PGG Wrightson Seeds	5
Ansa AR1	81	106	111	98	98	110	AR1	Diploid	Mid-Late	Seed Distributors	7
Jackal AR1	80	107	111	98	98	109	AR1	Diploid	Mid	AGF Seeds	6
Excess AR37	78	108	112	97	97	110	AR37	Diploid	Mid	PGG Wrightson Seeds	6
Prospect AR37	78	106	113	98	97	109	AR37	Diploid	Late	Agricom	7
Matrix - Festulolium	77	107	112	97	97	111	Nil	Diploid	Late	Cropmark	7
One50 AR1	76	106	113	97	97	111	AR1	Diploid	Late	Agricom	11
Platinum	76	107	112	97	98	109	Low	Diploid	Late	Valley Seeds	5
AusVic	63	105	109	98	98	109	Low	Diploid	Mid	Vic Seeds	3
Revolution - Festulolium	62	105	111	97	98	109	AR1	Diploid	Late	Seedforce	4
Endure	60	105	110	98	98	108	SE	Tetraploid	Mid	Vic Seeds	5
Avalon AR1	48	105	110	96	99	106	AR1	Diploid	Mid	Vic Seeds	8
Helix - Festulolium	36	103	108	97	97	108	AR1	Diploid	Mid	Cropmark	4
Jeta AR1	35	104	102	98	99	109	AR1	Tetraploid	Mid	Pasture Genetics	6
Ultra - Festulolium	31	104	108	96	97	109	AR1	Diploid	Late	Notman Seeds	6
Victorian	0	100	100	100	100	100	SE	Diploid	Early	Many	12

Legend

Heading	Description
Cultivar	A plant variety that has been produced by selective breeding. Cultivars are as listed as on the Australian Seed Federation Pasture Seed Database
Colour bars	Cultivars with the same colour are not significantly different from each other. Select from any of the cultivars in the green bars.
FVI	The rating is based on the outcome of economic and performance values for each cultivar.
Seasonal performance	A performance value is based on the difference in dry matter production between a cultivar's seasonal performance and that of Victorian ryegrass. This is a percentage ranking – percent better or worse than Victorian ryegrass.
Autumn	March/April/May
Winter	June/July
Early spring	August/September
Late spring	October/November
Summer	December/January/February
Endophyte	A fungus which protects plants from a range of insect pests. Different types of endophytes affect persistence, dry matter production, insect pest species and nutritive value in different ways.
Ploidy	The number of chromosomes per cell in the plant. A diploid ryegrass has two, while a tetraploid has four.
Heading date	The date when 50% of the plants of a variety have emerged seed heads in a typical year. Heading dates are listed on the Australian Seed Federation Pasture Seed Database.
Marketer	The company marketing the cultivar.
No. of trials	To be included in the Forage Value Index database, each cultivar must have data from at least three, three-year trials.

Northern Victoria early spring seasonal performance

Cultivar	Early Spring	Late Spring	Summer	Autumn	Winter	FVI North Vic	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Fitzroy	102	97	108	106	112	97	SE	Diploid	Early	PGG Wrightson Seeds	4
Kidman AR1	100	98	110	109	113	116	AR1	Diploid	Early	Barenbrug	8
Victorian	100	100	100	100	100	0	SE	Diploid	Early	Many	12
Shogun NEA2	100	98	112	105	112	100	NEA2	Tetraploid	Late	Barenbrug	6
Arrow AR1	99	99	110	105	109	86	AR1	Diploid	Mid	Barenbrug	9
Impact2 NEA2	99	99	111	107	113	106	NEA2	Diploid	Late	Barenbrug	12
SF Hustle AR1	99	99	110	107	113	103	AR1	Diploid	Mid	Seedforce	6
Prospect AR37	98	97	109	106	113	78	AR37	Diploid	Late	Agricom	7
Ansa AR1	98	98	110	106	111	81	AR1	Diploid	Mid-Late	Seed Distributors	7
One50	98	97	111	107	113	96	SE	Diploid	Late	Agricom	4
Base AR37	98	99	113	111	119	152	AR37	Tetraploid	Late	PGG Wrightson Seeds	12
Jeta AR1	98	99	109	104	102	35	AR1	Tetraploid	Mid	Pasture Genetics	6
Jackal AR1	98	98	109	107	111	80	AR1	Diploid	Mid	AGF Seeds	6
AusVic	98	98	109	105	109	63	Low	Diploid	Mid	Vic Seeds	3
Bealey NEA2	98	99	113	111	116	134	NEA2	Tetraploid	Very Late	Barenbrug	13
One50 AR37	98	97	110	107	113	83	AR37	Diploid	Late	Agricom	8
Endure	98	98	108	105	110	60	SE	Tetraploid	Mid	Vic Seeds	5
Expo AR37	97	98	109	107	112	81	AR37	Diploid	Late	PGG Wrightson Seeds	5
Helix - Festulolium	97	97	108	103	108	36	AR1	Diploid	Mid	Cropmark	4
One50 AR1	97	97	111	106	113	76	AR1	Diploid	Late	Agricom	11
Platinum	97	98	109	107	112	76	Low	Diploid	Late	Valley Seeds	5
Matrix - Festulolium	97	97	111	107	112	77	Nil	Diploid	Late	Cropmark	7
Reward Endo5	97	98	110	107	112	84	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	5
Excess AR37	97	97	110	108	112	78	AR37	Diploid	Mid	PGG Wrightson Seeds	6
Revolution - Festulolium	97	98	109	105	111	62	AR1	Diploid	Late	Seedforce	4
BanquetII Endo5	96	98	111	107	112	85	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
Avalon AR1	96	99	106	105	110	48	AR1	Diploid	Mid	Vic Seeds	8
Ultra - Festulolium	96	97	109	104	108	31	AR1	Diploid	Late	Notman Seeds	6
Halo AR37	96	97	113	109	115	101	AR37	Tetraploid	Late	Agricom	12

Northern Victoria late spring seasonal performance

Cultivar	Late Spring	Summer	Autumn	Winter	Early Spring	FVI North Vic	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Victorian	100	100	100	100	100	0	SE	Diploid	Early	Many	12
Arrow AR1	99	110	105	109	99	86	AR1	Diploid	Mid	Barenbrug	9
Base AR37	99	113	111	119	98	152	AR37	Tetraploid	Late	PGG Wrightson Seeds	12
Impact2 NEA2	99	111	107	113	99	106	NEA2	Diploid	Late	Barenbrug	12
Avalon AR1	99	106	105	110	96	48	AR1	Diploid	Mid	Vic Seeds	8
Bealey NEA2	99	113	111	116	98	134	NEA2	Tetraploid	Very Late	Barenbrug	13
Jeta AR1	99	109	104	102	98	35	AR1	Tetraploid	Mid	Pasture Genetics	6
SF Hustle AR1	99	110	107	113	99	103	AR1	Diploid	Mid	Seedforce	6
Reward Endo5	98	110	107	112	97	84	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	5
Kidman AR1	98	110	109	113	100	116	AR1	Diploid	Early	Barenbrug	8
AusVic	98	109	105	109	98	63	Low	Diploid	Mid	Vic Seeds	3
BanquetII Endo5	98	111	107	112	96	85	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
Expo AR37	98	109	107	112	97	81	AR37	Diploid	Late	PGG Wrightson Seeds	5
Platinum	98	109	107	112	97	76	Low	Diploid	Late	Valley Seeds	5
Jackal AR1	98	109	107	111	98	80	AR1	Diploid	Mid	AGF Seeds	6
Ansa AR1	98	110	106	111	98	81	AR1	Diploid	Mid-Late	Seed Distributors	7
Shogun NEA2	98	112	105	112	100	100	NEA2	Tetraploid	Late	Barenbrug	6
Endure	98	108	105	110	98	60	SE	Tetraploid	Mid	Vic Seeds	5
Revolution - Festulolium	98	109	105	111	97	62	AR1	Diploid	Late	Seedforce	4
One50	97	111	107	113	98	96	SE	Diploid	Late	Agricom	4
Excess AR37	97	110	108	112	97	78	AR37	Diploid	Mid	PGG Wrightson Seeds	6
Fitzroy	97	108	106	112	102	97	SE	Diploid	Early	PGG Wrightson Seeds	4
Helix - Festulolium	97	108	103	108	97	36	AR1	Diploid	Mid	Cropmark	4
One50 AR37	97	110	107	113	98	83	AR37	Diploid	Late	Agricom	8
Matrix - Festulolium	97	111	107	112	97	77	Nil	Diploid	Late	Cropmark	7
Halo AR37	97	113	109	115	96	101	AR37	Tetraploid	Late	Agricom	12
One50 AR1	97	111	106	113	97	76	AR1	Diploid	Late	Agricom	11
Prospect AR37	97	109	106	113	98	78	AR37	Diploid	Late	Agricom	7
Ultra - Festulolium	97	109	104	108	96	31	AR1	Diploid	Late	Notman Seeds	6

Northern Victoria summer seasonal performance

Cultivar	Summer	Autumn	Winter	E.Spring	L.Spring	FVI North Vic	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Bealey NEA2	113	111	116	98	99	134	NEA2	Tetraploid	Very Late	Barenbrug	13
Halo AR37	113	109	115	96	97	101	AR37	Tetraploid	Late	Agricom	12
Base AR37	113	111	119	98	99	152	AR37	Tetraploid	Late	PGG Wrightson Seeds	12
Shogun NEA2	112	105	112	100	98	100	NEA2	Tetraploid	Late	Barenbrug	6
One50	111	107	113	98	97	96	SE	Diploid	Late	Agricom	4
BanquetII Endo5	111	107	112	96	98	85	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
Impact2 NEA2	111	107	113	99	99	106	NEA2	Diploid	Late	Barenbrug	12
Matrix - Festulolium	111	107	112	97	97	77	Nil	Diploid	Late	Cropmark	7
One50 AR1	111	106	113	97	97	76	AR1	Diploid	Late	Agricom	11
SF Hustle AR1	110	107	113	99	99	103	AR1	Diploid	Mid	Seedforce	6
Reward Endo5	110	107	112	97	98	84	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	5
Kidman AR1	110	109	113	100	98	116	AR1	Diploid	Early	Barenbrug	8
Ansa AR1	110	106	111	98	98	81	AR1	Diploid	Mid-Late	Seed Distributors	7
Arrow AR1	110	105	109	99	99	86	AR1	Diploid	Mid	Barenbrug	9
Excess AR37	110	108	112	97	97	78	AR37	Diploid	Mid	PGG Wrightson Seeds	6
One50 AR37	110	107	113	98	97	83	AR37	Diploid	Late	Agricom	8
Prospect AR37	109	106	113	98	97	78	AR37	Diploid	Late	Agricom	7
Revolution - Festulolium	109	105	111	97	98	62	AR1	Diploid	Late	Seedforce	4
Jackal AR1	109	107	111	98	98	80	AR1	Diploid	Mid	AGF Seeds	6
Expo AR37	109	107	112	97	98	81	AR37	Diploid	Late	PGG Wrightson Seeds	5
Jeta AR1	109	104	102	98	99	35	AR1	Tetraploid	Mid	Pasture Genetics	6
Platinum	109	107	112	97	98	76	Low	Diploid	Late	Valley Seeds	5
Ultra - Festulolium	109	104	108	96	97	31	AR1	Diploid	Late	Notman Seeds	6
AusVic	109	105	109	98	98	63	Low	Diploid	Mid	Vic Seeds	3
Endure	108	105	110	98	98	60	SE	Tetraploid	Mid	Vic Seeds	5
Fitzroy	108	106	112	102	97	97	SE	Diploid	Early	PGG Wrightson Seeds	4
Helix - Festulolium	108	103	108	97	97	36	AR1	Diploid	Mid	Cropmark	4
Avalon AR1	106	105	110	96	99	48	AR1	Diploid	Mid	Vic Seeds	8
Victorian	100	100	100	100	100	0	SE	Diploid	Early	Many	12

Northern Victoria autumn seasonal performance

Cultivar	Autumn	Winter	Early Spring	Late Spring	Summer	FVI North Vic	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Base AR37	111	119	98	99	113	152	AR37	Tetraploid	Late	PGG Wrightson Seeds	12
Bealey NEA2	111	116	98	99	113	134	NEA2	Tetraploid	Very Late	Barenbrug	13
Halo AR37	109	115	96	97	113	101	AR37	Tetraploid	Late	Agricom	12
Kidman AR1	109	113	100	98	110	116	AR1	Diploid	Early	Barenbrug	8
Excess AR37	108	112	97	97	110	78	AR37	Diploid	Mid	PGG Wrightson Seeds	6
SF Hustle AR1	107	113	99	99	110	103	AR1	Diploid	Mid	Seedforce	6
One50 AR37	107	113	98	97	110	83	AR37	Diploid	Late	Agricom	8
Reward Endo5	107	112	97	98	110	84	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	5
One50	107	113	98	97	111	96	SE	Diploid	Late	Agricom	4
BanquetII Endo5	107	112	96	98	111	85	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
Jackal AR1	107	111	98	98	109	80	AR1	Diploid	Mid	AGF Seeds	6
Impact2 NEA2	107	113	99	99	111	106	NEA2	Diploid	Late	Barenbrug	12
Matrix - Festulolium	107	112	97	97	111	77	Nil	Diploid	Late	Cropmark	7
Expo AR37	107	112	97	98	109	81	AR37	Diploid	Late	PGG Wrightson Seeds	5
Platinum	107	112	97	98	109	76	Low	Diploid	Late	Valley Seeds	5
One50 AR1	106	113	97	97	111	76	AR1	Diploid	Late	Agricom	11
Prospect AR37	106	113	98	97	109	78	AR37	Diploid	Late	Agricom	7
Ansa AR1	106	111	98	98	110	81	AR1	Diploid	Mid-Late	Seed Distributors	7
Fitzroy	106	112	102	97	108	97	SE	Diploid	Early	PGG Wrightson Seeds	4
AusVic	105	109	98	98	109	63	Low	Diploid	Mid	Vic Seeds	3
Endure	105	110	98	98	108	60	SE	Tetraploid	Mid	Vic Seeds	5
Arrow AR1	105	109	99	99	110	86	AR1	Diploid	Mid	Barenbrug	9
Shogun NEA2	105	112	100	98	112	100	NEA2	Tetraploid	Late	Barenbrug	6
Revolution - Festulolium	105	111	97	98	109	62	AR1	Diploid	Late	Seedforce	4
Avalon AR1	105	110	96	99	106	48	AR1	Diploid	Mid	Vic Seeds	8
Ultra - Festulolium	104	108	96	97	109	31	AR1	Diploid	Late	Notman Seeds	6
Jeta AR1	104	102	98	99	109	35	AR1	Tetraploid	Mid	Pasture Genetics	6
Helix - Festulolium	103	108	97	97	108	36	AR1	Diploid	Mid	Cropmark	4
Victorian	100	100	100	100	100	0	SE	Diploid	Early	Many	12

Northern Victoria winter seasonal performance

Cultivar	Winter	Early Spring	Late Spring	Summer	Autumn	FVI North Vic	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Base AR37	119	98	99	113	111	152	AR37	Tetraploid	Late	PGG Wrightson Seeds	12
Bealey NEA2	116	98	99	113	111	134	NEA2	Tetraploid	Very Late	Barenbrug	13
Halo AR37	115	96	97	113	109	101	AR37	Tetraploid	Late	Agricom	12
One50	113	98	97	111	107	96	SE	Diploid	Late	Agricom	4
SF Hustle AR1	113	99	99	110	107	103	AR1	Diploid	Mid	Seedforce	6
Kidman AR1	113	100	98	110	109	116	AR1	Diploid	Early	Barenbrug	8
One50 AR37	113	98	97	110	107	83	AR37	Diploid	Late	Agricom	8
Impact2 NEA2	113	99	99	111	107	106	NEA2	Diploid	Late	Barenbrug	12
Prospect AR37	113	98	97	109	106	78	AR37	Diploid	Late	Agricom	7
One50 AR1	113	97	97	111	106	76	AR1	Diploid	Late	Agricom	11
Expo AR37	112	97	98	109	107	81	AR37	Diploid	Late	PGG Wrightson Seeds	5
Shogun NEA2	112	100	98	112	105	100	NEA2	Tetraploid	Late	Barenbrug	6
Excess AR37	112	97	97	110	108	78	AR37	Diploid	Mid	PGG Wrightson Seeds	6
BanquetII Endo5	112	96	98	111	107	85	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
Platinum	112	97	98	109	107	76	Low	Diploid	Late	Valley Seeds	5
Matrix - Festulolium	112	97	97	111	107	77	Nil	Diploid	Late	Cropmark	7
Reward Endo5	112	97	98	110	107	84	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	5
Fitzroy	112	102	97	108	106	97	SE	Diploid	Early	PGG Wrightson Seeds	4
Jackal AR1	111	98	98	109	107	80	AR1	Diploid	Mid	AGF Seeds	6
Revolution - Festulolium	111	97	98	109	105	62	AR1	Diploid	Late	Seedforce	4
Ansa AR1	111	98	98	110	106	81	AR1	Diploid	Mid-Late	Seed Distributors	7
Avalon AR1	110	96	99	106	105	48	AR1	Diploid	Mid	Vic Seeds	8
Endure	110	98	98	108	105	60	SE	Tetraploid	Mid	Vic Seeds	5
Arrow AR1	109	99	99	110	105	86	AR1	Diploid	Mid	Barenbrug	9
AusVic	109	98	98	109	105	63	Low	Diploid	Mid	Vic Seeds	3
Helix - Festulolium	108	97	97	108	103	36	AR1	Diploid	Mid	Cropmark	4
Ultra - Festulolium	108	96	97	109	104	31	AR1	Diploid	Late	Notman Seeds	6
Jeta AR1	102	98	99	109	104	35	AR1	Tetraploid	Mid	Pasture Genetics	6
Victorian	100	100	100	100	100	0	SE	Diploid	Early	Many	12

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