

Spring Cereal Seed Rate Calculator 2015

Goldcrop Recommended Seed Rates Based on TGW



Recently released trial results from Teagasc further confirm that a spring barley plant population of approx. 300 plants/m² is required to achieve maximum yield. Such a plant population should in turn produce a canopy of 1000-1100 shoots/m².

In order to calculate the correct seed rate, one will need to know both the TGW (thousand grain weight) and expected Field Establishment rate.

The seed rate per Hectare using a known TGW for a seed batch* is calculated as follows

$$\text{kg of Seed per ha} = \frac{(\text{TGW}) \times (\text{target plant population} / \text{m}^2)}{\% \text{ Establishment}}$$

* Where a specific TGW figure is not available for a seed batch, it is recommended to use the figures quoted in the 2015 Irish Recommended List as shown below

SPRING BARLEY 2015

Targeting 310 established plants/m² (1000-1100 shoots/m²)

Variety	TGW RL 2015	Good conditions 85% Establishment		Fair conditions 80% Establishment	
		kg/ha	Stone/ac	kg/ha	Stone/ac
Crooner*	45.1	164	10.4	175	11.1
Frontier	48.0	175	11.1	186	11.8
KWS Irina	47.8	174	11.1	185	11.8
Mickle	47.3	173	11.0	183	11.6
Paustian	47.8	174	11.1	185	11.8
Propino	50.0	182	11.6	194	12.3
Quench	45.9	167	10.6	178	11.3
Sanette	48.3	176	11.2	187	11.9
Shada	46.3	169	10.7	179	11.4
Soldo	51.3	187	11.9	199	12.6
SY Taberna	47.7	174	11.0	185	11.7

*Crooner TGW based on 3 year average of DOA Official Trials

SPRING WHEAT 2015

Targeting 330 established plants/m²

Variety	TGW RL 2015	Good conditions 85% Establishment		Fair conditions 80% Establishment	
		kg/ha	Stone/ac	kg/ha	Stone/ac
Doubleshot*	45.0	175	11.1	186	11.8
Quintus*	45.4	176	11.2	187	11.9
Sparrow	43.3	168	10.7	179	11.3
Trappe	40.6	158	10.0	167	10.6

*Doubleshot & Quintus TGW based on analysis of Goldcrop processed seed in February 2015