



# Winter Barley Recommended List 2022



CROP POLICY, EVALUATION AND CERTIFICATION DIVISION

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## VARIETY RATINGS

Variety ratings are derived from the mean of data from the 2019 – 2021 trials, unless stated otherwise.

**Relative yield** of each variety is calculated as a percentage of control varieties. The average yield of the control varieties equals 100. Yield ratings are from trials carried out in accordance with good commercial husbandry practices.

Actual data are given for **hectolitre weight, screenings, straw height** and **thousand grain weight**.

Assessment of other characteristics is based on a scale of 1 to 9; a high figure is desirable and indicates possession of the characteristic to a high degree. For earliness of ripening a difference of one point represents 2 days. Varieties with disease ratings of 8 or over are very resistant; 7 indicates good resistance and 6 moderate resistance; 5 indicates moderate susceptibility while 4 is rated susceptible; 1, 2 and 3 are very susceptible. Figures are bracketed where information is limited.

### IMPORTANT NOTICE

The Department of Agriculture, Food and the Marine (DAFM) has taken all due care in evaluating the performance of the listed varieties for yield, quality, disease resistance and the important agronomic characters over a wide range of soils and environmental conditions, for a minimum period of 3 years. The Department cannot, however, accept responsibility for any loss or inconvenience arising from any future variation in absolute or relative varietal performance.



## WINTER BARLEY 2022

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED							PROVISIONALLY RECOMMENDED		
	BAZOOKA	BELFRY	KWS CASSIA	KWS INFINITY	KWS KOSMOS	LG CASTING	PIXEL	KWS JOYAU	KWS TARDIS	VALERIE
Relative Yield ♠	107	107	96	97	106	100	104	103	105	98
Varietal Type	6R(H)	6R(H)	2R	2R	6R	2R	6R	6R	2R	2R
Straw Height (cm)	110.9	103.9	89.3	87.5	103.9	85.0	92.9	93.1	86.7	86.1
Resistance to Lodging	6	7	7	7	6	5	7	(7)	(7)	6
Straw Breakdown	5	6	6	6	4	5	4	(7)	(6)	6
Earliness of Ripening	7	7	6	6	7	7	8	(8)	(6)	8
<b>Resistance to:</b>										
Mildew	6	6	5	5	8	8	7	(5)	(6)	7
<i>Rhynchosporium</i>	8	8	4	7	7	5	4	(6)	(7)	7
Brown Rust	6	7	7	6	7	7	7	(7)	(6)	7
Net Blotch	7	7	7	7	7	7	6	(7)	(7)	7
<b>Grain quality:</b>										
Screenings % (<2.2mm)	3.0	3.9	2.0	2.3	2.3	2.4	2.5	2.4	2.2	1.2
1000 grain weight (g)	47.6	46.4	53.6	54.0	49.1	52.7	46.1	49.3	55.4	58.0
Hectolitre weight (kg/hl)	68.2	67.3	70.2	67.4	66.3	68.4	66.1	68.5	68.5	69.2
Year First Listed	2019	2019	2011	2016	2018	2020	2019	2022	2022	2020

\* Based on trial results from **2019, 2020** and **2021**.

♠ Yields are expressed as a percentage of the mean of **KWS Cassia, KWS Infinity** and **Belfry** (100 = 10.08t/ha @ 15% moisture content).

( ) Limited Data.



## NOTES ON VARIETIES

### RECOMMENDED

#### BAZOOKA:

An early maturing hybrid six-row variety with very high yield potential. Very long straw with moderate resistance to lodging. Moderately susceptible to straw breakdown. Very good resistance to *Rhynchosporium*. Moderate resistance to brown rust and mildew. Good resistance to net blotch. Small grain size with a good hectolitre weight.

- Cross: F1 Hybrid
- Breeder/Agent: Syngenta (UK), Seed Technology Ltd.

#### BELFRY:

An early maturing hybrid six-row variety with very high yield potential. Long straw with good resistance to lodging and moderate resistance to straw breakdown. Very good resistance to *Rhynchosporium*. Moderate resistance to mildew. Good resistance to brown rust and net blotch. Small grain size with a good hectolitre weight.

- Cross: F1 Hybrid
- Breeder/Agent: Syngenta (UK), Seed Technology Ltd.

#### KWS CASSIA:

A moderately early maturing two-row variety. Short straw with good resistance to lodging and moderate resistance to straw breakdown. Moderately susceptible to mildew and susceptible to *Rhynchosporium*. Good resistance to brown rust and net blotch. Very good grain quality with a very good hectolitre weight.

- Cross: (Eden X Carat) X Saffron
- Breeder/Agent: KWS (UK), Goldcrop Ltd.

#### KWS INFINITY:

A moderately early maturing two-row variety. Short straw with good resistance to lodging and moderate resistance to straw breakdown. Moderately susceptible to mildew. Good resistance to *Rhynchosporium* and net blotch. Moderate resistance to brown rust. Large grain size with good grain quality.

- Cross: KWS Cassia X Retriever
- Breeder/Agent: KWS (UK), Goldcrop Ltd.

#### KWS KOSMOS:

An early maturing six-row conventional variety with very high yield potential. Long straw with moderate resistance to lodging. Susceptible to straw breakdown. Very good resistance to mildew. Good resistance to brown rust, net blotch and *Rhynchosporium*. Reasonable hectolitre weight.

- Cross: G1530/06 X KWS Meridian
- Breeder/Agent: KWS Lochow (DE), Seed Technology Ltd.



**LG CASTING:** An early maturing two-row variety with high yield potential. Short straw and moderately susceptible to lodging and straw breakdown. Moderately susceptible to *Rhynchosporium*. Good resistance to brown rust and net blotch. Very good resistance to mildew. Good hectolitre weight.

- Cross: California x NSL07-6654-D
- Breeder/Agent: Limagrain (UK), Seed Technology Ltd.

**PIXEL:** A very early maturing conventional six-row variety with very high yield potential. Moderately short straw with good resistance to lodging. Susceptible to straw breakdown. Susceptible to *Rhynchosporium*. Good resistance to mildew and brown rust. Moderate resistance to net blotch. Small grain size with a good hectolitre weight.

- Cross: Etincel x (Henriette x Limpid)
- Breeder/Agent: Secobra (FR), Goldcrop Ltd.

### PROVISIONALLY RECOMMENDED

**KWS JOYAU:** A very early maturing conventional six row variety with very high yield potential. Moderately short straw with good resistance to lodging and straw breakdown. Moderately susceptible to mildew. Moderately resistant to *Rhynchosporium*. Good resistance to brown rust and net blotch. Good grain quality. The breeder has stated that this variety is tolerant to Barley Yellow Dwarf Virus but this has not been verified in DAFM trials.

- Cross: Amistar x MH 06DP32
- Breeder/Agent: KWS Momont (FR), Seed Technology Ltd.

**KWS TARDIS:** A very high yielding two row variety. Moderately early maturing. Short straw with good resistance to lodging and moderate resistance to straw breakdown. Moderately resistant to mildew and brown rust. Good resistance to *Rhynchosporium* and Net Blotch. Good grain quality.

- Cross: 11-12 x KWS Orwell
- Breeder/Agent: KWS (UK), Goldcrop Ltd.

**VALERIE:** A very early maturing two row-variety. Short straw with moderate resistance to lodging and straw breakdown. Good resistance to brown rust, mildew, net blotch and *Rhynchosporium*. Very good grain quality with a large grain size and a very good hectolitre weight.

- Cross: 207-589 x Sandra
- Breeder/Agent: Breun (DE), Goldcrop Ltd.