

# Spring Cereal Recommended Lists 2009



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.

The suitability of those spring barley varieties on the Recommended List for their production under R.E.P.S. is determined from a minimum of three years evaluation on Department approved commercial R.E.P.S. farms.

## VARIETY RATINGS

Variety ratings are derived from the mean of data from the 2006 – 2008 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 BARLEY 2009

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED			PROVISIONALLY RECOMMENDED		
	COCKTAIL	FRONTIER	QUENCH	CENTURION	MAGALY	SNAKEBITE
<b>Relative yield ♦</b>	<b>98</b>	<b>100</b>	<b>102</b>	<b>99</b>	<b>104</b>	<b>102</b>
<i>Relative yield under R.E.P.S. ♣</i>	<i>99</i>	<i>100</i>	<i>102</i>	<i>100</i>	--	--
Shortness of straw	6	7	6	6	(6)	(6)
Strength of straw	6	5	6	6	(5)	(7)
Straw breakdown	6	5	5	5	(5)	(7)
Earliness of ripening	6	6	6	6	(6)	(6)
<b>Resistance to:</b>						
Mildew	6	5	7	6	(6)	(6)
<i>Rhynchosporium</i>	5	5	7	5	(6)	(5)
Brown Rust	7	6	4	7	(6)	(7)
Net Blotch	6	7	7	5	(7)	(7)
<b>Quality:</b>						
1,000 grain wt. (g)	49.1	49.2	46.7	50.5	49.4	50.7
Hectolitre wt. (kg/hl)	64.4	61.7	62.4	63.5	63.7	63.2
<b>Year First Listed</b>	<b>2004</b>	<b>2005</b>	<b>2007</b>	<b>2007</b>	<b>2009</b>	<b>2009</b>

- For feed based on trial results from **2006, 2007** and **2008**.
- (*For REPS based on results 2005,2006 and 2008*)

♦/♣ Yields are expressed as a percentage of the mean of **Cocktail** , **Frontier** and **Quench** where--  
 ♦ (100 = 7.683 t/ha @ 15% moisture content) and--  
 ♣ (100 = 6.918 t/ha @ 15% moisture content) under R.E.P.S. trialling.

## NOTES ON SPRING BARLEY VARIETIES

### RECOMMENDED:

**COCKTAIL:** A British variety with high yield potential. Moderately short and moderately stiff straw and moderately resistant to 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: New Farm Crops, Seed Technology Ltd.
- Seed Availability: 5 %.\*

**FRONTIER:** A Danish variety with high yield potential. Short moderately weak straw and moderately susceptible to 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: 8 %.\*

**QUENCH:** A British variety with very high yield potential. Moderately short and moderately stiff straw. 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: New Farm Crops, Seed Technology Ltd.
- Seed Availability: 22 %.\*

### PROVISIONALLY RECOMMENDED:

**CENTURION:** A British variety with high yield potential. Moderately short and moderately stiff straw. Moderately susceptible to straw breakdown. Moderately resistant to mildew. Good resistance to brown rust. Moderately susceptible to net blotch. Moderately susceptible to *Rhynchosporium*.

- Cross: (Moypole x Spire).
- Breeder/Irl Agent: Ragt, Goldcrop Ltd.
- Seed Availability: 22 %.\*

**MAGALY:** A French variety with very high yield potential. Moderately short and moderately weak straw and moderately 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.
- Seed Availability: 17 %.\*

**SNAKEBITE:** A British variety with very high yield potential. Moderately short stiff straw and good resistance to 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, Seed Technology Ltd.
- Seed Availability: 9 %.\*

(\* Refers to Certified Spring Barley Seed Availability 2009)

## SPRING WHEAT 2009

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED			PROVISIONALLY RECOMMENDED
	BYRON	RAFFLES	TRAPPE	GRANARY
<b>Relative Yield ♦</b>	<b>99</b>	<b>100</b>	<b>100</b>	<b>101</b>
Shortness of straw	7	6	5	(6)
Strength of straw	7	7	7	(7)
Earliness of ripening	5	7	5	(5)
<b>Resistance to:</b>				
Mildew	5	5	5	(5)
Septoria spp.	5	5	6	(6)
Yellow rust	(8)	(8)	(6)	(7)
Sprouting	5	6	6	(6)
<b>Quality:</b>				
Grain protein content (%)	11.6	12.1	11.4	11.9
Hagberg falling number♣	-	323	282	262
Milling quality	Unsuitable for Bread-making	Good	Good	Good
Bread making quality		Good	Good	Good
1000 grain weight (g)	50.1	49.1	44.5	47.3
Hectolitre weight (kg/hl)	69.8	73.5	73.8	72.0
Hardness index	Hard	Hard	Hard	Hard
<b>Year first listed</b>	<b>2006</b>	<b>2000</b>	<b>2007</b>	<b>2009</b>

\* Based on trial results from **2006, 2007** and **2008**.

♦ Yields are expressed as a percentage of **Raffles** and **Trappe** where (100 = 8.020 t/ha @ 15% moisture content)

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

## NOTES ON SPRING WHEAT VARIETIES

### RECOMMENDED

**BYRON:** A high yielding British variety with short stiff straw. Moderately susceptible to Septoria spp. and mildew. 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.
- Seed Availability: 10 %.\*

**RAFFLES:** An early maturing high yielding 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.
- Seed Availability: 55 %.\*

**TRAPPE:** A 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
- Seed Availability: 17 %.\*

### PROVISIONALLY RECOMMENDED

**GRANARY:** A very 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.
- Seed Availability: 12 %.\*

(\* Refers to Certified Spring Wheat Seed Availability 2009)

## SPRING OATS 2009

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED			PROVISIONALLY RECOMMENDED
	BARRA	CORRIB	EVITA	HUSKY
<b>Relative Yield ♦</b>	<b>96</b>	<b>104</b>	<b>100</b>	<b>103</b>
Shortness of straw	6	7	8	(7)
Strength of straw	5	8	6	(7)
Earliness of ripening	6	6	6	(7)
<b>Resistance to:</b>				
Mildew	3	3	4	(6)
Crown rust	4	5	4	(4)
<b>Quality:</b>				
1000 grain weight (g)	34.6	36.0	37.0	35.4
Kernel content (%)	73.7	71.9	71.2	72.7
Hectolitre weight (kg/hl)	53.0	51.4	51.9	52.1
<b>Year first listed</b>	<b>1985</b>	<b>2005</b>	<b>1999</b>	<b>2009</b>

\* Based on trial results from **2006, 2007** and **2008**.

♦ Yields are expressed as a percentage of the mean of **Barra, Evita** and **Corrib** where (100 = 7.030 t/ha @ 15% moisture).

## NOTES ON SPRING OAT VARIETIES

### RECOMMENDED

**BARRA:** A Swedish variety with moderately short and moderately weak straw. 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.
- Seed Availability: 63 %.\*

**CORRIB:** A very high yielding German variety with short and very stiff straw. 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.
- Seed Availability: 14 %.\*

**EVITA:** A high yielding Belgian variety with short and moderately stiff straw. Susceptible to mildew and crown rust. Good grain quality.

- Cross: (Leanda x LP 8047).
- Breeder/Irl Agent: Lochow-Petkus GmbH, Seed Technology Ltd.
- Seed Availability: 12 %.\*

### PROVISIONALLY RECOMMENDED

**HUSKY:** An early maturing very high yielding German variety with short and stiff straw. 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.
- Seed Availability: 7 %.\*

(\* Refers to Certified Oat Seed Availability 2009)

## Recommended Lists on the DAF Website

[www.agriculture.gov.ie](http://www.agriculture.gov.ie)

The Spring Cereal Recommended List 2009 is available on the Department of Agriculture, Fisheries and Food website: [www.agriculture.gov.ie](http://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.**