

GIPPSLAND FORAGE VALUE INDEX 2022

# PERENNIAL 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 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 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. 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

Economic Values are determined by assessing the economic value of extra pasture grown over and above the total of the reference variety during the respective FVI seasons. More detail on EV's is provided on page 4.

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. 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 high 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](https://etools.mla.com.au/ptn) or by scanning the QR code.



## Gippsland: Forage Value Index 2022 – PERENNIAL RYEGRASS

Cultivar	FVI Gipps	Autumn	Winter	Early Spring	Late Spring	Summer	Endophyte	Ploidy	Heading Date	Marketer	No. of trials	
											Overall	Gipps
Base AR37	239	117	120	98	97	121	AR37	Tetraploid	Late	PGG Wrightson Seeds	19	3
Bealey NEA2	190	113	116	98	96	120	NEA2	Tetraploid	Very Late	Barenbrug Australia	14	2
Halo AR37	179	113	116	97	94	121	AR37	Tetraploid	Late	Agricom	16	2
Samurai NEA12*	170	110	113	100	97	118	NEA12	Tetraploid	Very Late	Barenbrug Australia	4	1
Kidman AR1	167	111	113	100	97	116	AR1	Diploid	Early	Barenbrug Australia	8	1
Impact2 NEA2	164	109	113	100	97	117	NEA2	Diploid	Late	Barenbrug Australia	17	3
Reward Endo5	161	113	114	96	96	119	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	12	3
Shogun NEA2*	158	108	112	100	96	119	NEA2	Tetraploid	Late	Barenbrug Australia	6	1
SF Hustle AR1	157	110	113	99	97	117	AR1	Diploid	Mid	Seedforce	11	2
Viscount NEA	154	110	112	99	97	116	NEA	Tetraploid	Late	Barenbrug Australia	4	1
One50 SE	149	110	113	98	96	117	SE	Diploid	Late	Agricom	4	0
Fitzroy SE	147	108	112	102	96	115	SE	Diploid	Early	PGG Wrightson Seeds	4	0
BanquetII Endo5	146	110	113	97	96	118	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9	0
Prospect AR37	144	110	114	99	95	116	AR37	Diploid	Late	Agricom	14	3
4front NEA2	142	110	112	98	97	116	NEA2	Tetraploid	Late	Barenbrug Australia	4	1
Expo AR37	140	110	113	97	96	116	AR37	Diploid	Late	PGG Wrightson Seeds	12	3
Legion AR37	139	111	113	98	96	116	AR37	Diploid	Late	Agricom	5	1
Platform AR37	137	110	112	98	97	116	AR37	Diploid	Late	PGG Wrightson Seeds	7	1
Jackal AR1	135	109	112	98	97	115	AR1	Diploid	Mid	AGF seeds	8	1
Matrix	134	109	113	97	95	117	SE	Diploid	Late	Cropmark Seeds	9	2
Excess AR37	133	111	114	96	95	116	AR37	Diploid	Mid	PGG Wrightson Seeds	13	3
One50 AR1	132	109	112	98	95	118	AR1	Diploid	Late	Agricom	11	1
One50 AR37	132	111	114	97	94	116	AR37	Diploid	Late	Agricom	15	3
Governor NEA12	131	109	112	98	96	115	NEA12	Diploid	Mid-Late	Barenbrug Australia	3	1
Rely AR37	130	109	112	97	97	115	AR37	Diploid	Mid	PGG Wrightson Seeds	3	1
Governor NEA4	129	109	111	98	96	116	NEA4	Diploid	Mid-Late	Barenbrug Australia	3	1
Platinum	122	109	113	97	96	114	Low	Diploid	Late	Valley Seeds	8	2
AusVic	119	108	109	98	97	115	Low	Diploid	Mid	Vic Seeds	5	0
Rely AR1	117	108	111	97	97	115	AR1	Diploid	Mid	PGG Wrightson Seeds	3	1
Wintas II	110	108	110	96	98	115	Nil	Diploid	Mid	Tasglobal Seeds	4	0
Avalon AR1	63	104	107	96	99	110	AR1	Diploid	Mid	Vic Seeds	14	3
<b>Victorian SE</b>	<b>0</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>SE</b>	<b>Diploid</b>	<b>Early</b>	<b>Various</b>	<b>18</b>	<b>3</b>

\* 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. <i>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.</i>
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 Forage Value Index database, each cultivar must have data from at least three, three-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 has changed for this year's 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 provides a good indication of the general value of additional pasture yield in each region, but is 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 for 2022

The 2022 update of the FVI uses new economic values for all three ryegrass species. 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

## Gippsland Autumn seasonal performance – PERENNIAL RYEGRASS

Cultivar	Autumn	Winter	Early Spring	Late Spring	Summer	FVI Gipps	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Base AR37	117	120	98	97	121	239	AR37	Tetraploid	Late	PGG Wrightson Seeds	19
Halo AR37	113	116	97	94	121	179	AR37	Tetraploid	Late	Agricom	16
Bealey NEA2	113	116	98	96	120	190	NEA2	Tetraploid	Very Late	Barenbrug Australia	14
Reward Endo5	113	114	96	96	119	161	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	12
Excess AR37	111	114	96	95	116	133	AR37	Diploid	Mid	PGG Wrightson Seeds	13
Kidman AR1	111	113	100	97	116	167	AR1	Diploid	Early	Barenbrug Australia	8
Legion AR37	111	113	98	96	116	139	AR37	Diploid	Late	Agricom	5
One50 AR37	111	114	97	94	116	132	AR37	Diploid	Late	Agricom	15
BanquetII Endo5	110	113	97	96	118	146	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
Prospect AR37	110	114	99	95	116	144	AR37	Diploid	Late	Agricom	14
Samurai NEA12	110	113	100	97	118	170	NEA12	Tetraploid	Very Late	Barenbrug Australia	4
SF Hustle AR1	110	113	99	97	117	157	AR1	Diploid	Mid	Seedforce	11
Platform AR37	110	112	98	97	116	137	AR37	Diploid	Late	PGG Wrightson Seeds	7
Expo AR37	110	113	97	96	116	140	AR37	Diploid	Late	PGG Wrightson Seeds	12
4front NEA2	110	112	98	97	116	142	NEA2	Tetraploid	Late	Barenbrug Australia	4
Viscount NEA	110	112	99	97	116	154	NEA	Tetraploid	Late	Barenbrug Australia	4
One50 SE	110	113	98	96	117	149	SE	Diploid	Late	Agricom	4
Jackal AR1	109	112	98	97	115	135	AR1	Diploid	Mid	AGF seeds	8
Governor NEA12	109	112	98	96	115	131	NEA12	Diploid	Mid-Late	Barenbrug Australia	3
Impact2 NEA2	109	113	100	97	117	164	NEA2	Diploid	Late	Barenbrug Australia	17
Platinum	109	113	97	96	114	122	Low	Diploid	Late	Valley Seeds	8
Rely AR37	109	112	97	97	115	130	AR37	Diploid	Mid	PGG Wrightson Seeds	3
Matrix	109	113	97	95	117	134	SE	Diploid	Late	Cropmark Seeds	9
Governor NEA4	109	111	98	96	116	129	NEA4	Diploid	Mid-Late	Barenbrug Australia	3
One50 AR1	109	112	98	95	118	132	AR1	Diploid	Late	Agricom	11
Fitzroy SE	108	112	102	96	115	147	SE	Diploid	Early	PGG Wrightson Seeds	4
Rely AR1	108	111	97	97	115	117	AR1	Diploid	Mid	PGG Wrightson Seeds	3
Shogun NEA2	108	112	100	96	119	158	NEA2	Tetraploid	Late	Barenbrug Australia	6
AusVic	108	109	98	97	115	119	Low	Diploid	Mid	Vic Seeds	5
Wintas II	108	110	96	98	115	110	Nil	Diploid	Mid	Tasglobal Seeds	4
Avalon AR1	104	107	96	99	110	63	AR1	Diploid	Mid	Vic Seeds	14
Victorian SE	100	100	100	100	100	0	SE	Diploid	Early	Various	18

## Gippsland Winter seasonal performance – PERENNIAL RYEGRASS

Cultivar	Winter	Early Spring	Late Spring	Summer	Autumn	FVI Gipps	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Base AR37	120	98	97	121	117	239	AR37	Tetraploid	Late	PGG Wrightson Seeds	19
Halo AR37	116	97	94	121	113	179	AR37	Tetraploid	Late	Agricom	16
Bealey NEA2	116	98	96	120	113	190	NEA2	Tetraploid	Very Late	Barenbrug Australia	14
One50 AR37	114	97	94	116	111	132	AR37	Diploid	Late	Agricom	15
Prospect AR37	114	99	95	116	110	144	AR37	Diploid	Late	Agricom	14
Reward Endo5	114	96	96	119	113	161	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	12
Excess AR37	114	96	95	116	111	133	AR37	Diploid	Mid	PGG Wrightson Seeds	13
Expo AR37	113	97	96	116	110	140	AR37	Diploid	Late	PGG Wrightson Seeds	12
One50 SE	113	98	96	117	110	149	SE	Diploid	Late	Agricom	4
SF Hustle AR1	113	99	97	117	110	157	AR1	Diploid	Mid	Seedforce	11
Kidman AR1	113	100	97	116	111	167	AR1	Diploid	Early	Barenbrug Australia	8
Impact2 NEA2	113	100	97	117	109	164	NEA2	Diploid	Late	Barenbrug Australia	17
Samurai NEA12	113	100	97	118	110	170	NEA12	Tetraploid	Very Late	Barenbrug Australia	4
Platinum	113	97	96	114	109	122	Low	Diploid	Late	Valley Seeds	8
BanquetII Endo5	113	97	96	118	110	146	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
Legion AR37	113	98	96	116	111	139	AR37	Diploid	Late	Agricom	5
Matrix	113	97	95	117	109	134	SE	Diploid	Late	Cropmark Seeds	9
One50 AR1	112	98	95	118	109	132	AR1	Diploid	Late	Agricom	11
Shogun NEA2	112	100	96	119	108	158	NEA2	Tetraploid	Late	Barenbrug Australia	6
Viscount NEA	112	99	97	116	110	154	NEA	Tetraploid	Late	Barenbrug Australia	4
Rely AR37	112	97	97	115	109	130	AR37	Diploid	Mid	PGG Wrightson Seeds	3
Platform AR37	112	98	97	116	110	137	AR37	Diploid	Late	PGG Wrightson Seeds	7
Fitzroy SE	112	102	96	115	108	147	SE	Diploid	Early	PGG Wrightson Seeds	4
4front NEA2	112	98	97	116	110	142	NEA2	Tetraploid	Late	Barenbrug Australia	4
Jackal AR1	112	98	97	115	109	135	AR1	Diploid	Mid	AGF seeds	8
Governor NEA12	112	98	96	115	109	131	NEA12	Diploid	Mid-Late	Barenbrug Australia	3
Governor NEA4	111	98	96	116	109	129	NEA4	Diploid	Mid-Late	Barenbrug Australia	3
Rely AR1	111	97	97	115	108	117	AR1	Diploid	Mid	PGG Wrightson Seeds	3
Wintas II	110	96	98	115	108	110	Nil	Diploid	Mid	Tasglobal Seeds	4
AusVic	109	98	97	115	108	119	Low	Diploid	Mid	Vic Seeds	5
Avalon AR1	107	96	99	110	104	63	AR1	Diploid	Mid	Vic Seeds	14
Victorian SE	100	100	100	100	100	0	SE	Diploid	Early	Various	18

## Gippsland early Spring seasonal performance – PERENNIAL RYEGRASS

Cultivar		Early Spring	Late Spring	Summer	Autumn	Winter	FVI Gipps	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Fitzroy SE	■	102	96	115	108	112	147	SE	Diploid	Early	PGG Wrightson Seeds	4
Shogun NEA2	■ ■	100	96	119	108	112	158	NEA2	Tetraploid	Late	Barenbrug Australia	6
Kidman AR1	■ ■ ■	100	97	116	111	113	167	AR1	Diploid	Early	Barenbrug Australia	8
Samurai NEA12	■ ■ ■	100	97	118	110	113	170	NEA12	Tetraploid	Very Late	Barenbrug Australia	4
Victorian SE	■ ■ ■ ■	100	100	100	100	100	0	SE	Diploid	Early	Various	18
Impact2 NEA2	■ ■ ■ ■	100	97	117	109	113	164	NEA2	Diploid	Late	Barenbrug Australia	17
Viscount NEA	■ ■ ■ ■	99	97	116	110	112	154	NEA	Tetraploid	Late	Barenbrug Australia	4
Prospect AR37	■ ■ ■ ■	99	95	116	110	114	144	AR37	Diploid	Late	Agricom	14
SF Hustle AR1	■ ■ ■ ■	99	97	117	110	113	157	AR1	Diploid	Mid	Seedforce	11
4front NEA2	■ ■ ■ ■	98	97	116	110	112	142	NEA2	Tetraploid	Late	Barenbrug Australia	4
Base AR37	■ ■ ■ ■ ■	98	97	121	117	120	239	AR37	Tetraploid	Late	PGG Wrightson Seeds	19
Jackal AR1	■ ■ ■ ■ ■	98	97	115	109	112	135	AR1	Diploid	Mid	AGF seeds	8
AusVic	■ ■ ■ ■ ■	98	97	115	108	109	119	Low	Diploid	Mid	Vic Seeds	5
Bealey NEA2	■ ■ ■ ■ ■	98	96	120	113	116	190	NEA2	Tetraploid	Very Late	Barenbrug Australia	14
One50 SE	■ ■ ■ ■ ■	98	96	117	110	113	149	SE	Diploid	Late	Agricom	4
Governor NEA12	■ ■ ■ ■ ■	98	96	115	109	112	131	NEA12	Diploid	Mid-Late	Barenbrug Australia	3
One50 AR1	■ ■ ■ ■ ■	98	95	118	109	112	132	AR1	Diploid	Late	Agricom	11
Legion AR37	■ ■ ■ ■ ■	98	96	116	111	113	139	AR37	Diploid	Late	Agricom	5
Platform AR37	■ ■ ■ ■ ■	98	97	116	110	112	137	AR37	Diploid	Late	PGG Wrightson Seeds	7
Governor NEA4	■ ■ ■ ■ ■	98	96	116	109	111	129	NEA4	Diploid	Mid-Late	Barenbrug Australia	3
Rely AR37	■ ■ ■ ■ ■	97	97	115	109	112	130	AR37	Diploid	Mid	PGG Wrightson Seeds	3
Matrix	■ ■ ■ ■ ■	97	95	117	109	113	134	SE	Diploid	Late	Cropmark Seeds	9
Halo AR37	■ ■ ■ ■ ■	97	94	121	113	116	179	AR37	Tetraploid	Late	Agricom	16
One50 AR37	■ ■ ■ ■ ■	97	94	116	111	114	132	AR37	Diploid	Late	Agricom	15
BanquetII Endo5	■ ■ ■ ■ ■	97	96	118	110	113	146	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
Expo AR37	■ ■ ■ ■ ■	97	96	116	110	113	140	AR37	Diploid	Late	PGG Wrightson Seeds	12
Rely AR1	■ ■ ■ ■ ■	97	97	115	108	111	117	AR1	Diploid	Mid	PGG Wrightson Seeds	3
Platinum	■ ■ ■ ■ ■	97	96	114	109	113	122	Low	Diploid	Late	Valley Seeds	8
Wintas II	■ ■ ■ ■ ■	96	98	115	108	110	110	Nil	Diploid	Mid	Tasglobal Seeds	4
Excess AR37	■ ■ ■ ■ ■	96	95	116	111	114	133	AR37	Diploid	Mid	PGG Wrightson Seeds	13
Reward Endo5	■ ■ ■ ■ ■	96	96	119	113	114	161	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	12
Avalon AR1	■ ■ ■ ■ ■	96	99	110	104	107	63	AR1	Diploid	Mid	Vic Seeds	14



## Gippsland late Spring seasonal performance – PERENNIAL RYEGRASS

Cultivar		Late Spring	Summer	Autumn	Winter	Early Spring	FVI Gipps	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Victorian SE	■	100	100	100	100	100	0	SE	Diploid	Early	Various	18
Avalon AR1	■ ■	99	110	104	107	96	63	AR1	Diploid	Mid	Vic Seeds	14
Wintas II	■ ■ ■ ■	98	115	108	110	96	110	Nil	Diploid	Mid	Tasglobal Seeds	4
Impact2 NEA2	■ ■ ■ ■ ■	97	117	109	113	100	164	NEA2	Diploid	Late	Barenbrug Australia	17
Viscount NEA	■ ■ ■ ■ ■	97	116	110	112	99	154	NEA	Tetraploid	Late	Barenbrug Australia	4
Base AR37	■ ■ ■ ■ ■ ■	97	121	117	120	98	239	AR37	Tetraploid	Late	PGG Wrightson Seeds	19
AusVic	■ ■ ■ ■ ■	97	115	108	109	98	119	Low	Diploid	Mid	Vic Seeds	5
Samurai NEA12	■ ■ ■ ■ ■	97	118	110	113	100	170	NEA12	Tetraploid	Very late	Barenbrug Australia	4
Kidman AR1	■ ■ ■ ■ ■	97	116	111	113	100	167	AR1	Diploid	Early	Barenbrug Australia	8
Jackal AR1	■ ■ ■ ■ ■	97	115	109	112	98	135	AR1	Diploid	Mid	AGF seeds	8
4front NEA2	■ ■ ■ ■ ■	97	116	110	112	98	142	NEA2	Tetraploid	Late	Barenbrug Australia	4
SF Hustle AR1	■ ■ ■ ■ ■	97	117	110	113	99	157	AR1	Diploid	Mid	Seedforce	11
Platform AR37	■ ■ ■ ■ ■	97	116	110	112	98	137	AR37	Diploid	Late	PGG Wrightson Seeds	7
Rely AR37	■ ■ ■ ■ ■	97	115	109	112	97	130	AR37	Diploid	Mid	PGG Wrightson Seeds	3
Rely AR1	■ ■ ■ ■ ■	97	115	108	111	97	117	AR1	Diploid	Mid	PGG Wrightson Seeds	3
Expo AR37	■ ■ ■ ■ ■	96	116	110	113	97	140	AR37	Diploid	Late	PGG Wrightson Seeds	12
Reward Endo5	■ ■ ■ ■ ■	96	119	113	114	96	161	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	12
Governor NEA4	■ ■ ■ ■ ■	96	116	109	111	98	129	NEA4	Diploid	Mid-Late	Barenbrug Australia	3
Governor NEA12	■ ■ ■ ■ ■	96	115	109	112	98	131	NEA12	Diploid	Mid-Late	Barenbrug Australia	3
Shogun NEA2	■ ■ ■ ■ ■	96	119	108	112	100	158	NEA2	Tetraploid	Late	Barenbrug Australia	6
Fitzroy SE	■ ■ ■ ■ ■	96	115	108	112	102	147	SE	Diploid	Early	PGG Wrightson Seeds	4
Bealey NEA2	■ ■ ■ ■ ■ ■	96	120	113	116	98	190	NEA2	Tetraploid	Very Late	Barenbrug Australia	14
Platinum	■ ■ ■ ■ ■	96	114	109	113	97	122	Low	Diploid	Late	Valley Seeds	8
BanquetII Endo5	■ ■ ■ ■ ■	96	118	110	113	97	146	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
One50 SE	■ ■ ■ ■ ■	96	117	110	113	98	149	SE	Diploid	Late	Agricom	4
Legion AR37	■ ■ ■ ■ ■	96	116	111	113	98	139	AR37	Diploid	Late	Agricom	5
Matrix	■ ■ ■ ■ ■	95	117	109	113	97	134	SE	Diploid	Late	Cropmark Seeds	9
Excess AR37	■ ■ ■ ■ ■	95	116	111	114	96	133	AR37	Diploid	Mid	PGG Wrightson Seeds	13
Prospect AR37	■ ■ ■ ■ ■	95	116	110	114	99	144	AR37	Diploid	Late	Agricom	14
One50 AR1	■ ■ ■ ■ ■ ■	95	118	109	112	98	132	AR1	Diploid	Late	Agricom	11
Halo AR37	■ ■ ■ ■ ■ ■ ■	94	121	113	116	97	179	AR37	Tetraploid	Late	Agricom	16
One50 AR37	■ ■ ■ ■ ■ ■ ■	94	116	111	114	97	132	AR37	Diploid	Late	Agricom	15

## Gippsland Summer seasonal performance – PERENNIAL RYEGRASS

Cultivar	Summer	Autumn	Winter	Early Spring	Late Spring	FVI Gipps	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Halo AR37	121	113	116	97	94	179	AR37	Tetraploid	Late	Agricom	16
Base AR37	121	117	120	98	97	239	AR37	Tetraploid	Late	PGG Wrightson Seeds	19
Bealey NEA2	120	113	116	98	96	190	NEA2	Tetraploid	Very Late	Barenbrug Australia	14
Shogun NEA2	119	108	112	100	96	158	NEA2	Tetraploid	Late	Barenbrug Australia	6
Reward Endo5	119	113	114	96	96	161	Endo5	Tetraploid	Very late	PGG Wrightson Seeds	12
Samurai NEA12	118	110	113	100	97	170	NEA12	Tetraploid	Very Late	Barenbrug Australia	4
BanquetII Endo5	118	110	113	97	96	146	Endo5	Tetraploid	Late	PGG Wrightson Seeds	9
One50 AR1	118	109	112	98	95	132	AR1	Diploid	Late	Agricom	11
One50 SE	117	110	113	98	96	149	SE	Diploid	Late	Agricom	4
SF Hustle AR1	117	110	113	99	97	157	AR1	Diploid	Mid	Seedforce	11
Impact2 NEA2	117	109	113	100	97	164	NEA2	Diploid	Late	Barenbrug Australia	17
Matrix	117	109	113	97	95	134	SE	Diploid	Late	Cropmark Seeds	9
One50 AR37	116	111	114	97	94	132	AR37	Diploid	Late	Agricom	15
Kidman AR1	116	111	113	100	97	167	AR1	Diploid	Early	Barenbrug Australia	8
Prospect AR37	116	110	114	99	95	144	AR37	Diploid	Late	Agricom	14
Excess AR37	116	111	114	96	95	133	AR37	Diploid	Mid	PGG Wrightson Seeds	13
Legion AR37	116	111	113	98	96	139	AR37	Diploid	Late	Agricom	5
4front NEA2	116	110	112	98	97	142	NEA2	Tetraploid	Late	Barenbrug Australia	4
Platform AR37	116	110	112	98	97	137	AR37	Diploid	Late	PGG Wrightson Seeds	7
Viscount NEA	116	110	112	99	97	154	NEA	Tetraploid	Late	Barenbrug Australia	4
Expo AR37	116	110	113	97	96	140	AR37	Diploid	Late	PGG Wrightson Seeds	12
Governor NEA4	116	109	111	98	96	129	NEA4	Diploid	Mid-Late	Barenbrug Australia	3
Governor NEA12	115	109	112	98	96	131	NEA12	Diploid	Mid-Late	Barenbrug Australia	3
Rely AR37	115	109	112	97	97	130	AR37	Diploid	Mid	PGG Wrightson Seeds	3
Rely AR1	115	108	111	97	97	117	AR1	Diploid	Mid	PGG Wrightson Seeds	3
AusVic	115	108	109	98	97	119	Low	Diploid	Mid	Vic Seeds	5
Fitzroy SE	115	108	112	102	96	147	SE	Diploid	Early	PGG Wrightson Seeds	4
Jackal AR1	115	109	112	98	97	135	AR1	Diploid	Mid	AGF seeds	8
Wintas II	115	108	110	96	98	110	Nil	Diploid	Mid	Tasglobal Seeds	4
Platinum	114	109	113	97	96	122	Low	Diploid	Late	Valley Seeds	8
Avalon AR1	110	104	107	96	99	63	AR1	Diploid	Mid	Vic Seeds	14
Victorian SE	100	100	100	100	100	0	SE	Diploid	Early	Various	18

#### Disclaimer

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