



Department of Agriculture and Food
An Roinn Talmhaíochta agus Bia

SPRING CEREAL VARIETIES IRISH RECOMMENDED LIST 2006

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 testing 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 2003 – 2005 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, grain protein and kernel content**.

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 2006

| AGRONOMIC & QUALITY CHARACTERISTICS* | RECOMMENDED | | PROVISIONALLY RECOMMENDED | | | |
|--------------------------------------|-------------|-------------|---------------------------|-------------|-------------|-------------|
| | COCKTAIL | TAVERN | DOYEN | FRONTIER | SEBASTIAN | WICKET |
| Relative yield ♦ | 101 | 99 | 101 | 103 | 99 | 105 |
| Relative yield under R.E.P.S. ♣ | 102 | 98 | 101 | 104 | 101 | 105 |
| Shortness of straw | 6 | 7 | 6 | 7 | 7 | (8) |
| Strength of straw | 6 | 7 | 6 | 5 | 6 | (7) |
| Straw breakdown | 6 | 6 | 5 | 5 | 5 | (6) |
| Earliness of ripening | 6 | 5 | 6 | 6 | 6 | (5) |
| Resistance to: | | | | | | |
| Mildew | 6 | 5 | 7 | 5 | 5 | (6) |
| <i>Rhynchosporium</i> | 5 | 6 | 7 | 5 | 4 | (6) |
| Brown Rust | 8 | 9 | 7 | 7 | 8 | (8) |
| Net Blotch + | 6 | 6 | 6 | 7 | 7 | (6) |
| Quality: | | | | | | |
| 1,000 grain wt. (g) | 50.2 | 49.6 | 52.6 | 51.4 | 49.4 | 51.0 |
| Hectolitre wt. (kg/hl) | 69.1 | 68.3 | 68.2 | 67.3 | 67.4 | 67.3 |
| Year First Listed | 2004 | 2002 | 2005 | 2005 | 2005 | 2006 |

* Based on trial results from 2003, 2004 and 2005.

♦/♣ Yields are expressed as a percentage of the mean of **Tavern** and **Cocktail** where
 ♦ (100 = 7.82 t/ha @ 15% moisture content) and ♣ (100 = 7.31 t/ha @ 15% moisture content) under R.E.P.S. trialling.

+ Assessment for Net Blotch (*Drechslera teres*) resistance is based on combined data for the two forms - the net form (*D. teres f. teres*) and the spot form (*D. teres f. maculata*).



NOTES ON VARIETIES

RECOMMENDED:

COCKTAIL: A British variety with very high yield potential. Moderately short and moderately stiff straw and moderately resistant to straw breakdown. Moderately resistant to mildew and net blotch. Very resistant 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: 17%.*

TAVERN: A British variety with high yield potential. Short stiff straw and moderately resistant to straw breakdown. Very resistant to brown rust and moderately susceptible to mildew. Moderately resistant to *Rhynchosporium* and net blotch. In Dept. of Agr. & Food trials Tavern has shown to have an inherent partial sterility trait, the expression of which being dependent on location and year. Late maturing.

- Cross: (NFC 94/20 x NFC 94/4).
- Breeder/Irl Agent: New Farm Crops, Seed Technology Ltd.
- Seed Availability: 13%.*

PROVISIONALLY RECOMMENDED:

DOYEN: 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 brown rust. Moderately resistant to net blotch. Susceptible to yellow rust. Large grain size.

- Cross: (Linden x Colada).
- Breeder/Irl Agent: New Farm Crops, Seed Technology Ltd.
- Seed Availability: 28%.*

FRONTIER: A Danish variety with very high yield potential. Short moderately weak straw and moderately susceptible to straw breakdown. Moderately susceptible to mildew and *Rhynchosporium*. Good resistance to brown rust and net blotch.

- Cross: (Tavern) x [Annabell x (Lux x Ferment)].
- Breeder/Irl Agent: Sejet, Power Seeds Ltd.
- Seed Availability: 17%.*

SEBASTIAN: A Danish variety with very high yield potential. Short moderately stiff straw and moderately susceptible to straw breakdown. Moderately susceptible to mildew. Very resistant to brown rust with good resistance to net blotch. Susceptible to *Rhynchosporium*.

- Cross: (Viskosa x Lux).
- Breeder/Irl Agent: Sejet, Power Seeds Ltd.
- Seed Availability: 10%.*

WICKET: A British variety with very high yield potential. Very short stiff straw and moderately resistant to straw breakdown. Moderately resistant to mildew, *Rhynchosporium* and net blotch with good resistance to brown rust. Late maturing.

- Cross: (Saloon x Tavern).
- Breeder/Irl Agent: New Farm Crops, Seed Technology Ltd.
- Seed Availability: 7%.*

(* Refers to Certified Spring Barley Seed Availability 2006)



SPRING WHEAT 2006

| AGRONOMIC & QUALITY CHARACTERISTICS* | RECOMMENDED | | | PROVISIONALLY RECOMMENDED |
|--------------------------------------|-------------|-----------------------------|-------------|-----------------------------|
| | BALDUS | EQUATION # | RAFFLES | BYRON |
| Relative Yield ♦ | 97 | 106 | 103 | 107 |
| Shortness of straw | 7 | 6 | 6 | 7 |
| Strength of straw | 6 | 7 | 7 | 7 |
| Earliness of ripening | 7 | 3 | 7 | 6 |
| Resistance to: | | | | |
| Mildew | 4 | 4 | 6 | 5 |
| <i>Septoria</i> spp. | 4 | 6 | 5 | 5 |
| Yellow rust | 8 | 8 | 8 | (8) |
| Sprouting | 5 | 5 | 6 | (6) |
| Quality: | | | | |
| Grain protein content (%) | 11.0 | 10.5 | 11.3 | 10.6 |
| Hagberg falling number | 308 | 259 | 325 | 207 |
| Milling quality | Very good | Unsuitable for Bread-making | Good | Unsuitable for Bread-making |
| Bread making quality | Good | | Good | |
| 1000 grain weight (g) | 40.6 | 46.5 | 48.3 | 51.9 |
| Hectolitre weight (kg/hl) | 76.9 | 71.6 | 75.8 | 73.0 |
| Hardness index | Hard | Hard | Hard | Hard |
| Year first listed | 1992 | 2004 | 2000 | 2006 |

* Based on trial results from **2003, 2004** and **2005**.

♦ Yields are expressed as a percentage of the mean of **Baldus** and **Raffles** where (100 = 8.176 t/ha @ 15% moisture content).
Data on grain protein, Hagberg falling number, hardness index, milling and bread-making quality are from results of analyses carried out by Teagasc at the National Food Centre.

See notes on varieties.



NOTES ON VARIETIES

RECOMMENDED:

BALDUS: A Dutch variety with short moderately stiff straw. Susceptible to mildew and *Septoria* spp. and has good resistance to yellow rust. Small grain of very good milling and good bread making quality.

- Cross: Sicco x (N66 x MGH653 x Kolibri).
- Breeder/Irl Agent: Innoseeds *bv*, Power Seeds Ltd.
- Seed Availability: 5%*.

EQUATION[#]: A very high yielding dual winter/spring French variety, suitable for very early spring or late autumn sowing. **Not suitable for late spring sowing as ripening date is considerably later than other listed varieties.** Moderately short stiff straw. Good resistance to yellow rust, susceptible to mildew and moderately resistant to *Septoria* spp. (*although limited data would suggest it may be moderately susceptible to Septoria nodorum*). Equation is a feed variety with low hectolitre weight and is unsuitable for bread-making.

- Cross: Cadenza x Beaver.
- Breeder/Irl Agent: Lemaire Deffontaines, Seed Technology Ltd.
- Seed Availability: 3%*.

RAFFLES: A high yielding British variety with moderately short stiff straw. Moderately susceptible to *Septoria* spp., moderately resistant to 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: 90%*.

PROVISIONALLY RECOMMENDED:

BYRON: A very 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: 2%*.

(* Refers to Certified Spring Wheat Seed Availability 2006)



SPRING OATS 2006

| AGRONOMIC & QUALITY CHARACTERISTICS* | RECOMMENDED | | | |
|--------------------------------------|-------------|-------------|-------------|-------------|
| | BARRA | EVITA | FREDDY | CORRIB |
| Relative Yield ♦ | 94 | 102 | 104 | 103 |
| Shortness of straw | 6 | 8 | 6 | 7 |
| Strength of straw | 6 | 7 | 7 | 8 |
| Earliness of ripening | 5 | 7 | 7 | 7 |
| Resistance to: | | | | |
| Mildew | 3 | 4 | 3 | 3 |
| Crown rust | 5 | 4 | 4 | 5 |
| Quality: | | | | |
| 1000 grain weight (g) | 33.6 | 36.7 | 36.7 | 36.3 |
| Kernel content (%) | 75.7 | 74.3 | 73.4 | 74.4 |
| Hectolitre weight (kg/hl) | 54.1 | 53.4 | 53.2 | 52.8 |
| Year first listed | 1985 | 1999 | 2002 | 2005 |

* Based on trial results from **2003, 2004** and **2005**.

♦ Yields are expressed as a percentage of the mean of **Barra, Evita** and **Freddy** where (100 = 7.108 t/ha @ 15% moisture).



NOTES ON VARIETIES

RECOMMENDED:

BARRA: A Swedish variety with moderately short and moderately stiff straw. Very susceptible to mildew and moderately susceptible to crown rust. Excellent grain quality.

- Cross: (Selma x KM1 MS).
- Breeder/Irl Agent: Svalöf Weibull AB, Goldcrop Ltd.
- Seed Availability: 64%*.

EVITA: A high yielding Belgian variety with very short 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: 7%*.

FREDDY: A very high yielding German variety with moderately short stiff straw. Very susceptible to mildew and susceptible to crown rust. Good hectolitre weight but kernel content is low.

- Cross: (Gramena x 1114/90).
- Breeder/Irl Agent: Nordsaat Saatzucht GmbH, Seed Technology Ltd.
- Seed Availability: 23%*.

CORRIB: A high yielding German variety with short and very stiff straw. Very susceptible to mildew and limited data suggest it is 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: 3%*.

(* Refers to Certified Oat Seed Availability 2006)

Recommended Lists on the DAF Website

www.agriculture.gov.ie

The Spring Cereal Recommended List 2006 is available on the Department of Agriculture and Food website: www.agriculture.gov.ie

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

Important Notice:

The Department of Agriculture 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 and Food cannot, however, accept responsibility for any loss or inconvenience arising from any future variation in absolute or relative varietal performance.