

Spring Cereal Recommended Lists 2010

This leaflet contains a list of those varieties which have shown superior merit over a number of years in the Department's Cereal Variety Evaluation Programme.

Growers should give preference to the varieties listed here unless there is strong evidence that some other variety registered on the National Catalogue of Agricultural Plant Varieties is more suited to their conditions. When large acreages are sown it is advisable to grow a number of varieties, chosen to minimise the effects of disease epidemics.

EVALUATION PROGRAMME

For spring barley and winter wheat, varieties are evaluated in National List trials initially. The most promising varieties are then entered into Recommended List trials after two years, or after one year if merited. For winter barley, oats and spring wheat, new varieties are entered into combined Recommended/National List trials. Trials are carried out at the Department's variety evaluation centres at Backweston, Kildalton and Moorepark and on commercial farms recommended by Teagasc tillage advisors.

Varieties appearing on the list for the first time are **Provisionally Recommended**: spring barley and winter wheat having completed a minimum of two years in Recommended List trials and one year in National List trials; winter barley, oats and spring wheat having been evaluated for a minimum of three years in combined Recommended/National List trials. The eventual status of these varieties is determined by level of performance in ongoing trials; fully **Recommended** classification may be deemed merited after a further one to three years, or alternatively they may be removed from the list at any stage.

VARIETY RATINGS

Variety ratings are derived from the mean of data from the 2007 – 2009 trials.

Yielding capacity of each variety is given as a percentage of control varieties (100). Yield ratings are from trials carried out in accordance with good commercial husbandry practices.

Actual data are given for **1000 grain weight, hectolitre 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 **shortness of straw** a difference of one point represents approximately 5 cm (2 inches). 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.

SPRING WHEAT 2010

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED				PROVISIONALLY RECOMMENDED
	BYRON	RAFFLES	TRAPPE	GRANARY	SPARROW
Relative Yield ♦	100	98	102	101	100
Shortness of straw	7	6	5	6	(6)
Strength of straw	7	7	7	7	(7)
Earliness of ripening	5	7	5	5	(5)
Resistance to:					
Mildew	4	5	5	5	(6)
Septoria spp.	5	5	6	6	(6)
Yellow rust	(8)	(8)	(6)	(7)	(7)
Sprouting	5	6	6	6	(6)
Quality:					
Grain protein content (%)	11.4	12.0	11.1	11.9	11.8
Hagberg falling number♣	-	(323)	(282)	(282)	♠
Milling quality	Unsuitable for Bread-making	Good	Good	Good	♠
Bread making quality		Good	Good	Good	♠
1000 grain weight (g)	52.0	51.1	47.3	49.3	46.7
Hectolitre weight (kg/hl)	67.2	71.6	72.6	70.4	70.9
Hardness index	Hard	Hard	Hard	Hard	Hard
Year first listed	2006	2000	2007	2009	2010

* Based on trial results from **2007, 2008** and **2009**.

♦ Yields are expressed as a percentage of **Raffles** and **Trappe** where (100 = 7.981 t/ha @ 15% moisture content)

♣ Based on milling results from **2005, 2006** and **2007**.

♠ See variety notes on Sparrow below.

NOTES ON SPRING WHEAT VARIETIES

RECOMMENDED

BYRON: A high yielding British variety with short stiff straw. Susceptible to mildew and moderately susceptible to *Septoria spp.* Limited data suggests it has good resistance to yellow rust. **Byron is a feed variety and is unsuitable for bread-making.**

- Cross: Raffles x Imp.
- Breeder/Irl Agent: CPB Twyford Ltd, Goldcrop Ltd.

RAFFLES: An early maturing British variety with moderately short stiff straw. Moderately susceptible to *Septoria spp* and mildew and has good resistance to yellow rust. Good milling and bread making quality.

- Cross: Shiraz x Cadenza
- Breeder/Irl Agent: CPB Twyford Ltd, Goldcrop Ltd.

TRAPPE: A very high yielding German variety with a moderately tall stiff straw. Moderately resistant to *Septoria spp*, moderately susceptible to mildew and has moderate resistance to yellow rust. Good milling and bread making quality.

- Cross: B93689 x LP 2154/91
- Breeder/ Irl Agent: Lochow Petkus , Seed Technology Ltd

GRANARY: A high yielding British variety with moderately short stiff straw. Moderately resistant to *Septoria spp*, moderately susceptible to mildew and limited data suggests it has good resistance to yellow rust. Good milling and bread making quality.

- Cross: CPBT W62 x Wallace
- Breeder/Irl Agent: CPB Twyford Ltd, Goldcrop Ltd.

PROVISIONALLY RECOMMENDED

SPARROW: A high yielding British variety with moderately short stiff straw. Moderately resistant to mildew and *Septoria spp.* Quality tests from 2007 indicate that Sparrow has good milling and bread-making potential. However, due to difficult growing conditions in 2008 and 2009, there is insufficient reliable data to make an accurate recommendation on milling and bread-making quality

- Cross: (Chablis X Status) X Chablis
- Breeder/Irl Agent: CPB Twyford Ltd, Goldcrop Ltd.

Final figures for Certified Spring Wheat Seed not available at time of publishing.

SPRING OATS 2010

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED			PROVISIONALLY RECOMMENDED
	BARRA	CORRIB	EVITA	HUSKY
Relative Yield ♦	95	104	101	100
Shortness of straw	6	7	8	7
Resistance to lodging	4	8	6	7
Straw breakdown	5	7	6	(5)
Earliness of ripening	6	6	6	(7)
Resistance to:				
Mildew	3	3	4	6
Crown rust	4	5	4	(4)
Quality:				
1000 grain weight (g)	36.1	37.2	38.7	36.7
Kernel content (%)	73.9	71.7	71.1	73.0
Hectolitre weight (kg/hl)	53.0	51.2	51.9	51.8
Year first listed	1985	2005	1999	2009

* Based on trial results from **2007, 2008** and **2009**.

♦ Yields are expressed as a percentage of the mean of **Barra, Evita** and **Corrib** where (100 = 6.858 t/ha @ 15% moisture).

NOTES ON SPRING OAT VARIETIES

RECOMMENDED

BARRA: A Swedish variety with moderately short straw, susceptible to lodging and moderately susceptible 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, Goldcrop Ltd.

CORRIB: A very high yielding German variety with short straw and good resistance to lodging and straw breakdown. Very susceptible to mildew and moderately susceptible to crown rust. Good grain quality.

- Cross: (Berber x Adamo x SV)
- Breeder/Irl Agent: Lochow-Petkus GmbH, Seed Technology Ltd.

EVITA: A high yielding Belgian variety with short straw and moderate resistance to lodging and straw breakdown. Susceptible to mildew and crown rust. Good grain quality.

- Cross: (Leanda x LP 8047)
- Breeder/Irl Agent: Lochow-Petkus GmbH, Seed Technology Ltd.

PROVISIONALLY RECOMMENDED

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

- Cross: CPBT SO1 x Freddy
- Breeder/Irl Agent: Nordsaat, Seed Technology Ltd.

Final figures for Certified Spring Oat Seed not available at time of publishing.

SPRING BARLEY 2010

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED				PROVISIONALLY RECOMMENDED	
	COCKTAIL	FRONTIER	QUENCH	SNAKEBITE	CROPTON	MAGALY
Relative yield ♦	98	100	102	102	103	102
Shortness of straw	6	7	6	6	(5)	(6)
Resistance to lodging	6	5	6	7	(6)	(5)
Straw breakdown	6	5	5	7	(5)	(5)
Earliness of ripening	6	6	6	6	(6)	(6)
Resistance to:						
Mildew	6	5	7	6	(7)	(6)
<i>Rhynchosporium</i>	5	5	7	5	(5)	(6)
Brown Rust	7	6	4	7	(7)	(6)
Net Blotch	6	7	7	7	(7)	(7)
Quality:						
1,000 grain wt. (g)	48.2	48.0	45.7	49.8	47.6	48.3
Hectolitre wt. (kg/hl)	62.8	59.5	60.5	61.3	61.0	62.1
Year First Listed	2004	2005	2007	2009	2010	2009

* Based on trial results from **2007, 2008 and 2009**.

♦ Yields are expressed as a percentage of the mean of **Cocktail, Frontier and Quench** (100 = 7.28 t/ha @ 15% moisture content)

NOTES ON SPRING BARLEY VARIETIES

RECOMMENDED

COCKTAIL: A British variety with moderately short straw and moderate resistance to lodging and straw breakdown. Moderately resistant to mildew and net blotch. Good resistance to brown rust. Moderately susceptible to *Rhynchosporium*. Susceptible to yellow rust.

- Cross: (NFC 496/12 x Saloon) x (Linden x Thistle)
- Breeder/Irl Agent: Syngenta Seeds Ltd, Seed Technology Ltd.
- Seed Availability: 3%*

FRONTIER: A Danish variety with high yield potential. Short straw with moderate susceptibility to lodging and straw breakdown. Moderately susceptible to mildew and *Rhynchosporium*. Moderately resistant to brown rust. Good resistance to net blotch.

- Cross: (Tavern) x [Annabell x (Lux x Ferment)]
- Breeder/Irl Agent: Sejet, Goldcrop Ltd.
- Seed Availability: 5%*

QUENCH: A British variety with very high yield potential. Moderately short straw, moderately resistant to lodging and moderately susceptible to straw breakdown. Good resistance to mildew, *Rhynchosporium* and net blotch. Susceptible to brown rust and yellow rust. Relatively small grain.

- Cross: (Sebastian x Drum)
- Breeder/Irl Agent: Syngenta Seeds Ltd, Seed Technology Ltd.
- Seed Availability: 21%*

SNAKEBITE: A British variety with very high yield potential. Moderately short straw with good resistance to lodging and straw breakdown. Moderately resistant to mildew. Good resistance to brown rust and net blotch. Moderately susceptible to *Rhynchosporium*. Susceptible to yellow rust.

- Cross: (Wicket x Braemer)
- Breeder/Irl Agent: Syngenta Seeds Ltd, Seed Technology Ltd.
- Seed Availability: 20%*

PROVISIONALLY RECOMMENDED

CROPTON: A British variety with very high yield potential. Moderately tall straw with moderate resistance to lodging and moderate susceptibility to straw breakdown. Good resistance to Mildew, Brown Rust and Net Blotch. Moderately susceptible to *Rhynchosporium*.

- Cross: (Quench x Waggon)
- Breeder/Irl Agent: Syngenta Seeds Ltd, Seed Technology Ltd.
- Seed Availability: 6%*

MAGALY: A French variety with very high yield potential. Moderately short straw with moderate susceptibility to lodging and straw breakdown. Moderately resistant to mildew, *Rhynchosporium* and brown rust. Good resistance to net blotch.

- Cross: (Mariett x County)
- Breeder/Irl Agent: Unisigma, Goldcrop Ltd.
- Seed Availability: 21 %*

(* Refers to Certified Spring Barley Seed Availability 2010)