



GIPPSLAND FORAGE VALUE INDEX 2022

# ITALIAN 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 – ITALIAN RYEGRASS

Cultivar	FVI Gipps	Autumn	Winter	Early Spring	Late Spring	Summer	Endophyte	Ploidy	Heading Date	Marketer	No. of trials	
											Overall	Gipps
Tempo	126	125	109	103	102	102	Nil	D	Late	Barenbrug Australia	16	2
Aston	84	133	105	100	100	99	Nil	T	Late	Barenbrug Australia	8	1
Feast II	47	115	102	98	101	102	Nil	T	Late	PGG Wrightson Seeds	16	2
Mohaka AR37	42	119	101	100	100	100	AR37	T	Late	Agricom	3	1
SF Emmerson	36	118	97	99	101	101	Nil	T	Late	Seed Force	3	1
Jackpot	30	105	104	102	100	99	Nil	D	Late	DLF Seeds	12	1
Arise	29	100	104	101	101	101	Nil	T	Late	Barenbrug Australia	13	1
Manta	18	100	103	100	101	101	Nil	D	Late	Agricom	4	1
Concord II	17	98	104	101	99	101	Nil	D	Late	PGG Wrightson Seeds	16	2
SF Accelerate 2	12	100	101	100	101	101	Nil	D	Late	Seed Force	5	1
Amass	12	100	101	99	101	101	Nil	T	Mid	Valley Seeds	7	1
Nourish	4	100	102	99	100	101	Nil	T	Late	PGG Wrightson Seeds	6	0
Lush AR37	2	100	100	99	100	101	AR37	T	Late	PGG Wrightson Seeds	7	0
Awesome	2	100	102	100	100	99	Nil	D	Late	Upper Murray Seeds	4	0
Thumpa	1	106	101	98	100	99	Nil	T	Late	Agricom	16	2
Echo	1	101	100	100	100	100	Nil	T	Mid	Tas Global Seeds	4	1
<b>Crusader</b>	<b>0</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>Nil</b>	<b>D</b>	<b>Late</b>	<b>Agricom</b>	<b>6</b>	<b>0</b>
Combat	0	100	102	100	100	99	Nil	D	Mid	Upper Murray Seeds	4	0
Asset AR37	-6	93	103	100	100	100	AR37	D	Late	Agricom	4	1
Mona	-8	94	101	99	102	100	Nil	T	Late	DLF Seeds	12	1
Xtend	-8	100	99	99	101	99	Nil	D	Mid	AGF Seeds	7	1
Pepper	-9	100	102	99	100	99	Nil	T	Mid/Late	Seed Force	5	1
Knight	-22	94	105	99	98	99	Nil	D	Late	Agricom	16	2
Sonik	-29	94	100	99	99	99	Nil	D	Late	Cropmark Seeds	4	1
Maverick GII	-54	76	101	100	100	99	Nil	D	Mid	PGG Wrightson Seeds	4	1
Blade	-71	75	99	99	100	98	Nil	D	Late	Cropmark Seeds	4	1

### Notes

- 1 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 FVI's 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 line.
- 2 Data to create the performance values for each cultivar was taken from sixteen Italian ryegrass trials. The trials were located in the following regions and were measured at various stages between 2015 and 2020 – Leongatha, Terang, Howlong (x4), Kiewa Valley, Shepparton, Taree, Aberdeen (x2), Meander Valley, Lardner Park, Bega, Warrnambool and MacArthur.
- 3 In the Italian ryegrass FVI, only trial data from the first year of growth is included in the calculations. The majority of Italian ryegrass PTN trials do not persist into a second year – in future when there is sufficient data from year 2 of a trial for Italian cultivars it will be included in a 2-year Italian ryegrass FVI

## 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 Crusader Italian ryegrass. This is a percentage ranking – percent better or worse than Crusader ryegrass. <i>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.</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 Italian ryegrass Forage Value Index database, each cultivar must have data from at least three, one-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 – ITALIAN RYEGRASS

Cultivar	Autumn	Winter	Early Spring	Late Spring	Summer	FVI Gipps	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Aston	133	105	100	100	99	84	Nil	T	Late	Barenbrug Australia	8
Tempo	125	109	103	102	102	126	Nil	D	Late	Barenbrug Australia	16
Mohaka AR37	119	101	100	100	100	42	AR37	T	Late	Agricom	3
SF Emmerson	118	97	99	101	101	36	Nil	T	Late	Seed Force	3
Feast II	115	102	98	101	102	47	Nil	T	Late	PGG Wrightson Seeds	16
Thumpa	106	101	98	100	99	1	Nil	T	Late	Agricom	16
Jackpot	105	104	102	100	99	30	Nil	D	Late	DLF Seeds	12
Echo	101	100	100	100	100	1	Nil	T	Mid	Tas Global Seeds	4
Amass	100	101	99	101	101	12	Nil	T	Mid	Valley Seeds	7
Arise	100	104	101	101	101	29	Nil	T	Late	Barenbrug Australia	13
Awesome	100	102	100	100	99	2	Nil	D	Late	Upper Murray Seeds	4
Combat	100	102	100	100	99	0	Nil	D	Mid	Upper Murray Seeds	4
<b>Crusader</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>0</b>	<b>Nil</b>	<b>D</b>	<b>Late</b>	<b>Agricom</b>	<b>6</b>
Manta	100	103	100	101	101	18	Nil	D	Late	Agricom	4
Lush AR37	100	100	99	100	101	2	AR37	T	Late	PGG Wrightson Seeds	7
Nourish	100	102	99	100	101	4	Nil	T	Late	PGG Wrightson Seeds	6
Pepper	100	102	99	100	99	-9	Nil	T	Mid/Late	Seed Force	5
SF Accelerate 2	100	101	100	101	101	12	Nil	D	Late	Seed Force	5
Xtend	100	99	99	101	99	-8	Nil	D	Mid	AGF Seeds	7
Concord II	98	104	101	99	101	17	Nil	D	Late	PGG Wrightson Seeds	16
Mona	94	101	99	102	100	-8	Nil	T	Late	DLF Seeds	12
Sonik	94	100	99	99	99	-29	Nil	D	Late	Cropmark Seeds	4
Knight	94	105	99	98	99	-22	Nil	D	Late	Agricom	16
Asset AR37	93	103	100	100	100	-6	AR37	D	Late	Agricom	4
Maverick GII	76	101	100	100	99	-54	Nil	D	Mid	PGG Wrightson Seeds	4
Blade	75	99	99	100	98	-71	Nil	D	Late	Cropmark Seeds	4

## Gippsland Winter seasonal performance – ITALIAN RYEGRASS

Cultivar		Winter	Early Spring	Late Spring	Summer	Autumn	FVI Gipps	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Tempo	■	109	103	102	102	125	126	Nil	D	Late	Barenbrug Australia	16
Knight	■ ■	105	99	98	99	94	-22	Nil	D	Late	Agricom	16
Aston	■ ■	105	100	100	99	133	84	Nil	T	Late	Barenbrug Australia	8
Jackpot	■ ■	104	102	100	99	105	30	Nil	D	Late	DLF Seeds	12
Arise	■ ■ ■	104	101	101	101	100	29	Nil	T	Late	Barenbrug Australia	13
Concord II	■ ■ ■	104	101	99	101	98	17	Nil	D	Late	PGG Wrightson Seeds	16
Asset AR37	■ ■ ■	103	100	100	100	93	-6	AR37	D	Late	Agricom	4
Manta	■ ■ ■	103	100	101	101	100	18	Nil	D	Late	Agricom	4
Feast II	■ ■ ■	102	98	101	102	115	47	Nil	T	Late	PGG Wrightson Seeds	16
Combat	■ ■ ■	102	100	100	99	100	0	Nil	D	Mid	Upper Murray Seeds	4
Pepper	■ ■ ■	102	99	100	99	100	-9	Nil	T	Mid/Late	Seed Force	5
Nourish	■ ■ ■	102	99	100	101	100	4	Nil	T	Late	PGG Wrightson Seeds	6
Awesome	■ ■ ■	102	100	100	99	100	2	Nil	D	Late	Upper Murray Seeds	4
SF Accelerate 2	■ ■ ■	101	100	101	101	100	12	Nil	D	Late	Seed Force	5
Maverick GII	■ ■ ■	101	100	100	99	76	-54	Nil	D	Mid	PGG Wrightson Seeds	4
Mona	■ ■ ■	101	99	102	100	94	-8	Nil	T	Late	DLF Seeds	12
Thumpa	■ ■ ■	101	98	100	99	106	1	Nil	T	Late	Agricom	16
Amass	■ ■ ■	101	99	101	101	100	12	Nil	T	Mid	Valley Seeds	7
Mohaka AR37	■ ■ ■	101	100	100	100	119	42	AR37	T	Late	Agricom	3
Lush AR37	■ ■ ■	100	99	100	101	100	2	AR37	T	Late	PGG Wrightson Seeds	7
Echo	■ ■ ■	100	100	100	100	101	1	Nil	T	Mid	Tas Global Seeds	4
<b>Crusader</b>	■ ■ ■ ■	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>0</b>	<b>Nil</b>	<b>D</b>	<b>Late</b>	<b>Agricom</b>	<b>6</b>
Sonik	■ ■ ■ ■	100	99	99	99	94	-29	Nil	D	Late	Cropmark Seeds	4
Xtend	■ ■ ■ ■	99	99	101	99	100	-8	Nil	D	Mid	AGF Seeds	7
Blade	■ ■ ■ ■	99	99	100	98	75	-71	Nil	D	Late	Cropmark Seeds	4
SF Emmerson	■ ■ ■ ■	97	99	101	101	118	36	Nil	T	Late	Seed Force	3

## Gippsland early Spring seasonal performance – ITALIAN RYEGRASS

Cultivar	Early Spring	Late Spring	Summer	Autumn	Winter	FVI Gipps	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Tempo	103	102	102	125	109	126	Nil	D	Late	Barenbrug Australia	16
Jackpot	102	100	99	105	104	30	Nil	D	Late	DLF Seeds	12
Arise	101	101	101	100	104	29	Nil	T	Late	Barenbrug Australia	13
Concord II	101	99	101	98	104	17	Nil	D	Late	PGG Wrightson Seeds	16
Awesome	100	100	99	100	102	2	Nil	D	Late	Upper Murray Seeds	4
Aston	100	100	99	133	105	84	Nil	T	Late	Barenbrug Australia	8
Combat	100	100	99	100	102	0	Nil	D	Mid	Upper Murray Seeds	4
SF Accelerate 2	100	101	101	100	101	12	Nil	D	Late	Seed Force	5
Asset AR37	100	100	100	93	103	-6	AR37	D	Late	Agricom	4
<b>Crusader</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>0</b>	<b>Nil</b>	<b>D</b>	<b>Late</b>	<b>Agricom</b>	<b>6</b>
Maverick GII	100	100	99	76	101	-54	Nil	D	Mid	PGG Wrightson Seeds	4
Echo	100	100	100	101	100	1	Nil	T	Mid	Tas Global Seeds	4
Manta	100	101	101	100	103	18	Nil	D	Late	Agricom	4
Mohaka AR37	100	100	100	119	101	42	AR37	T	Late	Agricom	3
Lush AR37	99	100	101	100	100	2	AR37	T	Late	PGG Wrightson Seeds	7
SF Emmerson	99	101	101	118	97	36	Nil	T	Late	Seed Force	3
Amass	99	101	101	100	101	12	Nil	T	Mid	Valley Seeds	7
Knight	99	98	99	94	105	-22	Nil	D	Late	Agricom	16
Xtend	99	101	99	100	99	-8	Nil	D	Mid	AGF Seeds	7
Blade	99	100	98	75	99	-71	Nil	D	Late	Cropmark Seeds	4
Pepper	99	100	99	100	102	-9	Nil	T	Mid/Late	Seed Force	5
Mona	99	102	100	94	101	-8	Nil	T	Late	DLF Seeds	12
Sonik	99	99	99	94	100	-29	Nil	D	Late	Cropmark Seeds	4
Nourish	99	100	101	100	102	4	Nil	T	Late	PGG Wrightson Seeds	6
Thumpa	98	100	99	106	101	1	Nil	T	Late	Agricom	16
Feast II	98	101	102	115	102	47	Nil	T	Late	PGG Wrightson Seeds	16



## Gippsland late Spring seasonal performance – ITALIAN RYEGRASS

Cultivar		Late Spring	Summer	Autumn	Winter	Early Spring	FVI Gipps	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Tempo		102	102	125	109	103	126	Nil	D	Late	Barenbrug Australia	16
Mona		102	100	94	101	99	-8	Nil	T	Late	DLF Seeds	12
Feast II		101	102	115	102	98	47	Nil	T	Late	PGG Wrightson Seeds	16
Amass		101	101	100	101	99	12	Nil	T	Mid	Valley Seeds	7
Arise		101	101	100	104	101	29	Nil	T	Late	Barenbrug Australia	13
Xtend		101	99	100	99	99	-8	Nil	D	Mid	AGF Seeds	7
SF Emmerson		101	101	118	97	99	36	Nil	T	Late	Seed Force	3
Manta		101	101	100	103	100	18	Nil	D	Late	Agricom	4
SF Accelerate 2		101	101	100	101	100	12	Nil	D	Late	Seed Force	5
Aston		100	99	133	105	100	84	Nil	T	Late	Barenbrug Australia	8
Echo		100	100	101	100	100	1	Nil	T	Mid	Tas Global Seeds	4
Jackpot		100	99	105	104	102	30	Nil	D	Late	DLF Seeds	12
Blade		100	98	75	99	99	-71	Nil	D	Late	Cropmark Seeds	4
Mohaka AR37		100	100	119	101	100	42	AR37	T	Late	Agricom	3
Lush AR37		100	101	100	100	99	2	AR37	T	Late	PGG Wrightson Seeds	7
Thumpa		100	99	106	101	98	1	Nil	T	Late	Agricom	16
<b>Crusader</b>		<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>0</b>	<b>Nil</b>	<b>D</b>	<b>Late</b>	<b>Agricom</b>	<b>6</b>
Combat		100	99	100	102	100	0	Nil	D	Mid	Upper Murray Seeds	4
Awesome		100	99	100	102	100	2	Nil	D	Late	Upper Murray Seeds	4
Asset AR37		100	100	93	103	100	-6	AR37	D	Late	Agricom	4
Nourish		100	101	100	102	99	4	Nil	T	Late	PGG Wrightson Seeds	6
Pepper		100	99	100	102	99	-9	Nil	T	Mid/Late	Seed Force	5
Maverick GII		100	99	76	101	100	-54	Nil	D	Mid	PGG Wrightson Seeds	4
Concord II		99	101	98	104	101	17	Nil	D	Late	PGG Wrightson Seeds	16
Sonik		99	99	94	100	99	-29	Nil	D	Late	Cropmark Seeds	4
Knight		98	99	94	105	99	-22	Nil	D	Late	Agricom	16

## Gippsland Summer seasonal performance – ITALIAN RYEGRASS

Cultivar	Summer	Autumn	Winter	Early Spring	Late Spring	FVI Gipps	Endophyte	Ploidy	Heading Date	Marketer	No. of trials
Tempo	102	125	109	103	102	126	Nil	D	Late	Barenbrug Australia	16
Feast II	102	115	102	98	101	47	Nil	T	Late	PGG Wrightson Seeds	16
SF Emmerson	101	118	97	99	101	36	Nil	T	Late	Seed Force	3
Amass	101	100	101	99	101	12	Nil	T	Mid	Valley Seeds	7
Nourish	101	100	102	99	100	4	Nil	T	Late	PGG Wrightson Seeds	6
Manta	101	100	103	100	101	18	Nil	D	Late	Agricom	4
Concord II	101	98	104	101	99	17	Nil	D	Late	PGG Wrightson Seeds	16
Arise	101	100	104	101	101	29	Nil	T	Late	Barenbrug Australia	13
Lush AR37	101	100	100	99	100	2	AR37	T	Late	PGG Wrightson Seeds	7
SF Accelerate 2	101	100	101	100	101	12	Nil	D	Late	Seed Force	5
Mohaka AR37	100	119	101	100	100	42	AR37	T	Late	Agricom	3
<b>Crusader</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>0</b>	<b>Nil</b>	<b>D</b>	<b>Late</b>	<b>Agricom</b>	<b>6</b>
Asset AR37	100	93	103	100	100	-6	AR37	D	Late	Agricom	4
Mona	100	94	101	99	102	-8	Nil	T	Late	DLF Seeds	12
Echo	100	101	100	100	100	1	Nil	T	Mid	Tas Global Seeds	4
Xtend	99	100	99	99	101	-8	Nil	D	Mid	AGF Seeds	7
Sonik	99	94	100	99	99	-29	Nil	D	Late	Cropmark Seeds	4
Aston	99	133	105	100	100	84	Nil	T	Late	Barenbrug Australia	8
Jackpot	99	105	104	102	100	30	Nil	D	Late	DLF Seeds	12
Thumpa	99	106	101	98	100	1	Nil	T	Late	Agricom	16
Knight	99	94	105	99	98	-22	Nil	D	Late	Agricom	16
Awesome	99	100	102	100	100	2	Nil	D	Late	Upper Murray Seeds	4
Pepper	99	100	102	99	100	-9	Nil	T	Mid/Late	Seed Force	5
Maverick GII	99	76	101	100	100	-54	Nil	D	Mid	PGG Wrightson Seeds	4
Combat	99	100	102	100	100	0	Nil	D	Mid	Upper Murray Seeds	4
Blade	98	75	99	99	100	-71	Nil	D	Late	Cropmark Seeds	4

#### Disclaimer

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