Crop Yields & Feed Estimations

Typical Bushel Weights & Moisture Contents

Crop	lbs Per Bushel	% Moisture Content
Barley	48	14.5
Shelled Corn	56	15.5
Oats	34	14
Soybeans	60	13
Sunflowers (oil)	30	10
Sunflowers (confectionery)	24	10
Wheat	60	13.5

Calculating Bushels

1 volume bushel (vol bu) = 1.25 cubic feet (cu ft) of grain or shelled corn, or 1 cu ft of shelled grain = .8 vol bu

1 volume bushel = 2.5 cubic feet of ear corn, or 1 cu ft of ear corn = .4 vol bu

To determine bushels of grain or shelled corn by volume, calculate grain volume in cubic feet, and divide by 1.25 or multiply by .8.

To determine bushels of ear corn by volume, calculate grain volume in cubic feet, and divide by 2.5 or multiply by .4.

ROUND CONTAINERS
Calculating Cubic Feet & Bushels

To find the capacity of a circular grain bin in bushels (all measurements must be in feet):

Radius (½ Diameter) **× Radius × 3.1416 × Height × .8** for grain or shelled corn (**.4** for ear corn) **= Bushels**

Capacity of Round Storage Containers

Diameter	Height	Cubic Feet	Capacities	
			Small Grain	Ear Corn
FEET	FEET		BUSHELS	BUSHELS
8	6	301	241	120
8	8	400	320	160
8	10	502	400	200
10	8	628	502	251
10	10	785	628	314
10	12	942	753	376
12	10	1130	904	452
12	12	1356	1084	542
12	14	1582	1265	632
14	12	1846	1476	738
14	14	2154	1723	861
14	16	2462	1969	984
16	14	2814	2251	1125
16	16	3216	2572	1286
16	18	3618	2894	1447
16	20	4029	3216	1608

SQUARE/RECTANGLE CONTAINER OR PILE
Calculating Cubic Feet & Bushels

To calculate the bushel capacity of a square or rectangular-shaped pile or bin with a level surface (all measurements must be in feet):

length × width × height × .8 for grain or shelled corn (**.4** for ear corn) **= Bushels**

Capacity of Square Storage Containers

Size in Feet	Capacity per foot of depth	Capacity of bin 10' deep
	BUSHELS	BUSHELS
5 x 5	20	200
6 x 6	28.8	288
8 x 8	51.2	512
10 x 10	80	800