Dairy Australia

Northern Victoria Forage Value Index
Italian ryegrass

2026 Update

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.

How the FVI is calculated

Farmers and their advisors should use these lists to assist in making selection decisions on which ryegrass varieties to sow in 2026. The data and science behind the FVI is very robust and information is presented in an easy to use manner.

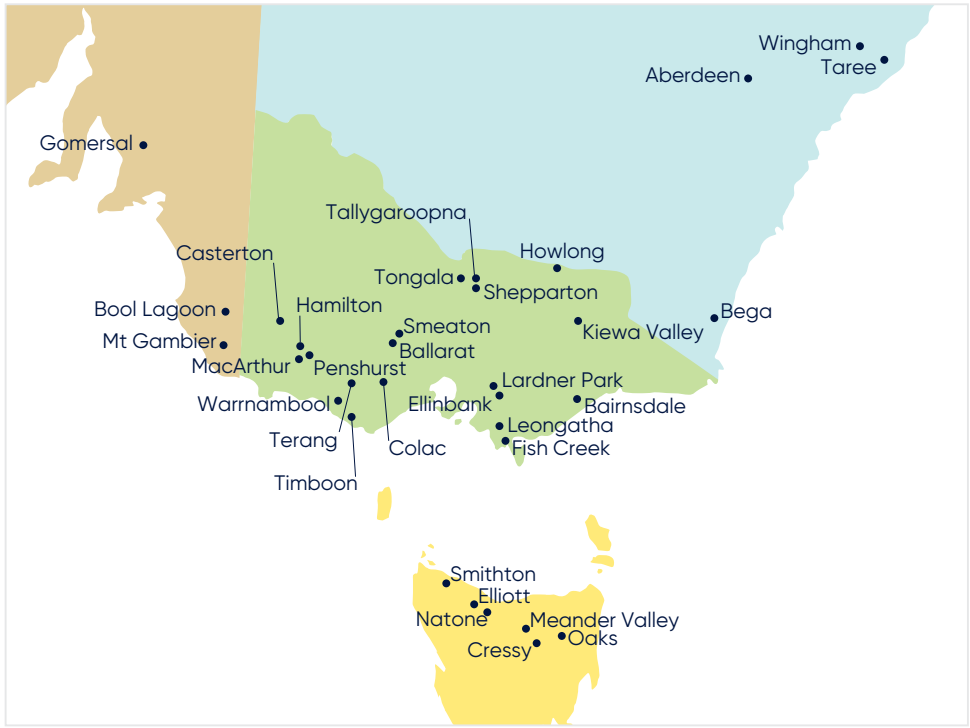
When considering a variety of ryegrass to sow this year, ensure that it is ranked highly in the FVI for that ryegrass species.

Differences between varieties that are ranked closely together in the FVI are often very minor. The intention of the FVI is not to have farmers picking the top variety only, without any consideration of any other factors. indeed there is often vary marginal difference betwenn the top ranked cultivars in each species. Where the FVI is hugely valuable for a farmer is actually in demonstrating the poorest ranked varieties within that species.

The main reason a farmer should use the FVI is to make sure they are not selecting a poor, less profitable variety that is near the bottom of the list.

Often the price of a variety has little correlation to its position on the FVI list. Use the FVI to avoid overpaying for a variety that is poorly ranked.

Figure 1 Map of trial locations across South-eastern Australia used in the 2026 FVI.



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Reference varieties

Across the three different species of ryegrass, the Performance Value is expressed as the percentage change in yield relative to a selected reference cultivar that effectively acts as the genetic base for that species in the FVI.

The reference cultivar is a well-known variety for each ryegrass species, where farmers and advisors are more likely to have a good understanding and knowledge of its performance over many years across various environments. The current reference cultivars for each species are as follows:

- Perennial ryegrass: **Victorian Ryegrass (Vic Rye)**
- Annual ryegrass: **Tetila (from a certified source to ensure consistency across trials)**
- Italian ryegrass: **Crusader.**

Coloured bars

The FVI for each cultivar is expressed as a numerical value and is also assigned within a coloured bar. The FVI value is a prediction of extra operating profit per hectare over and above the reference cultivar in each species, which always has an FVI value of zero. Cultivars within the same-coloured bar are not significantly different to each other at the 95 per cent confidence interval.

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

Seasonal yield tables

The accompanying tables of cultivar performance during the various FVI 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 might favour those cultivars that have a higher performance value for autumn and winter as they would likely value greater winter growth in their pastures. The vast majority of trial data comes from the Pasture Trial Network (PTN), and users can now check out the details of individual trials on the PTN in addition to the FVI rankings. They can be accessed at **etools.mla.com.au/ptn** or by scanning the QR code.

Forage quality - Annual and Italian ryegrass

A new feature introduced for 2025 and continued this year is the expansion of forage quality estimates at a varietal level from Perennial ryegrass, to now also include some Annual and Italian ryegrass varieties. Metabolisable energy (ME) was the measure chosen to provide an indication of seasonal forage quality for each cultivar.

Pasture samples were collected at an individual plot level and ME concentration was measured using near infrared (NIR) spectroscopy analysis across all five FVI seasons. Metabolisable energy is presented in the FVI tables below as megajoules of ME per kg of dry matter. Performance values for ME were calculated using the same statistical methodology used to create seasonal and total annual dry matter yield values for each cultivar.

For annual and Italian ryegrass, the forage quality trait has not been incorporated into the overall FVI ranking for each cultivar in each region. Two trials were analysed for forage quality in 2024 in Annual and Italian ryegrass and not every variety was included in those two trials. However, farmers can still look at the mean yearly and seasonal forage quality value for each cultivar that was tested, to get an initial idea of the variation in ME between the different cultivars.

Forage quality - Perennial ryegrass

Forage quality has now been included as a trait in the overall FVI calculation for each variety. This marks an significant evolution of the index to one that is based on more than one trait of economic importance to farmers (dry matter yield) to a genuine multi-trait index. The methodology used to achieve this is outlined in detail in the following paper:

Lewis, C.D., Smith, K.F., Jacobs, J.L., Ho, C.K.M., Leddin, C.M., Moate, P.J. and Malcolm, B., 2024. Using a two-price market value framework to value differences in metabolisable energy concentration of pasture across seasons. Agricultural Systems, 217, p.103939.

Northern Victoria: Forage Value Index 2026 – ITALIAN RYEGRASS

Cultivar	FVI Northern Victoria	Total trials	Autumn	Winter	Early spring	Late spring	Summer	Endophyte	Ploidy	Heading date	Marketer	Trials in Northern Victoria	Overall metabolisable energy
Allure	197	4	128	102	99	105	109	Nil	D	Late	Upper Murray Seeds	0	
Arise	159	25	123	99	103	103	106	Nil	T	Late	Barenbrug Australia	2	12.16
Growa	121	7	115	89	106	107	107	Nil	T	Late	AGF Seeds	1	12.10
Amass	109	13	118	90	101	107	107	Nil	T	Mid	Valley Seeds	1	12.06
Echo	109	6	130	94	101	102	99	Nil	T	Mid	Tasglobal Seeds	1	12.25
Tempo	102	30	106	98	104	105	107	Nil	D	Late	Barenbrug Australia	4	11.86
RGT Dardevyl	97	14	114	89	103	106	109	Nil	T	Late	RAGT	2	12.24
Aston	94	10	112	100	102	104	103	Nil	T	Late	Barenbrug Australia	1	11.90
Manta	55	15	107	96	99	103	107	Nil	D	Late	DLF Seeds	2	12.05
Feast II	38	32	105	93	99	103	106	Nil	T	Late	DLF Seeds	4	12.00
Mona	31	16	109	92	100	106	100	Nil	T	Late	DLF Seeds	1	12.03
Accelerate 2	26	21	100	91	101	103	108	Nil	D	Late	RAGT	3	12.06
RGT Exotyl	12	12	92	92	102	105	108	Nil	D	Late	RAGT	1	12.17
Concord II	9	23	107	93	99	101	102	Nil	D	Late	DLF Seeds	3	11.96
Crusader	**0**	**12**	**100**	**100**	**100**	**100**	**100**	**Nil**	**D**	**Late**	**DLF Seeds**	**1**	**12.04**
Jackpot	-9	14	103	96	101	102	98	Nil	D	Late	DLF Seeds	1	
Indulgence	-19	7	101	86	104	103	101	Nil	D	Late	RAGT	2	
Emmerson	-20	6	101	75	97	112	107	Nil	T	Late	RAGT	2	
Awesome	-23	7	100	96	106	101	93	Nil	D	Late	Upper Murray Seeds	1	
Thumpa	-33	23	107	95	98	100	95	Nil	T	Late	DLF Seeds	3	12.01
Gusto	-46	11	103	85	102	102	99	Nil	D	Mid/Late	AGF Seeds	2	12.20
Combat	-51	4	100	98	106	97	90	Nil	D	Mid	Upper Murray Seeds	0	
Achieve	-63	4	100	92	103	103	90	Nil	D	Mid	Valley Seeds	0	
Tonuss	-90	5	100	81	99	104	97	Nil	D	Late	RAGT	0	
Xtend	-102	14	99	81	95	103	100	Nil	D	Mid	AGF Seeds	3	
Blade	-261	4	92	78	92	101	84	Nil	D	Late	Cropmark Seeds	1	

Notes

1 Data to create the performance values for each cultivar were taken from 32 Italian ryegrass trials. The trials were located in the following regions and were measured at various stages between 2015 and 2024 – Leongatha, Terang, Howlong (x4), Kiewa Valley, Shepparton, Taree, Aberdeen (x3), Meander Valley, Oaks, Bairnsdale, Lardner Park, Bega, Warrnambool, Colac and Macarthur. Seven new trials were added to the Italian ryegrass FVI in 2024 from Penshurst, Colac, Bool Lagoon, Tallygaroopna, Lardner Park, Wingham and Aberdeen. For the 2026 FVI update, five new Italian ryegrass trials were added from Wingham, Smeaton, Lardner Park, Cressy (Tas) and Gomeral (SA).

2 The total number of trials can be used as an indication of the reliability of the ranking for each cultivar. Cultivars with large trial numbers are likely to be more accurate in their postilion on the list.

3 Crusader was chosen as the reference cultivar for the Italian ryegrass FVI, due to its relative performance being more widely known by the dairy industry compared to the other options. Unlike the Perennial and Annual FVIs where the reference cultivars used were towards the bottom of the FVI tables, Crusader is still a mid-ranking cultivar in the Italian ryegrass FVI despite being commercially available for many years. Therefore several cultivars in the Italian FVI have a negative FVI relative to Crusader. The reference cultivar in the FVI is always zero, and the FVI for all other cultivars in the list are measured against this variety.

4 Metabolisable energy (ME) is presented for each cultivar as megajoules of ME per Kg of dry matter. These data were obtained from two PTN trials in 2023 (Aberdeen and Lardner Park). These values currently do not contribute to the overall FVI ranking for each cultivar in annual and Italian ryegrass but will do so in future when sufficient forage quality data is available. Values are provided this year to give an indication to farmers of the variation in forage quality between cultivars. Any cultivar with no metabolisable energy value shown was not entered in either of the two trials sampled for forage quality.

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.
FVI	The rating is based on the outcome of economic and performance values for each cultivar.
Total trials	To be included in the Italian ryegrass Forage Value Index database, each cultivar must have data from at least three, one-year trials.
Seasonal performance	A performance value is based on the difference in dry matter production between a cultivar's seasonal performance and that of Crusader Italian ryegrass. This is a percentage ranking – per cent better or worse than Crusader ryegrass. For example, Crusader is always 100 for each FVI season. A cultivar that is 110 means that it produced 110 per cent of the dry matter produced by Crusader in that particular FVI season. A cultivar that is 97 means it produced 97 per cent of the dry matter produced by Crusader 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 that 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 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.
Metabolisable energy	A measure of the Forage Quality of each cultivar, measures as megajoules of ME/kg of dry matter. Cultivars with higher ME values are likely to have greater milk production potential for the same level of dry matter intake.

Economic values

The economic values are a key aspect of the overall Forage Value Index. While the performance values are the same across all regions in the FVI at present, the seasonal value of the extra pasture is different across the regions. Hence, localised regional tables are provided to more accurately reflect the marginal value of a kilogram of ryegrass in the different parts of the country. The methodology with which the economic values are calculated for the FVI changed for the 2022 , and now new updates to these economic values using the same methodology have been used in the 2025 FVI update.

Original individual case study farm approach

When the FVI was first introduced, economic values were developed using a case study farm approach in each of the four regions where Perennial ryegrass is dominant (South-west Victoria, Northern Victoria, Gippsland and Tasmania). A typical dairy system based on a real farm business in each region was modelled, with the base monthly estimated metabolisable energy requirements of the herd, the feed consumed, and the pasture consumption per hectare defined. For each of the five FVI seasons, the economic value of the additional pasture to the case study farm system was estimated according to the market value of feeds that the additional pasture replaced (on an equivalent energy basis), or as the net market value of hay or silage produced if the additional pasture was surplus to the case study farm requirements. Farming systems, even within regions in Australia, are quite diverse by comparison to other pasture based dairy industries elsewhere in the world. The case study farm approach to determine economic values provided a good indication of the general value of additional pasture yield in each region, but was limited by how representative the case study farm is for each region.

New market value approach adopted from 2022 FVI onwards

The new approach for calculating economic values simplifies the way extra seasonal pasture production is valued. Seasons when grazed pasture is typically in deficit and in surplus are defined for each FVI region. For example, in Gippsland, pasture was assumed to be in deficit during summer, autumn and winter, and in surplus during early and late spring. Extra pasture produced in a period when it is typically in deficit is of greater value than periods when it is typically in surplus. In seasons of deficit, extra pasture is valued as its maximum replacement cost; as purchased supplementary feed, and in seasons of surplus it is valued at its minimum salvage value; as standing hay to be conserved. Market prices of feeds delivered to each region were used to establish these maximum and minimum economic values on an equivalent nutritive value basis.

How the new approach for calculating economic values affects the ranking of cultivars in the FVI

A previous release of the FVI was used prior to the 2023 FVI update to compare the two methods of calculating the economic values, to assess whether it made a difference to the FVI rankings. The FVI of 19 Perennial ryegrass cultivars was calculated using the economic values from the original case study farm method and the market value approach, across the three Victorian regions. The 19 cultivars were compared to a common reference cultivar (Victorian), which was assigned a value of zero. Using the economic values calculated by the original case study farm method, the 19 cultivars were calculated to be worth an extra $0-$180 per ha more than Victorian ryegrass, the reference cultivar. Using the economic values calculated by the market value approach, the same 19 cultivars were calculated to be worth an extra $24-$200/ha more than the same reference cultivar. Hence, it is clear that there is good agreement between the two methods for calculating the economic values.

Advantages of the market value approach

There are several advantages to using the market value approach. First, the economic values are applicable to all producers who buy and sell substitutes for grazed pasture, and who experience similar timings of pasture surpluses and deficits. This removes the limitations of having a single representative farm for each region. Second, the simplified approach makes it easier to communicate how the economic values have been calculated. This enables farmers to more easily consider how the FVI rankings relate to their individual circumstances. Lastly, regional differences can be accounted for in seasonality of pasture supply, and feed types and prices, and the economic values are relatively straightforward to update once established.

Update to 2025 economic values

Using the same two-prove market value framework as described above, the feed prices used in the economic value calculations for 2025 were updated to reflect 2022 dollar values instead of 2020 dollar values. The estimated cost of hay conservation (used for the salvage value component of the equation) was also updated to reflect 2022 average prices. This allowed inflation to be accounted for and resulted in both feed cost and conservation costs used being 10 per cent greater than the previously used values.

New economic values updated for 2025 onwards

The 2025 update of the FVI used newly updated economic values for all three ryegrass species, as described on the previous page in detail. In South-west Victoria, Northern Victoria, Gippsland and Tasmania, grazed pasture was assumed to be in deficit during autumn, winter and summer, and surplus during early spring and late spring.
In South-coast NSW and North-coast NSW, grazed pasture was assumed to be in deficit during autumn and winter and surplus during early spring, late spring, and summer.

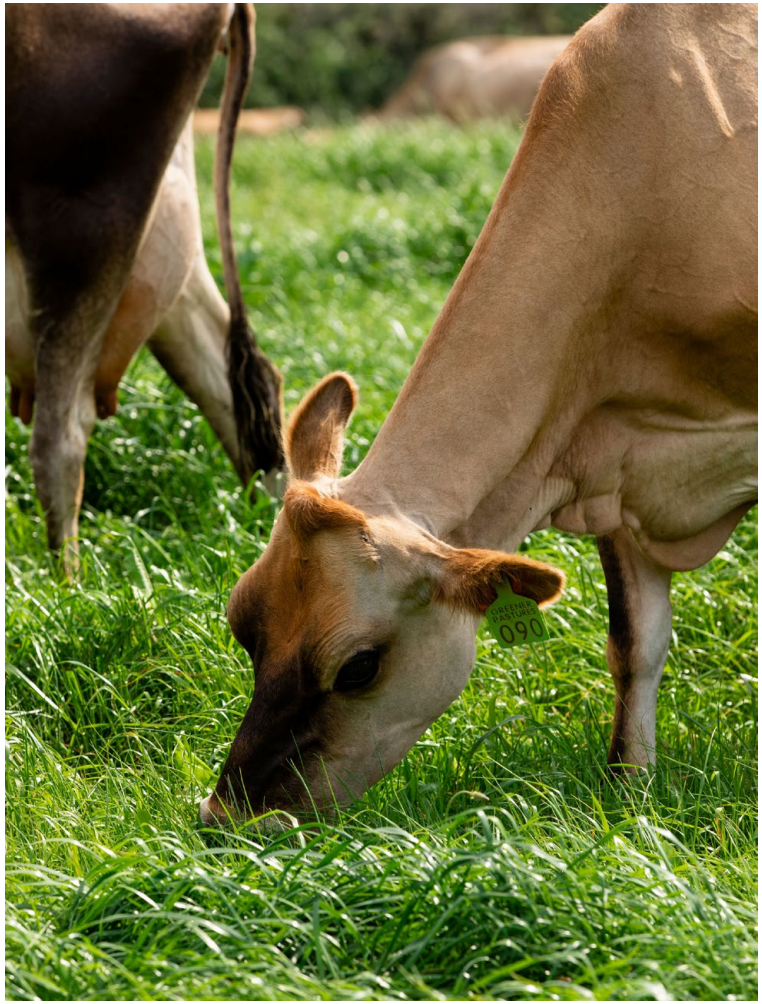
Separate economic values for dry matter yield have now been calculated for Perennial ryegrass cultivars and for Annual/Italian ryegrass cultivars for the Victorian and Tasmanian regions. This aims to better reflect differences in the seasonal nutritive value of Perennial versus Annual/Italian ryegrasses when calculating the economic values.

Perennial ryegrass seasonal yield economic values for the 2025 Forage Value Index ($/kg DM)

Region	Autumn	Winter	Early spring	Late spring	Summer
South-west Victoria	0.40	0.41	0.34	0.32	0.36
Northern Victoria	0.39	0.40	0.33	0.31	0.35
Gippsland	0.45	0.46	0.39	0.36	0.40
Tasmania	0.43	0.45	0.35	0.33	0.39

Annual and Italian ryegrass seasonal yield economic values for the 2025 Forage Value Index ($/kg DM)

Region	Autumn	Winter	Early spring	Late spring	Summer
South-west Victoria	0.37	0.37	0.29	0.29	0.35
Northern Victoria	0.38	0.38	0.30	0.30	0.36
Gippsland	0.42	0.42	0.35	0.35	0.40
Tasmania	0.41	0.42	0.31	0.31	0.38
South-coast NSW	0.44	0.44	0.37	0.37	0.36
Mid-north coast NSW	0.47	0.48	0.38	0.38	0.38



Northern Victoria: Autumn seasonal performance – ITALIAN RYEGRASS

Cultivar	FVI Northern Victoria	Autumn	Winter	Early spring	Late spring	Summer	Endophyte	Ploidy	Heading date	Marketer	No. of trials	Autumn metabolisable energy
Echo	109	130	94	101	102	99	Nil	T	Mid	Tasglobal Seeds	6	12.9
Allure	197	128	102	99	105	109	Nil	D	Late	Upper Murray Seeds	4	
Arise	159	123	99	103	103	106	Nil	T	Late	Barenbrug Australia	25	12.9
Amass	109	118	90	101	107	107	Nil	T	Mid	Valley Seeds	13	12.9
Growa	121	115	89	106	107	107	Nil	T	Late	AGF Seeds	7	12.9
RGT Dardevyl	97	114	89	103	106	109	Nil	T	Late	RAGT	14	12.7
Aston	94	112	100	102	104	103	Nil	T	Late	Barenbrug Australia	10	12.8
Mona	31	109	92	100	106	100	Nil	T	Late	DLF Seeds	16	12.8
Manta	55	107	96	99	103	107	Nil	D	Late	DLF Seeds	15	12.8
Concord II	9	107	93	99	101	102	Nil	D	Late	DLF Seeds	23	12.5
Thumpa	-33	107	95	98	100	95	Nil	T	Late	DLF Seeds	23	12.5
Tempo	102	106	98	104	105	107	Nil	D	Late	Barenbrug Australia	30	12.7
Feast II	38	105	93	99	103	106	Nil	T	Late	DLF Seeds	32	12.7
Gusto	-46	103	85	102	102	99	Nil	D	Mid/Late	AGF Seeds	11	13.0
Jackpot	-9	103	96	101	102	98	Nil	D	Late	DLF Seeds	14	
Emmerson	-20	101	75	97	112	107	Nil	T	Late	RAGT	6	
Indulgence	-19	101	86	104	103	101	Nil	D	Late	RAGT	7	
Accelerate 2	26	100	91	101	103	108	Nil	D	Late	RAGT	21	12.8
Awesome	-23	100	96	106	101	93	Nil	D	Late	Upper Murray Seeds	7	
Achieve	-63	100	92	103	103	90	Nil	D	Mid	Valley Seeds	4	
Combat	-51	100	98	106	97	90	Nil	D	Mid	Upper Murray Seeds	4	
Crusader	**0**	**100**	**100**	**100**	**100**	**100**	**Nil**	**D**	**Late**	**DLF Seeds**	**12**	**12.7**
Tonuss	-90	100	81	99	104	97	Nil	D	Late	RAGT	5	
Xtend	-102	99	81	95	103	100	Nil	D	Mid	AGF Seeds	14	
Blade	-261	92	78	92	101	84	Nil	D	Late	Cropmark Seeds	4	
RGT Exotyl	12	92	92	102	105	108	Nil	D	Late	RAGT	12	12.8

Northern Victoria: Winter seasonal performance – ITALIAN RYEGRASS

Cultivar	FVI Northern Victoria	Winter	Early spring	Late spring	Summer	Autumn	Endophyte	Ploidy	Heading date	Marketer	No. of trials	Winter metabolisable energy
Allure	197	102	99	105	109	128	Nil	D	Late	Upper Murray Seeds	4	
Crusader	**0**	**100**	**100**	**100**	**100**	**100**	**Nil**	**D**	**Late**	**DLF Seeds**	**12**	**12.1**
Aston	94	100	102	104	103	112	Nil	T	Late	Barenbrug Australia	10	12.2
Arise	159	99	103	103	106	123	Nil	T	Late	Barenbrug Australia	25	12.3
Combat	-51	98	106	97	90	100	Nil	D	Mid	Upper Murray Seeds	4	
Tempo	102	98	104	105	107	106	Nil	D	Late	Barenbrug Australia	30	12.2
Awesome	-23	96	106	101	93	100	Nil	D	Late	Upper Murray Seeds	7	
Jackpot	-9	96	101	102	98	103	Nil	D	Late	DLF Seeds	14	
Manta	55	96	99	103	107	107	Nil	D	Late	DLF Seeds	15	12.1
Thumpa	-33	95	98	100	95	107	Nil	T	Late	DLF Seeds	23	12.1
Echo	109	94	101	102	99	130	Nil	T	Mid	Tasglobal Seeds	6	12.3
Feast II	38	93	99	103	106	105	Nil	T	Late	DLF Seeds	32	12.0
Concord II	9	93	99	101	102	107	Nil	D	Late	DLF Seeds	23	12.1
Achieve	-63	92	103	103	90	100	Nil	D	Mid	Valley Seeds	4	
RGT Exotyl	12	92	102	105	108	92	Nil	D	Late	RAGT	12	12.3
Mona	31	92	100	106	100	109	Nil	T	Late	DLF Seeds	16	12.2
Accelerate 2	26	91	101	103	108	100	Nil	D	Late	RAGT	21	12.1
Amass	109	90	101	107	107	118	Nil	T	Mid	Valley Seeds	13	12.1
Growa	121	89	106	107	107	115	Nil	T	Late	AGF Seeds	7	12.4
RGT Dardevyl	97	89	103	106	109	114	Nil	T	Late	RAGT	14	12.5
Indulgence	-19	86	104	103	101	101	Nil	D	Late	RAGT	7	
Gusto	-46	85	102	102	99	103	Nil	D	Mid/Late	AGF Seeds	11	12.3
Tonuss	-90	81	99	104	97	100	Nil	D	Late	RAGT	5	
Xtend	-102	81	95	103	100	99	Nil	D	Mid	AGF Seeds	14	
Blade	-261	78	92	101	84	92	Nil	D	Late	Cropmark Seeds	4	
Emmerson	-20	75	97	112	107	101	Nil	T	Late	RAGT	6	

Northern Victoria: Early spring seasonal performance – ITALIAN RYEGRASS

Cultivar		FVI Northern Victoria	Early spring	Late spring	Summer	Autumn	Winter	Endophyte	Ploidy	Heading date	Marketer	No. of trials	Early spring metabolisable energy
Combat		-51	106	97	90	100	98	Nil	D	Mid	Upper Murray Seeds	4	
Awesome		-23	106	101	93	100	96	Nil	D	Late	Upper Murray Seeds	7	
Growa		121	106	107	107	115	89	Nil	T	Late	AGF Seeds	7	12.8
Indulgence		-19	104	103	101	101	86	Nil	D	Late	RAGT	7	
Tempo		102	104	105	107	106	98	Nil	D	Late	Barenbrug Australia	30	12.6
RGT Dardevyl		97	103	106	109	114	89	Nil	T	Late	RAGT	14	12.9
Achieve		-63	103	103	90	100	92	Nil	D	Mid	Valley Seeds	4	
Arise		159	103	103	106	123	99	Nil	T	Late	Barenbrug Australia	25	12.9
RGT Exotyl		12	102	105	108	92	92	Nil	D	Late	RAGT	12	12.7
Aston		94	102	104	103	112	100	Nil	T	Late	Barenbrug Australia	10	12.6
Gusto		-46	102	102	99	103	85	Nil	D	Mid/Late	AGF Seeds	11	12.7
Echo		109	101	102	99	130	94	Nil	T	Mid	Tasglobal Seeds	6	12.9
Amass		109	101	107	107	118	90	Nil	T	Mid	Valley Seeds	13	12.6
Accelerate 2		26	101	103	108	100	91	Nil	D	Late	RAGT	21	12.6
Jackpot		-9	101	102	98	103	96	Nil	D	Late	DLF Seeds	14	
Crusader		**0**	**100**	**100**	**100**	**100**	**100**	**Nil**	**D**	**Late**	**DLF Seeds**	**12**	**12.6**
Mona		31	100	106	100	109	92	Nil	T	Late	DLF Seeds	16	12.6
Tonuss		-90	99	104	97	100	81	Nil	D	Late	RAGT	5	
Allure		197	99	105	109	128	102	Nil	D	Late	Upper Murray Seeds	4	
Manta		55	99	103	107	107	96	Nil	D	Late	DLF Seeds	15	12.7
Feast II		38	99	103	106	105	93	Nil	T	Late	DLF Seeds	32	12.6
Concord II		9	99	101	102	107	93	Nil	D	Late	DLF Seeds	23	12.5
Thumpa		-33	98	100	95	107	95	Nil	T	Late	DLF Seeds	23	12.6
Emmerson		-20	97	112	107	101	75	Nil	T	Late	RAGT	6	
Xtend		-102	95	103	100	99	81	Nil	D	Mid	AGF Seeds	14	
Blade		-261	92	101	84	92	78	Nil	D	Late	Cropmark Seeds	4	

Northern Victoria: Late spring seasonal performance – ITALIAN RYEGRASS

Cultivar	FVI Northern Victoria	Late spring	Summer	Autumn	Winter	Early spring	Endophyte	Ploidy	Heading date	Marketer	No. of trials	Late spring metabolisable energy
Emmerson	-20	112	107	101	75	97	Nil	T	Late	RAGT	6	
Growa	121	107	107	115	89	106	Nil	T	Late	AGF Seeds	7	10.7
Amass	109	107	107	118	90	101	Nil	T	Mid	Valley Seeds	13	10.8
Mona	31	106	100	109	92	100	Nil	T	Late	DLF Seeds	16	10.5
RGT Dardevyl	97	106	109	114	89	103	Nil	T	Late	RAGT	14	11.0
Tempo	102	105	107	106	98	104	Nil	D	Late	Barenbrug Australia	30	10.6
RGT Exotyl	12	105	108	92	92	102	Nil	D	Late	RAGT	12	10.9
Allure	197	105	109	128	102	99	Nil	D	Late	Upper Murray Seeds	4	
Tonuss	-90	104	97	100	81	99	Nil	D	Late	RAGT	5	
Aston	94	104	103	112	100	102	Nil	T	Late	Barenbrug Australia	10	10.8
Arise	159	103	106	123	99	103	Nil	T	Late	Barenbrug Australia	25	10.9
Indulgence	-19	103	101	101	86	104	Nil	D	Late	RAGT	7	
Feast II	38	103	106	105	93	99	Nil	T	Late	DLF Seeds	32	10.8
Xtend	-102	103	100	99	81	95	Nil	D	Mid	AGF Seeds	14	
Accelerate 2	26	103	108	100	91	101	Nil	D	Late	RAGT	21	10.9
Achieve	-63	103	90	100	92	103	Nil	D	Mid	Valley Seeds	4	
Manta	55	103	107	107	96	99	Nil	D	Late	DLF Seeds	15	10.9
Echo	109	102	99	130	94	101	Nil	T	Mid	Tasglobal Seeds	6	11.0
Gusto	-46	102	99	103	85	102	Nil	D	Mid/Late	AGF Seeds	11	10.9
Jackpot	-9	102	98	103	96	101	Nil	D	Late	DLF Seeds	14	
Concord II	9	101	102	107	93	99	Nil	D	Late	DLF Seeds	23	10.8
Blade	-261	101	84	92	78	92	Nil	D	Late	Cropmark Seeds	4	
Awesome	-23	101	93	100	96	106	Nil	D	Late	Upper Murray Seeds	7	
Thumpa	-33	100	95	107	95	98	Nil	T	Late	DLF Seeds	23	10.7
Crusader	**0**	**100**	**100**	**100**	**100**	**100**	**Nil**	**D**	**Late**	**DLF Seeds**	**12**	**11.0**
Combat	-51	97	90	100	98	106	Nil	D	Mid	Upper Murray Seeds	4	

Northern Victoria: Summer seasonal performance – ITALIAN RYEGRASS

Cultivar	FVI Northern Victoria	Summer	Autumn	Winter	Early spring	Late spring	Endophyte	Ploidy	Heading date	Marketer	No. of trials	Summer metabolisable energy
Allure	197	109	128	102	99	105	Nil	D	Late	Upper Murray Seeds	4	
RGT Dardevyl	97	109	114	89	103	106	Nil	T	Late	RAGT	14	12.1
Accelerate 2	26	108	100	91	101	103	Nil	D	Late	RAGT	21	11.9
RGT Exotyl	12	108	92	92	102	105	Nil	D	Late	RAGT	12	12.1
Emmerson	-20	107	101	75	97	112	Nil	T	Late	RAGT	6	
Growa	121	107	115	89	106	107	Nil	T	Late	AGF Seeds	7	11.8
Manta	55	107	107	96	99	103	Nil	D	Late	DLF Seeds	15	11.8
Amass	109	107	118	90	101	107	Nil	T	Mid	Valley Seeds	13	11.9
Tempo	102	107	106	98	104	105	Nil	D	Late	Barenbrug Australia	30	11.2
Feast II	38	106	105	93	99	103	Nil	T	Late	DLF Seeds	32	12.0
Arise	159	106	123	99	103	103	Nil	T	Late	Barenbrug Australia	25	11.8
Aston	94	103	112	100	102	104	Nil	T	Late	Barenbrug Australia	10	11.1
Concord II	9	102	107	93	99	101	Nil	D	Late	DLF Seeds	23	11.9
Indulgence	-19	101	101	86	104	103	Nil	D	Late	RAGT	7	
Mona	31	100	109	92	100	106	Nil	T	Late	DLF Seeds	16	12.0
Crusader	**0**	**100**	**100**	**100**	**100**	**100**	**Nil**	**D**	**Late**	**DLF Seeds**	**12**	**11.8**
Xtend	-102	100	99	81	95	103	Nil	D	Mid	AGF Seeds	14	
Echo	109	99	130	94	101	102	Nil	T	Mid	Tasglobal Seeds	6	12.2
Gusto	-46	99	103	85	102	102	Nil	D	Mid/Late	AGF Seeds	11	12.0
Jackpot	-9	98	103	96	101	102	Nil	D	Late	DLF Seeds	14	
Tonuss	-90	97	100	81	99	104	Nil	D	Late	RAGT	5	
Thumpa	-33	95	107	95	98	100	Nil	T	Late	DLF Seeds	23	12.1
Awesome	-23	93	100	96	106	101	Nil	D	Late	Upper Murray Seeds	7	
Achieve	-63	90	100	92	103	103	Nil	D	Mid	Valley Seeds	4	
Combat	-51	90	100	98	106	97	Nil	D	Mid	Upper Murray Seeds	4	
Blade	-261	84	92	78	92	101	Nil	D	Late	Cropmark Seeds	4	

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