



Winter Cereals Recommended Lists 2024

Winter Barley, Winter Wheat & Winter Oats



CROP POLICY, EVALUATION AND CERTIFICATION DIVISION

www.gov.ie/en/collection/68b24-crops/



VARIETY RATINGS

Variety ratings are derived from the mean of data from the 2021 – 2023 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, hagberg falling number, kernel content, protein content, 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.

TYPES OF RECOMMENDATION

Varieties appearing on the list for the first time are **Provisionally Recommended (PR)** and have completed three years in National List/ Recommended List (NL/RL) trials. The eventual status of these varieties is determined by the level of performance in ongoing NL/RL trials; fully **Recommended (R)** classification may be deemed to be merited after a further one, two or a maximum of three years, or alternatively they may be removed from the list at any stage.

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 RECOMMENDED LIST 2024

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED							PROVISIONALLY RECOMMENDED	
	BELFRY	KWS CASSIA	KWS INFINITY	KWS JOYAU *	KWS TARDIS	LG CASTING	SY ARMADILLO	BORDEAUX	MOLLY **
Relative Yield ♠	105	98	97	105	104	98	109	98	102
Varietal Type	6R(H)	2R	2R	6R	2R	2R	6R(H)	2R	2R
Straw Height (cm)	110.2	93.2	92.6	95.4	91.7	88.0	115.0	90.0	95.1
Resistance to Lodging	7	7	7	7	7	5	6	5	(5)
Straw Breakdown	6	6	6	7	6	5	6	5	(6)
Earliness of Ripening	7	6	6	8	6	7	7	7	(7)
Resistance to:									
Mildew	6	5	5	5	6	8	(6)	(5)	(8)
<i>Rhynchosporium</i>	8	4	6	6	7	5	8	5	(7)
Brown Rust	7	7	6	7	6	7	5	7	(7)
Net Blotch	7	7	7	7	7	7	(7)	(6)	-
Grain quality:									
Screenings % (<2.2mm)	2.6	1.7	2.5	1.3	1.9	2.5	2.3	1.4	2.4
1000 grain weight (g)	46.9	53.4	52.8	49.1	55.6	51.3	48.6	52.9	56.5
Hectolitre weight (kg/hl)	68.2	70.8	68.2	69.5	69.5	68.8	68.1	69.0	65.8
Year First Listed	2019	2011	2016	2022	2022	2020	2023	2023	2024

Data in this table based on trial results from 2021, 2022 and 2023.

* Breeder claim of BYDV tolerance.

** Breeder claim of BYDV resistance.

♠ Yields are expressed as a percentage of the mean of **KWS Cassia**, **KWS Infinity** and **Belfry** (100 = 9.88t/ha @ 15% moisture content). () Limited Data.



NOTES ON VARIETIES

RECOMMENDED

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 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. There is a breeder claim that this variety is tolerant to Barley Yellow Dwarf Virus.

- 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.

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.

SY ARMADILLO: An early maturing six row hybrid variety with very high yield potential. Very long straw with moderate resistance to lodging. It is moderately resistant to straw breakdown. It is moderately susceptible to brown rust. It is highly resistant to *Rhynchosporium*. It is moderately resistant to mildew while it has good resistance to net blotch. Small grain size with a good hectolitre weight.

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

PROVISIONALLY RECOMMENDED

BORDEAUX: An early maturing two-row variety. It has short straw and is moderately susceptible to lodging. It is moderately susceptible to straw breakdown. Good resistance to brown rust. Moderate resistance to net blotch. Moderately susceptible to mildew and *Rhynchosporium*. Good grain quality.

- Cross: Padura x KWS Glacier
- Breeder/Agent: Nordic (DK), Drummonds

MOLLY: An early maturing two-row variety. It has moderately short straw with moderate susceptibility to lodging. It is moderately resistant to straw breakdown. Good resistance to brown rust and *Rhynchosporium*. Very good resistance to mildew. There is a breeder claim that this variety is resistant to Barley Yellow Dwarf Virus.

- Cross: NOS 9075-15 x KWS Infinity
- Breeder/Agent: Nordic (DK), Drummonds



WINTER WHEAT RECOMMENDED LIST 2024

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED				
	GRAHAM	JB DIEGO	KWS DAWSUM	SPEARHEAD	TORP
Relative Yield ♦	102	98	100	103	104
Straw Height (cm)	78.9	80.3	73.9	78.6	79.9
Resistance to lodging	6	6	7	5	7
Straw breakdown	5	7	7	6	6
Earliness of ripening	7	6	6	6	5
Resistance to:					
Mildew	8	6	8	8	5
Septoria spp.	5	4	5	5	6
Yellow rust	7	4	8	7	4
Fusarium ear blight	5	6	-	-	4
Sprouting	6	7	8	4	6
Quality:					
Grain Protein % (15%MC)	10.3	10.2	9.6	9.8	9.7
Hagberg Falling No.♠	305	359	397	141	221
1000 grain weight (g)	51.7	48.3	45.9	50.3	48.3
Hectolitre weight (kg/hl)	77.3	77.8	78.7	75.9	74.7
Market +	F	F	F	F	F
Year First Listed	2020	2010	2023	2022	2018

* Based on results from 2021, 2022 and 2023.

♦ Yields are expressed as a percentage of the mean **JB Diego, Graham and KWS Dawsum** (100 = 11.11t/ha @ 15% moisture content).

- No data.

♠ Based on results from harvests 2021, 2022 & 2023.

+ F - Feed quality.

() Limited Data.



NOTES ON VARIETIES

RECOMMENDED

GRAHAM: A very high yielding early maturing variety with moderate resistance to lodging and moderate susceptibility to straw breakdown. Very good resistance to mildew. Moderately susceptible to *Septoria tritici* fusarium ear blight. Good resistance to yellow rust. Moderately resistant to sprouting. Good hectolitre weight.

- Parentage: Premio x Expert
- Breeder/Agent: Syngenta (UK), Seed Technology Ltd.

KWS DAWSUM: A moderately early maturing variety with good resistance to lodging and straw breakdown. Very good resistance to mildew and yellow rust and moderately susceptible to *Septoria tritici*. Very good resistance to sprouting. Low thousand grain weight with a very good hectolitre weight.

- Parentage: KWS Kerrin x Costello
- Breeder/Agent: KWS (UK), Goldcrop Ltd.

JB DIEGO: A moderately early maturing variety with moderate resistance to lodging and good resistance to straw breakdown. Moderately resistant to mildew and fusarium ear blight. Susceptible to *Septoria tritici* and yellow rust. Good resistance to sprouting. Good grain quality with a good hectolitre weight.

- Parentage: 3351b1 X Stru2374
- Breeder/Agent: Breun (DE), Germinal Ireland.

SPEARHEAD: A very high yielding moderately early maturing variety. Moderately susceptible to lodging and straw breakdown. Very good resistance to mildew. Moderately susceptible to *Septoria tritici*. Good resistance to yellow rust. Susceptible to sprouting. Moderate grain quality.

- Parentage: Freiston x Dickens
- Breeder/Agent: Elsoms (UK), Drummonds Ltd.

TORP: A high yielding, moderately late maturing variety. Good resistance to lodging and moderate resistance to straw breakdown. Moderate resistance to *Septoria tritici*. Moderately susceptible to mildew. Susceptible to fusarium ear blight and yellow rust. Moderately resistant to sprouting. Moderate grain quality with a low hectolitre weight.

- Parentage: Ambition X Symbol
- Breeder/Agent: Nordic Seeds (DK), Drummonds Ltd.



WINTER OATS RECOMMENDED LIST 2024

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED	
	HUSKY	WPB ISABEL
Relative Yield ♦	102	98
Straw height (cm)	116.5	119.2
Resistance to lodging	7	7
Straw breakdown	5	7
Earliness of ripening	8	5
Winter hardiness**	5	-
Resistance to:		
Mildew	5	5
Crown rust	4	5
Grain quality:		
Kernel content (%)	71.8	73.0
1000 grain weight (g)	38.7	41.7
Hectolitre weight (kg/hl)	57.9	60.2
Year First Listed	2010	2020

- * Based on trial results from **2021, 2022** and **2023** (with exception of kernel content which is based on 2022 & 2021 only)
- ♦ Yields are expressed as a percentage of the mean of **Husky and WPB Isabel** (100 = 9.44t/ha @ 15% moisture content).
- No data.
- () Limited Data.
- ** Winter hardiness score for Husky is based on robust data from Spring 2011.

All varieties are spring type varieties sown in winter. Prolonged severe frost or harsh winds can seriously damage spring varieties sown in winter and may cause drastic reduction in yield or even crop failure.



NOTES ON VARIETIES

RECOMMENDED

HUSKY:

An early maturing, spring type variety with high yield potential. Short straw with good resistance to lodging and moderate susceptibility to straw breakdown. Very good grain quality. Moderately susceptible to mildew and susceptible to crown rust.

- Parentage: Firth X Freddy
- Breeder/Agent: Nordsaat (DE), Seed Technology Ltd.

WPB ISABEL:

A good yielding, moderately late maturing, spring type variety. Good resistance to lodging and straw breakdown. Moderately susceptible to mildew and crown rust. Very good grain quality with a very good hectolitre weight.

- Parentage: LW 03E038-06 X Husky
- Breeder/Agent: Wiersum (NL), Goldcrop Ltd.