

GIPPSLAND 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.

Gippsland: Forage Value Index 2020

Cultivar	FVI Gipps	Autumn	Winter	Early spring	Late spring	Summer	Endophyte	Ploidy	Heading date	Marketer	No. of trials
Base AR37	207	111	119	98	99	113	AR37	Tetraploid	Late	PGG Wrightson Seeds	12
Bealey NEA2	186	111	116	98	99	113	NEA2	Tetraploid	Very Late	Barenbrug	13
Kidman AR1	160	109	113	100	98	110	AR1	Diploid	Early	Barenbrug	8
Halo AR37	154	109	115	96	97	113	AR37	Tetraploid	Late	Agricom	12
Impact2 NEA2	148	107	113	99	99	111	NEA2	Diploid	Late	Barenbrug	12
SF Hustle AR1	146	107	113	99	99	110	AR1	Diploid	Mid	Seedforce	6
Shogun NEA2	144	105	112	100	98	112	NEA2	Tetraploid	Late	Barenbrug	6
One50	142	107	113	98	97	111	SE	Diploid	Late	Agricom	4
Fitzroy	137	106	112	102	97	108	SE	Diploid	Early	PGG Wrightson Seeds	4
BanquetII Endo5	127	107	112	96	98	111	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
One50 AR37	126	107	113	98	97	110	AR37	Diploid	Late	Agricom	8
Reward Endo5	123	107	112	97	98	110	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	5
Arrow AR1	120	105	109	99	99	110	AR1	Diploid	Mid	Barenbrug	9
Matrix - Festulolium	120	107	112	97	97	111	Nil	Diploid	Late	Cropmark	7
Prospect AR37	120	106	113	98	97	109	AR37	Diploid	Late	Agricom	7
Expo AR37	120	107	112	97	98	109	AR37	Diploid	Late	PGG Wrightson Seeds	5
Excess AR37	120	108	112	97	97	110	AR37	Diploid	Mid	PGG Wrightson Seeds	6
Ansa AR1	120	106	111	98	98	110	AR1	Diploid	Mid-Late	Seed Distributors	7
One50 AR1	120	106	113	97	97	111	AR1	Diploid	Late	Agricom	11
Jackal AR1	118	107	111	98	98	109	AR1	Diploid	Mid	AGF Seeds	6
Platinum	114	107	112	97	98	109	Low	Diploid	Late	Valley Seeds	5
Revolution - Festulolium	99	105	111	97	98	109	AR1	Diploid	Late	Seedforce	4
AusVic	96	105	109	98	98	109	Low	Diploid	Mid	Vic Seeds	3
Endure	93	105	110	98	98	108	SE	Tetraploid	Mid	Vic Seeds	5
Avalon AR1	74	105	110	96	99	106	AR1	Diploid	Mid	Vic Seeds	8
Helix - Festulolium	66	103	108	97	97	108	AR1	Diploid	Mid	Cropmark	4
Ultra - Festulolium	64	104	108	96	97	109	AR1	Diploid	Late	Notman Seeds	6
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.

Gippsland early spring seasonal performance

Cultivar	Early Spring	Late Spring	Summer	Autumn	Winter	FVI Gipps	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Fitzroy	102	97	108	106	112	137	SE	Diploid	Early	PGG Wrightson Seeds	4
Kidman AR1	100	98	110	109	113	160	AR1	Diploid	Early	Barenbrug	8
Victorian	100	100	100	100	100	0	SE	Diploid	Early	Many	12
Shogun NEA2	100	98	112	105	112	144	NEA2	Tetraploid	Late	Barenbrug	6
Arrow AR1	99	99	110	105	109	120	AR1	Diploid	Mid	Barenbrug	9
Impact2 NEA2	99	99	111	107	113	148	NEA2	Diploid	Late	Barenbrug	12
SF Hustle AR1	99	99	110	107	113	146	AR1	Diploid	Mid	Seedforce	6
Prospect AR37	98	97	109	106	113	120	AR37	Diploid	Late	Agricom	7
Ansa AR1	98	98	110	106	111	120	AR1	Diploid	Mid-Late	Seed Distributors	7
One50	98	97	111	107	113	142	SE	Diploid	Late	Agricom	4
Base AR37	98	99	113	111	119	207	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	118	AR1	Diploid	Mid	AGF Seeds	6
AusVic	98	98	109	105	109	96	Low	Diploid	Mid	Vic Seeds	3
Bealey NEA2	98	99	113	111	116	186	NEA2	Tetraploid	Very Late	Barenbrug	13
One50 AR37	98	97	110	107	113	126	AR37	Diploid	Late	Agricom	8
Endure	98	98	108	105	110	93	SE	Tetraploid	Mid	Vic Seeds	5
Expo AR37	97	98	109	107	112	120	AR37	Diploid	Late	PGG Wrightson Seeds	5
Helix - Festulolium	97	97	108	103	108	66	AR1	Diploid	Mid	Cropmark	4
One50 AR1	97	97	111	106	113	120	AR1	Diploid	Late	Agricom	11
Platinum	97	98	109	107	112	114	Low	Diploid	Late	Valley Seeds	5
Matrix - Festulolium	97	97	111	107	112	120	Nil	Diploid	Late	Cropmark	7
Reward Endo5	97	98	110	107	112	123	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	5
Excess AR37	97	97	110	108	112	120	AR37	Diploid	Mid	PGG Wrightson Seeds	6
Revolution - Festulolium	97	98	109	105	111	99	AR1	Diploid	Late	Seedforce	4
BanquetII Endo5	96	98	111	107	112	127	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
Avalon AR1	96	99	106	105	110	74	AR1	Diploid	Mid	Vic Seeds	8
Ultra - Festulolium	96	97	109	104	108	64	AR1	Diploid	Late	Notman Seeds	6
Halo AR37	96	97	113	109	115	154	AR37	Tetraploid	Late	Agricom	12

Gippsland late spring seasonal performance

Cultivar		Late Spring	Summer	Autumn	Winter	Early Spring	FVI Gipps	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	120	AR1	Diploid	Mid	Barenbrug	9
Base AR37	■	99	113	111	119	98	207	AR37	Tetraploid	Late	PGG Wrightson Seeds	12
Impact2 NEA2	■	99	111	107	113	99	148	NEA2	Diploid	Late	Barenbrug	12
Avalon AR1	■	99	106	105	110	96	74	AR1	Diploid	Mid	Vic Seeds	8
Bealey NEA2	■	99	113	111	116	98	186	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	146	AR1	Diploid	Mid	Seedforce	6
Reward Endo5	■	98	110	107	112	97	123	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	5
Kidman AR1	■	98	110	109	113	100	160	AR1	Diploid	Early	Barenbrug	8
AusVic	■	98	109	105	109	98	96	Low	Diploid	Mid	Vic Seeds	3
BanquetII Endo5	■	98	111	107	112	96	127	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
Expo AR37	■	98	109	107	112	97	120	AR37	Diploid	Late	PGG Wrightson Seeds	5
Platinum	■	98	109	107	112	97	114	Low	Diploid	Late	Valley Seeds	5
Jackal AR1	■	98	109	107	111	98	118	AR1	Diploid	Mid	AGF Seeds	6
Ansa AR1	■	98	110	106	111	98	120	AR1	Diploid	Mid-Late	Seed Distributors	7
Shogun NEA2	■	98	112	105	112	100	144	NEA2	Tetraploid	Late	Barenbrug	6
Endure	■	98	108	105	110	98	93	SE	Tetraploid	Mid	Vic Seeds	5
Revolution - Festulolium	■	98	109	105	111	97	99	AR1	Diploid	Late	Seedforce	4
One50	■	97	111	107	113	98	142	SE	Diploid	Late	Agricom	4
Excess AR37	■	97	110	108	112	97	120	AR37	Diploid	Mid	PGG Wrightson Seeds	6
Fitzroy	■	97	108	106	112	102	137	SE	Diploid	Early	PGG Wrightson Seeds	4
Helix - Festulolium	■	97	108	103	108	97	66	AR1	Diploid	Mid	Cropmark	4
One50 AR37	■	97	110	107	113	98	126	AR37	Diploid	Late	Agricom	8
Matrix - Festulolium	■	97	111	107	112	97	120	Nil	Diploid	Late	Cropmark	7
Halo AR37	■	97	113	109	115	96	154	AR37	Tetraploid	Late	Agricom	12
One50 AR1	■	97	111	106	113	97	120	AR1	Diploid	Late	Agricom	11
Prospect AR37	■	97	109	106	113	98	120	AR37	Diploid	Late	Agricom	7
Ultra - Festulolium	■	97	109	104	108	96	64	AR1	Diploid	Late	Notman Seeds	6

Gippsland summer seasonal performance

Cultivar	Summer	Autumn	Winter	E.Spring	L.Spring	FVI Gipps	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Bealey NEA2	113	111	116	98	99	186	NEA2	Tetraploid	Very Late	Barenbrug	13
Halo AR37	113	109	115	96	97	154	AR37	Tetraploid	Late	Agricom	12
Base AR37	113	111	119	98	99	207	AR37	Tetraploid	Late	PGG Wrightson Seeds	12
Shogun NEA2	112	105	112	100	98	144	NEA2	Tetraploid	Late	Barenbrug	6
One50	111	107	113	98	97	142	SE	Diploid	Late	Agricom	4
BanquetII Endo5	111	107	112	96	98	127	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
Impact2 NEA2	111	107	113	99	99	148	NEA2	Diploid	Late	Barenbrug	12
Matrix - Festulolium	111	107	112	97	97	120	Nil	Diploid	Late	Cropmark	7
One50 AR1	111	106	113	97	97	120	AR1	Diploid	Late	Agricom	11
SF Hustle AR1	110	107	113	99	99	146	AR1	Diploid	Mid	Seedforce	6
Reward Endo5	110	107	112	97	98	123	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	5
Kidman AR1	110	109	113	100	98	160	AR1	Diploid	Early	Barenbrug	8
Ansa AR1	110	106	111	98	98	120	AR1	Diploid	Mid-Late	Seed Distributors	7
Arrow AR1	110	105	109	99	99	120	AR1	Diploid	Mid	Barenbrug	9
Excess AR37	110	108	112	97	97	120	AR37	Diploid	Mid	PGG Wrightson Seeds	6
One50 AR37	110	107	113	98	97	126	AR37	Diploid	Late	Agricom	8
Prospect AR37	109	106	113	98	97	120	AR37	Diploid	Late	Agricom	7
Revolution - Festulolium	109	105	111	97	98	99	AR1	Diploid	Late	Seedforce	4
Jackal AR1	109	107	111	98	98	118	AR1	Diploid	Mid	AGF Seeds	6
Expo AR37	109	107	112	97	98	120	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	114	Low	Diploid	Late	Valley Seeds	5
Ultra - Festulolium	109	104	108	96	97	64	AR1	Diploid	Late	Notman Seeds	6
AusVic	109	105	109	98	98	96	Low	Diploid	Mid	Vic Seeds	3
Endure	108	105	110	98	98	93	SE	Tetraploid	Mid	Vic Seeds	5
Fitzroy	108	106	112	102	97	137	SE	Diploid	Early	PGG Wrightson Seeds	4
Helix - Festulolium	108	103	108	97	97	66	AR1	Diploid	Mid	Cropmark	4
Avalon AR1	106	105	110	96	99	74	AR1	Diploid	Mid	Vic Seeds	8
Victorian	100	100	100	100	100	0	SE	Diploid	Early	Many	12

Gippsland autumn seasonal performance

Cultivar	Autumn	Winter	Early Spring	Late Spring	Summer	FVI Gipps	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Base AR37	111	119	98	99	113	207	AR37	Tetraploid	Late	PGG Wrightson Seeds	12
Bealey NEA2	111	116	98	99	113	186	NEA2	Tetraploid	Very Late	Barenbrug	13
Halo AR37	109	115	96	97	113	154	AR37	Tetraploid	Late	Agricom	12
Kidman AR1	109	113	100	98	110	160	AR1	Diploid	Early	Barenbrug	8
Excess AR37	108	112	97	97	110	120	AR37	Diploid	Mid	PGG Wrightson Seeds	6
SF Hustle AR1	107	113	99	99	110	146	AR1	Diploid	Mid	Seedforce	6
One50 AR37	107	113	98	97	110	126	AR37	Diploid	Late	Agricom	8
Reward Endo5	107	112	97	98	110	123	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	5
One50	107	113	98	97	111	142	SE	Diploid	Late	Agricom	4
BanquetII Endo5	107	112	96	98	111	127	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
Jackal AR1	107	111	98	98	109	118	AR1	Diploid	Mid	AGF Seeds	6
Impact2 NEA2	107	113	99	99	111	148	NEA2	Diploid	Late	Barenbrug	12
Matrix - Festulolium	107	112	97	97	111	120	Nil	Diploid	Late	Cropmark	7
Expo AR37	107	112	97	98	109	120	AR37	Diploid	Late	PGG Wrightson Seeds	5
Platinum	107	112	97	98	109	114	Low	Diploid	Late	Valley Seeds	5
One50 AR1	106	113	97	97	111	120	AR1	Diploid	Late	Agricom	11
Prospect AR37	106	113	98	97	109	120	AR37	Diploid	Late	Agricom	7
Ansa AR1	106	111	98	98	110	120	AR1	Diploid	Mid-Late	Seed Distributors	7
Fitzroy	106	112	102	97	108	137	SE	Diploid	Early	PGG Wrightson Seeds	4
AusVic	105	109	98	98	109	96	Low	Diploid	Mid	Vic Seeds	3
Endure	105	110	98	98	108	93	SE	Tetraploid	Mid	Vic Seeds	5
Arrow AR1	105	109	99	99	110	120	AR1	Diploid	Mid	Barenbrug	9
Shogun NEA2	105	112	100	98	112	144	NEA2	Tetraploid	Late	Barenbrug	6
Revolution - Festulolium	105	111	97	98	109	99	AR1	Diploid	Late	Seedforce	4
Avalon AR1	105	110	96	99	106	74	AR1	Diploid	Mid	Vic Seeds	8
Ultra - Festulolium	104	108	96	97	109	64	AR1	Diploid	Late	Notman Seeds	6
Jeta AR1	104	102	98	99	109	59	AR1	Tetraploid	Mid	Pasture Genetics	6
Helix - Festulolium	103	108	97	97	108	66	AR1	Diploid	Mid	Cropmark	4
Victorian	100	100	100	100	100	0	SE	Diploid	Early	Many	12

Gippsland winter seasonal performance

Cultivar	Winter	Early Spring	Late Spring	Summer	Autumn	FVI Gipps	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Base AR37	119	98	99	113	111	207	AR37	Tetraploid	Late	PGG Wrightson Seeds	12
Bealey NEA2	116	98	99	113	111	186	NEA2	Tetraploid	Very Late	Barenbrug	13
Halo AR37	115	96	97	113	109	154	AR37	Tetraploid	Late	Agricom	12
One50	113	98	97	111	107	142	SE	Diploid	Late	Agricom	4
SF Hustle AR1	113	99	99	110	107	146	AR1	Diploid	Mid	Seedforce	6
Kidman AR1	113	100	98	110	109	160	AR1	Diploid	Early	Barenbrug	8
One50 AR37	113	98	97	110	107	126	AR37	Diploid	Late	Agricom	8
Impact2 NEA2	113	99	99	111	107	148	NEA2	Diploid	Late	Barenbrug	12
Prospect AR37	113	98	97	109	106	120	AR37	Diploid	Late	Agricom	7
One50 AR1	113	97	97	111	106	120	AR1	Diploid	Late	Agricom	11
Expo AR37	112	97	98	109	107	120	AR37	Diploid	Late	PGG Wrightson Seeds	5
Shogun NEA2	112	100	98	112	105	144	NEA2	Tetraploid	Late	Barenbrug	6
Excess AR37	112	97	97	110	108	120	AR37	Diploid	Mid	PGG Wrightson Seeds	6
BanquetII Endo5	112	96	98	111	107	127	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
Platinum	112	97	98	109	107	114	Low	Diploid	Late	Valley Seeds	5
Matrix - Festulolium	112	97	97	111	107	120	Nil	Diploid	Late	Cropmark	7
Reward Endo5	112	97	98	110	107	123	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	5
Fitzroy	112	102	97	108	106	137	SE	Diploid	Early	PGG Wrightson Seeds	4
Jackal AR1	111	98	98	109	107	118	AR1	Diploid	Mid	AGF Seeds	6
Revolution - Festulolium	111	97	98	109	105	99	AR1	Diploid	Late	Seedforce	4
Ansa AR1	111	98	98	110	106	120	AR1	Diploid	Mid-Late	Seed Distributors	7
Avalon AR1	110	96	99	106	105	74	AR1	Diploid	Mid	Vic Seeds	8
Endure	110	98	98	108	105	93	SE	Tetraploid	Mid	Vic Seeds	5
Arrow AR1	109	99	99	110	105	120	AR1	Diploid	Mid	Barenbrug	9
AusVic	109	98	98	109	105	96	Low	Diploid	Mid	Vic Seeds	3
Helix - Festulolium	108	97	97	108	103	66	AR1	Diploid	Mid	Cropmark	4
Ultra - Festulolium	108	96	97	109	104	64	AR1	Diploid	Late	Notman Seeds	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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