

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	Cropmark	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		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	Cropmark	4
Banquet II 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		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	Cropmark	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		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	Cropmark	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		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
Banquet II 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	Cropmark	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		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	Cropmark	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		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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