

Spring Cereal Recommended Lists 2019



CROPS EVALUATION AND CERTIFICATION DIVISION
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VARIETY RATINGS

Variety ratings are derived from the mean of data from the 2016 – 2018 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 is 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 2019

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED		PROVISIONALLY RECOMMENDED
	QUINTUS	RGT DOUBLESHOT	KWS CHILHAM
Relative Yield [♦]	101	99	104
Straw Height (cm)	67.8	65.3	61.9
Strength of straw	5	5	(4)
Earliness of ripening	7	6	(4)
Resistance to:			
Mildew	3	5	(7)
Septoria spp.	6	6	(6)
Yellow rust	8	5	(8)
Sprouting	4	7	(7)
Quality:			
Grain protein content (%)	12.0	12.3	11.8
Hagberg falling number [♣]	213	284	264
1000 grain weight (g)	37.0	34.1	36.1
Hectolitre weight (kg/hl)	76.3	77.7	76.2
Hardness index	Hard	Hard	Hard
Year first listed	2015	2015	2019

* Based on trial results from **2016, 2017** and **2018**.

♦ Yields are expressed as a percentage of **Quintus** and **RGT Doubleshot** (100 = 7.66 t/ha @ 15% moisture content).

♣ Based on results from **2017**



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. Very susceptible to mildew. Good grain quality but susceptible to sprouting.

- Cross: (LW093W015-3 x LW096SW35) x ZE99Z531-28
- Breeder/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/Agent: RAGT (UK), Goldcrop Ltd.

PROVISIONALLY RECOMMENDED

KWS CHILHAM:

A very high yielding British variety, susceptible to lodging. A later maturing variety with good resistance to mildew. Very good resistance to yellow rust and moderately resistant to *Septoria spp*. Good resistance to sprouting and good grain quality.

- Cross: Sparrow x Azurite
- Breeder/Agent: KWS (UK), Goldcrop Ltd.



SPRING OATS 2019

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED			PROVISIONALLY RECOMMENDED	
	BARRA	HUSKY	KEELY	DELFIN	WPB ISABEL
Relative Yield ♦	94	106	104	117	111
Straw height (cm)	98.1	96.3	98.7	98.1	101.5
Resistance to lodging	3	6	5	(7)	(8)
Straw breakdown	4	5	4	(6)	(8)
Earliness of ripening	6	8	7	(7)	(6)
Resistance to:					
Mildew	3	6	5	(8)	(6)
Crown rust	4	4	5	(4)	(6)
Quality:					
1000 grain weight (g)	38.1	38.8	38.2	45.3	42.4
Kernel content (%)	74.2	74.5	74.1	73.2	75.3
Hectolitre weight (kg/hl)	56.0	55.0	55.7	53.8	56.2
Year first listed	1985	2009	2017	2019	2019

* Based on trial results from **2016, 2017** and **2018**.

♦ Yields are expressed as a percentage of the mean of **Barra** and **Husky** (100 = 6.53 t/ha @ 15% moisture).



NOTES ON VARIETIES

RECOMMENDED

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

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

HUSKY: A very early maturing, high yielding German variety with moderate 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/Agent: Nordsaat (DE), Seed Technology Ltd.

KEELY: An early maturing, 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/Agent: Nordsaat (DE), Goldcrop Ltd.

PROVISIONALLY RECOMMENDED

DELFIN: A very high yielding early maturing German variety. Good resistance to lodging and moderate resistance to straw breakdown. Very good resistance to mildew and susceptible to crown rust. Good grain quality.

- Cross: 07/107 x Canyon
- Breeder/ Agent: Nordsaat (DE), Seed Technology Ltd.

WPB ISABEL: A very high yielding Dutch variety. Very good resistance to lodging and straw breakdown. Moderately resistant to mildew and crown rust. Excellent grain quality.

- Cross: LW 03W038-06 x Husky
- Breeder/Agent: Wiersum (NL), Goldcrop Ltd.



SPRING BARLEY 2019

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED					PROVISIONALLY RECOMMENDED					
	GANGWAY	KWS IRINA	MICKLE	PAUSTIAN	RGT PLANET	HACKER	KWS CANTON	LIMONA	PROSPECT	SY ARDERIN	SY ERRIGAL
Relative yield ♦	102	100	97	98	103	99	103	99	104	102	103
Straw height (cm)	68.8	66.0	64.2	67.7	70.1	67.8	71.9	69.5	67.7	66.3	68.4
Resistance to lodging	7	7	7	6	5	7	(5)	7	(5)	(7)	(7)
Straw breakdown	7	7	7	6	4	6	(4)	7	(6)	(7)	(6)
Earliness of ripening	5	6	7	5	5	7	(7)	7	(6)	(5)	(5)
Resistance to:											
Mildew	8	8	4	8	8	8	(8)	8	(8)	(8)	(8)
<i>Rhynchosporium</i>	7	6	7	7	7	7	-	7	-	-	-
Brown Rust	7	6	5	7	6	7	(6)	6	(7)	(6)	(7)
Net Blotch	8	8	4	6	5	7	(7)	8	(5)	(7)	(8)
Quality:											
1,000 grain wt. (g)	49.5	50.7	50.1	50.0	51.7	48.5	51.1	48.5	48.3	53.2	51.6
Hectolitre wt. (kg/hl)	67.8	64.9	67.1	66.6	65.9	67.2	66.6	66.6	65.5	65.7	65.4
Screenings % (<2.2 mm)	1.5	1.8	1.3	1.9	1.5	1.6	1.5	2.5	1.9	1.2	1.4
Grain Protein %	11.1	11.2	11.3	11.1	10.8	11.2	11.1	11.2	11.3	11.3	11.0
Year First Listed	2018	2014	2013	2015	2017	2018	2019	2018	2019	2019	2019

* Based on trial results from **2016, 2017 and 2018**.

♦ Yields are expressed as a percentage of the mean of **Mickle and RGT Planet**.
(100 = 7.34t/ha @ 15% moisture content).

- No robust data on *Rhynchosporium* was collected in 2016, 2017 or 2018.



NOTES ON VARIETIES

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/Agent: Sejet (DK), Goldcrop Ltd.

KWS IRINA: A German variety with 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/Agent: KWS Lochow (DE), Seed Technology Ltd.

MICKLE: A British variety with good resistance to lodging and straw breakdown. Moderately susceptible to brown rust. Susceptible to mildew and net blotch. Good resistance to *Rhynchosporium*. Very good grain quality.

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

RGT PLANET: A British variety with very high yield potential. Moderately late maturing. Moderately susceptible to lodging and susceptible to 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/Agent: RAGT (UK), Goldcrop Ltd.



PROVISIONALLY RECOMMENDED

- HACKER:** A French variety with good resistance to lodging and moderate resistance to straw breakdown. Early maturing with very good resistance to mildew. Good resistance to net blotch, brown rust and *Rhynchosporium*. Very good grain quality.
- Cross: Quench x Belgravia
 - Breeder/Agent: Secobra (FR), Goldcrop Ltd.
- KWS CANTTON:** A very high yielding German variety with moderate susceptibility to lodging and susceptible to straw breakdown. Early maturing with very good resistance to mildew. Good resistance to net blotch with moderate resistance to brown rust. Very good grain quality.
- Cross: Tamtam x SJ 56007
 - Breeder/Agent: KWS Lochow (DE), Seed Technology Ltd.
- LIMONA:** An earlier maturing German 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/Agent: Bruen (DE), Germinal Ireland.
- PROSPECT:** A Danish variety with very high yield potential. Moderately early maturing. Moderately susceptible to lodging with moderate resistance to straw breakdown. Very good resistance to mildew. Good resistance to brown rust and moderate susceptibility to net blotch.
- Cross: KWS Irina x Overture
 - Breeder/Agent: Sejet (DK), Goldcrop Ltd.
- SY ARDERIN:** A high yield potential British variety with good resistance to lodging and straw breakdown. A later maturing variety with very good resistance to mildew. Good resistance to net blotch and moderate resistance to brown rust.
- Cross: Sparkle x Crooner
 - Breeder/Agent: Syngenta (UK), Seed Technology Ltd.
- SY ERRIGAL:** A very high yielding and later maturing British variety. Good resistance to lodging and moderate resistance to straw breakdown. Very good resistance to mildew and net blotch. Good resistance to brown rust.
- Cross: Dragoon x Mickle
 - Breeder/Agent: Syngenta (UK), Seed Technology Ltd.



MALTING BARLEY VARIETY INFORMATION 2019

AGRONOMIC & QUALITY CHARACTERISTICS	MALTING BARLEY VARIETIES	
	LAUREATE	RGT PLANET
Relative yield ♦	100	103
Straw Height (cm)	67.3	70.1
Resistance to lodging	4	5
Straw breakdown	4	4
Earliness of ripening	5	5
Resistance to:		
Mildew	8	8
<i>Rhynchosporium</i>	7	7
Brown Rust	7	6
Net Blotch	8	5
Quality:		
1,000 grain wt. (g)	50.1	50.7
Hectolitre wt. (kg/hl)	64.5	65.9
Screenings% (<2.2 mm)	2.5	2.1
Protein %	11.8	11.4
Years in malting trial	4	4

* Based on trial results from **2016, 2017 and 2018**.

♦ Based on specific Malting Barley trial results from **2016, 2017 and 2018**.

Yields are expressed as a percentage of the mean of **Mickle and RGT Planet** (100 = 7.19 t/ha @ 15% moisture content). Mickle was a control variety across all DAFM spring barley trials in 2018.



ADDITIONAL INFORMATION ON VARIETIES SUITABLE FOR MALTING

As malting barley in Ireland is grown under contract, the industry determines the availability of varieties. Decisions on varieties offered are based on results of malting and brewing tests carried out on varieties included in DAFM trials.

Varieties that have completed at least two years in the malting barley trials programme are included on the malting barley variety information list. For 2019, the commercially available varieties eligible for inclusion on the list are Laureate and RGT Planet.

Descriptive notes on varieties on the Malting Barley Information List but not on the 2019 Spring Barley Recommended List:

LAUREATE: A British variety, 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.

[*For variety descriptions of RGT Planet see Spring Barley Recommended List 2019.](#)