

2022



PRODUCT CATALOGUE

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OUR PEAS

The 2022 PGRO Descriptive Lists for combining peas show that LSPB varieties continue to offer pulse growers a wide choice to meet their yield, agronomy, and marketing priorities

Newly listed Carrington is the top yielding pea on the PGRO DL and joins market-leading Bluetime, along with Stroma, Greenwich and Blueman green peas, Orchestra yellow pea and top-yielding Akooma marrowfat

Looking to the future, we have a range of promising Candidates for the DL in the pipeline - including combining pea varieties to do our part in developing the UK pulse crop in the future.



ORCHESTRA



YELLOW PEA

Orchestra is on the PGRO Descriptive List of Combining Peas for 2022. It is a high yielding, yellow (white) variety with the highest thousand seed weight and high standing power.

It is also resistant to Pea wilt

KEY CHARACTERISTICS

Data Source: PGRO Descriptive List for Combining Peas 2022



- High seed yields on the PGRO DL
- Earliness of maturity
- High standing ability at harvest

OUTPUT

Yield as % control 111

AGRONOMICS

Earliness of maturity 6

Straw length (cm) 82

Standing ability at harvest 6

SEED CHARACTERISTICS

Thousand seed weight (g) (@15%mc) 311

Protein content 22.1

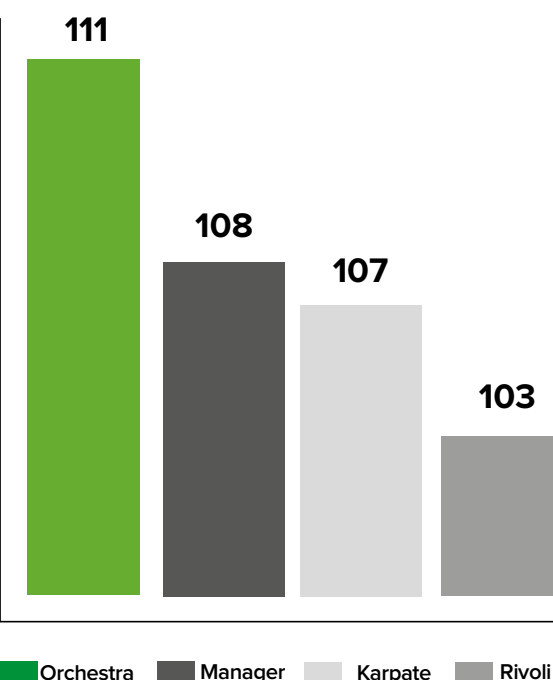
DISEASE

Resistance to Pea wilt R

Resistance to Downy mildew 5

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree

YIELD PERFORMANCE



The control for yield is the mean of 4 & 5 year varieties (4.05 t/ha). Yield differences of less than 13.6% are not statistically different. Other DL varieties are shown for comparison.



Stand Strong with the **King** of the Crop

- Highest yielding on the PGRO DL
- High Downy Mildew Resistance
- Good Standing Power



NOW'S THE TIME TO CHANGE

- Very high seed yields on the PGRO DL
- High resistance to Downy mildew
- High standing ability at harvest

CARRINGTON



GREEN PEA

Carrington is newly added to the PGRO Descriptive List of Combining Peas for 2022. It is the highest yielding variety on the list, combined with a high Downy mildew resistance and good standing power. It is also resistant to Pea wilt.

Data Source: PGRO Descriptive List for Combining Peas 2022

KEY CHARACTERISTICS

- Highest yielding pea on the PGRO DL
- High resistance to Downy mildew
- High standing ability at harvest



OUTPUT

Yield as % control 117

AGRONOMICS

Earliness of maturity 6

Straw length (cm) 88

Standing ability at harvest 7

SEED CHARACTERISTICS

Thousand seed weight (g) (@15%mc) 234

Protein content 21.5

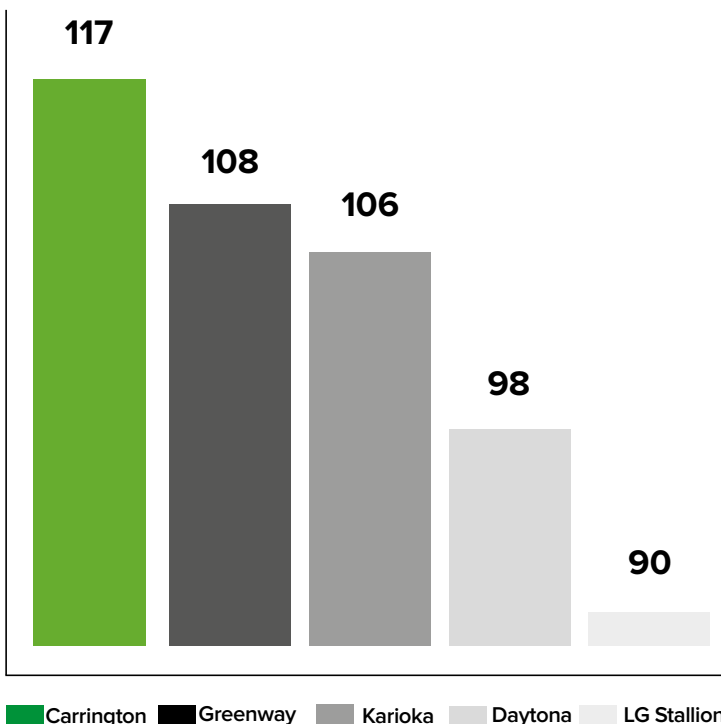
DISEASE

Resistance to Pea wilt R

Resistance to Downy mildew 8

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree

YIELD PERFORMANCE



The control for yield is the mean of 4 & 5 year varieties (4.05 t/ha). Yield differences of less than 13.6% are not statistically different. Other DL varieties are shown for comparison.

BLUETIME



GREEN PEA

Bluetime is on the PGRO Descriptive List of Combining Peas for 2022. It is a very high yielding, green (blue) variety, combined with a high Downy mildew resistance and good standing power and also resistant to Pea wilt.

Data Source: PGRO Descriptive List for Combining Peas 2022

KEY CHARACTERISTICS

- Very high seed yields on the PGRO DL
- High resistance to Downy mildew
- High standing ability at harvest



OUTPUT

Yield as % control 110

AGRONOMICS

Earliness of maturity 4

Straw length (cm) 93

Standing ability at harvest 6

SEED CHARACTERISTICS

Thousand seed weight (g) (@15%mc) 279

Protein content 21.4

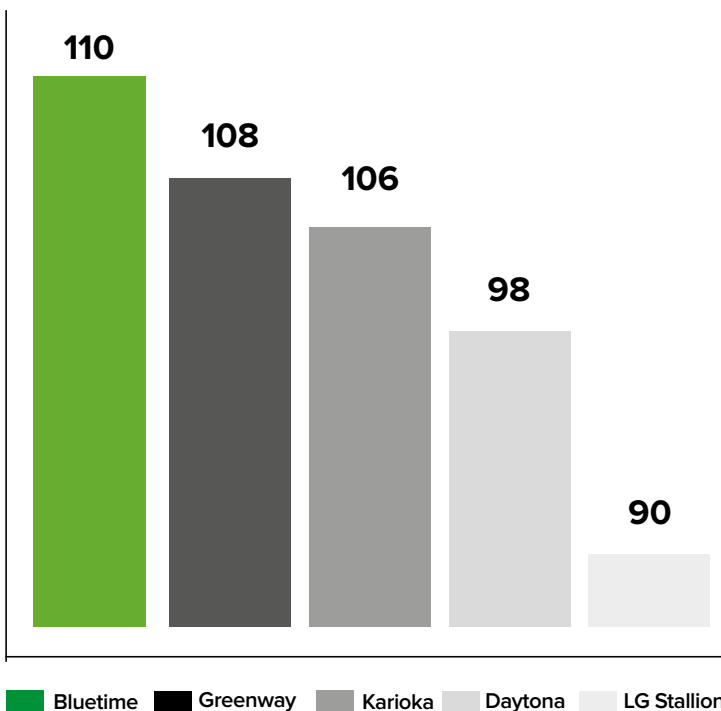
DISEASE

Resistance to Pea wilt R

Resistance to Downy mildew 8

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree

YIELD PERFORMANCE



The control for yield is the mean of 4 & 5 year varieties (4.05 t/ha). Yield differences of less than 13.6% are not statistically different. Other DL varieties are shown for comparison.

STROMA



GREEN PEA

Stroma is on the PGRO Descriptive List of Combining Peas for 2022. It is a very high yielding, green (blue) variety with high thousand seed weight and good standing power.

It is also resistant to Pea wilt.

KEY CHARACTERISTICS

Data Source: PGRO Descriptive List for Combining Peas 2022



- Very high seed yields on the PGRO DL
- Earliness of maturity
- High standing ability at harvest

OUTPUT

Yield as % control 107

AGRONOMICS

Earliness of maturity 6

Straw length (cm) 83

Standing ability at harvest 6

SEED CHARACTERISTICS

Thousand seed weight (g) (@15%mc) 309

Protein content 21.4

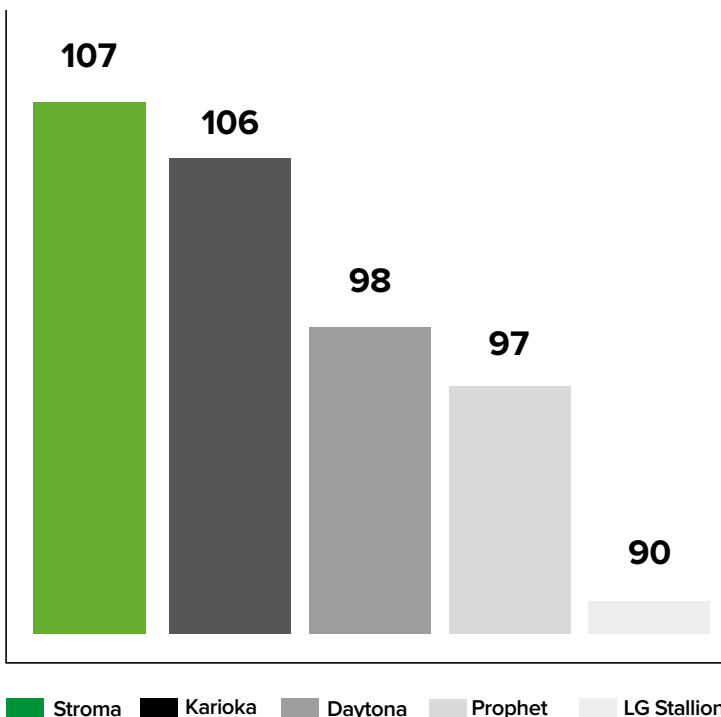
DISEASE

Resistance to Pea wilt R

Resistance to Downy mildew 4

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree

YIELD PERFORMANCE



The control for yield is the mean of 4 & 5 year varieties (4.05 t/ha). Yield differences of less than 13.6% are not statistically different. Other DL varieties are shown for comparison.

BLUEMAN



GREEN PEA

Blueman is on the PGRO Descriptive List of Combining Peas for 2022. It is a high yielding, green (blue) variety, combined with highest equal Downy mildew resistance, high resistance to Powdery mildew and good standing power and also resistant to Pea wilt.

Data Source: PGRO Descriptive List for Combining Peas 2022

KEY CHARACTERISTICS

- High seed yields on the PGRO DL
- Highest equal resistance to Downy mildew
- High standing ability at harvest
- Highest resistance to Powdery mildew



OUTPUT

Yield as % control 102

AGRONOMICS

Earliness of maturity 2

Straw length (cm) 89

Standing ability at harvest 7

SEED CHARACTERISTICS

Thousand seed weight (g) (@15%mc) 231

Protein content 23.0

DISEASE

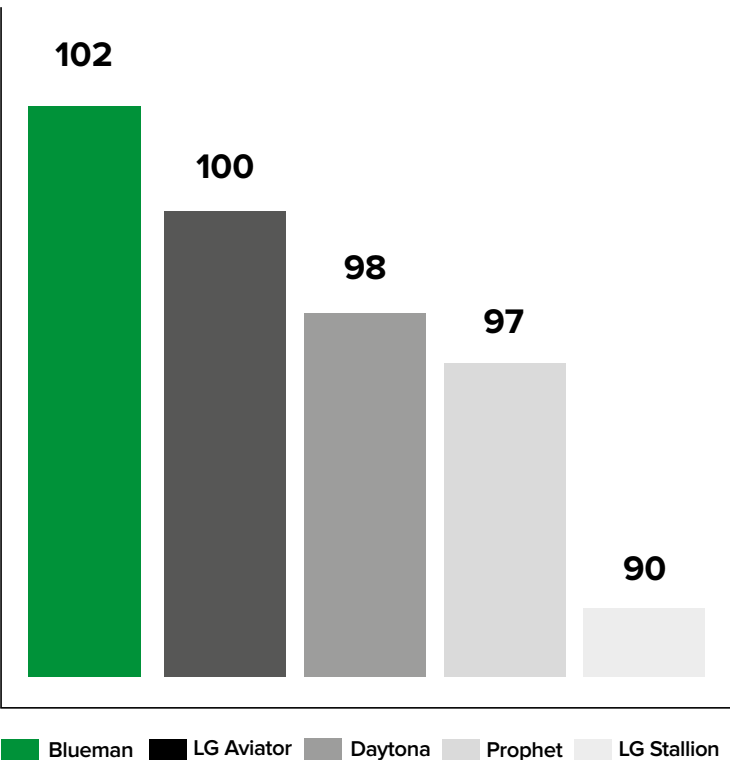
Resistance to Pea wilt R

Resistance to Downy mildew 8

Resistance to Powdery mildew HR

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree

YIELD PERFORMANCE



The control for yield is the mean of 4 & 5 year varieties (4.05 t/ha). Yield differences of less than 13.6% are not statistically significant. Other DL varieties are shown for comparison.

GREENWICH



GREEN PEA

Greenwich is on the PGRO Descriptive List of Combining Peas for 2022. It is a high yielding, green (blue) variety with the highest thousand seed weight and good standing power.

It is also resistant to Pea wilt.

Data Source: PGRO Descriptive List for Combining Peas 2022

KEY CHARACTERISTICS

- High seed yields on the PGRO DL
- Highest thousand seed weight
- High standing ability at harvest



OUTPUT

Yield as % control 102

AGRONOMICS

Earliness of maturity 6

Straw length (cm) 81

Standing ability at harvest 6

SEED CHARACTERISTICS

Thousand seed weight (g) (@15%mc) 320

Protein content 22.3

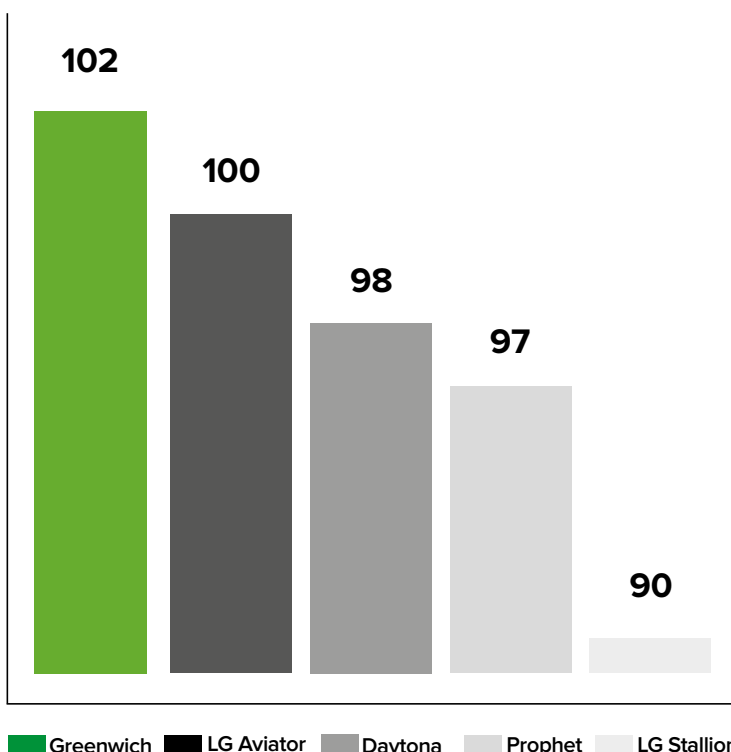
DISEASE

Resistance to Pea wilt R

Resistance to Downy mildew 4

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree

YIELD PERFORMANCE



The control for yield is the mean of 4 & 5 year varieties (4.05 t/ha). Yield differences of less than 13.6% are not statistically different. Other DL varieties are shown for comparison.

AKOOMA



MARROWFAT PEA

Akooma is on the PGRO Descriptive List of Combining Peas for 2022. It is the highest yielding marrowfat variety with the best downy mildew resistance. It is also resistant to Pea wilt.

Data Source: PGRO Descriptive List for Combining Peas 2022

KEY CHARACTERISTICS



- Highest seed yield for marrowfat on the PGRO DL
- Best Downy mildew resistance of marrowfats
- Promising reports from end user testing

OUTPUT

Yield as % control **96**

AGRONOMICS

Earliness of maturity **4**

Straw length (cm) **84**

Standing ability at harvest **5**

SEED CHARACTERISTICS

Thousand seed weight (g) (@15%mc) **405**

Protein content **23.1**

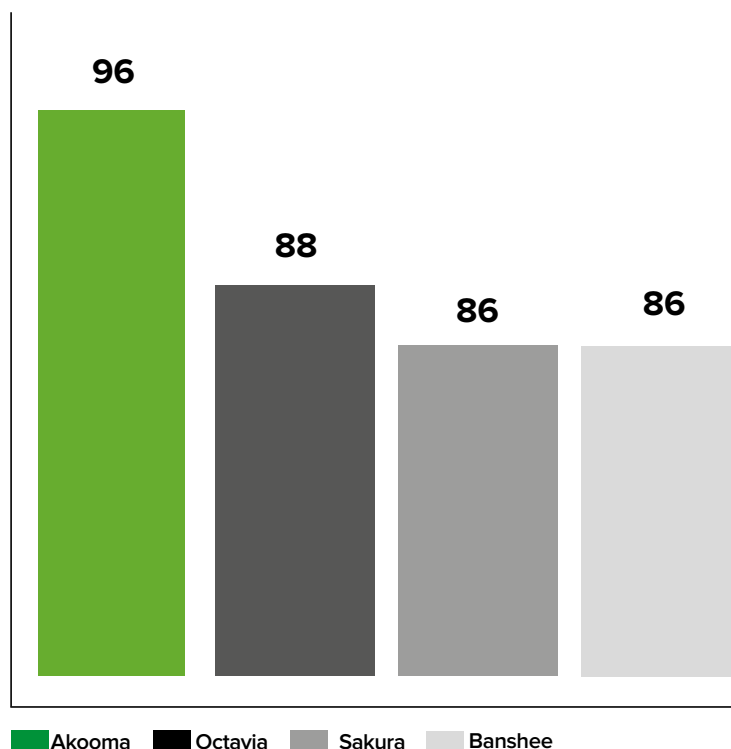
DISEASE

Resistance to Pea wilt **R**

Resistance to Downy mildew **4**

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree

YIELD PERFORMANCE



The control for yield is the mean of 4 & 5 year varieties (4.05 t/ha). Yield differences of less than 13.6% are not statistically different. Other DL varieties are shown for comparison.



OUR BEANS

The 2022 PGRO Descriptive Lists for field beans show that LSPB varieties continue to offer pulse growers a wide choice to meet their yield, agronomy and marketing priorities.

The consistent yield of Lynx brings it to the top of the spring bean yield table. It is joined by Ghengis, Macho, Fanfare, Vertigo and Yukon plus our LVC varieties Victus, Tiffany, Allison and Bolivia – along with Pantani, LSPB's first winter bean on the Descriptive list.

For the future, we have promising Candidates in the pipeline – including new winter beans as well as spring beans to do our part in developing the future UK pulse crop.





SPRING BEAN

Lynx is top of the PGRO Descriptive List of Spring Beans for 2022. It is a consistently high yielding variety with very high Downy mildew resistance and high standing power.

KEY CHARACTERISTICS

Data Source: PGRO Descriptive List for Spring Beans 2022



- Highest seed yield on the PGRO spring bean DL
- Very high resistance to Downy mildew
- High standing ability at harvest

OUTPUT

Yield as % control **106**

AGRONOMICS

Earliness of maturity **6**

Straw length (cm) **114**

Standing ability at harvest **8**

SEED CHARACTERISTICS

Thousand seed weight (g) (@15%mc) **550**

Protein content **27.4**

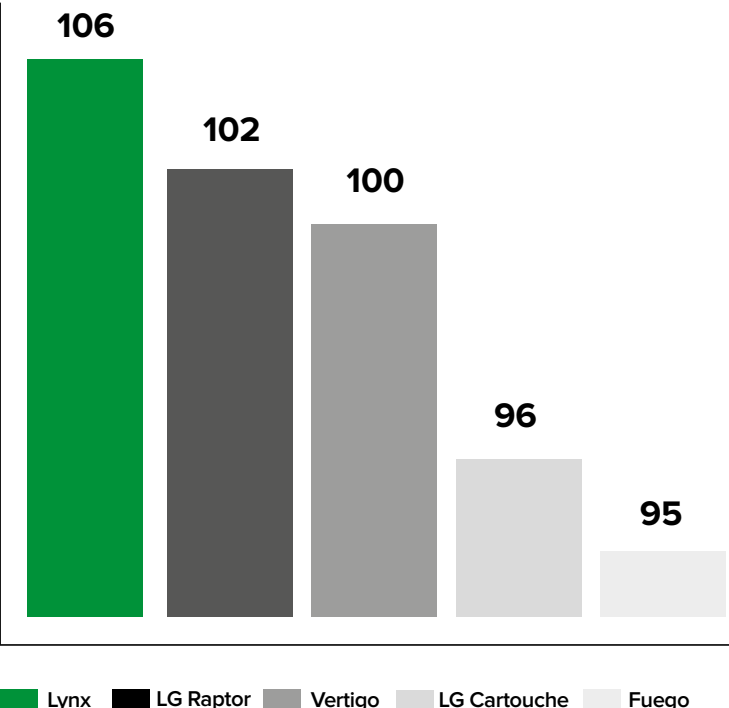
DISEASE

Resistance to Rust **4**

Resistance to Downy mildew **7**

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree

YIELD PERFORMANCE



The control for yield is the mean of 4 and 5 year varieties (4.46 t/ha). Yield differences of less than 7.2% are not significantly different. Other DL varieties are shown for comparison.



Macho



Macho is a high yielding variety with the highest thousand seed weight.

- Very high seed yields on the PGRO DL
- High resistance to rust
- Very large seed size

Don't let disease sneak up on your yields

LYNX Spring Bean is the highest yielding variety with a high Downy mildew resistance and high standing power.

- Highest Yielding on the PGRO DL
- Very high resistance to Downy mildew
- Consistent performance over many seasons



GHENGIS



SPRING BEAN

Ghengis is on the PGRO Descriptive List of Spring Beans for 2022. It is a high yielding variety with early maturity.

KEY CHARACTERISTICS

Data Source: PGRO Descriptive List for Spring Beans 2022



- Very high seed yields on the PGRO DL
- Earliness of maturity
- High standing ability at harvest

OUTPUT

Yield as % control 105

AGRONOMICS

Earliness of maturity 7

Straw length (cm) 118

Standing ability at harvest 8

SEED CHARACTERISTICS

Thousand seed weight (g) (@15%mc) 577

Protein content 27.5

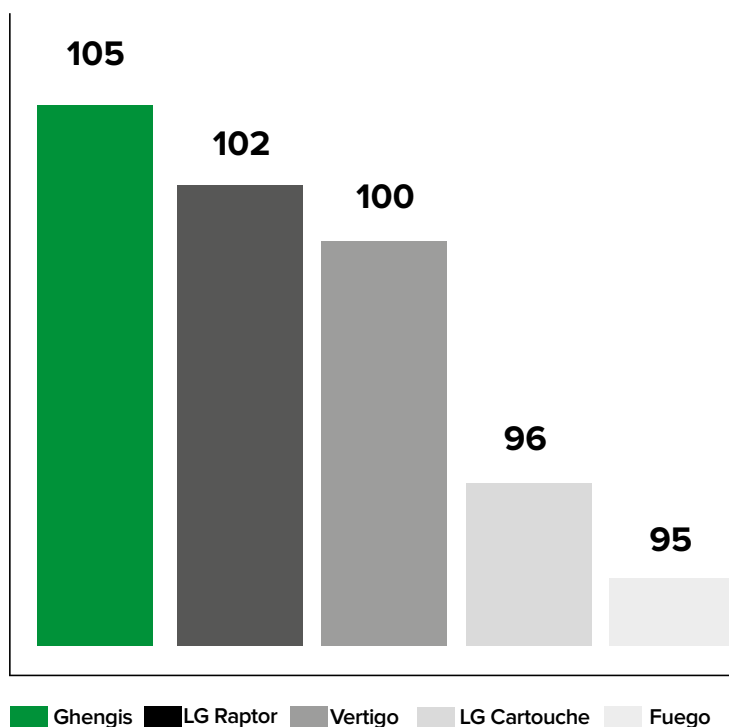
DISEASE

Resistance to Rust 5

Resistance to Downy mildew 3

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree

YIELD PERFORMANCE



The control for yield is the mean of 4 and 5 year varieties (4.46 t/ha). Yield differences of less than 7.2% are not significantly different. Other DL varieties are shown for comparison.

MACHO



SPRING BEAN

Macho is on the PGRO Descriptive List of Spring Beans for 2022. It is a high yielding variety with the highest thousand seed weight.

KEY CHARACTERISTICS

Data Source: PGRO Descriptive List for Spring Beans 2022



- Very high seed yields on the PGRO DL
- Highest thousand seed weight
- High resistance to rust

OUTPUT

Yield as % control 103

AGRONOMICS

Earliness of maturity 5
Straw length (cm) 114
Standing ability at harvest 8

SEED CHARACTERISTICS

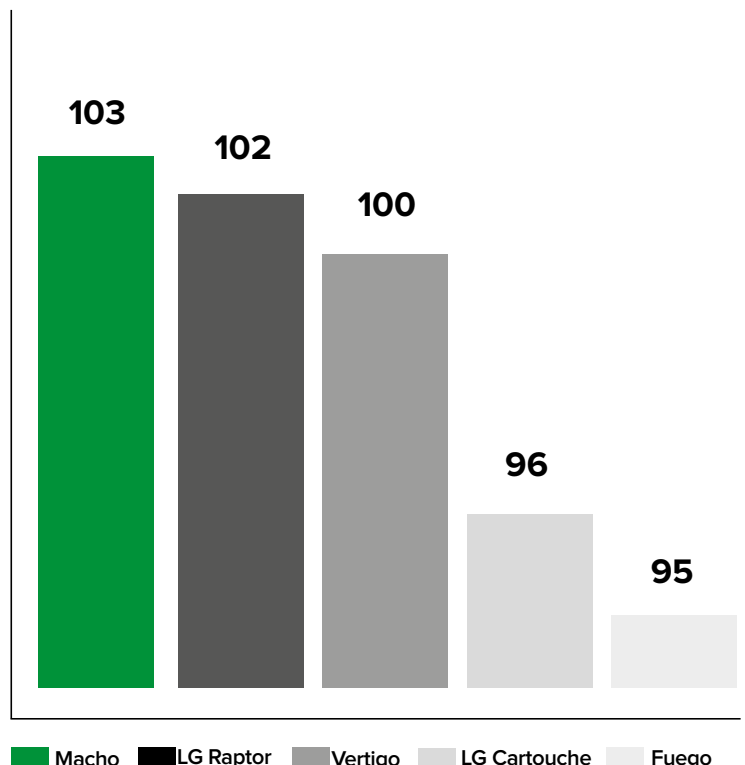
Thousand seed weight (g) (@15%mc) 688
Protein content 26.3

DISEASE

Resistance to Rust 6
Resistance to Downy mildew 4

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree

YIELD PERFORMANCE



The control for yield is the mean of 4 and 5 year varieties (4.46 t/ha). Yield differences of less than 7.2% are not significantly different. Other DL varieties are shown for comparison.

CONQUER YOUR **YIELD POTENTIAL**
GROW **GHENGIS**

 Very High Yields
on the PGRO DL

 Early to
Mature

 Large
Seed Size

Opportunity for Peas?

Orchestra

Orchestra – High yielding Yellow (White) pea, with good standing at harvest and a large seed size. Suitable for a wide range of markets.

Carrington

Carrington is an exceptionally high yielding (Blue) pea variety, with good standing ability and very good Downy Mildew resistance.

Bluetime

Very high yielding Green (Blue) pea with good standing, good colour retention, medium seed size and good Downy mildew resistance.

Stroma

High yielding Green (Blue) variety, combined with earliness of maturity and good standing ability at harvest.

Greenwich

High yielding Green (Blue) pea with early maturity and good protein content, a large seed size and good colour retention.

Croft

High yielding Green (Blue) pea with good colour retention and good Downy mildew resistance.

Blueman

Outstanding agronomic package combining strong yield potential with high resistance to Powdery mildew and very good Downy mildew. Good standing ability at harvest and good protein content.




Akooma

Highest yielding Marrowfat pea, with good quality characteristics and high Downy mildew resistance. Good quality can attract high premiums particularly for export.



YUKON GOLD RUSH

STAKE YOUR CLAIM AND PLANT FOR 2022 HARVEST

-  The earliest spring bean variety
-  Equal highest resistance to Downy mildew
-  High standing ability at harvest

YUKON Spring Bean

Earlier harvest helps to establish a good first wheat benefitting the two year gross margin.

A gold coin graphic with a dark blue shovel resting on it. The coin has the text 'CALL YOUR MERCHANT AND ASK FOR YUKON' written on it.

CALL YOUR
MERCHANT
AND ASK FOR
YUKON

FANFARE



SPRING BEAN

Fanfare is on the PGRO Descriptive List of Spring Beans for 2022. It is a high yielding variety with high standing power and good Downy mildew resistance.

KEY CHARACTERISTICS

Data Source: PGRO Descriptive List for Spring Beans 2022



- High seed yields on the PGRO DL
- High standing ability at harvest
- Good resistance to Downy mildew

OUTPUT

Yield as % control 102

AGRONOMICS

Earliness of maturity 6
Straw length (cm) 115
Standing ability at harvest 8

SEED CHARACTERISTICS

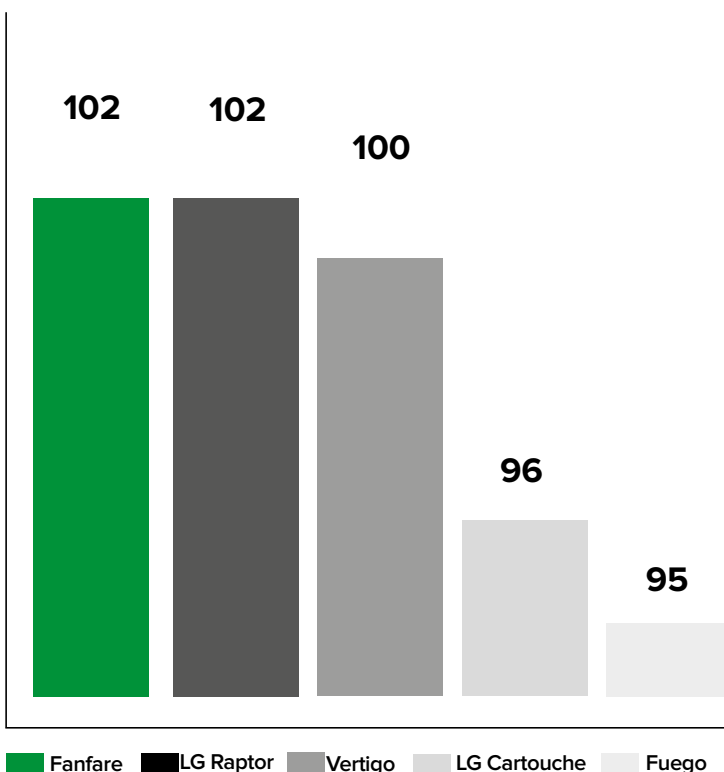
Thousand seed weight (g) (@15%mc) 565
Protein content 27.2

DISEASE

Resistance to Rust 4
Resistance to Downy mildew 5

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree

YIELD PERFORMANCE



The control for yield is the mean of 4 and 5 year varieties (4.46 t/ha). Yield differences of less than 7.2% are not significantly different. Other DL varieties are shown for comparison.

YUKON



SPRING BEAN

Yukon is on the PGRO Descriptive List of Spring Beans for 2022. It has the earliest maturity rating and highest resistance to Downy mildew.

KEY CHARACTERISTICS

Data Source: PGRO Descriptive List for Spring Beans 2022



- Earliest maturity on the PGRO DL
- Highest resistance to Downy mildew
- High standing ability at harvest

OUTPUT

Yield as % control **91**

AGRONOMICS

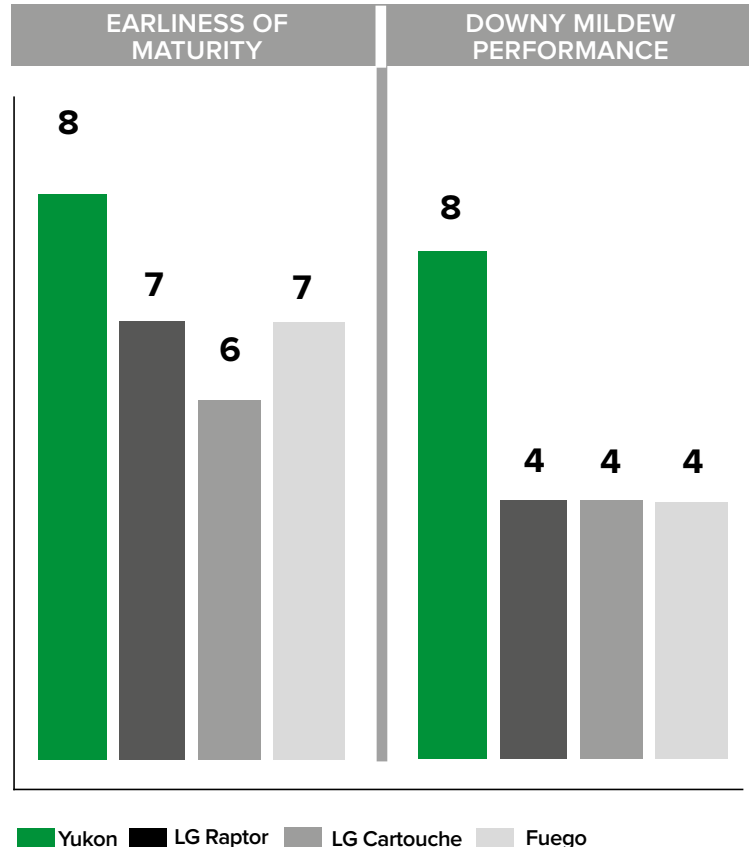
Earliness of maturity **8**
 Straw length (cm) **106**
 Standing ability at harvest **8**

SEED CHARACTERISTICS

Thousand seed weight (g) (@15%mc) **632**
 Protein content **26.4**

DISEASE

Resistance to Rust **5**
 Resistance to Downy mildew **8**



Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree

The control for yield is the mean of 4 and 5 year varieties (4.46 t/ha). Yield differences of less than 7.2% are not significantly different. Other DL varieties are shown for comparison.

VERTIGO



SPRING BEAN

Vertigo is on the PGRO Descriptive List of Spring Beans for 2022. It is a high yielding variety with high standing power and good Downy mildew resistance.

KEY CHARACTERISTICS

Data Source: PGRO Descriptive List for Spring Beans 2022



- High seed yields on the PGRO DL
- High standing ability at harvest
- Good resistance to Downy mildew

OUTPUT

Yield as % control 100

AGRONOMICS

Earliness of maturity 7
Straw length (cm) 114
Standing ability at harvest 8

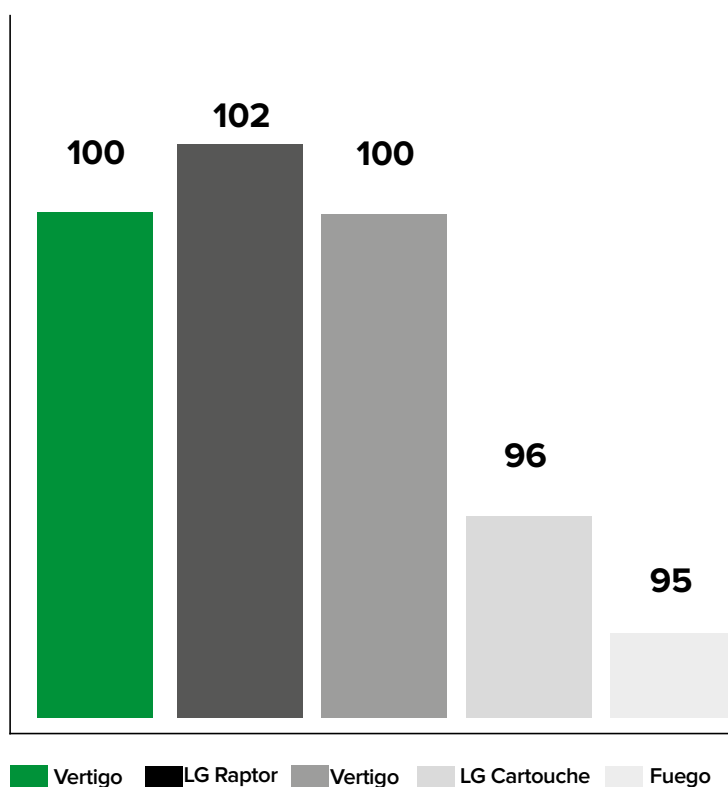
SEED CHARACTERISTICS

Thousand seed weight (g) (@15%mc) 590
Protein content 27.1

DISEASE

Resistance to Rust 4
Resistance to Downy mildew 5

YIELD PERFORMANCE



The control for yield is the mean of 4 and 5 year varieties (4.46 t/ha). Yield differences of less than 7.2% are not significantly different. Other DL varieties are shown for comparison.

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree

VICTUS



SPRING BEAN - LVC

Victus is on the PGRO Descriptive List of Spring Beans for 2022. Its high protein and low vicine and convicine content (LVC) are characters that will help to further develop the UK pulse market with end users.

KEY CHARACTERISTICS

Data Source: PGRO Descriptive List for Spring Beans 2022



- Potential premiums on buy back contract for specialist animal feed use
- Comparable high seed yields to other leading spring bean varieties
- Early maturity

OUTPUT

Yield as % control 103

AGRONOMICS

Earliness of maturity 7
Straw length (cm) 109
Standing ability at harvest 8

SEED CHARACTERISTICS

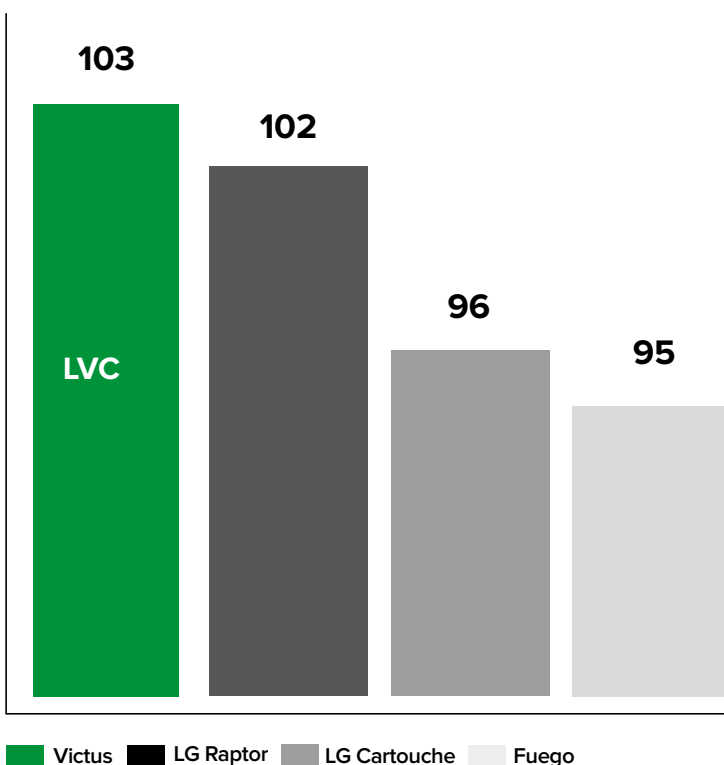
Thousand seed weight (g) (@15%mc) 569
Protein content 27.4

DISEASE

Resistance to Rust 4
Resistance to Downy mildew 5

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree

YIELD PERFORMANCE



The control for yield is the mean of 4 and 5 year varieties (4.46 t/ha). Yield differences of less than 7.2% are not significantly different. Other DL varieties are shown for comparison.

TIFFANY



SPRING BEAN - LVC

Tiffany is on the PGRO Descriptive List of Spring Beans for 2022. Its high protein and low vicine and convicine content (LVC) are characters that will help to further develop the UK pulse market with end users.

KEY CHARACTERISTICS

Data Source: PGRO Descriptive List for Spring Beans 2022

- Potential premiums on buy back contract for specialist animal feed use
- Comparable high seed yields to other leading spring bean varieties
- Early maturity



OUTPUT

Yield as % control **101**

AGRONOMICS

Earliness of maturity **7**
Straw length (cm) **114**
Standing ability at harvest **8**

SEED CHARACTERISTICS

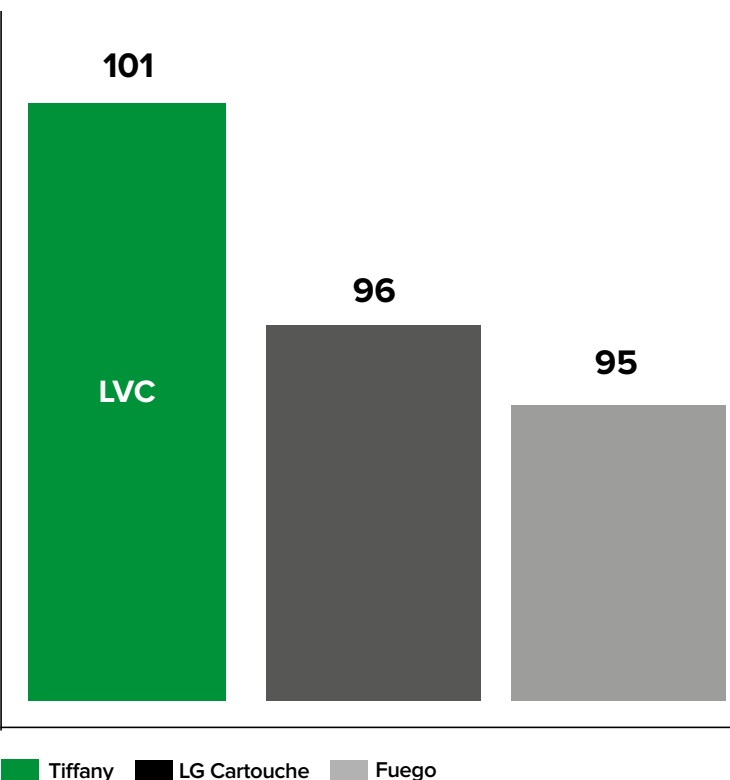
Thousand seed weight (g) (@15%mc) **539**
Protein content **28.2**

DISEASE

Resistance to Rust **4**
Resistance to Downy mildew **4**

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree

YIELD PERFORMANCE



The control for yield is the mean of 4 and 5 year varieties (4.46 t/ha). Yield differences of less than 7.2% are not significantly different. Other DL varieties are shown for comparison.

BOLIVIA



SPRING BEAN - LVC

Bolivia is on the PGRO Descriptive List of Spring Beans for 2022. Its high protein and low vicine and convicine content (LVC) are characters that will help to further develop the UK pulse market with end users.

KEY CHARACTERISTICS

Data Source: PGRO Descriptive List for Spring Beans 2022

- Potential premiums on buy back contract for specialist animal feed use.
- Comparable high seed yields to other leading spring bean varieties
- Good Standing Ability and high resistance to Rust



OUTPUT

Yield as % control **98**

AGRONOMICS

Earliness of maturity **6**
Straw length (cm) **108**
Standing ability at harvest **8**

SEED CHARACTERISTICS

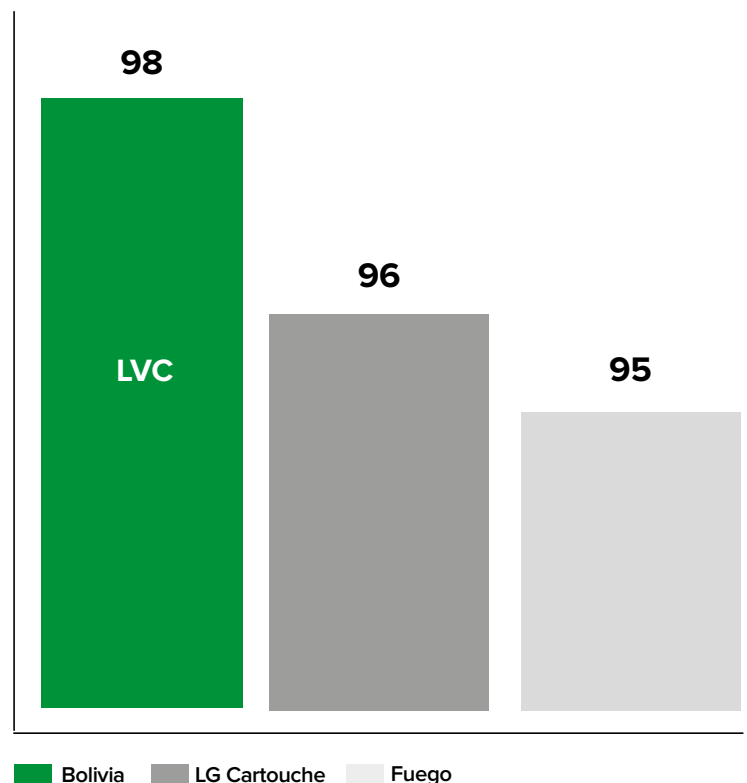
Thousand seed weight (g) (@15%mc) **506**
Protein content **27.2**

DISEASE

Resistance to Rust **6**
Resistance to Downy mildew **4**

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree

YIELD PERFORMANCE



The control for yield is the mean of 4 and 5 year varieties (4.46 t/ha). Yield differences of less than 7.2% are not significantly different. Other DL varieties are shown for comparison.

ALLISON



SPRING BEAN - LVC

Allison is on the PGRO Descriptive List of Spring Beans for 2022. Its high protein and low vicine and convicine content (LVC) are characters that will help to further develop the UK pulse market with end users.

Data Source: PGRO Descriptive List for Spring Beans 2022

KEY CHARACTERISTICS

- Potential Premiums on buy back contract for specialist animal feed use.
- Comparable high seed yields to other leading spring bean varieties
- Early maturity



OUTPUT

Yield as % control **98**

AGRONOMICS

Earliness of maturity **7**
Straw length (cm) **109**
Standing ability at harvest **8**

SEED CHARACTERISTICS

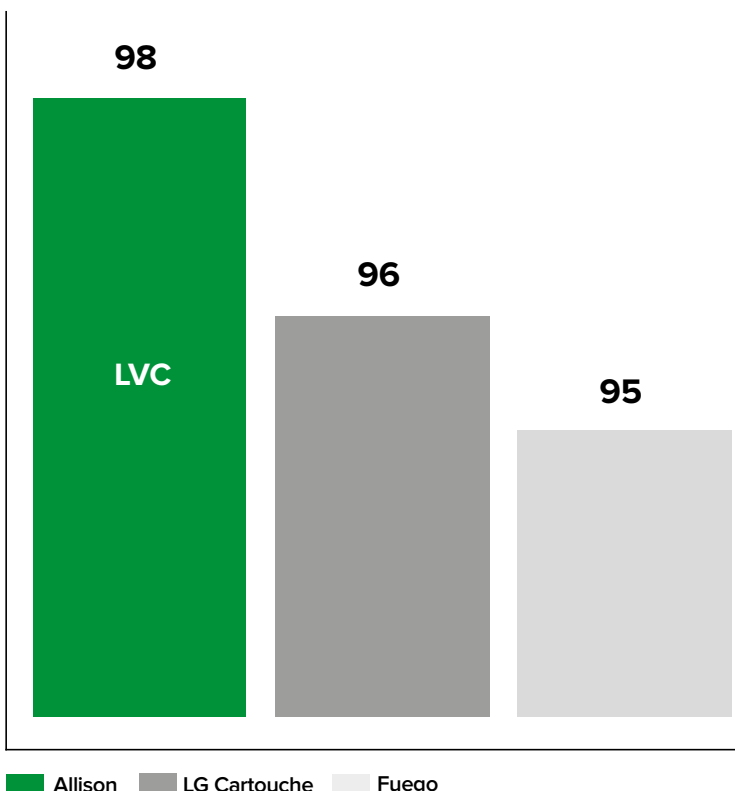
Thousand seed weight (g) (@15%mc) **572**
Protein content **26.1**

DISEASE

Resistance to Rust **5**
Resistance to Downy mildew **2**

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree

YIELD PERFORMANCE



Allison LG Cartouche Fuego

The control for yield is the mean of 4 and 5 year varieties (4.46 t/ha). Yield differences of less than 7.2% are not significantly different. Other DL varieties are shown for comparison.

PANTANI



WINTER BEAN

Pantani is on the PGRO Descriptive List of Winter Beans for 2022 with early maturity and high standing power.

KEY CHARACTERISTICS

Data Source: PGRO Descriptive List for Winter Beans 2022



- Equal earliest on the PGRO DL
- High standing ability at harvest
- Shortest strawed winter bean on the PGRO DL

OUTPUT

Yield as % control 93

AGRONOMICS

Earliness of maturity 7

Straw length (cm) 96

Standing ability at harvest 8

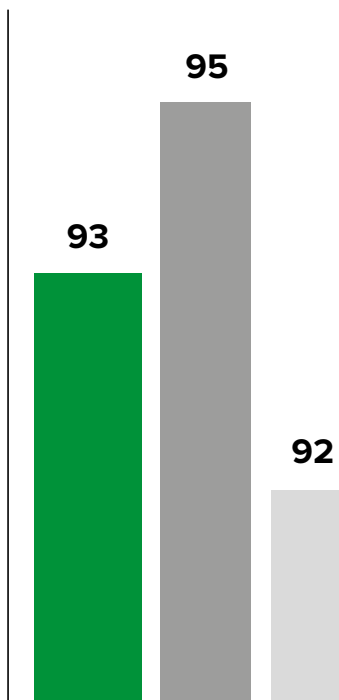
SEED CHARACTERISTICS

Thousand seed weight (g) (@15%mc) 690

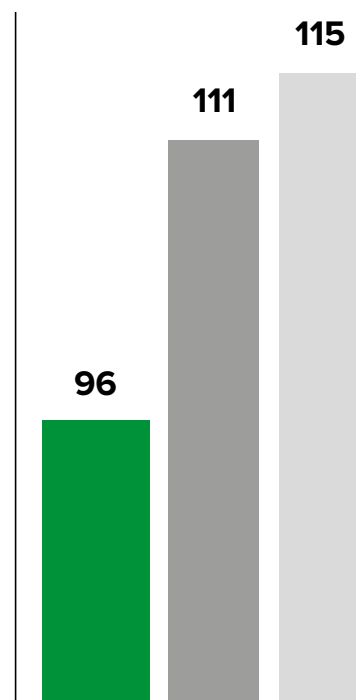
Protein content 24.3

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree

YIELD PERFORMANCE



STRAW LENGTH



■ Pantani ■ Honey ■ Wizard

The control for yield is the mean of 4 & 5 year varieties (4.55t/ha). Yield differences of less than 10.0% are not statistically different. Other DL varieties are shown for comparison.



OUR CEREALS

LSPB works with Wiersum Plant Breeding to bring top rate spring wheat varieties to the market, our screening trials in the UK ensure varieties are being brought forward that best suit the conditions and market opportunities we have here. The first of these - WPB Escape is now on the spring wheat Recommended List.

Our Winter Wheat program is still in its infancy, with varieties getting entered into national list trials. The program is run with partners Wiersum Plant Breeding and WvB Eckendorf on the continent, to ensure the very best varieties are being delivered to the UK grower.



WPB ESCAPE



SPRING WHEAT

WPB Escape is a Hard Group 4 Spring wheat on the AHDB Recommended List for spring sowing 2022. It has very high yield on the RL with very good disease resistance.

KEY CHARACTERISTICS

Data Source: AHDB Recommended List for 2022/23 reproduced with full acknowledgement to AHDB.



- Very high treated yield on RL
- Early ripening
- Very good disease resistance

YIELD/QUALITY

UK treated yield	105
Protein (%)	12.7
Hagberg	261
Specific weight (kg/hl)	76.2

AGRONOMICS

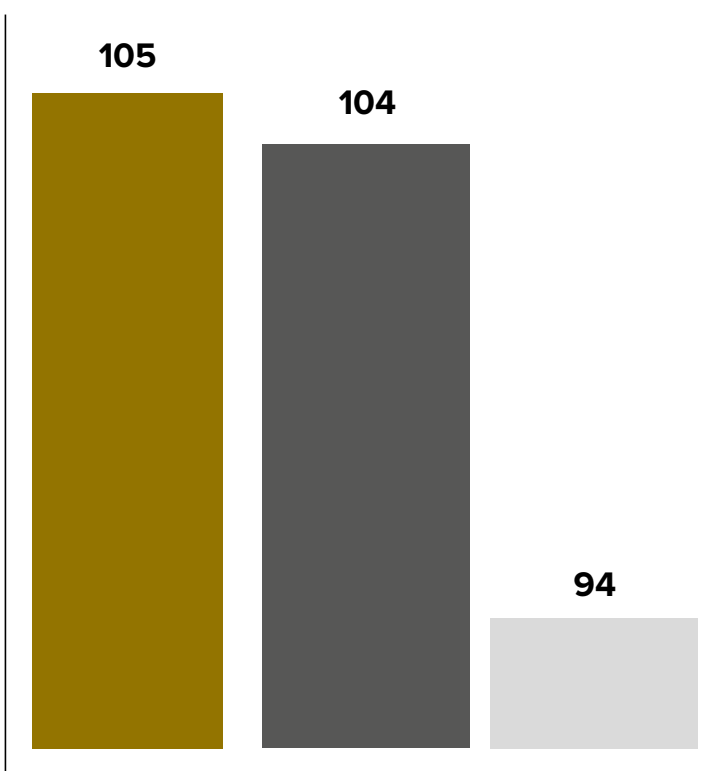
Height (cm)	72
Ripening (+/- Mulika)	+2

DISEASE RATINGS

Mildew	8
Yellow rust	8
Septoria	[6]

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree.

TREATED YIELD



WPB Escape KWS Cochise Mulika

KWS Cochise, Mulika are RL control varieties



OUR OILSEED RAPE

We have a long and successful track record in oilseed rape breeding with a strong market presence. The current AHDB Recommended List includes newly-listed Flemming, Respect, clubroot resistant Crome and Croozer – with Resort as the only listed HEAR variety. We also have extremely vigorous variety Picasso.

For the future, we have varieties progressing through the trials system as we continue our breeding programme which is focused on hybrids with improved yield and agronomics added to consistency in performance.



RESISTANCE IS IN THE GENES

- High seed yield combined with high oil content
- RlmS gene provides excellent Phoma resistance
- Good stem stiffness and resistance to lodging
- Featuring TuYV resistance



RESPECT



WINTER OILSEED RAPE

Respect is a restored hybrid with a Recommendation by AHDB for the E/W region in 2022/23. It has a high gross output with high resistance to Stem canker from a new major Phoma resistance gene called RlmS, good stem stiffness and resistance to lodging.

KEY CHARACTERISTICS

Data Source: Recommended List for winter oilseed rape 2022/23 reproduced with full acknowledgement to AHDB.



- High seed yield combined with high oil content
- High resistance to Stem canker
- Good stem stiffness and resistance to lodging

OUTPUT E/W REGION

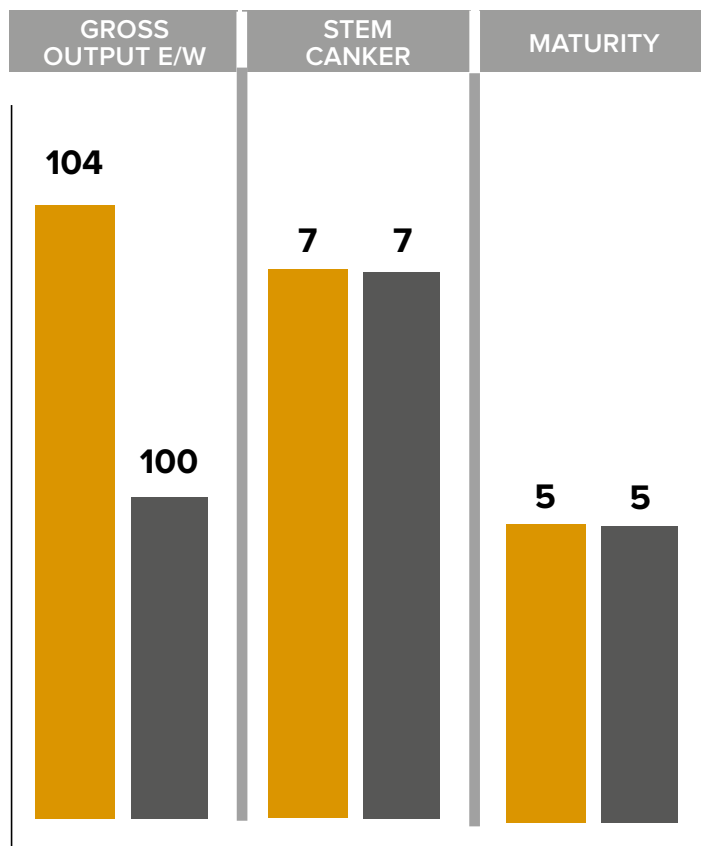
Gross output (yield adjusted for oil content)	104
Oil content	44.9

AGRONOMICS

Resistance to lodging	(8)
Stem stiffness	8
Shortness of stem	6
Earliness of flowering	7
Earliness of maturity	5

DISEASE

Light leaf spot	6
Stem canker	7



Respect DK Expansion

DK Expansion is the control variety on the current RL

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree

FLEMMING



WINTER OILSEED RAPE

Flemming is a restored hybrid with a Recommendation by AHDB for the E/W region in 2022/23. It has high resistance to Stem canker from a new major Phoma resistance gene called RlmS and is also resistant to TuYV. It has a high gross output, good stem stiffness and resistance to lodging.

KEY CHARACTERISTICS

Data Source: Recommended List for winter oilseed rape 2022/23 reproduced with full acknowledgement to AHDB.



- High seed yield combined with high oil content
- High RlmS resistance to Stem canker and TuYV resistant
- Good stem stiffness and resistance to lodging

OUTPUT E/W REGION

Gross output (yield adjusted for oil content)	104
Oil content	44.8

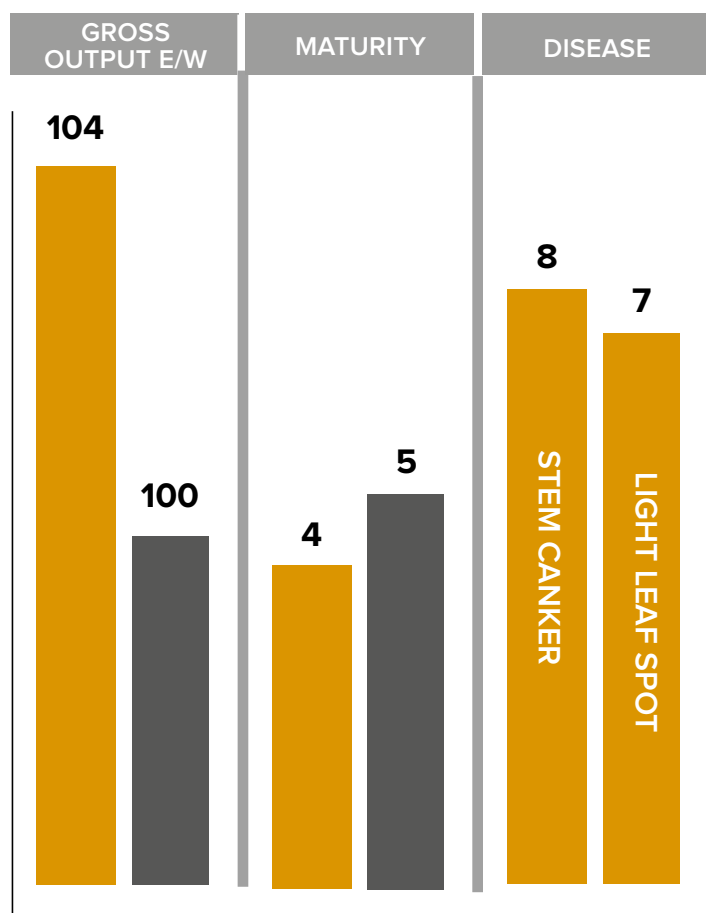
AGRONOMICS

Resistance to lodging	(8)
Stem stiffness	9
Shortness of stem	6
Earliness of flowering	6
Earliness of maturity	4

DISEASE

Light leaf spot	7
Stem canker	8

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree



Legend: Flemming (orange), DK Expansion (dark grey)

DK Expansion is the control variety on the current RL

***“THE VARIETY
SPEAKS FOR ITSELF”***

- Excellent Phoma resistance from RlmS
- Very vigorous, especially in spring
- Consistently high yielding

*“Spring is here and it’s
GO GO GO!”*



AHDB

CANDIDATE

PICASSO



WINTER OILSEED RAPE

Picasso is a restored hybrid with high resistance to Stem canker from a Phoma resistance gene called Rlm7 and is also resistant to TuYV. It is exceptionally vigorous and early to mature with good stem stiffness and resistance to lodging.

KEY CHARACTERISTICS

- High seed yield combined with high oil content
- High Rlm7 resistance to Stem canker and TuYV resistant
- Good stem stiffness and resistance to lodging

OUTPUT E/W REGION

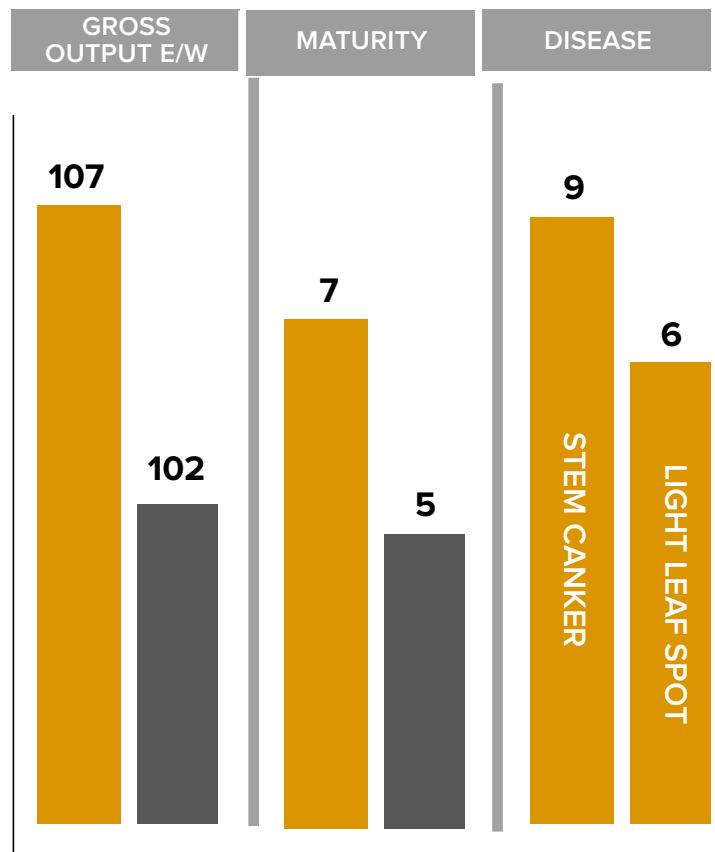
Gross output (yield adjusted for oil content)	107
Oil content	44.8

AGRONOMICS

Resistance to lodging	9
Stem stiffness	8
Height (cm)	144
Earliness of flowering	6
Earliness of maturity	7

DISEASE

Light leaf spot	6
Stem canker	9



Legend: Picasso (Orange), DK Expansion (Black)

DK Expansion is the control variety on the current RL

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree

MURRAY



WINTER OILSEED RAPE

Murray is very high yielding with exceptional Phoma resistance based on new RlmS gene. It has very good Light Leaf spot scores, mid-maturity and is very vigorous - particularly in the spring.

KEY CHARACTERISTICS

AHDB data reproduced with full acknowledgement.



- AHDB Candidate variety
- Very high yielding
- Exceptional RlmS phoma resistance

OUTPUT E/W REGION

Gross output (yield adjusted for oil content)	109
Oil content	43.9

AGRONOMICS

Resistance to lodging	9
Stem stiffness	8
Height (cm)	136
Earliness of flowering	6
Earliness of maturity	6

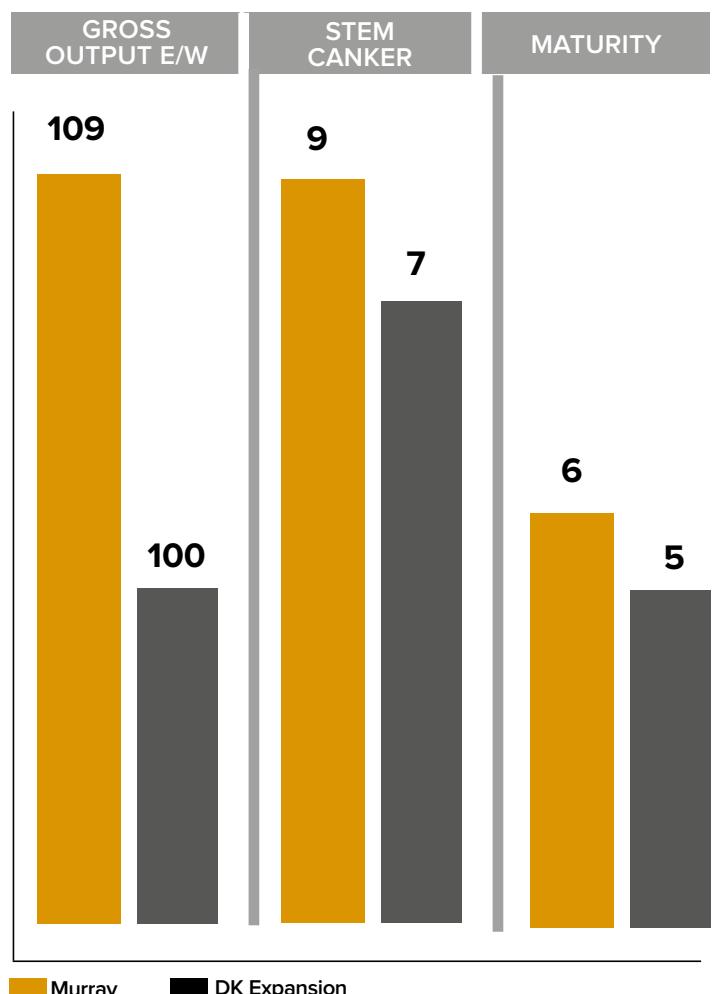
DISEASE

Light leaf spot	7
Stem canker	9

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree.

Data shown above is from AHDB Candidates List from trials harvest 2021.

Data for DK Expansion, shown on the charts, is a control variety on the current 2022/23 RL but no longer listed.



■ Murray ■ DK Expansion

VEGAS



WINTER OILSEED RAPE

Vegas is very high yielding with exceptional Phoma resistance based on new RlmS gene. It has very good Light Leaf spot scores, mid-maturity and is very vigorous - particularly in the spring.

KEY CHARACTERISTICS

AHDB data reproduced with full acknowledgement.

AHDB

CANDIDATE

- AHDB Candidate variety
- Very high yielding
- Exceptional RlmS phoma resistance

OUTPUT E/W REGION

Gross output (yield adjusted for oil content)	108
Oil content	44.7

AGRONOMICS

Resistance to lodging	9
Stem stiffness	8
Height (cm)	130
Earliness of flowering	6
Earliness of maturity	5

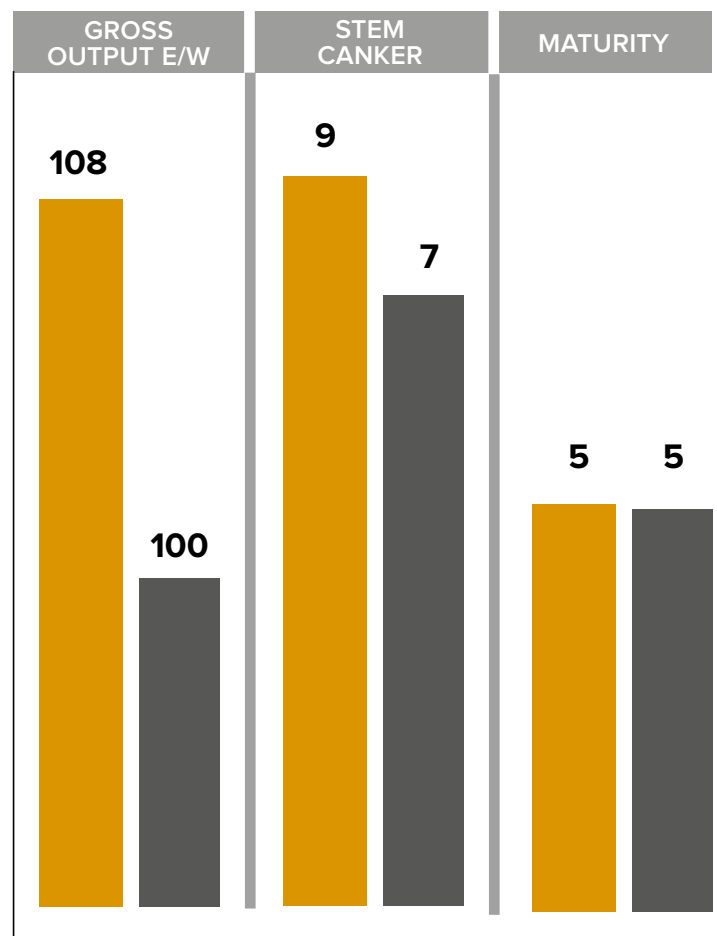
DISEASE

Light leaf spot	7
Stem canker	9

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree.

Data shown above is from AHDB Candidates List from trials harvest 2021.

Data for DK Expansion, shown on the charts, is a control variety on the current 2022/23 RL but no longer listed.



Vegas

DK Expansion

CROME



WINTER OILSEED RAPE

Crome is a restored hybrid with a Specific Recommendation (Sp) by AHDB for the UK in 2022/23 for growing on land infected with common strains of clubroot. It has a high gross output, is early flowering with a high yield, good stem stiffness and resistance to lodging.

KEY CHARACTERISTICS

Data Source: Recommended List for winter oilseed rape 2022/23 reproduced with full acknowledgement to AHDB.



- Clubroot resistant
- High seed yield combined with high oil content
- Good stem stiffness and outstanding vigour
- Resistant to lodging

OUTPUT UK (Sp)

Gross output (yield adjusted for oil content)	99
Oil content	46.1

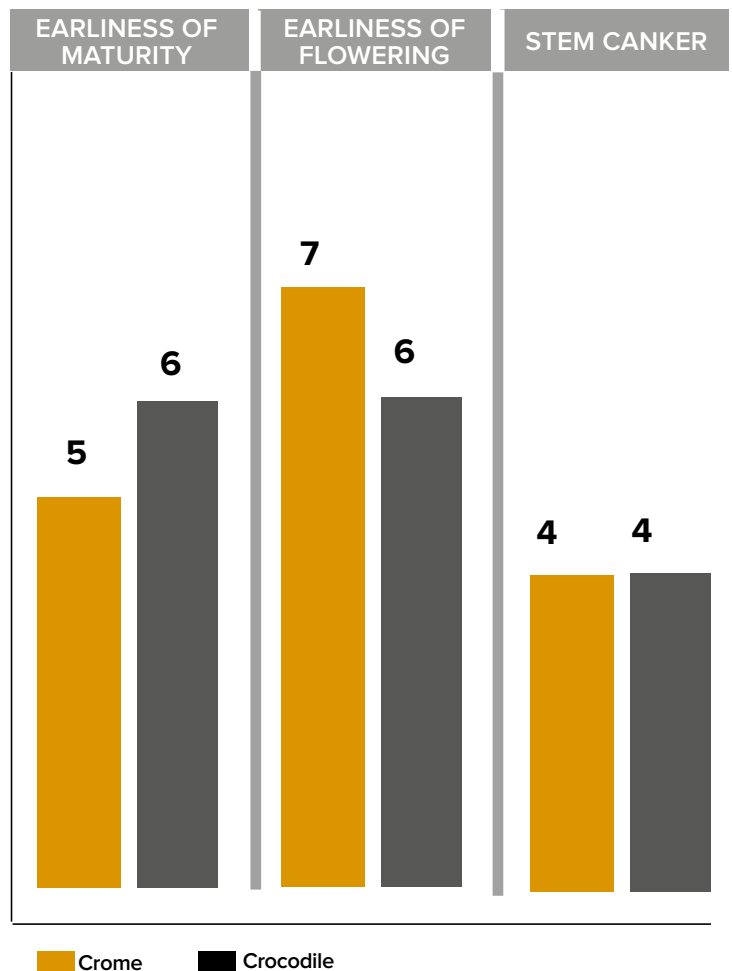
AGRONOMICS

Resistance to lodging	8
Stem stiffness	8
Shortness of stem	6
Earliness of flowering	7
Earliness of maturity	5

DISEASE

Light leaf spot	6
Stem canker	4

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree



CROOZER



WINTER OILSEED RAPE

Croozer is a restored hybrid with a Specific Recommendation (Sp) by AHDB for the E/W region in 2022/23 for growing on land infected with common strains of clubroot. It has a high gross output, is early maturing with a high oil content and yield, and very good resistance to Stem canker.

KEY CHARACTERISTICS

Data Source: Recommended List for winter oilseed rape 2022/23 reproduced with full acknowledgement to AHDB.



- Clubroot resistant
- High seed yield combined with high oil content
- Very good resistance to Stem canker
- Good stem stiffness and resistance to lodging

OUTPUT

Gross output (yield adjusted for oil content)	96
Oil content	44.5

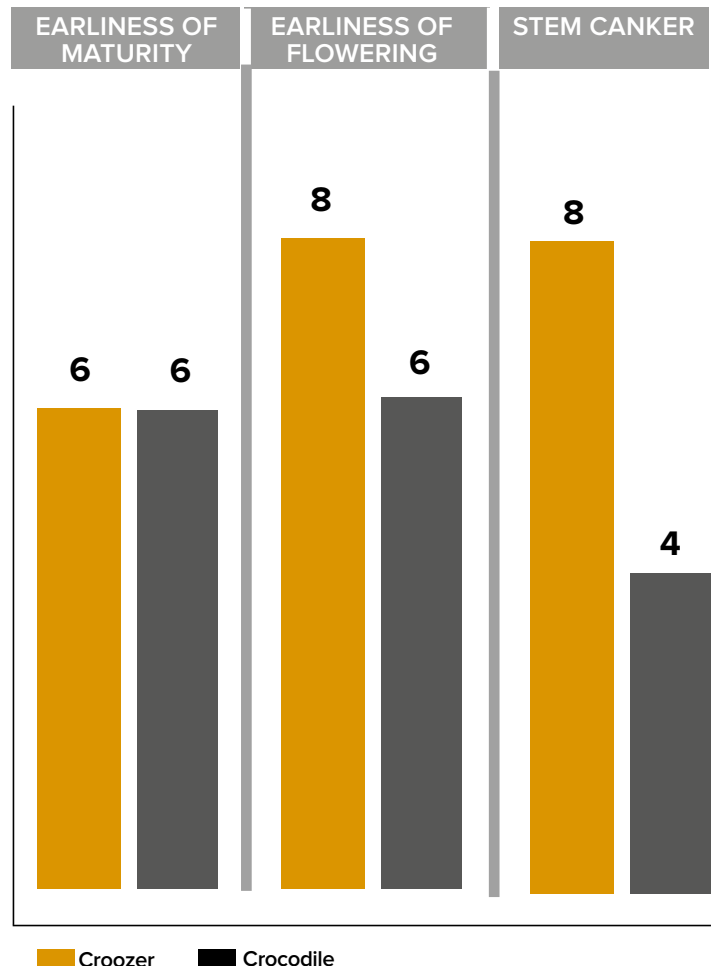
AGRONOMICS

Resistance to lodging	8
Stem stiffness	8
Shortness of stem	7
Earliness of flowering	8
Earliness of maturity	6

DISEASE

Light leaf spot	6
Stem canker	8

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree



RESORT



WINTER OILSEED RAPE

Resort is a high erucic acid rape (HEAR) restored hybrid variety intended for specialist use in industrial processes and is a UK Described variety on the AHDB List in 2022/23.

KEY CHARACTERISTICS

Data Source: Recommended List for winter oilseed rape 2022/23 reproduced with full acknowledgement to AHDB.



- Specialist use variety
- Good stem stiffness
- Resistant to lodging

OUTPUT E/W REGION

Gross output (yield adjusted for oil content)	90
Oil content	45.6

AGRONOMICS

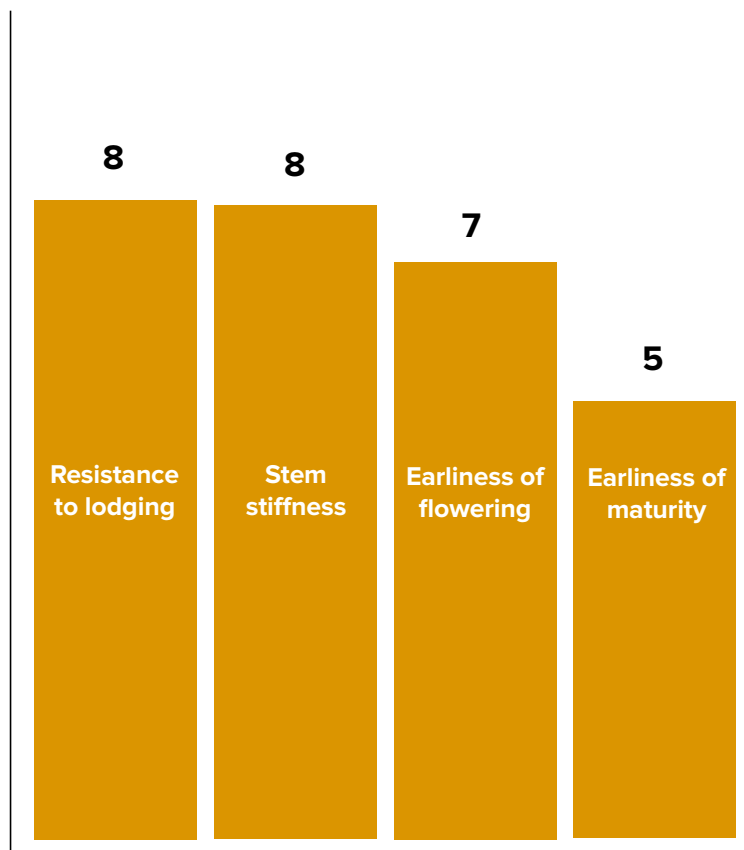
Resistance to lodging	8
Stem stiffness	8
Shortness of stem	6
Earliness of flowering	7
Earliness of maturity	5

DISEASE

Light leaf spot	6
Stem canker	5

Ratings above are 1-9. A high rating indicates that the variety shows the character to a high degree

AGRONOMICS



Resort

CLUBROOT

Review - Rotate - Resist

What is it?

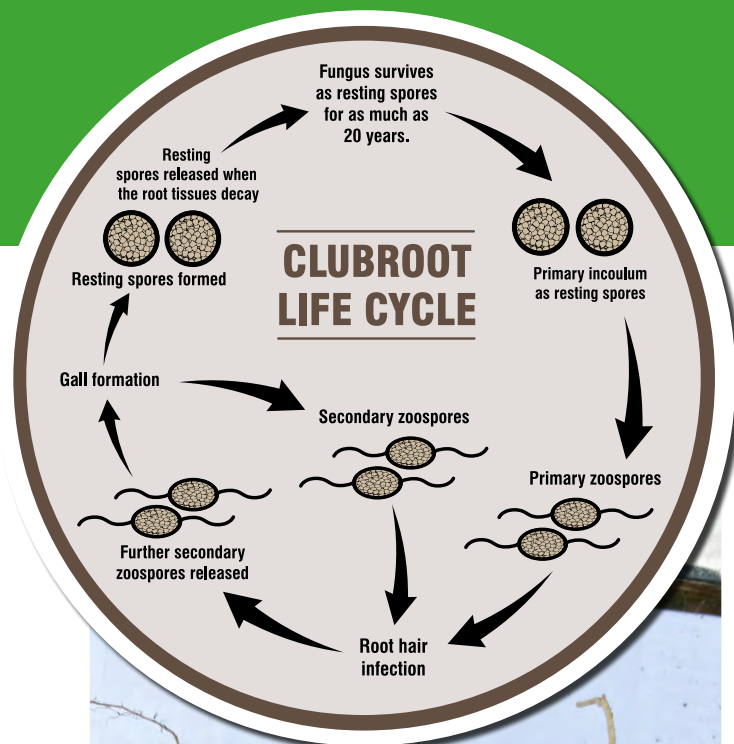
Clubroot is caused by a soil borne fungal pathogen *Plasmodiophora brassicae* that produces thick-walled resting spores. These are highly resilient, helping it survive for up to 15 years in the soil and aiding its transfer from field to field or within fields on machinery, transplants, water flows or even muddy footwear.

How to detect it?

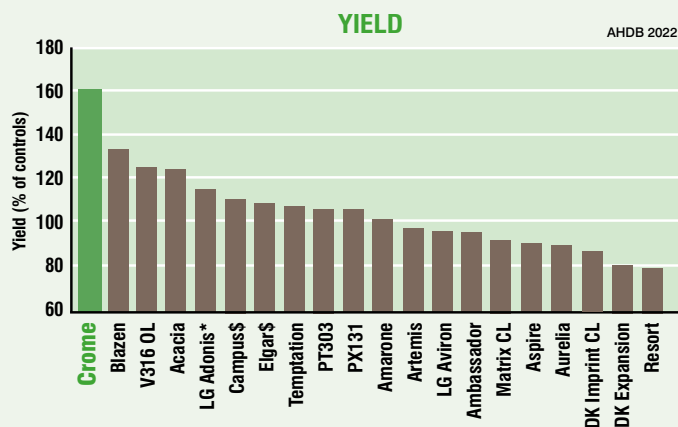
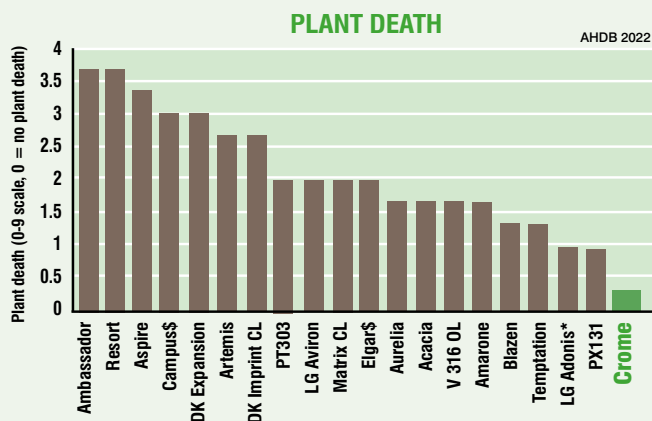
Review stunted growth even in wet holes and compacted gateways could be a breeding ground for clubroot, pull up plants and look for characteristic galls. Soil testing in areas of suspected clubroot can confirm it's existence, wetter warmer conditions in autumn favour it's mobility and spread.

How to control it?

Rotations should be the first way to mediate clubroot risk, 6 to 8 years reduces the risk of infection virulence to clubroot gene. Liming to control PH and avoiding field to field spread through machinery or even footwear soil transfer. **Resist** - where clubroot is known to exist, resistant varieties can be used to allow OSR to be grown **in the widened rotation.**



Data from abandoned AHDB RL trial due to high level of CR



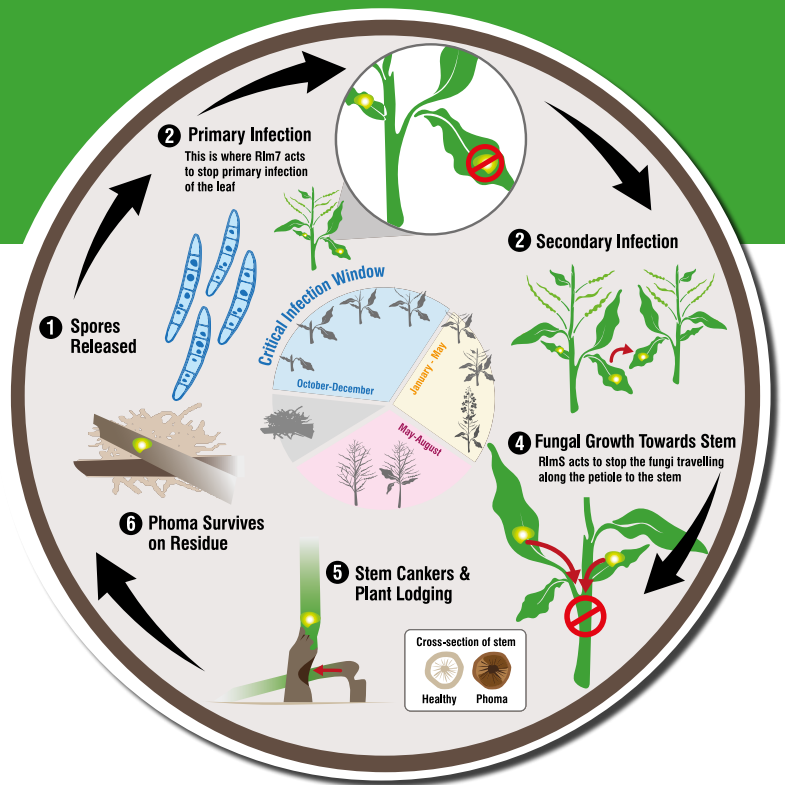
RlmS

RlmS is a new Phoma Stem Canker - Major R-Gene Resistance for OSR

A new genetic trait called RlmS brings effective and sustainable resistance to stem canker/phoma in four innovative winter oilseed rape varieties. This gene was identified by breeders at NPZ, who have been researching phoma resistances for decades.

It was integrated into our breeding programmes and developed into a viable trait for commercial varieties.

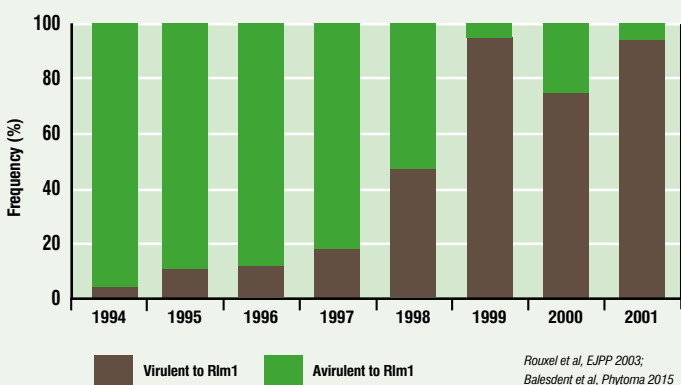
RlmS is an R-gene related resistance selected using adult plant testing rather than cotyledon testing to bring important adult plant resistance to OSR growers. It is important to note that the RlmS gene is distinct from those widely found in current oilseed rape varieties, hence by developing our hybrids with



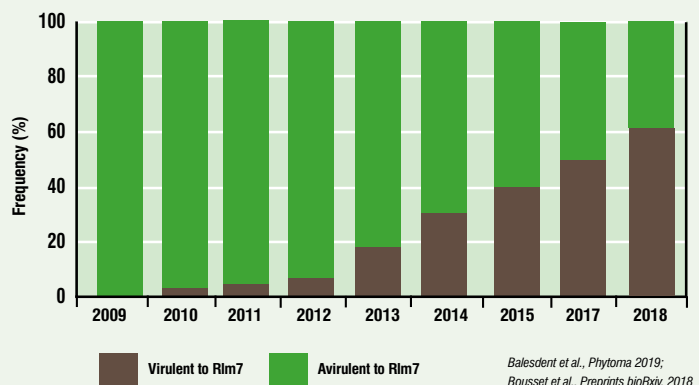
different genetics we give extended and resilient phoma resistance in the field. The unique phoma resistance is also associated with strong overall plant health.



Changes in frequency of virulence against Rlm1 (1%) in France



Changes in frequency of virulence against Rlm7 (1%) in France



125 YEARS OF NORDDEUTSCHE PFLANZENZUCHT

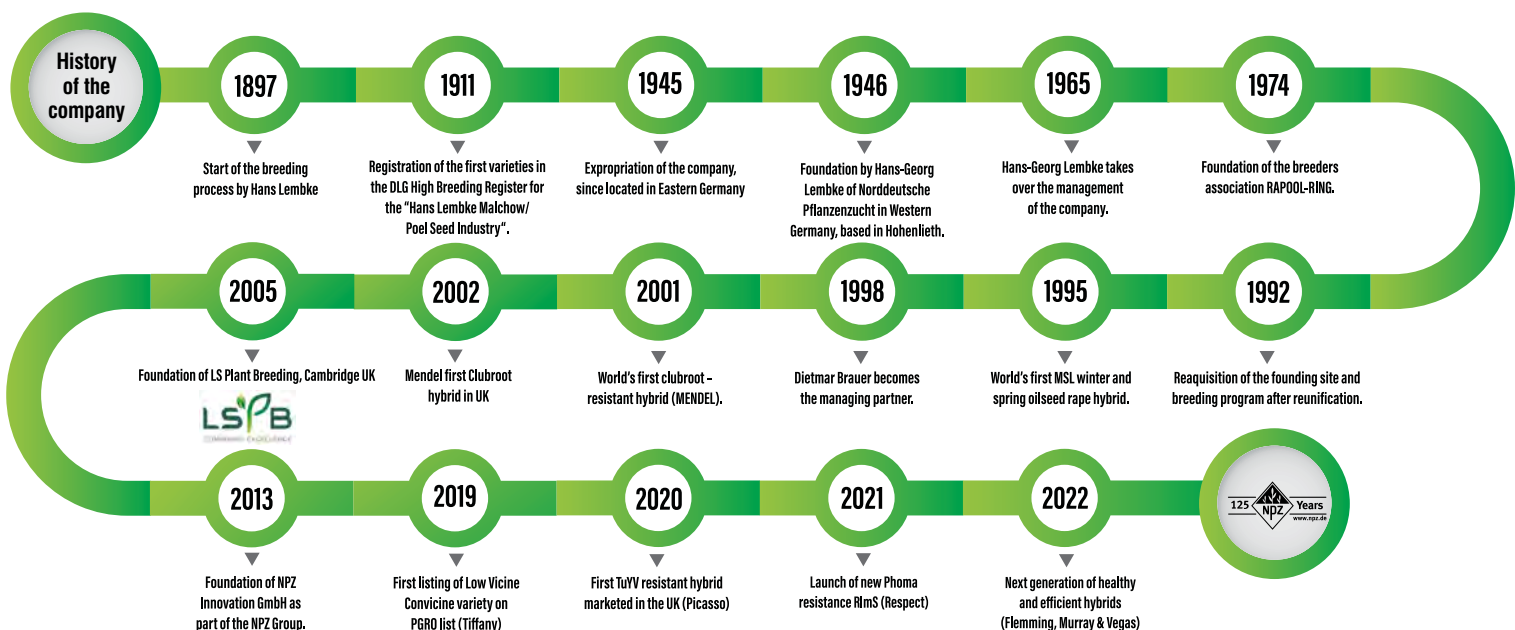


LSPB's Shareholder are celebrating its 125 year Anniversary. 125 years of successful plant breeding and progress for agriculture and society.

LSPB's shareholder Norddeutsche Pflanzenzucht Hans-Georg Lembke KG (NPZ) is a private, medium-sized plant breeding company with its headquarters in Hohenlieth near Eckernförde (Schleswig-Holstein). NPZ's second location is on the island of Poel in Malchow (Mecklenburg West Pomerania). This is where the family business originated: Hans Lembke took over his parents' agricultural business in 1897 as the 10th generation and began

the first breeding work in agricultural crop species.

Today NPZ employees over 270 people - breeding winter and spring oilseed rape, field beans, peas and forage plants. More than 80 varieties are grown on a significant scale in over 40 countries around the world. LSPB is proud to be a part of the NPZ family and we work very closely with our colleagues across breeding, production and commercial departments.



LS Plant Breeding, North Barn, Manor Farm, Milton Road, Impington, Cambridge, CB24 9NG

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