

## WINTER BARLEY 2015

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED				PROVISIONALLY RECOMMENDED
	KWS CASSIA	LEIBNIZ	SAFFRON	VOLUME	KWS TOWER
<b>Relative Yield</b>	<b>99</b>	<b>101</b>	<b>94</b>	<b>109</b>	<b>101</b>
Shortness of Straw	7	4	7	4	(7)
Resistance to Lodging	7	7	8	6	(7)
Straw Breakdown	6	4	7	4	(6)
Earliness of Ripening	6	6	5	6	(6)
<b>Resistance to:</b>					
Mildew	5	6	4	6	(6)
<i>Rhynchosporium</i>	4	7	4	7	(6)
Brown Rust	7	3	7	6	(6)
Net Blotch	7	7	7	7	(6)
<b>Grain quality:</b>					
1000 grain weight (g)	58.5	51.4	57.5	45.2	60.0
Hectolitre weight (kg/hl)	67.3	63.6	67.4	65.4	64.8
<b>Year First Listed</b>	<b>2011</b>	<b>2010</b>	<b>2007</b>	<b>2012</b>	<b>2015</b>

\* Based on trial results from **2012, 2013** and **2014**

◆ Yields are expressed as a percentage of the mean of **Leibniz & KWS Cassia**.  
(100 = 9.5 t/ha @ 15% moisture content)

## NOTES ON VARIETIES

### RECOMMENDED

**KWS CASSIA:** A moderately early maturing British feed variety with high yield potential. Short straw with good resistance to lodging and moderate resistance to straw breakdown. Moderately susceptible to mildew and susceptible to *Rhynchosporium*. Good resistance to brown rust and net blotch. Very good grain quality with a very good hectolitre weight.

- Cross: (Eden x Carat) x Saffron
- Breeder/Agent: KWS UK, Goldcrop Ltd

**LEIBNIZ:** A moderately early maturing six-row German feed variety with high yield potential. Long straw with good resistance to lodging and susceptible to straw breakdown. Moderately resistant to mildew with good resistance to *Rhynchosporium* and net blotch. Very susceptible to brown rust. Moderate grain quality with a reasonable hectolitre weight (grain quality of six-row are generally inferior to two-row varieties).

- Cross: LP 6-936 X BCym 5
- Breeder/Agent: KWS Lochow, Seed Technology Ltd.

**SAFFRON:** A moderately late maturing British feed variety. Short straw with very good resistance to lodging and good resistance to straw breakdown. Susceptible to mildew and *Rhynchosporium*. Good resistance to brown rust and net blotch. Very good grain quality.

- Cross: Antigua x Tabatha.
- Breeder/Agent: C.P.B. Twyford Ltd, Goldcrop Ltd.

**VOLUME:** A moderately early maturing **hybrid** six-row British feed variety with very high yield potential. Long straw with moderate resistance to lodging. Susceptible to straw breakdown. Moderately resistant to mildew and brown rust. Good resistance to *Rhynchosporium* and net blotch. Small grain size with a good hectolitre weight (grain quality of six-row are generally inferior to two-row varieties).

- Cross: F1 Hybrid
- Breeder/Agent: Syngenta Seeds Ltd, Seed Technology Ltd.

## **PROVISIONALLY RECOMMENDED**

**KWS TOWER:** A moderately early maturing British feed variety with high yield potential. Short straw with good resistance to lodging and moderate resistance to straw breakdown. Moderately resistant to mildew, *Rhynchosporium*, brown rust and net blotch. Large grain size with good grain quality.

- Cross: Saffron X Retriever
- Breeder/Agent: KWS UK, Goldcrop Ltd

## WINTER WHEAT 2015

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED							PROVISIONALLY RECOMMENDED	
	AVATAR	CORDIALE	DUNMORE	EINSTEIN	JB DIEGO	KWS LUMOS	SY EPSON	LEEDS	WEAVER
<b>Relative Yield ♦</b>	<b>106</b>	<b>98</b>	<b>101</b>	<b>99</b>	<b>103</b>	<b>102</b>	<b>101</b>	<b>103</b>	<b>106</b>
Shortness of straw	5	8	5	7	6	7	6	(6)	(5)
Resistance to lodging	7	8	5	7	6	8	8	(8)	(5)
Straw breakdown	7	6	7	8	7	7	7	(7)	(6)
Earliness of ripening	5	8	5	7	6	7	6	(5)	(6)
<b>Resistance to:</b>									
Mildew	5	6	6	6	6	8	7	(3)	(6)
Septoria spp.	5	4	6	4	5	5	7	(4)	(5)
Yellow rust	7	7	6	7	7	8	7	(7)	(7)
Fusarium ear blight	6	6	6	6	6	5	6	(6)	(5)
Sprouting	5	7	6	7	7	7	5	(5)	(6)
<b>Quality:</b>									
Grain Protein % (15%MC)	10.3	11.4	10.4	11.2	10.8	10.7	11.1	10.0	9.8
Hagberg Falling No.♠	-	315	-	249	-	258	294	193	271
Bread-making quality	-	Good	-	Mod	-	-	-	-	-
1000 grain weight (g)	45.2	42.7	42.6	47.3	47.1	41.8	44.9	41.6	46.9
Hectolitre weight (kg/hl)	72.9	74.2	71.3	72.7	73.2	73.8	72.6	71.9	72.0
Market +	F	Br	F	Br	F	F	F	F	F
<b>Year First Listed</b>	<b>2013</b>	<b>2006</b>	<b>2014</b>	<b>2004</b>	<b>2010</b>	<b>2014</b>	<b>2013</b>	<b>2015</b>	<b>2015</b>

\* Based on trial results from **2012, 2013** and **2014**.

♦ Yields are expressed as a percentage of the mean **Einstein, Cordiale & JB Diego** (100 = 10.1 t/ha @ 15% moisture content).

♠ Based on milling results from **2013** harvest.

+ **Br** - Bread-making potential. **Bi** - Biscuit making potential. **F** - Feed quality.

## NOTES ON WINTER WHEAT VARIETIES

### RECOMMENDED

**AVATAR:** A very high yielding British variety with a moderately long straw and good resistance to lodging and straw breakdown. Moderately late maturing. Moderately susceptible to mildew and *Septoria tritici*. Moderately susceptible to sprouting. Grain of feed quality with good hectolitre weight.

- Parentage: Istabraq x Lion
- Breeder/Irl. Agent: Limagrain UK, Goldcrop Ltd.

**CORDIALE:** A British variety with very short straw and very good resistance to lodging. Moderately resistant to straw breakdown. Moderately resistant to mildew and susceptible to *Septoria tritici*. Early maturing variety with good resistance to sprouting. Grain of good bread-making quality suitable for all applications. High hectolitre weight and Hagberg Falling Number.

- Parentage: (Reaper x Cadenza) x Malacca
- Breeder/Irl. Agent: C.P.B. Twyford Ltd., Goldcrop Ltd.

**DUNMORE:** A British bred variety with moderately long straw, moderate susceptibility to lodging and good resistance to straw breakdown. Moderately late maturing. Moderate resistance to *Septoria tritici*, mildew, yellow rust and fusarium. Moderate resistance to sprouting. Grain of feed quality with a relatively good hectolitre weight.

- Parentage: Lion x Alchemy
- Breeder/Irl. Agent: Limagrain, UK, Seed Technology Ltd.

**EINSTEIN:** A British variety with moderately short straw and good resistance to lodging. Very resistant to straw breakdown. Moderately resistant to mildew and fusarium. Susceptible to *Septoria tritici*. Good resistance to yellow rust and sprouting. Grain of moderate bread-making quality suitable for selected applications only. High thousand grain weight and good hectolitre weight.

- Parentage: (NSL WW 91/1670 x NSL WW 90/1282).
- Breeder/Irl. Agent: Nickerson, Seed Technology Ltd.

**JB DIEGO:** A German variety with moderately short straw, moderate resistance to lodging and good resistance to straw breakdown. Moderately resistant to mildew and fusarium. Moderately susceptible to *Septoria tritici*. Good resistance to sprouting. Grain of feed quality with high thousand grain weight and good hectolitre weight.

- Parentage: 3351b1 x Stru2374
- Breeder/Irl. Agent: Breun, Germinal Seeds.

**KWS LUMOS:** A British bred variety with moderately short straw, very good resistance to lodging and good resistance to straw breakdown. Good resistance to mildew and yellow rust with moderate susceptibility to fusarium and *Septoria tritici*. Good resistance to sprouting. Very good grain quality, with a low thousand grain weight and a very good hectolitre weight.

- Parentage: Cordiale x Dover
- Breeder/Irl. Agent: KWS UK, Goldcrop Ltd.

**SY EPSON:** A high yielding British variety with moderately short straw, very good resistance to lodging and good resistance to straw breakdown. Good resistance to mildew, yellow rust and *Septoria tritici*. Grain of feed quality with a good hectolitre weight. Moderately susceptible to sprouting.

- Parentage: Zebedee x Robigus
- Breeder/Irl. Agent: Syngenta UK, Seed Technology Ltd.

## **PROVISIONALLY RECOMMENDED**

**LEEDS:** A French variety with moderately short straw, very good resistance to lodging and good resistance to straw breakdown. Very susceptible to mildew and susceptible to *Septoria tritici*. Good resistance to yellow rust and moderate resistance to fusarium. Late maturing variety with moderate susceptibility to sprouting.

- Parentage: Istabraq x Robigus
- Breeder/Irl. Agent: Momont, Seed Technology Ltd.

**WEAVER:** A British bred variety with moderately long straw, moderate susceptibility to lodging and moderate resistance to straw breakdown. Moderate susceptibility to *Septoria tritici* and fusarium. Moderate resistance to mildew and good resistance to yellow rust. Moderately susceptible to sprouting. Grain of feed quality with a relatively good hectolitre weight.

- Parentage: Welford x (Consort x Claire)
- Breeder/Irl. Agent: Elsom seeds, UK, Germinal Seeds.

## WINTER OATS 2015

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED		PROVISIONALLY RECOMMENDED
	BARRA	HUSKY	VODKA
<b>Relative Yield ♦</b>	<b>94</b>	<b>106</b>	<b>100</b>
Shortness of straw	6	7	(8)
Resistance to lodging	4	7	(6)
Straw breakdown	4	5	(7)
Earliness of ripening	5	8	(4)
Winter hardiness**	3	5	(7)
<b>Resistance to:</b>			
Mildew	3	6	(6)
Crown rust	4	4	(6)
<b>Grain quality:</b>			
Kernel content (%)	68.2	68.9	65.9
1000 grain weight (g)	37.9	37.7	38.1
Hectolitre weight (kg/hl)	56.2	55.9	53.3
<b>Year First Listed</b>	<b>1986</b>	<b>2010</b>	<b>2015</b>

\* Based on trial results from 2012, 2013 and 2014.

♦ Yields are expressed as a percentage of the mean of **Barra** and **Husky** (100 = 8.3 t/ha @ 15% moisture content).

\*\* Vodka is the only true winter variety on the recommended list. Barra & Husky are spring varieties trialled in winter. Prolonged severe frost or harsh winds can seriously damage spring varieties sown in winter and may cause drastic reduction in yield or even crop failure. Winter hardiness scores for Barra & Husky are based on robust data from Spring 2011.

## NOTES ON WINTER OAT VARIETIES

### RECOMMENDED

**BARRA:** A moderate yielding Swedish variety. Moderately late maturing. Susceptible to lodging and straw breakdown. A spring type variety with very good grain quality. Very susceptible to mildew and susceptible to crown rust.

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

**HUSKY:** An early maturing German variety with high yield potential. Short straw with good resistance to lodging and moderate susceptibility to straw breakdown. A spring type variety with very good grain quality. Moderately resistant to mildew and susceptible to crown rust.

- Parentage: (CPBT SOI x Freddy)
- Breeder/Agent: Nordsaat, Seed Technology Ltd.

### PROVISIONALLY RECOMMENDED

**VODKA:** A late maturing French variety with good yield potential. Short straw with moderate resistance to lodging and good resistance to straw breakdown. A true winter variety with good grain quality. Moderately resistant to mildew and crown rust.

- Parentage: (MHAC 2.3 X MH822)
- Breeder/Agent: Momont, Seed Technology Ltd.