

Spring Cereal Recommended Lists 2018



CROPS EVALUATION AND CERTIFICATION DIVISION
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An Roinn
**Talmhaíochta,
Bia agus Mara**

Department of
**Agriculture,
Food and the Marine**

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VARIETY RATINGS

Variety ratings are derived from the mean of data from the 2015 – 2017 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, **hagberg falling number, hectolitre weight, 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.

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.

SPRING WHEAT 2018

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED	
	QUINTUS	RGT DOUBLESHOT
Relative Yield [♦]	102	98
Straw Height (cm)	75.4	70.1
Strength of straw	5	5
Earliness of ripening	7	6
Resistance to:		
Mildew	3	5
Septoria spp.	6	6
Yellow rust	8	5
Sprouting	4	7
Quality:		
Grain protein content (%)	11.1	11.5
Hagberg falling number [♣]	271	320
1000 grain weight (g)	49.4	44.5
Hectolitre weight (kg/hl)	75.8	77.0
Hardness index	Hard	Hard
Year first listed	2015	2015

* Based on trial results from **2015, 2016** and **2017**.

♦ Yields are expressed as a percentage of **Quintus** and **RGT Doubleshot** (100 = 9.29 t/ha @ 15% moisture content).

♣ Based on results from **2016**

NOTES ON VARIETIES

RECOMMENDED

QUINTUS:

A high yielding Dutch variety with moderately weak straw. An earlier maturing variety with moderate resistance to *Septoria spp* and very good resistance to yellow rust. Quintus was very susceptible to mildew in 2017 having shown good resistance in previous seasons. Large grain size with good grain quality but susceptible to sprouting.

- Cross: (LW093W015-3 x LW096SW35) x ZE99Z531-28
- Breeder/Irl Agent: Wiersum (NL), Goldcrop Ltd.

RGT DOUBLESHOT:

A French variety with moderately weak straw. Moderately susceptible to mildew and yellow rust and moderately resistant to *Septoria spp*. Good resistance to sprouting. Small grain size with good grain quality.

- Cross: Josselin x Pasteur
- Breeder/Irl Agent: RAGT (UK), Goldcrop Ltd.

SPRING OATS 2018

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED			
	BARRA	BINARY	HUSKY	KEELY
Relative Yield ♦	94	109	106	108
Straw height (cm)	107.7	105.0	105.2	106.9
Resistance to lodging	4	5	7	5
Straw breakdown	4	6	5	4
Earliness of ripening	6	6	8	7
Resistance to:				
Mildew	3	7	6	5
Crown rust	4	5	4	5
Quality:				
1000 grain weight (g)	42.1	45.2	43.0	42.3
Kernel content (%)	74.5	74.7	73.8	73.8
Hectolitre weight (kg/hl)	57.4	55.1	55.7	56.3
Year first listed	1985	2011	2009	2017

* Based on trial results from **2015, 2016** and **2017**.

♦ Yields are expressed as a percentage of the mean of **Barra** and **Husky** (100 = 7.74 t/ha @ 15% moisture).

NOTES ON VARIETIES

RECOMMENDED

BARRA: A Swedish variety susceptible to lodging and to straw breakdown. Very susceptible to mildew and susceptible to crown rust. Excellent grain quality.

- Cross: Selma x KM1 MS
- Breeder/Irl Agent: Svalöf Weibull AB (S), Goldcrop Ltd.

BINARY: A very high yielding Dutch variety. Moderately susceptible to lodging and moderately resistant to straw breakdown. Good resistance to mildew and moderately susceptible to crown rust. Good grain quality.

- Cross: (LW9321-1 x LW9304-2) x Winston
- Breeder/Irl Agent: Weirsum (NL), Goldcrop Ltd.

HUSKY: An early maturing, very high yielding German variety with good resistance to lodging. Moderately susceptible to straw breakdown. Moderately resistant to mildew and susceptible to crown rust. Very good grain quality.

- Cross: Firth x Freddy
- Breeder/Irl Agent: Nordsaat (D), Seed Technology Ltd.

KEELY: An early maturing, very high yielding German variety. Moderate susceptibility to lodging and susceptible to straw breakdown. Moderately susceptible to crown rust and mildew. Very good grain quality.

- Cross: 06/114 x Scorpion
- Breeder/Irl Agent: Nordsaat (D), Goldcrop Ltd.

SPRING BARLEY 2018

AGRONOMIC & QUALITY CHARACTERISTICS*	Recommended					Provisionally Recommended		
	KWS IRINA	MICKLE	PAUSTIAN	PROPINO	RGT PLANET	GANGWAY	HACKER	LIMONA
Relative yield ♦	103	100	101	100	105	106	102	102
Straw height (cm)	72.9	69.1	74.7	77.8	76.1	76.9	74.6	76.9
Resistance to lodging	7	7	6	5	5	(7)	(7)	(7)
Straw breakdown	7	7	6	5	5	(7)	(6)	(7)
Earliness of ripening	6	7	5	6	5	(5)	(7)	(7)
Resistance to:								
Mildew	8	5	8	5	8	(8)	(8)	(8)
<i>Rhynchosporium</i>	6	7	7	6	7	(7)	(7)	(7)
Brown Rust	6	5	7	5	6	(7)	(7)	(6)
Net Blotch	8	4	6	4	5	(8)	(7)	(8)
Quality:								
1,000 grain wt. (g)	51.5	51.2	51.3	53.6	52.9	50.8	50.2	49.5
Hectolitre wt. (kg/hl)	63.8	66.5	66.1	66.1	65.2	67.4	67.0	66.1
Screenings % (<2.2 mm)	2.2	1.4	2.0	1.0	1.8	1.3	1.5	2.5
Grain Protein %	10.4	10.3	10.3	10.5	10.2	10.3	10.5	10.5
Year First Listed	2014	2013	2015	2011	2017	2018	2018	2018

* Based on trial results from **2015, 2016 and 2017.**

♦ Yields are expressed as a percentage of the mean of **Propino and Mickle** (100 = 8.24 t/ha @ 15% moisture content)

NOTES ON VARIETIES

RECOMMENDED

KWS IRINA: A German variety with very high yield potential. Good resistance to lodging and straw breakdown. Very good resistance to mildew and net blotch. Moderate resistance to brown rust and *Rhynchosporium*.

- Cross: Conchita x Quench
- Breeder/Irl Agent: KWS Lochow GmbH (D), Seed Technology Ltd.

MICKLE: A British variety with high yield potential. Good resistance to lodging and straw breakdown. Moderately susceptible to mildew and brown rust and susceptible to net blotch. Good resistance to *Rhynchosporium*.

- Cross: Propino x Snakebite
- Breeder/Irl Agent: Syngenta Seeds Ltd (UK), Seed Technology Ltd.

PAUSTIAN: A Danish variety with high yield potential. Moderate resistance to lodging and straw breakdown. Very good resistance to mildew and good resistance to *Rhynchosporium* and brown rust. Moderate resistance to net blotch.

- Cross: Zeppelin x Propino
- Breeder/Irl Agent: Sejet (DK), Goldcrop Ltd.

PROPINO: A British variety with moderate susceptibility to lodging and straw breakdown. Moderately resistant to *Rhynchosporium*. Moderately susceptible to brown rust and mildew. Susceptible to net blotch. Large grain size with low screening levels.

- Cross: Quench x NFC Tipple
- Breeder/Irl Agent: Syngenta Seeds Ltd (UK), Seed Technology Ltd.

RGT PLANET: A British variety with very high yield potential. Moderately susceptible to lodging and straw breakdown. Very good resistance to mildew with good resistance to *Rhynchosporium*. Moderate resistance to brown rust and moderate susceptibility to net blotch.

- Cross: Tamtam x Concerto
- Breeder/Irl Agent: RAGT (UK), Goldcrop Ltd.

PROVISIONALLY RECOMMENDED

GANGWAY: A Danish variety with very high yield potential. A later maturing variety, with good resistance to lodging and straw breakdown. Very good resistance to mildew and net blotch, with good resistance to brown rust and *Rhynchosporium*. Excellent grain quality.

- Cross: Zeppelin x (Natasia x Kathinka)
- Breeder/Irl Agent: Sejet (DK), Goldcrop Ltd.

HACKER: A French variety with high yield potential. Good resistance to lodging and moderate resistance to straw breakdown. Very good resistance to mildew. Good resistance to net blotch, brown rust and *Rhynchosporium*. Very good grain quality.

- Cross: Quench x Belgravia
- Breeder/Irl Agent: Secobra (FR), Goldcrop Ltd.

LIMONA: A German variety with high yield potential. An earlier maturing variety with good resistance to lodging and straw breakdown. Very good resistance to mildew and net blotch. Good resistance to *Rhynchosporium* and moderate resistance to brown rust.

- Cross: (Concerto x Milford) x Quench
- Breeder/Irl Agent: Bruen (D), Germinal Ireland.

MALTING BARLEY VARIETY INFORMATION 2018

AGRONOMIC & QUALITY CHARACTERISTICS	MALTING BARLEY VARIETIES			
	LAUREATE	OLYMPUS	PROPINO	RGT PLANET
Relative yield ♦	103	99	100	105
Straw Height (cm)	72.4	74.5	78.9	75.4
Resistance to lodging	4	5	5	5
Straw breakdown	4	3	5	5
Earliness of ripening	5	5	6	5
Resistance to:				
Mildew	8	8	6	8
<i>Rhynchosporium</i>	7	7	6	7
Brown Rust	7	7	5	6
Net Blotch	8	7	5	5
Quality:				
1,000 grain wt. (g)	52.1	47.9	53.6	53.0
Hectolitre wt. (kg/hl)	64.4	64.1	66.8	65.7
Screenings% (<2.2 mm)	1.8	2.5	1.1	1.5
Protein %	10.5	10.6	10.9	10.3
Years in malting trial	3	4	7	3

♦ Based on specific Malting Barley trial results from **2015, 2016 and 2017**.

Yields are expressed as a percentage of the mean of **Propino and Mickle** (100 = 8.15 t/ha @ 15% moisture content). Mickle is a control variety across all DAFM spring barley trials.

ADDITIONAL INFORMATION ON VARIETIES SUITABLE FOR MALTING

As malting and brewing in Ireland is grown under contract, the industry determines the varieties to be grown. Choice of varieties is based on results of malting and brewing tests on varieties included in DAFM trials.

Descriptive notes on varieties in the Malting Barley trial but not on the 2018 Spring Barley Recommended List:

LAUREATE: A British variety and the highest yielding non – GN variety in the malting trial. Susceptible to lodging and straw breakdown. Very good resistance to mildew and net blotch. Good resistance to *Rhynchosporium* and Brown Rust.

- Cross: Sanette x Concerto
- Breeder/Irl Agent: Syngenta Seeds Ltd (UK), Seed Technology Ltd.

OLYMPUS: A British non – GN variety. Moderately susceptible to lodging and very susceptible straw breakdown. Very good resistance to mildew, good resistance to net blotch, *Rhynchosporium* and brown rust. Small grain size.

- Cross: Genie x LAN 0848
- Breeder/Irl Agent: Limagrain (UK), Seed Technology Ltd.

*For variety descriptions of Propino and RGT Planet see Spring Barley Recommended List 2018 under notes on Spring Barley Varieties. (Note that Mickle is used as a control variety in malting barley trial so as to correlate with RL trials).

Wylanda: An area of Wylanda will be available commercially for malting barley in 2018. A candidate for recommendation, Wylanda was not added to the recommended list for 2018. Wylanda will be entered into the malting barley trial for 2018 sowing.