



# Winter Barley, Winter Wheat & Winter Oats Recommended Lists 2021



CROP POLICY, EVALUATION AND CERTIFICATION DIVISION

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## WINTER BARLEY 2021

AGRONOMIC & QUALITY CHARACTERISTICS *	RECOMMENDED						PROVISIONALLY RECOMMENDED	
	BAZOOKA	BELFRY	KWS CASSIA	KWS INFINITY	KWS KOSMOS	PIXEL	LG CASTING	VALERIE
Relative Yield ♠	107	109	95	97	106	105	100	99
Varietal Type	6R(H)	6R(H)	2R	2R	6R	6R	2R	2R
Straw Height (cm)	100.0	91.0	83.5	80.5	90.1	86.3	79.1	79.6
Resistance to Lodging	6	7	7	7	6	7	(5)	(6)
Straw Breakdown	5	6	6	6	4	4	(5)	(6)
Earliness of Ripening	7	7	6	6	7	8	(7)	(8)
<b>Resistance to:</b>								
Mildew	6	6	5	5	8	7	(8)	(7)
<i>Rhynchosporium</i>	8	8	4	7	7	4	(5)	(7)
Brown Rust	6	7	7	6	7	7	(7)	(7)
Net Blotch	7	7	7	7	7	6	(7)	(7)
<b>Grain quality:</b>								
Screenings % (<2.2mm)	3.2	2.8	2.2	2.5	2.0	2.0	2.5	1.2
1000 grain weight (g)	46.8	46.5	53.3	54.4	49.5	46.8	52.4	58.4
Hectolitre weight (kg/hl)	68.2	67.8	69.8	67.6	66.5	66.7	68.4	69.6
Year First Listed	2019	2019	2011	2016	2018	2019	2020	2020

\* Based on trial results from **2018, 2019** and **2020**.

♠ Yields are expressed as a percentage of the mean of **KWS Cassia, KWS Infinity** and **Belfry** (100 = 9.68t/ha @ 15% moisture content).

( ) Limited Data.



## NOTES ON VARIETIES

### RECOMMENDED

#### BAZOOKA:

An early maturing hybrid six-row variety with very high yield potential. Very long straw with moderate resistance to lodging. Moderately susceptible to straw breakdown. Very good resistance to *Rhynchosporium*. Moderate resistance to brown rust and mildew. Good resistance to net blotch. Small grain size with a good hectolitre weight.

- Cross: F1 Hybrid
- Breeder/Agent: Syngenta (UK), Seed Technology Ltd.

#### BELFRY:

An early maturing hybrid six-row variety with very high yield potential. Long straw with good resistance to lodging and moderate resistance to straw breakdown. Very good resistance to *Rhynchosporium*. Moderate resistance to mildew. Good resistance to brown rust and net blotch. Small grain size with a good hectolitre weight.

- Cross: F1 Hybrid
- Breeder/Agent: Syngenta (UK), Seed Technology Ltd.

#### KWS CASSIA:

A moderately early maturing two-row variety. 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.

#### KWS INFINITY:

A moderately early maturing two-row variety. Short straw with good resistance to lodging and moderate resistance to straw breakdown. Moderately susceptible to mildew. Good resistance to *Rhynchosporium* and net blotch. Moderate resistance to brown rust. Large grain size with good grain quality.

- Cross: KWS Cassia X Retriever
- Breeder/Agent: KWS (UK), Goldcrop Ltd.

#### KWS KOSMOS:

An early maturing six-row conventional variety with very high yield potential. Long straw with moderate resistance to lodging. Susceptible to straw breakdown. Very good resistance to mildew. Good resistance to brown rust, net blotch and *Rhynchosporium*. Reasonable hectolitre weight.

- Cross: G1530/06 X KWS Meridian
- Breeder/Agent: KWS Lochow (DE), Seed Technology Ltd.



**PIXEL:**

A very early maturing conventional six-row variety with very high yield potential. Moderately short straw with good resistance to lodging. Susceptible to straw breakdown. Susceptible to *Rhynchosporium*. Good resistance to mildew and brown rust. Moderate resistance to net blotch. Small grain size with a good hectolitre weight.

- Cross: Etincel x (Henriette x Limpid)
- Breeder/Agent: Secobra (FR), Goldcrop Ltd.

**PROVISIONALLY RECOMMENDED**

**LG CASTING:**

An early maturing two-row variety with high yield potential. Short straw and moderately susceptible to lodging and straw breakdown. Moderately susceptible to *Rhynchosporium*. Good resistance to brown rust and net blotch. Very good resistance to mildew. Good hectolitre weight.

- Cross: California x NSL07-6654-D
- Breeder/Agent: Limagrain (UK), Seed Technology Ltd.

**VALERIE:**

A very early maturing two row-variety. Short straw with moderate resistance to lodging and straw breakdown. Good resistance to brown rust, mildew, net blotch and *Rhynchosporium*. Very good grain quality with a large grain size and a very good hectolitre weight.

- Cross: 207-589 x Sandra
- Breeder/Agent: Breun (DE), Goldcrop Ltd.



## WINTER WHEAT 2021

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED					PROVISIONALLY RECOMMENDED
	COSTELLO	GRAHAM	JB DIEGO	KWS CONROS	TORP	SY INSITOR
<b>Relative Yield ♦</b>	<b>97</b>	<b>103</b>	<b>97</b>	<b>98</b>	<b>100</b>	<b>102</b>
Straw Height (cm)	67.6	74.7	75.1	74.6	75.6	75.5
Resistance to lodging	8	7	6	8	7	(7)
Straw breakdown	7	5	7	8	6	(6)
Earliness of ripening	6	7	6	5	5	(6)
<b>Resistance to:</b>						
Mildew	8	8	6	8	5	(7)
Septoria spp.	5	6	4	5	7	(5)
Yellow rust	8	7	4	8	4	(7)
Fusarium ear blight	7	5	6	4	4	(6)
Sprouting	8	6	7	7	6	(4)
<b>Quality:</b>						
Grain Protein % (15%MC)	10.7	10.5	10.6	10.5	10.2	10.1
Hagberg Falling No.♠	388	310	368	323	294	311
1000 grain weight (g)	47.3	48.6	47.9	44.0	46.6	45.7
Hectolitre weight (kg/hl)	77.5	74.5	75.1	75.8	72.4	74.8
Market +	F	F	F	F	F	F
<b>Year First Listed</b>	<b>2017</b>	<b>2020</b>	<b>2010</b>	<b>2019</b>	<b>2018</b>	<b>2021</b>

\*Based on results from **2018, 2019** and **2020**.

♦ Yields are expressed as a percentage of the mean **JB Diego and Graham** (100 = 11.01t/ha @ 15% moisture content).

♠ Based on results from harvests 2018 and 2019.

+ F - Feed quality.

() Limited Data.



## NOTES ON VARIETIES

### RECOMMENDED

**COSTELLO:** A moderately early maturing variety with very good resistance to lodging and good resistance to straw breakdown. Very good resistance to mildew and yellow rust, good resistance to fusarium ear blight and moderately susceptible to *Septoria tritici*. Very good resistance to sprouting. Very good hectolitre weight.

- Parentage: CPBTW151 X CPBT W134
- Breeder/Agent: KWS (UK), Goldcrop Ltd.

**GRAHAM:** A very high yielding early maturing variety with good resistance to lodging and moderate susceptibility to straw breakdown. Very good resistance to mildew. Moderate resistance to *Septoria tritici*. Good resistance to yellow rust. Moderately susceptible to fusarium ear blight. Moderately resistant to sprouting. Good hectolitre weight.

- Parentage: Premio x Expert
- Breeder/Agent: Syngenta (UK), Seed Technology Ltd.

**JB DIEGO:** A moderately early maturing variety with moderate resistance to lodging and good resistance to straw breakdown. Moderately resistant to mildew and fusarium ear blight. Susceptible to *Septoria tritici* and yellow rust. Good resistance to sprouting. Good grain quality with a good hectolitre weight.

- Parentage: 3351b1 X Stru2374
- Breeder/Agent: Breun (DE), Germinal Ireland.

**KWS CONROS:** A moderately late maturing variety with very good resistance to lodging and straw breakdown. Very good resistance to mildew and yellow rust and moderately susceptible to *Septoria tritici*. Good resistance to sprouting and susceptible to fusarium ear blight. Low thousand grain weight with a good hectolitre weight.

- Parentage: Skalmeje X CPBT W134
- Breeder/Agent: KWS (UK), Goldcrop Ltd.

**TORP:** A high yielding, moderately late maturing variety. Good resistance to lodging and moderate resistance to straw breakdown. Good resistance to *Septoria tritici*. Moderately susceptible to mildew. Susceptible to fusarium ear blight and yellow rust. Moderately resistant to sprouting. Moderate grain quality with a low hectolitre weight.

- Parentage: Ambition X Symbol
- Breeder/Agent: Nordic Seeds (DK), Drummonds Ltd.



### PROVISIONALLY RECOMMENDED

#### SY INSITOR:

A very high yielding moderately early maturing variety with good resistance to lodging and moderately resistant to straw breakdown. Good resistance to mildew. Moderately susceptible to *Septoria tritici*. Good resistance to yellow rust. Moderately resistant to fusarium ear blight. Susceptible to sprouting. Good hectolitre weight.

- Parentage: Hereford x AB111-1011
- Breeder/Agent: Syngenta (UK), Seed Technology Ltd.





AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED					
	BARRA	DELFIN	HUSKY	KEELY	RGT SOUTHWARK	WPB ISABEL
Relative Yield ♦	95	111	105	104	106	104
Straw height (cm)	107.1	102.1	103.9	105.2	104.5	105.2
Resistance to lodging	4	(7)	7	5	(4)	(7)
Straw breakdown	4	5	5	4	4	7
Earliness of ripening	5	6	8	8	4	5
Winter hardiness**	3	-	5	-	W	-
<b>Resistance to:</b>						
Mildew	3	8	5	5	4	5
Crown rust	4	4	4	4	8	6
<b>Grain quality:</b>						
Kernel content (%)	75.6	73.6	75.9	75.7	75.2	76.5
1000 grain weight (g)	36.2	43.7	37.5	37.1	37.5	39.8
Hectolitre weight (kg/hl)	57.3	55.6	57.2	57.5	55.8	58.4
<b>Year First Listed</b>	<b>1986</b>	<b>2019</b>	<b>2010</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>

\* Based on trial results from **2018, 2019** and **2020**.

♦ Yields are expressed as a percentage of the mean of **Barra** and **Husky** (100 = 7.96t/ha @ 15% moisture content).

- No data.

( ) Limited Data.

W True winter variety.

\*\* Winter hardiness scores for Barra and Husky are based on robust data from Spring 2011.

**All varieties other than RGT Southwark are Spring type varieties sown 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.**





## NOTES ON VARIETIES

### RECOMMENDED

**BARRA:** A moderately late maturing, spring type variety that is moderate yielding. Susceptible to lodging and straw breakdown. Very good grain quality. Very susceptible to mildew and susceptible to crown rust.

- Parentage: Selma X KM1 MS
- Breeder/Agent: SW Seeds AB (SE), Goldcrop Ltd.

**DELFIN:** A very high yielding, moderately early maturing, spring type, yellow husked variety. Good resistance to lodging and moderate resistance to straw breakdown. Good grain quality. Very good resistance to mildew and susceptible to crown rust.

- Parentage: 07/107 X Canyon
- Breeder/Agent: Nordsaat (DE), Seed Technology Ltd.

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

- Parentage: Firth X Freddy
- Breeder/Agent: Nordsaat (DE), Seed Technology Ltd.

**KEELY:** An early maturing, spring type variety with high yield potential. Short straw with moderate susceptibility to lodging and susceptibility straw breakdown. Very good grain quality. Moderately susceptible to mildew and susceptible to crown rust.

- Parentage: 06/114 X Scorpion
- Breeder/Agent: Nordsaat (DE), Goldcrop Ltd.

**RGT SOUTHWARK:** A late maturing **winter type** variety, with high yield potential. Susceptible to lodging and straw breakdown. Good grain quality. Very good resistance to crown rust and susceptible to mildew.

- Parentage: (932536 X 24062) X 24082
- Breeder/Agent: RAGT (UK), Goldcrop Ltd.



**WPB ISABEL:** A high yielding, moderately late maturing, spring type variety. Good resistance to lodging and straw breakdown. Moderately susceptible to mildew. Moderately resistant to crown rust. Very good grain quality with a very good hectolitre weight.

- Parentage: LW 03E038-06 X Husky
- Breeder/Agent: Wiersum (NL), Goldcrop Ltd.