

# Yankton Seed House



Advancing your seed genetics

## Basic Oat Guidelines

As a general rule of thumb, 30 seeds per square foot is a good seed rate for small grains (1.3 million seeds per acre) under good growing conditions. Use the number of seeds per pound to convert that to lbs per acre. If you expect droughty conditions (sandy soil) you may want to cut back on that and drop it down to 26 seeds per square foot. If you are planting late, you could bump it up by 10 %.

For hay production, run with the same seed rate as for grain.

For grazing, bump up the seed rate by 25 % (closer to 38 seeds per square foot, or about 1.6 million seeds per acre).

If underseeding with alfalfa, reduce plants per sq. foot to 15 plants/sq. ft.

$$\text{Seeding Rate(lbs/acre)} = \frac{(\text{desired stand} \div (1 - \text{expected loss}^*))}{(\text{seeds per lb}) \times (\% \text{ seed germination})}$$

\*Expected loss is used as a decimal form (10 percent = .1)

Planting Depth: 1-2"

Minimum Available Fertility Requirements for 100 bu. oats

Nitrogen (N) – 73 lbs (120lbs/A of soil nitrates in top 2 ft of soil)

Phosphorous (P2O5)- 27lbs

Potassium (K2O)- 18lbs

Sulfur (S)- 7lbs

Magnesium (Mg)- 4lbs

\*\*Glyphosate should not be used pre-harvest as the grain will be rejected by most buyers!\*\*

