

How to establish the right seeding rate for your cereals

In order to get the highest profitability possible, each crop kind has a **number of seeds to be planted per m²**. Every year, seeding rates are different due to kernel size and % germination found in each lot. It is in your best interest to take time to calculate the seeding rate you will need for every lot you receive.

While looking at different sources around (NBDAAF, CPVQ) we can come up with the following table.

Crop kind	Number of kernels / m ²
Barley	350-400
Oats	325-375
Oats (hulless)	375-450
Wheat	375-450

How to know the right seeding rate for different cereals in kg / ha or lb / ac ?

$$\frac{\text{Number of kernels to be seeded} / \text{m}^2 \times (\text{1000 kernel weight (g)})}{100} = \text{kg} / \text{ha}$$

To get the seeding rate in lb / ac: (kg / ha X 0.89)

Example:

You buy a lot of AC Dieter Oat at 93 % germination and with a 1000 kernel weight of 38 g

Using the above formula and the required number of kernels / m² we will get the solution:

$$(325 \text{ kernels} / \text{m}^2 \times 38 \text{ g}) / 100 = \mathbf{123.5 \text{ kg} / \text{ha}} \text{ or } \mathbf{109.9 \text{ lb} / \text{ac}}$$

Then you need to compensate for the germination to bring it at a 100%

$$(123.5 \text{ kg} / \text{ha}) / 0.93 = \mathbf{132.8 \text{ kg} / \text{ha}} \text{ or } \mathbf{118.2 \text{ lb} / \text{ac}}$$

Conclusion: For this lot of AC Dieter we need 132.8 kg / ha to achieve the right population in the field.

For more information contact Eastern Grains Inc.