

## SPRING BARLEY 2016

| AGRONOMIC & QUALITY CHARACTERISTICS* | RECOMMENDED |             |             |             |             |             | PROVISIONALLY RECOMMENDED |             |
|--------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------|-------------|
|                                      | FRONTIER    | KWS IRINA   | MICKLE      | PROPINO     | SANETTE     | SY TABERNA  | PAUSTIAN                  | SOLDO       |
| <b>Relative yield ♦</b>              | <b>97</b>   | <b>102</b>  | <b>101</b>  | <b>99</b>   | <b>101</b>  | <b>99</b>   | <b>99</b>                 | <b>98</b>   |
| Straw height                         | 62.1        | 67.5        | 65.0        | 75.4        | 68.0        | 76.2        | 70.8                      | 69.3        |
| Resistance to lodging                | 5           | 7           | 7           | 5           | 7           | 7           | 6                         | 6           |
| Straw breakdown                      | 5           | 7           | 6           | 5           | 5           | 5           | 6                         | 5           |
| Earliness of ripening                | 7           | 6           | 7           | 6           | 5           | 5           | 5                         | 7           |
| <b>Resistance to:</b>                |             |             |             |             |             |             |                           |             |
| Mildew                               | 4           | 8           | 5           | 6           | 8           | 7           | 8                         | 8           |
| <i>Rhynchosporium</i>                | 5           | 6           | 7           | 6           | 7           | 7           | 7                         | 6           |
| Brown Rust                           | 6           | 6           | 5           | 5           | 5           | 6           | 7                         | 7           |
| Net Blotch                           | 7           | 8           | 7           | 5           | 7           | 6           | 6                         | 7           |
| <b>Quality:</b>                      |             |             |             |             |             |             |                           |             |
| 1,000 grain wt. (g)                  | 50.7        | 49.9        | 49.8        | 52.3        | 50.4        | 50.2        | 50.0                      | 53.3        |
| Hectolitre wt. (kg/hl)               | 66.6        | 64.3        | 67.2        | 66.7        | 65.9        | 68.0        | 66.7                      | 66.9        |
| Screenings% (<2.2 mm)                | 3.3         | 3.5         | 2.6         | 1.7         | 2.9         | 2.7         | 2.7                       | 2.8         |
| <b>Year First Listed</b>             | <b>2005</b> | <b>2014</b> | <b>2013</b> | <b>2011</b> | <b>2014</b> | <b>2012</b> | <b>2015</b>               | <b>2014</b> |

\* Based on trial results from **2013, 2014 and 2015**.

♦ Yields are expressed as a percentage of the mean of **Propino and Mickle** (100 = 8.5 t/ha @ 15% moisture content)

## NOTES ON SPRING BARLEY VARIETIES

### RECOMMENDED

**FRONTIER:** A Danish variety with short straw. Moderately susceptible to lodging and straw breakdown, susceptible to mildew and moderately susceptible to *Rhynchosporium*. Moderately resistant to brown rust and good resistance to net blotch.

- Cross: (Tavern) x [Annabell x (Lux x Ferment)]
- Breeder/Irl Agent: Sejet, Goldcrop Ltd.

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

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

**MICKLE:** A British variety with very high yield potential. 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 net blotch.

- Cross: (Propino x Snakebite)
- 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 and *Rhynchosporium*. Moderately susceptible to brown rust and net blotch. Large grain size.

- Cross: (Quench x NFC Tipple)
- Breeder/Irl Agent: Syngenta Seeds Ltd, 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, good resistance to net blotch and *Rhynchosporium* and moderate susceptibility to brown rust.

- Cross: (Sumit x Yard)
- 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 and *Rhynchosporium* and moderate resistance to brown rust and net blotch. Consistently has the best KPH on the RL.

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

## **PROVISIONALLY RECOMMENDED**

**PAUSTIAN:** A Danish variety with high yield potential. Moderately short straw with moderate resistance to lodging and straw breakdown. Very good resistance to mildew and good resistance to *Rhynchosporium* and brown rust. Moderate resistance to net blotch.

- Cross: (Zeppelin x Propino).
- Breeder/Irl Agent: Sejet, Goldcrop Ltd.

**SOLDO:** An early maturing German variety with high yield potential. Moderately short straw with moderate resistance to lodging and moderate susceptibility to 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 2016

| AGRONOMIC & QUALITY CHARACTERISTICS | MALTING BARLEY VARIETIES |            |           |            |
|-------------------------------------|--------------------------|------------|-----------|------------|
|                                     | PROPINO                  | SY TABERNA | OVERTURE  | KWS IRINA  |
| <b>Relative yield ♦</b>             | <b>98</b>                | <b>98</b>  | <b>94</b> | <b>102</b> |
| Straw Height                        | 77.5                     | 81.4       | 73.7      | 69.9       |
| Resistance to lodging               | 5                        | 7          | 5         | 7          |
| Straw breakdown                     | 5                        | 5          | 5         | 7          |
| Earliness of ripening               | 6                        | 5          | 6         | 6          |
| <b>Resistance to:</b>               |                          |            |           |            |
| Mildew                              | 6                        | 7          | 8         | 8          |
| <i>Rhynchosporium</i>               | 6                        | 7          | 6         | 6          |
| Brown Rust                          | 5                        | 6          | 6         | 6          |
| Net Blotch                          | 5                        | 6          | 7         | 8          |
| <b>Quality:</b>                     |                          |            |           |            |
| 1,000 grain wt. (g)                 | 52.1                     | 49.5       | 48.2      | 49.7       |
| Hectolitre wt. (kg/hl)              | 67.6                     | 69.2       | 66.9      | 64.9       |
| Screenings% (<2.2 mm)               | 1.2                      | 1.8        | 2.3       | 2.3        |
| <b>Years in malting trial</b>       | <b>5</b>                 | <b>5</b>   | <b>4</b>  | <b>3</b>   |

- ♦ Based on specific Malting Barley trial results from **2013, 2014 and 2015**.  
Yields are expressed as a percentage of the mean of **Propino and Micke**  
(100 = 8.6 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.

Propino, Overture, SY Taberna and KWS Irina are accepted malting varieties for **2016**. However other varieties such as Olympus and Sienna may be available for growing under mating barley contract in 2016. (Both Olympus and Sienna have completed one year in the DAFM Malting Barley Trial). Mickle is a control variety across all DAFM spring barley trials.

### **Descriptive notes on varieties in the Malting Barley trial but not on the 2016 Spring Barley Recommended List:**

- 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 2016 under notes on Spring Barley Varieties. (Note that Mickle is used as a control variety in malting barley trial so as to correlate with RL trials).