Dairy Australia

Tasmania Forage Value Index
Perennial Ryegrass

2023 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.

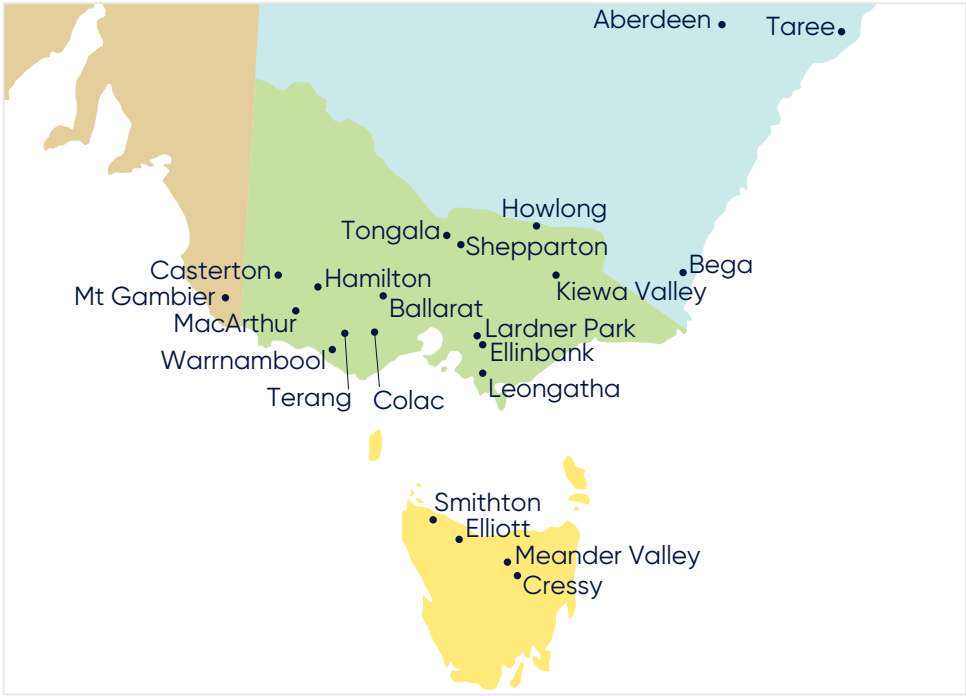
It provides an accurate, reliable and independent assessment of the potential economic value of ryegrass cultivars across three different species (Perennial, Annual and Italian ryegrass) in a number of dairy-producing regions across Australia. The FVI is calculated by multiplying the Performance Value 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 for each variety 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 approved protocols. For Perennial ryegrass, trials must be three years in length, whilst Annual & Italian ryegrass trials must be a minimum of one full growing season.

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 which effectively acts as the genetic base for that species in the FVI. The reference cultivar is generally 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 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

Figure 1 Map of trial locations across south eastern Australia that contributed to the FVI in 2023



DELIVERING for DAIRY

DataGene Solutions for Herd Development

mla MEAT & LIVESTOCK AUSTRALIA

PASTURE TRIALS NETWORK

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 0. Cultivars within the same-coloured bar are not significantly different to each other at the 95 per cent confidence interval.

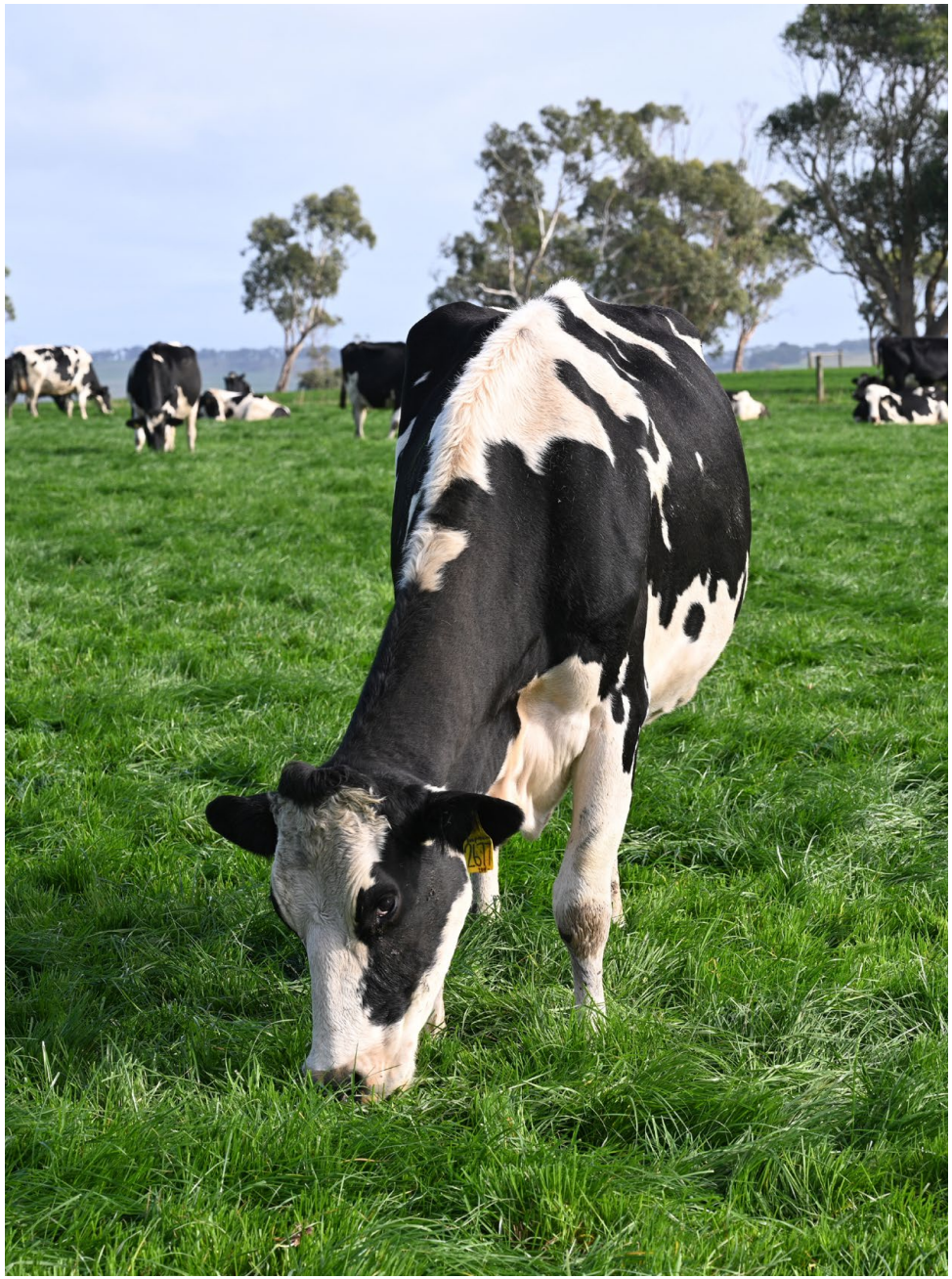
The FVI information allows users to rank cultivars according to their region and user nominated attributes (e.g. seasonal yields, ploidy, heading date, endophyte). The number of trials in which the cultivar has been tested is also included in the table.

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.

Autumn seasonal values for annual and Italian ryegrass FVI's

In 2023, performance values for Autumn in the Annual & Italian ryegrass FVI's have been removed from the index. The first harvest was not taken from the majority of these trials until after the 31st May and this meant that data for Autumn (March-May) which reflects very early establishment in these varieties was too limited for us to fully be confident it accurately reflected differences in the varieties at this time of the year. The solution is to generate more yield data before 31st May by sowing these trials earlier in the growing season and that is the aim for 2023 trials. However, most trials are dryland and therefore the timing of the autumn break is a big factor in establishing trials successfully. Recent autumn breaks in many regions particularly in Victoria have been very variable. This change only applies to Annual and Italian ryegrass FVI's. Perennial trials run for three years and so sufficient data is collected in autumn in these trials.



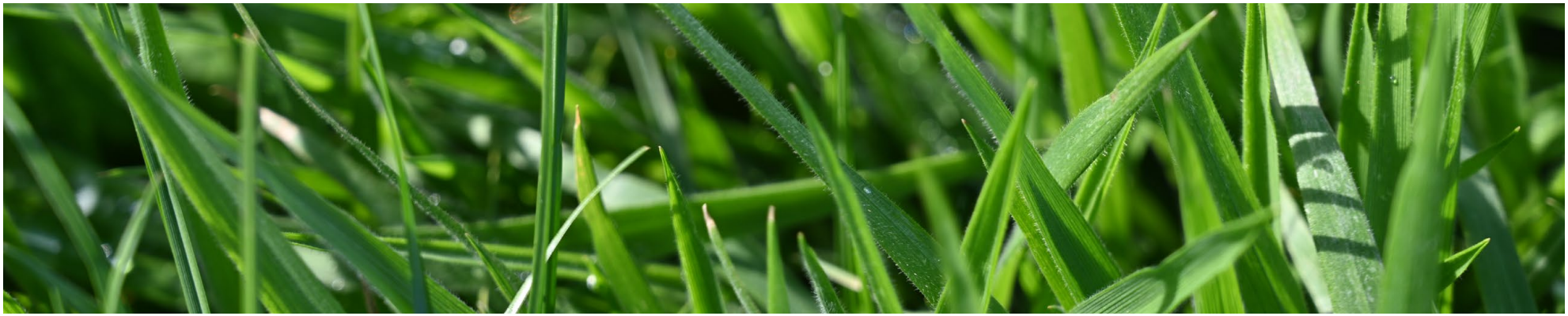
Tasmania: Forage Value Index 2023 – PERENNIAL RYEGRASS

Cultivar	FVI Tasmania	Autumn	Winter	Early Spring	Late Spring	Summer	Endophyte	Ploidy	Heading Date	Marketer	No. of trials	
											Overall	Tasmania
Base AR37	275	122	124	99	98	121	AR37	Tetraploid	Late	DLF Seeds	20	5
Halo AR37	205	117	120	97	95	121	AR37	Tetraploid	Late	DLF Seeds	19	5
Bealey NEA2	202	116	118	98	96	119	NEA2	Tetraploid	Very Late	Barenbrug Australia	13	3
Reward Endo5	192	117	117	96	97	119	Endo5	Tetraploid	Very Late	DLF Seeds	16	3
Samurye NEA12*	187	113	115	100	97	118	NEA12	Tetraploid	Late	Barenbrug Australia	3	1
One50 SE	182	113	117	99	96	118	SE	Diploid	Late	DLF Seeds	7	3
Kidman AR1	178	114	116	100	97	116	AR1	Diploid	Early	Barenbrug Australia	9	3
Viscount NEA4	177	113	115	100	98	116	NEA4	Tetraploid	Late	Barenbrug Australia	10	3
Impact2 NEA2	176	112	116	100	97	116	NEA2	Diploid	Late	Barenbrug Australia	16	4
4front NEA2	173	114	115	99	97	116	NEA2	Tetraploid	Late	Barenbrug Australia	5	2
Shogun NEA2*	171	111	115	100	96	118	NEA2	Tetraploid	Late	Barenbrug Australia	6	1
SF Hustle AR1	170	113	116	98	97	116	AR1	Diploid	Mid	Seedforce	12	3
BanquetII Endo5	161	113	115	97	96	117	Endo5	Tetraploid	Late	DLF Seeds	9	2
Prospect AR37	161	113	116	99	95	116	AR37	Diploid	Late	DLF Seeds	13	3
Maxsyn NEA4	161	113	114	98	97	116	NEA4	Diploid	Mid-Late	Barenbrug Australia	4	2
Fitzroy SE	160	111	114	102	96	114	SE	Diploid	Early	DLF Seeds	4	2
Expo AR37	156	113	116	97	97	115	AR37	Diploid	Late	DLF Seeds	11	2
Legion AR37	155	114	115	98	95	115	AR37	Diploid	Late	DLF Seeds	6	2
Platform AR37	155	113	115	98	97	114	AR37	Diploid	Late	DLF Seeds	8	2
Matrix	150	112	115	98	96	116	SE	Diploid	Late	Cropmark Seeds	9	2
Excess AR37	150	114	116	96	95	115	AR37	Diploid	Mid	DLF Seeds	13	3
One50 AR1	149	111	115	98	95	117	AR1	Diploid	Late	DLF Seeds	11	2
One50 AR37	147	113	117	97	94	116	AR37	Diploid	Late	DLF Seeds	16	4
Jackal AR1	147	112	114	98	97	114	AR1	Diploid	Mid	AGF seeds	8	3
Platinum	141	112	115	97	96	114	Low	Diploid	Late	Valley Seeds	7	2
AusVic	136	111	112	98	97	114	Low	Diploid	Mid	Vic Seeds	5	0
Wintas II	128	111	112	97	98	114	Nil	Diploid	Mid	Tasglobal Seeds	4	3
Avalon AR1	83	107	109	96	98	110	AR1	Diploid	Mid	Vic Seeds	13	3
Victorian SE	**0**	**100**	**100**	**100**	**100**	**100**	**SE**	**Diploid**	**Early**	**Various**	**20**	**4**

** Hybrid cultivar containing perennial and Italian ryegrass parentage, and as such, may not persist as long as pure perennial cultivars*

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.
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. For example, Victorian 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 Victorian in that particular FVI season. A cultivar that is 97 means it produced 97 per cent of the dry matter produced by Victorian 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 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.
No. of trials	To be included in the Perennial ryegrass Forage Value Index database, each cultivar must have data from at least three, 3-year trials.



Economic values

The economic values are a key aspect of the overall forage value index. Whilst 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 way the economic values are calculated for the FVI changed for the 2022 release.

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

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 valued more than in 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 (2011-2018 average price) 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 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 method 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.

New economic values updated for 2022 onwards

The 2022 update of the FVI used newly updated economic values for all three ryegrass species and the same EV's are again in use for this update in 2023. 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 the two new regions of 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 vs. annual/Italian ryegrasses when calculating the economic values.

Perennial Ryegrass economic values for the Forage Value Index ($/kg DM)

Region	Autumn	Winter	Early Spring	Late Spring	Summer
South West Victoria	0.36	0.37	0.31	0.29	0.32
Northern Victoria	0.36	0.37	0.30	0.28	0.32
Gippsland	0.41	0.42	0.35	0.33	0.37
Tasmania	0.39	0.41	0.31	0.30	0.36

Annual and Italian Ryegrass economic values for the 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
North Coast NSW	0.47	0.48	0.38	0.38	0.38

Tasmania Autumn seasonal performance – PERENNIAL RYEGRASS

Cultivar	Autumn	Winter	Early Spring	Late Spring	Summer	FVI Tasmania	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Base AR37	122	124	99	98	121	275	AR37	Tetraploid	Late	DLF Seeds	20
Reward Endo5	117	117	96	97	119	192	Endo5	Tetraploid	Very Late	DLF Seeds	16
Halo AR37	117	120	97	95	121	205	AR37	Tetraploid	Late	DLF Seeds	19
Bealey NEA2	116	118	98	96	119	202	NEA2	Tetraploid	Very Late	Barenbrug Australia	13
Excess AR37	114	116	96	95	115	150	AR37	Diploid	Mid	DLF Seeds	13
Legion AR37	114	115	98	95	115	155	AR37	Diploid	Late	DLF Seeds	6
4front NEA2	114	115	99	97	116	173	NEA2	Tetraploid	Late	Barenbrug Australia	5
Kidman AR1	114	116	100	97	116	178	AR1	Diploid	Early	Barenbrug Australia	9
Viscount NEA4	113	115	100	98	116	177	NEA4	Tetraploid	Late	Barenbrug Australia	10
Maxsyn NEA4	113	114	98	97	116	161	NEA4	Diploid	Mid-Late	Barenbrug Australia	4
One50 SE	113	117	99	96	118	182	SE	Diploid	Late	DLF Seeds	7
Platform AR37	113	115	98	97	114	155	AR37	Diploid	Late	DLF Seeds	8
One50 AR37	113	117	97	94	116	147	AR37	Diploid	Late	DLF Seeds	16
Samurye NEA12	113	115	100	97	118	187	NEA12	Tetraploid	Late	Barenbrug Australia	3
BanquetII Endo5	113	115	97	96	117	161	Endo5	Tetraploid	Late	DLF Seeds	9
Prospect AR37	113	116	99	95	116	161	AR37	Diploid	Late	DLF Seeds	13
SF Hustle AR1	113	116	98	97	116	170	AR1	Diploid	Mid	Seedforce	12
Expo AR37	113	116	97	97	115	156	AR37	Diploid	Late	DLF Seeds	11
Impact2 NEA2	112	116	100	97	116	176	NEA2	Diploid	Late	Barenbrug Australia	16
Jackal AR1	112	114	98	97	114	147	AR1	Diploid	Mid	AGF seeds	8
Platinum	112	115	97	96	114	141	Low	Diploid	Late	Valley Seeds	7
Matrix	112	115	98	96	116	150	SE	Diploid	Late	Cropmark Seeds	9
One50 AR1	111	115	98	95	117	149	AR1	Diploid	Late	DLF Seeds	11
Fitzroy SE	111	114	102	96	114	160	SE	Diploid	Early	DLF Seeds	4
Shogun NEA2	111	115	100	96	118	171	NEA2	Tetraploid	Late	Barenbrug Australia	6
AusVic	111	112	98	97	114	136	Low	Diploid	Mid	Vic Seeds	5
Wintas II	111	112	97	98	114	128	Nil	Diploid	Mid	Tasglobal Seeds	4
Avalon AR1	107	109	96	98	110	83	AR1	Diploid	Mid	Vic Seeds	13
Victorian SE	**100**	**100**	**100**	**100**	**100**	**0**	**SE**	**Diploid**	**Early**	**Various**	**20**

Tasmania Winter seasonal performance – PERENNIAL RYEGRASS

Cultivar	Winter	Early Spring	Late Spring	Summer	Autumn	FVI Tasmania	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Base AR37	124	99	98	121	122	275	AR37	Tetraploid	Late	DLF Seeds	20
Halo AR37	120	97	95	121	117	205	AR37	Tetraploid	Late	DLF Seeds	19
Bealey NEA2	118	98	96	119	116	202	NEA2	Tetraploid	Very Late	Barenbrug Australia	13
Reward Endo5	117	96	97	119	117	192	Endo5	Tetraploid	Very Late	DLF Seeds	16
One50 AR37	117	97	94	116	113	147	AR37	Diploid	Late	DLF Seeds	16
One50 SE	117	99	96	118	113	182	SE	Diploid	Late	DLF Seeds	7
Prospect AR37	116	99	95	116	113	161	AR37	Diploid	Late	DLF Seeds	13
Excess AR37	116	96	95	115	114	150	AR37	Diploid	Mid	DLF Seeds	13
Expo AR37	116	97	97	115	113	156	AR37	Diploid	Late	DLF Seeds	11
SF Hustle AR1	116	98	97	116	113	170	AR1	Diploid	Mid	Seedforce	12
Kidman AR1	116	100	97	116	114	178	AR1	Diploid	Early	Barenbrug Australia	9
Impact2 NEA2	116	100	97	116	112	176	NEA2	Diploid	Late	Barenbrug Australia	16
Samurye NEA12	115	100	97	118	113	187	NEA12	Tetraploid	Late	Barenbrug Australia	3
Legion AR37	115	98	95	115	114	155	AR37	Diploid	Late	DLF Seeds	6
Platinum	115	97	96	114	112	141	Low	Diploid	Late	Valley Seeds	7
BanquetII Endo5	115	97	96	117	113	161	Endo5	Tetraploid	Late	DLF Seeds	9
Matrix	115	98	96	116	112	150	SE	Diploid	Late	Cropmark Seeds	9
One50 AR1	115	98	95	117	111	149	AR1	Diploid	Late	DLF Seeds	11
Shogun NEA2	115	100	96	118	111	171	NEA2	Tetraploid	Late	Barenbrug Australia	6
Viscount NEA4	115	100	98	116	113	177	NEA4	Tetraploid	Late	Barenbrug Australia	10
4front NEA2	115	99	97	116	114	173	NEA2	Tetraploid	Late	Barenbrug Australia	5
Platform AR37	115	98	97	114	113	155	AR37	Diploid	Late	DLF Seeds	8
Maxsyn NEA4	114	98	97	116	113	161	NEA4	Diploid	Mid-Late	Barenbrug Australia	4
Fitzroy SE	114	102	96	114	111	160	SE	Diploid	Early	DLF Seeds	4
Jackal AR1	114	98	97	114	112	147	AR1	Diploid	Mid	AGF seeds	8
Wintas II	112	97	98	114	111	128	Nil	Diploid	Mid	Tasglobal Seeds	4
AusVic	112	98	97	114	111	136	Low	Diploid	Mid	Vic Seeds	5
Avalon AR1	109	96	98	110	107	83	AR1	Diploid	Mid	Vic Seeds	13
Victorian SE	**100**	**100**	**100**	**100**	**100**	**0**	**SE**	**Diploid**	**Early**	**Various**	**20**

Tasmania Early Spring seasonal performance – PERENNIAL RYEGRASS

Cultivar	Early Spring	Late Spring	Summer	Autumn	Winter	FVI Tasmania	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Fitzroy SE	102	96	114	111	114	160	SE	Diploid	Early	DLF Seeds	4
Samurye NEA12	100	97	118	113	115	187	NEA12	Tetraploid	Late	Barenbrug Australia	3
Shogun NEA2	100	96	118	111	115	171	NEA2	Tetraploid	Late	Barenbrug Australia	6
Kidman AR1	100	97	116	114	116	178	AR1	Diploid	Early	Barenbrug Australia	9
Victorian SE	**100**	**100**	**100**	**100**	**100**	**0**	**SE**	**Diploid**	**Early**	**Various**	**20**
Viscount NEA4	100	98	116	113	115	177	NEA4	Tetraploid	Late	Barenbrug Australia	10
Impact2 NEA2	100	97	116	112	116	176	NEA2	Diploid	Late	Barenbrug Australia	16
One50 SE	99	96	118	113	117	182	SE	Diploid	Late	DLF Seeds	7
4front NEA2	99	97	116	114	115	173	NEA2	Tetraploid	Late	Barenbrug Australia	5
Base AR37	99	98	121	122	124	275	AR37	Tetraploid	Late	DLF Seeds	20
Prospect AR37	99	95	116	113	116	161	AR37	Diploid	Late	DLF Seeds	13
SF Hustle AR1	98	97	116	113	116	170	AR1	Diploid	Mid	Seedforce	12
Bealey NEA2	98	96	119	116	118	202	NEA2	Tetraploid	Very Late	Barenbrug Australia	13
AusVic	98	97	114	111	112	136	Low	Diploid	Mid	Vic Seeds	5
Maxsyn NEA4	98	97	116	113	114	161	NEA4	Diploid	Mid-Late	Barenbrug Australia	4
Jackal AR1	98	97	114	112	114	147	AR1	Diploid	Mid	AGF seeds	8
Platform AR37	98	97	114	113	115	155	AR37	Diploid	Late	DLF Seeds	8
One50 AR1	98	95	117	111	115	149	AR1	Diploid	Late	DLF Seeds	11
Legion AR37	98	95	115	114	115	155	AR37	Diploid	Late	DLF Seeds	6
Matrix	98	96	116	112	115	150	SE	Diploid	Late	Cropmark Seeds	9
One50 AR37	97	94	116	113	117	147	AR37	Diploid	Late	DLF Seeds	16
Expo AR37	97	97	115	113	116	156	AR37	Diploid	Late	DLF Seeds	11
BanquetII Endo5	97	96	117	113	115	161	Endo5	Tetraploid	Late	DLF Seeds	9
Halo AR37	97	95	121	117	120	205	AR37	Tetraploid	Late	DLF Seeds	19
Platinum	97	96	114	112	115	141	Low	Diploid	Late	Valley Seeds	7
Wintas II	97	98	114	111	112	128	Nil	Diploid	Mid	Tasglobal Seeds	4
Excess AR37	96	95	115	114	116	150	AR37	Diploid	Mid	DLF Seeds	13
Reward Endo5	96	97	119	117	117	192	Endo5	Tetraploid	Very Late	DLF Seeds	16
Avalon AR1	96	98	110	107	109	83	AR1	Diploid	Mid	Vic Seeds	13

Tasmania Late Spring seasonal performance – PERENNIAL RYEGRASS

Cultivar	Late Spring	Summer	Autumn	Winter	Early Spring	FVI Tasmania	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Victorian SE	**100**	**100**	**100**	**100**	**100**	**0**	**SE**	**Diploid**	**Early**	**Various**	**20**
Avalon AR1	98	110	107	109	96	83	AR1	Diploid	Mid	Vic Seeds	13
Base AR37	98	121	122	124	99	275	AR37	Tetraploid	Late	DLF Seeds	20
Viscount NEA4	98	116	113	115	100	177	NEA4	Tetraploid	Late	Barenbrug Australia	10
Wintas II	98	114	111	112	97	128	Nil	Diploid	Mid	Tasglobal Seeds	4
Impact2 NEA2	97	116	112	116	100	176	NEA2	Diploid	Late	Barenbrug Australia	16
4front NEA2	97	116	114	115	99	173	NEA2	Tetraploid	Late	Barenbrug Australia	5
AusVic	97	114	111	112	98	136	Low	Diploid	Mid	Vic Seeds	5
Reward Endo5	97	119	117	117	96	192	Endo5	Tetraploid	Very Late	DLF Seeds	16
Samurye NEA12	97	118	113	115	100	187	NEA12	Tetraploid	Late	Barenbrug Australia	3
Platform AR37	97	114	113	115	98	155	AR37	Diploid	Late	DLF Seeds	8
Kidman AR1	97	116	114	116	100	178	AR1	Diploid	Early	Barenbrug Australia	9
SF Hustle AR1	97	116	113	116	98	170	AR1	Diploid	Mid	Seedforce	12
Jackal AR1	97	114	112	114	98	147	AR1	Diploid	Mid	AGF seeds	8
Maxsyn NEA4	97	116	113	114	98	161	NEA4	Diploid	Mid-Late	Barenbrug Australia	4
Expo AR37	97	115	113	116	97	156	AR37	Diploid	Late	DLF Seeds	11
Bealey NEA2	96	119	116	118	98	202	NEA2	Tetraploid	Very Late	Barenbrug Australia	13
Shogun NEA2	96	118	111	115	100	171	NEA2	Tetraploid	Late	Barenbrug Australia	6
Fitzroy SE	96	114	111	114	102	160	SE	Diploid	Early	DLF Seeds	4
Platinum	96	114	112	115	97	141	Low	Diploid	Late	Valley Seeds	7
BanquetII Endo5	96	117	113	115	97	161	Endo5	Tetraploid	Late	DLF Seeds	9
One50 SE	96	118	113	117	99	182	SE	Diploid	Late	DLF Seeds	7
Matrix	96	116	112	115	98	150	SE	Diploid	Late	Cropmark Seeds	9
Legion AR37	95	115	114	115	98	155	AR37	Diploid	Late	DLF Seeds	6
Excess AR37	95	115	114	116	96	150	AR37	Diploid	Mid	DLF Seeds	13
Prospect AR37	95	116	113	116	99	161	AR37	Diploid	Late	DLF Seeds	13
One50 AR1	95	117	111	115	98	149	AR1	Diploid	Late	DLF Seeds	11
Halo AR37	95	121	117	120	97	205	AR37	Tetraploid	Late	DLF Seeds	19
One50 AR37	94	116	113	117	97	147	AR37	Diploid	Late	DLF Seeds	16

Tasmania Summer seasonal performance – PERENNIAL RYEGRASS

Cultivar	Summer	Autumn	Winter	Early Spring	Late Spring	FVI Tasmania	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Base AR37	121	122	124	99	98	275	AR37	Tetraploid	Late	DLF Seeds	20
Halo AR37	121	117	120	97	95	205	AR37	Tetraploid	Late	DLF Seeds	19
Bealey NEA2	119	116	118	98	96	202	NEA2	Tetraploid	Very Late	Barenbrug Australia	13
Reward Endo5	119	117	117	96	97	192	Endo5	Tetraploid	Very Late	DLF Seeds	16
Shogun NEA2	118	111	115	100	96	171	NEA2	Tetraploid	Late	Barenbrug Australia	6
Samurye NEA12	118	113	115	100	97	187	NEA12	Tetraploid	Late	Barenbrug Australia	3
One50 SE	118	113	117	99	96	182	SE	Diploid	Late	DLF Seeds	7
BanquetII Endo5	117	113	115	97	96	161	Endo5	Tetraploid	Late	DLF Seeds	9
One50 AR1	117	111	115	98	95	149	AR1	Diploid	Late	DLF Seeds	11
SF Hustle AR1	116	113	116	98	97	170	AR1	Diploid	Mid	Seedforce	12
Impact2 NEA2	116	112	116	100	97	176	NEA2	Diploid	Late	Barenbrug Australia	16
Matrix	116	112	115	98	96	150	SE	Diploid	Late	Cropmark Seeds	9
4front NEA2	116	114	115	99	97	173	NEA2	Tetraploid	Late	Barenbrug Australia	5
Kidman AR1	116	114	116	100	97	178	AR1	Diploid	Early	Barenbrug Australia	9
Viscount NEA4	116	113	115	100	98	177	NEA4	Tetraploid	Late	Barenbrug Australia	10
Maxsyn NEA4	116	113	114	98	97	161	NEA4	Diploid	Mid-Late	Barenbrug Australia	4
Prospect AR37	116	113	116	99	95	161	AR37	Diploid	Late	DLF Seeds	13
One50 AR37	116	113	117	97	94	147	AR37	Diploid	Late	DLF Seeds	16
Excess AR37	115	114	116	96	95	150	AR37	Diploid	Mid	DLF Seeds	13
Legion AR37	115	114	115	98	95	155	AR37	Diploid	Late	DLF Seeds	6
Expo AR37	115	113	116	97	97	156	AR37	Diploid	Late	DLF Seeds	11
AusVic	114	111	112	98	97	136	Low	Diploid	Mid	Vic Seeds	5
Platform AR37	114	113	115	98	97	155	AR37	Diploid	Late	DLF Seeds	8
Fitzroy SE	114	111	114	102	96	160	SE	Diploid	Early	DLF Seeds	4
Wintas II	114	111	112	97	98	128	Nil	Diploid	Mid	Tasglobal Seeds	4
Jackal AR1	114	112	114	98	97	147	AR1	Diploid	Mid	AGF seeds	8
Platinum	114	112	115	97	96	141	Low	Diploid	Late	Valley Seeds	7
Avalon AR1	110	107	109	96	98	83	AR1	Diploid	Mid	Vic Seeds	13
Victorian SE	**100**	**100**	**100**	**100**	**100**	**0**	**SE**	**Diploid**	**Early**	**Various**	**20**

ISSN 2653-0228 (Online)

Dairy Australia Limited ABN 60 105 227 987
E enquiries@dairyaustralia.com.au
T +61 3 9694 3777
F +61 3 9694 3701
dairyaustralia.com.au

4990.5 | Feb 2023