

SPRING BARLEY 2014

AGRONOMIC & QUALITY CHARACTERISTICS*	RECOMMENDED						PROVISIONALLY RECOMMENDED		
	CROPTON	FRONTIER	QUENCH	PROPINO	SY TABERNA	MICKLE	KWS IRINA	SANETTE	SOLDO
Relative yield ♦	99	97	100	100	100	102	104	104	101
Shortness of straw	5	7	6	5	5	6	(6)	(6)	(6)
Resistance to lodging	6	5	6	5	7	7	(7)	(7)	(5)
Straw breakdown	5	5	5	5	5	6	(6)	(5)	(5)
Earliness of ripening	6	7	6	6	5	7	(6)	(5)	(7)
Resistance to:									
Mildew	7	5	7	6	7	5	(8)	(8)	(8)
<i>Rhynchosporium</i>	5	5	7	6	7	7	(7)	(7)	(6)
Brown Rust	6	6	4	5	6	5	(6)	(5)	(7)
Net Blotch	6	7	7	6	7	6	(8)	(8)	(7)
Quality:									
1,000 grain wt. (g)	47.5	47.4	45.8	50.2	48.0	46.7	46.0	47.0	49.8
Hectolitre wt. (kg/hl)	66.5	64.7	65.7	65.9	67.0	65.8	63.3	64.4	66.1
Screenings% (<2.2 mm)	2.7	3.7	3.9	1.8	2.9	3.3	3.9	3.6	3.1
Year First Listed	2010	2005	2007	2011	2012	2013	2014	2014	2014

* Based on trial results from **2011, 2012 and 2013**.

♦ Yields are expressed as a percentage of the mean of **Quench and Propino** (100 = 7.84 t/ha @ 15% moisture content)

NOTES ON SPRING BARLEY VARIETIES

RECOMMENDED

- CROPTON:** A British variety with 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.
- FRONTIER:** A Danish variety with short straw. Moderately susceptible to lodging, straw breakdown, 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.
- 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.
- PROPINO:** A British variety with high yield potential. Moderately tall straw with moderate susceptibility to lodging and straw breakdown. Moderately resistant 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.
- SY TABERNA:** A British variety with high yield potential. Moderately tall straw with good resistance to lodging and moderate susceptibility to straw breakdown. Good resistance to mildew, *Rhynchosporium* and net blotch and moderate resistance to brown rust.
- Cross: (Quench x Taphouse)
 - Breeder/Irl Agent: Syngenta Seeds Ltd, Seed Technology Ltd.
- MICKLE:** A British variety with very high yield potential. Moderately short straw with good resistance to lodging and moderate resistance to straw breakdown. Moderately susceptible to mildew and brown rust, good resistance to *Rhynchosporium* and moderate resistance to net blotch.
- Cross: (Propino x Snakebite)
 - Breeder/Irl Agent: Syngenta Seeds Ltd, Seed Technology Ltd.

PROVISIONALLY RECOMMENDED

KWS IRINA: A German variety with very high yield potential. Moderately short straw with good resistance to lodging and moderate resistance to straw breakdown. Very good resistance to mildew and net blotch, moderate resistance to brown rust, and good resistance to *Rhynchosporium*.

- Cross: (Conchita x Quench)
- Breeder/Irl Agent: KWS Lochow GMBH, Seed Technology Ltd.

SANETTE: A British variety with very high yield potential. Moderately short straw with good resistance to lodging and moderate susceptibility to straw breakdown. Very good resistance to mildew and net blotch, good resistance to *Rhynchosporium* and moderate susceptibility to brown rust.

- Cross: (Sumit x Yard)
- Breeder/Irl Agent: Syngenta Seeds Ltd, Seed Technology Ltd.

SOLDO: An early maturing German variety with high yield potential. Moderately short straw with moderate susceptibility to lodging and straw breakdown. Very good resistance to mildew and good resistance to net blotch and brown rust, with moderate resistance to *Rhynchosporium*. Large grain size.

- Cross: [(NFC Tipple x Braemar) x NFC 401-17].
- Breeder/Irl Agent: Nordsaat, Goldcrop Ltd.

MALTING BARLEY VARIETY INFORMATION 2014

AGRONOMIC & QUALITY CHARACTERISTICS	MALTING BARLEY VARIETIES IN TRIAL					
	AZALEA	PROPINO	QUENCH	SEBASTIAN	OVERTURE	SY TABERNA
Relative yield ♦	95*	100*	100*	96*	97**	100**
Shortness of straw	7	5	6	7	(5)	5
Resistance to lodging	8	5	6	5	(5)	7
Straw breakdown	6	5	5	5	(5)	5
Earliness of ripening	8	6	6	5	(6)	5
Resistance to:						
Mildew	8	6	7	4	(8)	7
<i>Rhynchosporium</i>	8	6	7	5	(6)	7
Brown Rust	7	5	4	5	(6)	6
Net Blotch	3	6	7	7	(7)	7
Quality:						
1,000 grain wt. (g)	48.1	50.4	45.9	46.0	44.4	45.7
Hectolitre wt. (kg/hl)	69.7	67.3	67.1	67.8	65.2	67.3
Screenings% (<2.2 mm)	2.1	1.5	2.9	2.2	3.4	2.9
Years in malting trial	3	3	3	3	2	2

* Based on specific Malting Barley trial results from **2011, 2012 and 2013.**

** Based on specific Malting Barley trial results from **2012 and 2013.**

♦ Yields are expressed as a percentage of the mean of **Quench and Propino** (100 = 8.4 t/ha @ 15% moisture content)

ADDITIONAL INFORMATION ON VARIETIES SUITABLE FOR MALTING

As malting and brewing in Ireland is grown under contract, the industry determines the varieties to be grown. Choice of varieties is based on results of malting and brewing tests on varieties included in DAFM trials.

Azalea, Sebastian, Propino, Overture and SY Taberna were accepted malting varieties in 2013. KWS Irina is on the Spring Barley Recommended List, has one year completed in DAFM malting trials and has promising malting potential.

Descriptive notes on varieties in the Malting Barley trial but not on the 2014 Spring Barley Recommended List:

AZALEA: An early maturing French variety with short straw and very good resistance to lodging. Moderate resistance to straw breakdown. Very good resistance to mildew and *Rhynchosporium*, good resistance to brown rust but very susceptible to net blotch. Excellent grain quality.

- Cross: (Prestige x Saloon)
- Breeder/Irl Agent: Secobra, Goldcrop Ltd.

SEBASTIAN: A Danish variety with short straw and moderate susceptibility to lodging and straw breakdown. Susceptible to mildew and moderately susceptible to *Rhynchosporium* and brown rust. Good resistance to net blotch.

- Cross: (Viskosa x Lux)
- Breeder/Irl Agent: Sejet, Goldcrop Ltd.

OVERTURE: A British variety, and the highest yielding non – GN variety in the malting trial. Moderately tall straw, moderately susceptible to lodging and straw breakdown. Very good resistance to mildew, good resistance to net blotch and moderate resistance to *Rhynchosporium* and brown rust. Small grain size.

- Cross: (Concerto x Quench)
- Breeder/Irl Agent: Limagrain, Seed Technology Ltd.

*For variety descriptions of Propino, SY Taberna and KWS Irina see Spring Barley Recommended List 2014 under notes on Spring Barley Varieties. (Note that Quench is used as a control variety in malting barley trial so as to correlate with RL trials).