

Spring Cereal Recommended Lists 2011

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 2008 – 2010 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 2011

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED			
	GRANARY	RAFFLES	SPARROW	TRAPPE
Relative Yield ♦	99	99	100	101
Shortness of straw	6	6	6	5
Strength of straw	7	7	7	7
Earliness of ripening	6	7	5	6
Resistance to:				
Mildew	5	5	6	5
Septoria spp.	6	5	(6)	6
Yellow rust	(7)	(8)	(7)	(6)
Sprouting	6	6	(6)	6
Quality:				
Grain protein content (%)	11.5	11.6	11.5	10.9
Hagberg falling number ♣	255	376	374	319
Milling and baking quality ■	Moderate	Moderate	Good	Good
1000 grain weight (g)	48.8	50.5	47.4	46.9
Hectolitre weight (kg/hl)	71.0	72.2	72.1	73.5
Hardness index	Hard	Hard	Hard	Hard
Year first listed	2009	2000	2010	2007

* Based on trial results from **2008, 2009** and **2010**.

♦ Yields are expressed as a percentage of **Raffles** and **Trappe** (100 = 7.87 t/ha @ 15% moisture content)

♣ Based on results from **2007** and **2010**

■ Milling and baking quality determined by functional performance tests carried out by Odlums

NOTES ON SPRING WHEAT VARIETIES

RECOMMENDED

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. Moderate milling and baking quality.

- Cross: CPBT W62 x Wallace
- Breeder/Irl Agent: CPB Twyford Ltd, Goldcrop Ltd
- Estimated Certified Seed Availability: 26%*

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. Moderate milling and baking quality.

- Cross: Shiraz x Cadenza
- Breeder/Irl Agent: CPB Twyford Ltd, Goldcrop Ltd.
- Estimated Certified Seed Availability: 14%*

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

- Cross: (Chablis x Status) x Chablis
- Breeder/Irl Agent: CPB Twyford Ltd, Goldcrop Ltd.
- Estimated Certified Seed Availability: 35%*

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 baking quality.

- Cross: B93689 x LP 2154/91
- Breeder/ Irl Agent: Lochow Petkus, Seed Technology Ltd
- Estimated Certified Seed Availability: 25%

(* Estimated Seed Availability is based on Seed Certification Harvest Report 2010)

SPRING OATS 2011

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED			PROVISIONALLY RECOMMENDED	
	BARRA	EVITA	HUSKY	BINARY	CIRCLE
Relative Yield ♦	94	103	103	109	104
Shortness of straw	6	8	8	(8)	(6)
Resistance to lodging	4	6	7	(5)	(8)
Straw breakdown	5	6	(5)	(6)	(6)
Earliness of ripening	6	6	7	(6)	(6)
Resistance to:					
Mildew	3	4	6	(7)	(4)
Crown rust	4	4	(4)	(5)	(4)
Quality:					
1000 grain weight (g)	37.2	40.3	37.9	40.6	41.1
Kernel content (%)	73.3	71.0	73.3	73.3	73.5
Hectolitre weight (kg/hl)	52.5	51.5	51.8	51.4	51.0
Year first listed	1985	1999	2009	2011	2011

* Based on trial results from **2008, 2009** and **2010**.

♦ Yields are expressed as a percentage of the mean of **Barra, Evita** and **Husky** (100 = 6.88 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.
 - Estimated Certified Seed Availability: 52%

- 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.
 - Estimated Certified Seed Availability: 3%

- 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.
 - Estimated Certified Seed Availability: 17%

PROVISIONALLY RECOMMENDED

- BINARY:** A very high yielding Dutch variety with short straw, 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, Goldcrop Ltd.
 - Estimated Certified Seed Availability: 3%

- CIRCLE:** A high yielding Swedish variety with moderately short straw, very good resistance to lodging and moderate resistance to straw breakdown. Susceptible to mildew and crown rust. Good grain quality.
- Cross: (SV92158 x SV923793)
 - Breeder/Irl Agent: Svalöf Weibull AB, Goldcrop Ltd.
 - Estimated Certified Seed Availability: 18%

(* Estimated Seed Availability is based on Seed Certification Harvest Report 2010)

SPRING BARLEY 2011

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED					PROVISIONALLY RECOMMENDED	
	COCKTAIL	CROPTON	FRONTIER	QUENCH	SNAKEBITE	MAGALY	PROPINO
Relative yield ♦	98	103	100	101	102	99	103
Shortness of straw	6	5	7	6	6	6	5
Resistance to lodging	6	6	5	6	7	5	(6)
Straw breakdown	6	5	5	5	7	4	(5)
Earliness of ripening	7	6	7	6	6	6	(6)
Resistance to:							
Mildew	6	7	5	7	5	6	(7)
<i>Rhynchosporium</i>	5	5	5	7	5	6	(7)
Brown Rust	7	(6)	6	4	7	(6)	(5)
Net Blotch	6	6	7	7	7	(7)	(7)
Quality:							
1,000 grain wt. (g)	50.2	49.7	50.2	47.8	51.4	48.6	54.0
Hectolitre wt. (kg/hl)	63.4	61.6	60.2	60.5	61.5	61.8	61.4
Year First Listed	2004	2010	2005	2007	2009	2009	2011

* Based on trial results from **2008, 2009 and 2010.**

♦ Yields are expressed as a percentage of the mean of **Cocktail, Frontier and Quench** (100 = 7.41t/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* and susceptible to yellow rust.
- Cross: (NFC 496/12 x Saloon) x (Linden x Thistle)
 - Breeder/Irl Agent: Syngenta Seeds Ltd, Seed Technology Ltd.
 - Estimated Certified Seed Availability: 3%*
- 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 and moderately resistant to brown rust and net blotch. Moderately susceptible to *Rhynchosporium*.
- Cross: (Quench x Waggon)
 - Breeder/Irl Agent: Syngenta Seeds Ltd, Seed Technology Ltd.
 - Estimated Certified Seed Availability: 15%*
- 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.
 - Estimated Certified Seed Availability: 6%*
- QUENCH:** A British variety with 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. Small grain size relative to other varieties.
- Cross: (Sebastian x Drum)
 - Breeder/Irl Agent: Syngenta Seeds Ltd, Seed Technology Ltd.
 - Estimated Certified Seed Availability: 19%*
- SNAKEBITE:** A British variety with very high yield potential. Moderately short straw with good resistance to lodging and straw breakdown. Moderately susceptible to mildew and *Rhynchosporium*. Good resistance to brown rust and net blotch. Susceptible to yellow rust.
- Cross: (Wicket x Braemer)
 - Breeder/Irl Agent: Syngenta Seeds Ltd, Seed Technology Ltd.
 - Estimated Certified Seed Availability: 20%*

PROVISIONALLY RECOMMENDED

MAGALY: A French variety with moderately short straw. Moderately susceptible to lodging and susceptible to 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.
- Estimated Certified Seed Availability: 15%*

PROPINO: 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, *Rhynchosporium* and net blotch. Moderately susceptible to brown rust. Large grain size.

- Cross: (Quench x NFC Tipple)
- Breeder/Irl Agent: Syngenta Seeds Ltd, Seed Technology Ltd.
- Estimated Certified Seed Availability: 8%*

(* Estimated Seed Availability based on Seed Certification Harvest Report 2010)

Recommended Lists on the DAFF Website

www.agriculture.gov.ie

The Cereal Recommended Lists 2011 are available on the Department of Agriculture, Fisheries and Food website: www.agriculture.gov.ie

Enter the website and click on **Publications**.

Important Notice:

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