

SOUTH WEST 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.

South West Victoria: Forage Value Index 2020

Cultivar	FVI SW Vic	Autumn	Winter	Early Spring	Late Spring	Summer	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Base AR37	181	111	119	98	99	113	AR37	Tetraploid	Late	PGG Wrightson Seeds	12
Bealey NEA2	166	111	116	98	99	113	NEA2	Tetraploid	Very Late	Barenbrug	13
Halo AR37	140	109	115	96	97	113	AR37	Tetraploid	Late	Agricom	12
Kidman AR1	136	109	113	100	98	110	AR1	Diploid	Early	Barenbrug	8
Impact2 NEA2	131	107	113	99	99	111	NEA2	Diploid	Late	Barenbrug	12
SF Hustle AR1	128	107	113	99	99	110	AR1	Diploid	Mid	Seedforce	6
One50	125	107	113	98	97	111	SE	Diploid	Late	Agricom	4
Shogun NEA2	125	105	112	100	98	112	NEA2	Tetraploid	Late	Barenbrug	6
BanquetII Endo5	118	107	112	96	98	111	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
Reward Endo5	113	107	112	97	98	110	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	5
One50 AR37	112	107	113	98	97	110	AR37	Diploid	Late	Agricom	8
Fitzroy	110	106	112	102	97	108	SE	Diploid	Early	PGG Wrightson Seeds	4
Matrix - Festulolium	109	107	112	97	97	111	Nil	Diploid	Late	Cropmark	7
Excess AR37	109	108	112	97	97	110	AR37	Diploid	Mid	PGG Wrightson Seeds	6
One50 AR1	108	106	113	97	97	111	AR1	Diploid	Late	Agricom	11
Expo AR37	108	107	112	97	98	109	AR37	Diploid	Late	PGG Wrightson Seeds	5
Ansa AR1	106	106	111	98	98	110	AR1	Diploid	Mid-Late	Seed Distributors	7
Arrow AR1	106	105	109	99	99	110	AR1	Diploid	Mid	Barenbrug	9
Jackal AR1	105	107	111	98	98	109	AR1	Diploid	Mid	AGF Seeds	6
Prospect AR37	104	106	113	98	97	109	AR37	Diploid	Late	Agricom	7
Platinum	103	107	112	97	98	109	Low	Diploid	Late	Valley Seeds	5
Revolution - Festulolium	91	105	111	97	98	109	AR1	Diploid	Late	Cropmark	4
AusVic	88	105	109	98	98	109	Low	Diploid	Mid	Vic Seeds	3
Endure	85	105	110	98	98	108	SE	Tetraploid	Mid	Vic Seeds	5
Avalon AR1	70	105	110	96	99	106	AR1	Diploid	Mid	Vic Seeds	8
Ultra - Festulolium	63	104	108	96	97	109	AR1	Diploid	Late		6
Helix - Festulolium	62	103	108	97	97	108	AR1	Diploid	Mid	Cropmark	4
Jeta AR1	59	104	102	98	99	109	AR1	Tetraploid	Mid	Pasture Genetics	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.

South West Victoria early spring seasonal performance

Cultivar	Early Spring	Late Spring	Summer	Autumn	Winter	FVI SW Vic	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Fitzroy	102	97	108	106	112	110	SE	Diploid	Early	PGG Wrightson Seeds	4
Kidman AR1	100	98	110	109	113	136	AR1	Diploid	Early	Barenbrug	8
Victorian	100	100	100	100	100	0	SE	Diploid	Early	Many	12
Shogun NEA2	100	98	112	105	112	125	NEA2	Tetraploid	Late	Barenbrug	6
Arrow AR1	99	99	110	105	109	106	AR1	Diploid	Mid	Barenbrug	9
Impact2 NEA2	99	99	111	107	113	131	NEA2	Diploid	Late	Barenbrug	12
SF Hustle AR1	99	99	110	107	113	128	AR1	Diploid	Mid	Seedforce	6
Prospect AR37	98	97	109	106	113	104	AR37	Diploid	Late	Agricom	7
Ansa AR1	98	98	110	106	111	106	AR1	Diploid	Mid-Late	Seed Distributors	7
One50	98	97	111	107	113	125	SE	Diploid	Late	Agricom	4
Base AR37	98	99	113	111	119	181	AR37	Tetraploid	Late	PGG Wrightson Seeds	12
Jeta AR1	98	99	109	104	102	59	AR1	Tetraploid	Mid	Pasture Genetics	6
Jackal AR1	98	98	109	107	111	105	AR1	Diploid	Mid	AGF Seeds	6
AusVic	98	98	109	105	109	88	Low	Diploid	Mid	Vic Seeds	3
Bealey NEA2	98	99	113	111	116	166	NEA2	Tetraploid	Very Late	Barenbrug	13
One50 AR37	98	97	110	107	113	112	AR37	Diploid	Late	Agricom	8
Endure	98	98	108	105	110	85	SE	Tetraploid	Mid	Vic Seeds	5
Expo AR37	97	98	109	107	112	108	AR37	Diploid	Late	PGG Wrightson Seeds	5
Helix - Festulolium	97	97	108	103	108	62	AR1	Diploid	Mid	Cropmark	4
One50 AR1	97	97	111	106	113	108	AR1	Diploid	Late	Agricom	11
Platinum	97	98	109	107	112	103	Low	Diploid	Late	Valley Seeds	5
Matrix - Festulolium	97	97	111	107	112	109	Nil	Diploid	Late	Cropmark	7
Reward Endo5	97	98	110	107	112	113	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	5
Excess AR37	97	97	110	108	112	109	AR37	Diploid	Mid	PGG Wrightson Seeds	6
Revolution - Festulolium	97	98	109	105	111	91	AR1	Diploid	Late	Cropmark	4
BanquetII Endo5	96	98	111	107	112	118	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
Avalon AR1	96	99	106	105	110	70	AR1	Diploid	Mid	Vic Seeds	8
Ultra - Festulolium	96	97	109	104	108	63	AR1	Diploid	Late		6
Halo AR37	96	97	113	109	115	140	AR37	Tetraploid	Late	Agricom	12

South West Victoria late spring seasonal performance

Cultivar		Late Spring	Summer	Autumn	Winter	Early Spring	FVI SW 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	106	AR1	Diploid	Mid	Barenbrug	9
Base AR37	■	99	113	111	119	98	181	AR37	Tetraploid	Late	PGG Wrightson Seeds	12
Impact2 NEA2	■	99	111	107	113	99	131	NEA2	Diploid	Late	Barenbrug	12
Avalon AR1	■	99	106	105	110	96	70	AR1	Diploid	Mid	Vic Seeds	8
Bealey NEA2	■	99	113	111	116	98	166	NEA2	Tetraploid	Very Late	Barenbrug	13
Jeta AR1	■	99	109	104	102	98	59	AR1	Tetraploid	Mid	Pasture Genetics	6
SF Hustle AR1	■	99	110	107	113	99	128	AR1	Diploid	Mid	Seedforce	6
Reward Endo5	■	98	110	107	112	97	113	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	5
Kidman AR1	■	98	110	109	113	100	136	AR1	Diploid	Early	Barenbrug	8
AusVic	■	98	109	105	109	98	88	Low	Diploid	Mid	Vic Seeds	3
BanquetII Endo5	■	98	111	107	112	96	118	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
Expo AR37	■	98	109	107	112	97	108	AR37	Diploid	Late	PGG Wrightson Seeds	5
Platinum	■	98	109	107	112	97	103	Low	Diploid	Late	Valley Seeds	5
Jackal AR1	■	98	109	107	111	98	105	AR1	Diploid	Mid	AGF Seeds	6
Ansa AR1	■	98	110	106	111	98	106	AR1	Diploid	Mid-Late	Seed Distributors	7
Shogun NEA2	■	98	112	105	112	100	125	NEA2	Tetraploid	Late	Barenbrug	6
Endure	■	98	108	105	110	98	85	SE	Tetraploid	Mid	Vic Seeds	5
Revolution - Festulolium	■	98	109	105	111	97	91	AR1	Diploid	Late	Cropmark	4
One50	■	97	111	107	113	98	125	SE	Diploid	Late	Agricom	4
Excess AR37	■	97	110	108	112	97	109	AR37	Diploid	Mid	PGG Wrightson Seeds	6
Fitzroy	■	97	108	106	112	102	110	SE	Diploid	Early	PGG Wrightson Seeds	4
Helix - Festulolium	■	97	108	103	108	97	62	AR1	Diploid	Mid	Cropmark	4
One50 AR37	■	97	110	107	113	98	112	AR37	Diploid	Late	Agricom	8
Matrix - Festulolium	■	97	111	107	112	97	109	Nil	Diploid	Late	Cropmark	7
Halo AR37	■	97	113	109	115	96	140	AR37	Tetraploid	Late	Agricom	12
One50 AR1	■	97	111	106	113	97	108	AR1	Diploid	Late	Agricom	11
Prospect AR37	■	97	109	106	113	98	104	AR37	Diploid	Late	Agricom	7
Ultra - Festulolium	■	97	109	104	108	96	63	AR1	Diploid	Late		6

South West Victoria summer seasonal performance

Cultivar	Summer	Autumn	Winter	E.Spring	L.Spring	FVI SW Vic	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Bealey NEA2	113	111	116	98	99	166	NEA2	Tetraploid	Very Late	Barenbrug	13
Halo AR37	113	109	115	96	97	140	AR37	Tetraploid	Late	Agricom	12
Base AR37	113	111	119	98	99	181	AR37	Tetraploid	Late	PGG Wrightson Seeds	12
Shogun NEA2	112	105	112	100	98	125	NEA2	Tetraploid	Late	Barenbrug	6
One50	111	107	113	98	97	125	SE	Diploid	Late	Agricom	4
BanquetII Endo5	111	107	112	96	98	118	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
Impact2 NEA2	111	107	113	99	99	131	NEA2	Diploid	Late	Barenbrug	12
Matrix - Festulolium	111	107	112	97	97	109	Nil	Diploid	Late	Cropmark	7
One50 AR1	111	106	113	97	97	108	AR1	Diploid	Late	Agricom	11
SF Hustle AR1	110	107	113	99	99	128	AR1	Diploid	Mid	Seedforce	6
Reward Endo5	110	107	112	97	98	113	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	5
Kidman AR1	110	109	113	100	98	136	AR1	Diploid	Early	Barenbrug	8
Ansa AR1	110	106	111	98	98	106	AR1	Diploid	Mid-Late	Seed Distributors	7
Arrow AR1	110	105	109	99	99	106	AR1	Diploid	Mid	Barenbrug	9
Excess AR37	110	108	112	97	97	109	AR37	Diploid	Mid	PGG Wrightson Seeds	6
One50 AR37	110	107	113	98	97	112	AR37	Diploid	Late	Agricom	8
Prospect AR37	109	106	113	98	97	104	AR37	Diploid	Late	Agricom	7
Revolution - Festulolium	109	105	111	97	98	91	AR1	Diploid	Late	Cropmark	4
Jackal AR1	109	107	111	98	98	105	AR1	Diploid	Mid	AGF Seeds	6
Expo AR37	109	107	112	97	98	108	AR37	Diploid	Late	PGG Wrightson Seeds	5
Jeta AR1	109	104	102	98	99	59	AR1	Tetraploid	Mid	Pasture Genetics	6
Platinum	109	107	112	97	98	103	Low	Diploid	Late	Valley Seeds	5
Ultra - Festulolium	109	104	108	96	97	63	AR1	Diploid	Late		6
AusVic	109	105	109	98	98	88	Low	Diploid	Mid	Vic Seeds	3
Endure	108	105	110	98	98	85	SE	Tetraploid	Mid	Vic Seeds	5
Fitzroy	108	106	112	102	97	110	SE	Diploid	Early	PGG Wrightson Seeds	4
Helix - Festulolium	108	103	108	97	97	62	AR1	Diploid	Mid	Cropmark	4
Avalon AR1	106	105	110	96	99	70	AR1	Diploid	Mid	Vic Seeds	8
Victorian	100	100	100	100	100	0	SE	Diploid	Early	Many	12

South West Victoria autumn seasonal performance

Cultivar	Autumn	Winter	Early Spring	Late Spring	Summer	FVI SW Vic	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Base AR37	111	119	98	99	113	181	AR37	Tetraploid	Late	PGG Wrightson Seeds	12
Bealey NEA2	111	116	98	99	113	166	NEA2	Tetraploid	Very Late	Barenbrug	13
Halo AR37	109	115	96	97	113	140	AR37	Tetraploid	Late	Agricom	12
Kidman AR1	109	113	100	98	110	136	AR1	Diploid	Early	Barenbrug	8
Excess AR37	108	112	97	97	110	109	AR37	Diploid	Mid	PGG Wrightson Seeds	6
SF Hustle AR1	107	113	99	99	110	128	AR1	Diploid	Mid	Seedforce	6
One50 AR37	107	113	98	97	110	112	AR37	Diploid	Late	Agricom	8
Reward Endo5	107	112	97	98	110	113	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	5
One50	107	113	98	97	111	125	SE	Diploid	Late	Agricom	4
BanquetII Endo5	107	112	96	98	111	118	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
Jackal AR1	107	111	98	98	109	105	AR1	Diploid	Mid	AGF Seeds	6
Impact2 NEA2	107	113	99	99	111	131	NEA2	Diploid	Late	Barenbrug	12
Matrix - Festulolium	107	112	97	97	111	109	Nil	Diploid	Late	Cropmark	7
Expo AR37	107	112	97	98	109	108	AR37	Diploid	Late	PGG Wrightson Seeds	5
Platinum	107	112	97	98	109	103	Low	Diploid	Late	Valley Seeds	5
One50 AR1	106	113	97	97	111	108	AR1	Diploid	Late	Agricom	11
Prospect AR37	106	113	98	97	109	104	AR37	Diploid	Late	Agricom	7
Ansa AR1	106	111	98	98	110	106	AR1	Diploid	Mid-Late	Seed Distributors	7
Fitzroy	106	112	102	97	108	110	SE	Diploid	Early	PGG Wrightson Seeds	4
AusVic	105	109	98	98	109	88	Low	Diploid	Mid	Vic Seeds	3
Endure	105	110	98	98	108	85	SE	Tetraploid	Mid	Vic Seeds	5
Arrow AR1	105	109	99	99	110	106	AR1	Diploid	Mid	Barenbrug	9
Shogun NEA2	105	112	100	98	112	125	NEA2	Tetraploid	Late	Barenbrug	6
Revolution - Festulolium	105	111	97	98	109	91	AR1	Diploid	Late	Cropmark	4
Avalon AR1	105	110	96	99	106	70	AR1	Diploid	Mid	Vic Seeds	8
Ultra - Festulolium	104	108	96	97	109	63	AR1	Diploid	Late		6
Jeta AR1	104	102	98	99	109	59	AR1	Tetraploid	Mid	Pasture Genetics	6
Helix - Festulolium	103	108	97	97	108	62	AR1	Diploid	Mid	Cropmark	4
Victorian	100	100	100	100	100	0	SE	Diploid	Early	Many	12

South West Victoria winter seasonal performance

Cultivar	Winter	Early Spring	Late Spring	Summer	Autumn	FVI SW Vic	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Base AR37	119	98	99	113	111	181	AR37	Tetraploid	Late	PGG Wrightson Seeds	12
Bealey NEA2	116	98	99	113	111	166	NEA2	Tetraploid	Very Late	Barenbrug	13
Halo AR37	115	96	97	113	109	140	AR37	Tetraploid	Late	Agricom	12
One50	113	98	97	111	107	125	SE	Diploid	Late	Agricom	4
SF Hustle AR1	113	99	99	110	107	128	AR1	Diploid	Mid	Seedforce	6
Kidman AR1	113	100	98	110	109	136	AR1	Diploid	Early	Barenbrug	8
One50 AR37	113	98	97	110	107	112	AR37	Diploid	Late	Agricom	8
Impact2 NEA2	113	99	99	111	107	131	NEA2	Diploid	Late	Barenbrug	12
Prospect AR37	113	98	97	109	106	104	AR37	Diploid	Late	Agricom	7
One50 AR1	113	97	97	111	106	108	AR1	Diploid	Late	Agricom	11
Expo AR37	112	97	98	109	107	108	AR37	Diploid	Late	PGG Wrightson Seeds	5
Shogun NEA2	112	100	98	112	105	125	NEA2	Tetraploid	Late	Barenbrug	6
Excess AR37	112	97	97	110	108	109	AR37	Diploid	Mid	PGG Wrightson Seeds	6
BanquetII Endo5	112	96	98	111	107	118	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
Platinum	112	97	98	109	107	103	Low	Diploid	Late	Valley Seeds	5
Matrix - Festulolium	112	97	97	111	107	109	Nil	Diploid	Late	Cropmark	7
Reward Endo5	112	97	98	110	107	113	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	5
Fitzroy	112	102	97	108	106	110	SE	Diploid	Early	PGG Wrightson Seeds	4
Jackal AR1	111	98	98	109	107	105	AR1	Diploid	Mid	AGF Seeds	6
Revolution - Festulolium	111	97	98	109	105	91	AR1	Diploid	Late	Cropmark	4
Ansa AR1	111	98	98	110	106	106	AR1	Diploid	Mid-Late	Seed Distributors	7
Avalon AR1	110	96	99	106	105	70	AR1	Diploid	Mid	Vic Seeds	8
Endure	110	98	98	108	105	85	SE	Tetraploid	Mid	Vic Seeds	5
Arrow AR1	109	99	99	110	105	106	AR1	Diploid	Mid	Barenbrug	9
AusVic	109	98	98	109	105	88	Low	Diploid	Mid	Vic Seeds	3
Helix - Festulolium	108	97	97	108	103	62	AR1	Diploid	Mid	Cropmark	4
Ultra - Festulolium	108	96	97	109	104	63	AR1	Diploid	Late		6
Jeta AR1	102	98	99	109	104	59	AR1	Tetraploid	Mid	Pasture Genetics	6
Victorian	100	100	100	100	100	0	SE	Diploid	Early	Many	12

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