

# BULK DENSITY FOR COMMON GRAINS

GRAIN	HECTOLITRES PER TONNE	KILOGRAMS PER CUBIC METRE	TONNES PER CUBIC METRE
BARLEY GRAIN	16.129	620	0.62
CANARY SEED	14.285	700	0.70
CANOLA	14.492	690	0.69
CHICKPEA	13.513	740	0.74
COTTON SEED	25.000	400	0.40
COWPEA	13.333	750	0.75
FLAX SEED	14.285	700	0.70
LINSEED	13.698	730	0.73
LUCERNE PELLETS	14.925	670	0.67
LUCERNE SEED	12.987	770	0.77
LUPINS	12.987	770	0.77
MAIZE GRAIN	13.888	720	0.72
MILLET	15.873	630	0.63
MUNG BEANS	13.333	750	0.75
NAVY BEANS	13.157	760	0.76
OATS WHOLE	20.833	480	0.48
PEANUTS IN SHELL	33.333	300	.030
PEANUT SHELLED	15.625	640	0.64
RYE GRAIN	14.285	700	0.70
SAFFLOWER	18.867	530	0.53
SESAME SEED	16.949	590	0.59
SORGHUM	13.698	730	0.73
SOYBEAN WHOLE	13.333	750	0.75
SUNFLOWER SEED	23.809	420	0.42
TRITICALE	14.285	700	0.70
WHEAT	12.987	770	0.77

*(Note that the values given are typical for each grain type. You should check each sample with a weight bulk measuring device, condometre, if high accuracy is important).*

- 1 hectolitre of wheat weighs 77 kilograms on average.
- 13 hectolitres of wheat weighs 1 tonne on average.

## ANGLE OF RESPONSE FOR COMMON GRAINS

GRAIN	ANGLE	GRAIN	ANGLE
Barley	28°	Safflower	25°
Wheat	27°	Sorghum	30°
Linseed	22°	Sunflower	30°