



GIPPSLAND FORAGE VALUE INDEX 2021

ANNUAL RYEGRASS



The Forage Value Index (FVI) is a tool that helps Australian dairy farmers and their advisors to make more informed decisions when selecting ryegrass cultivars. It provides an accurate, reliable and independent assessment of the potential economic value of ryegrass cultivars in different dairy regions of southeast Australia. The FVI was initially launched in 2017 for perennial ryegrass only, and in 2021 has been expanded to include two additional species of ryegrass - Annual and Italian ryegrass.

How it is calculated

The FVI is calculated by multiplying the Performance Value of each cultivar (i.e. total kilograms dry matter produced per hectare per "FVI" season) by its Economic Value (i.e. the estimated value of this extra production per "FVI" season). There are five FVI seasons and these are outlines in more detail on page 4.

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 trials that have been conducted using strict industry protocols. The trials vary in duration depending on the species (three years for perennial cultivars, one year minimum for annual and Italian cultivars).

Reference cultivar

The Performance Value is expressed as a percentage change relative to a reference cultivar of ryegrass (a widely recognised cultivar by the industry), which differs for each species. The reference cultivar will always have an overall FVI of 0. In the annual ryegrass FVI, the reference cultivar is a certified source of Tetila.

Economic values

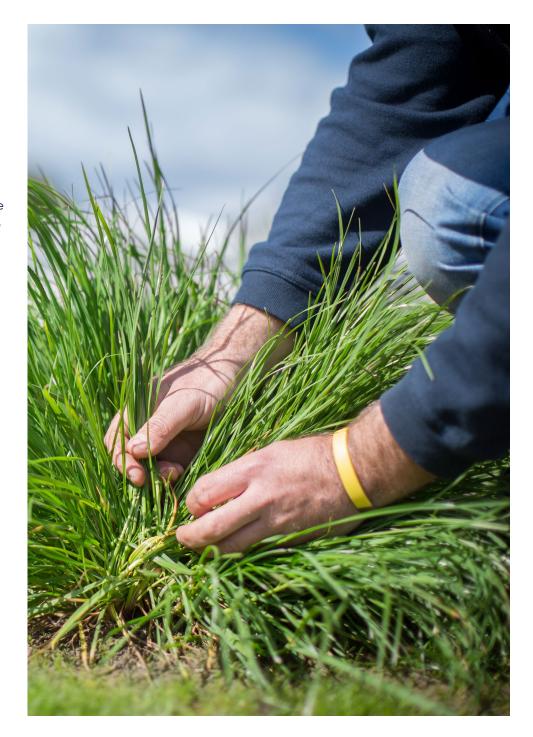
Economic Values (EVs) are determined by assessing the economic value of extra pasture grown during the respective seasons through an economic analysis of 'case study' farms in four different dairying regions in southeast Australia. For 2021, EVs currently only exist for the three Victorian dairy regions plus Tasmania, as these were the regions used for the perennial ryegrass FVI initially launched in 2017. From 2022 onwards, EVs will be developed and published for other regions of Australia where annual and Italian ryegrass are also widely used.

Information in the FVI tables

The FVI for each cultivar is expressed both individually as a number, and in collective groups 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. A cultivar needs to be included in at least three trials to qualify for inclusion in the FVI and the more trials it is included in – the more reliable the ranking is for that cultivar.

Future developments and improvements

Currently the FVI rankings are based on yield only, from independent trials run by the Pasture Trial Network. In the coming years, nutritive value data will be collected for each cultivar and included in the FVI tables and calculations for all species, as well as persistence for perennial ryegrass. Whilst we acknowledge that yield is not the only trait affecting the relative profitability of one cultivar over another, the FVI in its current form still provides a valuable independent indicator of the relative difference between cultivars and will continue to evolve and improve as it is updated with more trial data and new traits in the coming years.



Gippsland: Forage Va	ue Index 2	021 – <i>A</i>	ANNUAL	RYEG	RASS								
Cultivar		FVI Gipps	Autumn	Winter	Early spring	Late spring	Summer	Endophyte	Ploidy	Heading date	Marketer	No. of trials	No of Trial (Gipps)
SF Pinnacle AGF		324	120	99	101	107	144	Nil	Т	Late	AGF Seeds (Seed Force in WA only)	7	1
SF Speedyl		289	104	99	101	106	147	Nil	Т	Late	Seed Force	6	1
Mach 1		266	100	105	100	108	138	Nil	Т	Mid	Agricom	8	1
Hogan		264	100	104	101	106	139	Nil	Т	Late	Barenbrug	5	1
Jivet		244	103	101	100	106	138	Nil	Т	Late	DLF Seeds	7	1
Zoom		242	127	103	101	105	124	Nil	Т	Late	Cropmark Seeds	3	1
WinterStar II		240	88	103	102	108	135	Nil	Т	Late	PGG Wrightson Seeds	6	1
Fuze		218	100	105	102	106	127	Nil	D	Late	Barenbrug	4	0
Bullet		206	108	102	100	107	126	Nil	Т	Late	Notman Pasture Seeds	3	1
SF Adrenalin		201	100	104	103	106	124	Nil	Т	Late	Seed Force	3	1
Ascend		199	88	102	97	109	139	Nil	Т	Mid	PGG Wrightson Seeds	8	1
Vortex		173	90	105	102	106	121	Nil	Т	Mid-Late	Barenbrug	4	0
Arnie		172	114	106	102	105	110	Nil	D	Late	Barenbrug	3	0
Dash		162	103	98	97	106	131	Nil	Т	Very Late	Cropmark Seeds	4	1
SF Sultan		74	91	102	102	104	108	Nil	D	Late	Seed Force	5	1
Tetila (standard)		0	100	100	100	100	100	Nil	Т	Early	Many	4	0
Dargo (DoubleCrop)		-3	100	109	102	100	84	Nil	D	Early	Vicseeds	5	0
Burst		-45	82	105	98	101	96	Nil	Т	Mid	Vicseeds	4	0

Notes

- 1 Telila (standard) is the refence cultivar for the annual ryegrass FVI. It is a certified source of Tetila that was used in the trials. The reference cultivar in the FVI is always zero, and the FVI for all other cultivars in the list are measured against this line.
- 2 Data to create the performance values for each cultivar was taken from eight annual ryegrass trials. The trials were located in the following regions and were measured at various stages between 2014 and 2019 Leongatha, Terang, Howlong (x2), Kiewa Valley, Taree and Aberdeen (x2). Next years update to the Annual FVI will include more trials from Victoria, NSW and also Tasmania.
- 3 The FVI's for each cultivar are based on a combination of trials across several sites as described above, with the no of trials in each region column included to provide an indication of the amount of actual trial data in that region that contributed to the FVI for that particular cultivar.
- 4 Individual data from trials that have been published is available on the Pasture Trial Network website at tools.mla.com.au/ptn/#/home

Legend

Heading Description Cultivar A plant variety that has been produced by selective breeding. Cultivars are as listed as on the Australian Seed Federation Posture 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 value is based on the difference in dry matter production between a cultivar's seasonal performance and that of for each FVI season. A cultivar that is 100 means that it produced 110 per cent of the dry matter produced by Tetila in that particular FVI season. A cultivar that is 97 means it produced 97 per cent of the dry matter produced by Tetila in that particular FVI season. A cultivar that is 97 means it produced 97 per cent of the dry matter produced by Tetila in that particular FVI season. 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 plants of a variety have emerged seed heads in a typical year. Heading dates are listed on the Australian Seed Federation Po		
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Heading date The date when 50 per cent 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 as per the Australian Seed Federation Pasture Seed Database.	Endophyte	
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	Heading date	
No. of trials To be included in the Annual Ryegrass FVI, each cultivar must have data from at least three, one-year trials.	Marketer	The company marketing the cultivar as per the Australian Seed Federation Pasture Seed Database.
	No. of trials	To be included in the Annual Ryegrass FVI, each cultivar must have data from at least three, one-year trials.

New Economic values for 2021 release

The 2021 updated FVI tables is accompanied by updated economic values for the value of an additional kilogram of ryegrass within each of the five FVI seasons in the four regions. The values were updated to reflect greater volatility in the hay and grain market over the last few years and are based on a five-year rolling average of hay and grain prices within each of the four regions. The new economic values used are presented in the following table:

Region	Autumn (\$)	Winter (\$)	Early Spring (\$)	Late Spring (\$)	Summer (\$)
South West Victoria	0.34	0.36	0.24	0.30	0.41
Northern Victoria	0.36	0.42	0.46	0.42	0.33
Gippsland	0.44	0.58	0.49	0.29	0.45
Tasmania	0.35	0.37	0.38	0.11	0.18

Gippsland Autumn se	asonal perfor	mance -	- ANNU	AL RYEC	GRASS							
Cultivar		Autumn	Winter	Early Spring	Late Spring	Summer	FVI Gipps	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Zoom		127	103	101	105	124	242	Nil	Т	Late	Cropmark Seeds	3
SF Pinnacle AGF		120	99	101	107	144	324	Nil	Т	Late	AGF Seeds (Seed Force in WA only)	7
Arnie		114	106	102	105	110	172	Nil	D	Late	Barenbrug	3
Bullet		108	102	100	107	126	206	Nil	Т	Late	Notman Pasture Seeds	3
SF Speedyl		104	99	101	106	147	289	Nil	Т	Late	Seed Force	6
Dash		103	98	97	106	131	162	Nil	Т	Very Late	Cropmark Seeds	4
Jivet		103	101	100	106	138	244	Nil	Т	Late	DLF Seeds	7
Dargo (DoubleCrop)		100	109	102	100	84	-3	Nil	D	Early	Vicseeds	5
Mach 1		100	105	100	108	138	266	Nil	Т	Mid	Agricom	8
Hogan		100	104	101	106	139	264	Nil	Т	Late	Barenbrug	5
Fuze		100	105	102	106	127	218	Nil	D	Late	Barenbrug	4
Tetila (standard)		100	100	100	100	100	0	Nil	Т	Early	Many	4
SF Adrenalin		100	104	103	106	124	201	Nil	Т	Late	Seed Force	3
SF Sultan		91	102	102	104	108	74	Nil	D	Late	Seed Force	5
Vortex		90	105	102	106	121	173	Nil	Т	Mid-Late	Barenbrug	4
WinterStar II		88	103	102	108	135	240	Nil	Т	Late	PGG Wrightson Seeds	6
Ascend		88	102	97	109	139	199	Nil	Т	Mid	PGG Wrightson Seeds	8
Burst		82	105	98	101	96	-45	Nil	Т	Mid	Vicseeds	4

Gippsland Winter	seasonal perf	ormance	- ANNU	JAL RYE	GRASS							
Cultivar		Winter	Early Spring	Late Spring	Summer	Autumn	FVI Gipps	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Dargo (DoubleCrop)		109	102	100	84	100	-3	Nil	D	Early	Vicseeds	5
Arnie		106	102	105	110	114	172	Nil	D	Late	Barenbrug	3
Vortex		105	102	106	121	90	173	Nil	T	Mid-Late	Barenbrug	4
Burst		105	98	101	96	82	-45	Nil	T	Mid	Vicseeds	4
Fuze		105	102	106	127	100	218	Nil	D	Late	Barenbrug	4
Mach 1		105	100	108	138	100	266	Nil	Т	Mid	Agricom	8
Hogan		104	101	106	139	100	264	Nil	T	Late	Barenbrug	5
SF Adrenalin		104	103	106	124	100	201	Nil	Т	Late	Seed Force	3
WinterStar II		103	102	108	135	88	240	Nil	Т	Late	PGG Wrightson Seeds	6
Zoom		103	101	105	124	127	242	Nil	Т	Late	Cropmark Seeds	3
SF Sultan		102	102	104	108	91	74	Nil	D	Late	Seed Force	5
Ascend		102	97	109	139	88	199	Nil	T	Mid	PGG Wrightson Seeds	8
Bullet		102	100	107	126	108	206	Nil	Т	Late	Notman Pasture Seeds	3
Jivet		101	100	106	138	103	244	Nil	Т	Late	DLF Seeds	7
Tetila (standard)		100	100	100	100	100	0	Nil	Т	Early	Many	4
SF Pinnacle AGF		99	101	107	144	120	324	Nil	Т	Late	AGF Seeds (Seed Force in WA only)	7
SF Speedyl		99	101	106	147	104	289	Nil	Т	Late	Seed Force	6
Dash		98	97	106	131	103	162	Nil	Т	Very Late	Cropmark Seeds	4

Cultivar	Ea Sp	arly oring	Late Spring	Summer	Autumn	Winter	FVI Gipps	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
SF Adrenalin	103	3	106	124	100	104	201	Nil	Т	Late	Seed Force	3
WinterStar II	102	2	108	135	88	103	240	Nil	Т	Late	PGG Wrightson Seeds	6
Vortex	102	2	106	121	90	105	173	Nil	Т	Mid-Late	Barenbrug	4
Dargo (DoubleCrop)	102	2	100	84	100	109	-3	Nil	D	Early	Vicseeds	5
SF Sultan	102	2	104	108	91	102	74	Nil	D	Late	Seed Force	5
Fuze	102	2	106	127	100	105	218	Nil	D	Late	Barenbrug	4
Arnie	102	2	105	110	114	106	172	Nil	D	Late	Barenbrug	3
SF Pinnacle AGF	101	1	107	144	120	99	324	Nil	Т	Late	AGF Seeds (Seed Force in WA only)	7
SF Speedyl	101	1	106	147	104	99	289	Nil	Т	Late	Seed Force	6
Hogan	101	1	106	139	100	104	264	Nil	Т	Late	Barenbrug	5
Zoom	101	1	105	124	127	103	242	Nil	Т	Late	Cropmark Seeds	3
Jivet	100	0	106	138	103	101	244	Nil	Т	Late	DLF Seeds	7
Bullet	100	0	107	126	108	102	206	Nil	Т	Late	Notman Pasture Seeds	3
Mach1	100	0	108	138	100	105	266	Nil	Т	Mid	Agricom	8
Tetila (standard)	100	0	100	100	100	100	0	Nil	Т	Early	Many	4
Burst	98	3	101	96	82	105	-45	Nil	Т	Mid	Vicseeds	4
Dash	97	,	106	131	103	98	162	Nil	Т	Very Late	Cropmark Seeds	4
Ascend	97	•	109	139	88	102	199	Nil	Т	Mid	PGG Wrightson Seeds	8

Gippsland late S	pring	seas	onal pe	erformo	ınce – A	NNUAL	RYEGRA	SS						
Cultivar				Late Spring	Summer	Autumn	Winter	Early Spring	FVI Gipps	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Ascend				109	139	88	102	97	199	Nil	Т	Mid	PGG Wrightson Seeds	8
WinterStar II				108	135	88	103	102	240	Nil	Т	Late	PGG Wrightson Seeds	6
Mach 1				108	138	100	105	100	266	Nil	Т	Mid	Agricom	8
Bullet				107	126	108	102	100	206	Nil	Т	Late	Notman Pasture Seeds	3
SF Pinnacle AGF				107	144	120	99	101	324	Nil	Т	Late	AGF Seeds (Seed Force in WA only)	7
Vortex				106	121	90	105	102	173	Nil	Т	Mid-Late	Barenbrug	4
Dash				106	131	103	98	97	162	Nil	Т	Very Late	Cropmark Seeds	4
SF Speedyl				106	147	104	99	101	289	Nil	Т	Late	Seed Force	6
Jivet				106	138	103	101	100	244	Nil	Т	Late	DLF Seeds	7
Fuze				106	127	100	105	102	218	Nil	D	Late	Barenbrug	4
Hogan				106	139	100	104	101	264	Nil	Т	Late	Barenbrug	5
SF Adrenalin				106	124	100	104	103	201	Nil	Т	Late	Seed Force	3
Arnie				105	110	114	106	102	172	Nil	D	Late	Barenbrug	3
Zoom				105	124	127	103	101	242	Nil	Т	Late	Cropmark Seeds	3
SF Sultan				104	108	91	102	102	74	Nil	D	Late	Seed Force	5
Burst				101	96	82	105	98	-45	Nil	Т	Mid	Vicseeds	4
Tetila (standard)				100	100	100	100	100	0	Nil	T	Early	Many	4
Dargo (DoubleCrop)				100	84	100	109	102	-3	Nil	D	Early	Vicseeds	5

Gippsland Summe	r seaso	nal per	formanc	e – ANN	IUAL RY	EGRASS							
Cultivar			Summer	Autumn	Winter	E.Spring	L.Spring	FVI Gipps	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
SF Speedyl			147	104	99	101	106	289	Nil	Т	Late	Seed Force	6
SF Pinnacle AGF			144	120	99	101	107	324	Nil	T	Late	AGF Seeds (Seed Force in WA only)	7
Ascend			139	88	102	97	109	199	Nil	Т	Mid	PGG Wrightson Seeds	8
Hogan			139	100	104	101	106	264	Nil	T	Late	Barenbrug	5
Mach 1			138	100	105	100	108	266	Nil	Т	Mid	Agricom	8
Jivet			138	103	101	100	106	244	Nil	Т	Late	DLF Seeds	7
WinterStar II			135	88	103	102	108	240	Nil	Т	Late	PGG Wrightson Seeds	6
Dash			131	103	98	97	106	162	Nil	Т	Very Late	Cropmark Seeds	4
Fuze			127	100	105	102	106	218	Nil	D	Late	Barenbrug	4
Bullet			126	108	102	100	107	206	Nil	T	Late	Notman Pasture Seeds	3
SF Adrenalin			124	100	104	103	106	201	Nil	T	Late	Seed Force	3
Zoom			124	127	103	101	105	242	Nil	Т	Late	Cropmark Seeds	3
Vortex			121	90	105	102	106	173	Nil	T	Mid-Late	Barenbrug	4
Arnie			110	114	106	102	105	172	Nil	D	Late	Barenbrug	3
SF Sultan			108	91	102	102	104	74	Nil	D	Late	Seed Force	5
Tetila (standard)			100	100	100	100	100	0	Nil	Т	Early	Many	4
Burst			96	82	105	98	101	-45	Nil	Т	Mid	Vicseeds	4
Dargo (DoubleCrop)			84	100	109	102	100	-3	Nil	D	Early	Vicseeds	5

Disclaimer

The content of this publication including any statements regarding future matters (such as the performance of the dairy industry or initiatives of Dairy Australia) is based on information available to Dairy Australia at the time of preparation. Dairy Australia does not guarantee that the content is free from errors or omissions and accepts no liability for your use of or reliance on this document. Furthermore, the information has not been prepared with your specific circumstances in mind and may not be current after the date of publication. Accordingly, you should always make your own enquiry and obtain professional advice before using or relying on the information provided in this publication.

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