Weights and Measures for the Farm Business

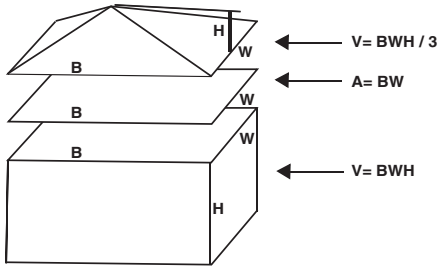
Department of Agricultural Economics — *www.agmanager.info*

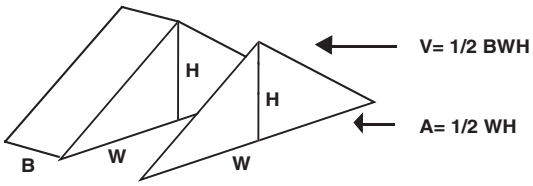
K-STATE Kansas State University

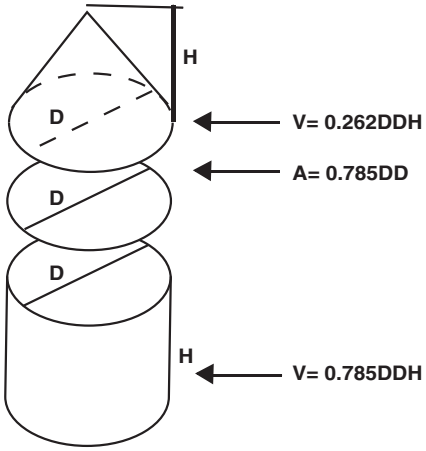
Kansas State University Agricultural Experiment Station and Cooperative Extension Service

Samuel M. Funk
Agricultural Economist
Farm Management

Harvey L. Kiser
Senior Agricultural Economist
International Grains Program







Convenient Conversion Factors		
Multiply	**By**	**To Obtain**
Area		
Acres	0.4047	Hectares
Acres	43,560	Square feet
Acres	4,840	Square yards
Hectares	2.471	Acres
Square feet	144	Square inches
Square feet	0.11111	Square yards
Square inches	0.00694	Square feet
Square kilometer	0.386	Square Miles
Square miles	2.59	Square Kilometers
Square miles	640	Acres
Square yards	9	Square feet
Square yards	1,296	Square inches
Distance		
Centimeters	0.3937	Inches
Centimeters	0.01	Meters
Centimeters	10	Millimeters
Feet	30.48	Centimeters
Feet	12	Inches
Feet	0.3048	Meters
Inches	2.54	Centimeters
Inches	0.08333	Feet
Inches	0.02778	Yards
Kilometers	3,281	Feet

Convenient Conversion Factors		
Multiply	**By**	**To Obtain**
Kilometers	1,000	Meters
Kilometer	0.6214	Miles
Kilometers	1,094	Yards
Meters	100	Centimeters
Meters	3.281	Feet
Meters	39.37	Inches
Meters	0.001	Kilometers
Meters	1,000	Millimeters
Meters	1.094	Yards
Miles	5,280	Feet
Miles	1.609	Kilometers
Miles	320	Rods
Miles	1,760	Yards
Rods	16.5	Feet
Yards	3	Feet
Yards	0.9144	Meters
Yards	0.000568	Miles
Speed		
Feet per minute	0.01667	Feet per second
Feet per minute	0.01136	Miles per hour
Miles per hour	88	Feet per minute
Miles per hour	1.467	Feet per second
Miles per minute	88	Feet per second
Miles per minute	60	Miles per hour

Miscellaneous 3 — Revised October 2005

Convenient Conversion Factors		
Multiply	**By**	**To Obtain**
Temperature		
Celsius	(1.8 × C°) +32	Fahrenheit
Fahrenheit	0.5556 × (F° - 32)	Celsius
Volume		
Bushels	4	Pecks
Bushels	64	Pints
Bushels	32	Quarts
Cubic feet	1,728	Cubic inches
Cubic feet	0.03704	Cubic yards
Cubic feet	7.4805	Gallons
Cubic feet	59.84	Pints (liquid)
Cubic feet	29.92	Quarts (liquid)
Cubic inches	16.39	Cubic centimeters
Cubic meters	1,000,000	Cubic centimeters
Cubic meters	35.31	Cubic feet
Cubic meters	61,023	Cubic inches
Cubic meters	264.2	Gallons
Cubic meters	2,113	Pints (liquid)
Cubic meters	1,057	Quarts (liquid)
Cubic meters	1.308	Cubic yards
Cubic yards	27	Cubic feet
Cubic yards	0.7646	Cubic meters
Gallons	3,785	Cubic centimeters
Gallons	0.1337	Cubic feet
Gallons	231	Cubic inches
Gallons	128	Ounces (liquid)
Gallons	8	Pints (liquid)
Gallons	4	Quarts (liquid)
Gallons of water	8.3453	Pounds of water
Liters	1,000	Cubic centimeters
Liters	0.0353	Cubic feet
Liters	6l.02	Cubic inches
Liters	0.001	Cubic meters
Liters	0.2642	Gallons
Liters	2.113	Pints (liquid)
Liters	1.057	Quarts (liquid)
Ounces (liquid)	29.573	Milliliters (cubic centimeters)
Ounces (liquid)	0.0625	Pints (liquid)
Ounces (liquid)	0.03125	Quarts (liquid)
Pints (liquid)	0.4732	Liters
Quarts (liquid)	57.75	Cubic inches
Quarts (liquid)	0.9463	Liters
Quarts (liquid)	32	Ounces (liquid)
Weight		
Bushels		
Wheat/soybeans	0.027216	Metric tons
Corn/sorghum	0.025401	Metric tons

Convenient Conversion Factors		
Multiply	**By**	**To Obtain**
Bushels per acre		
Wheat/soybeans	0.06725	Metric tons per hectare
Corn/sorghum	0.06277	Metric tons per hectare
Grains	0.0648	Grams
Grams	15.43	Grains
Grams	0.001	Kilograms
Grams	0.002205	Pounds
Grams	1,000	Milligrams
Grams per liter	1,000	Parts per million
Kilograms	1,000	Grams
Kilograms	2.2046	Pounds
Metric tons	2,204.62	Pounds
Metric tons	1.1023	Short tons
Metric tons		
Wheat/soybeans	36.7437	Bushels
Corn/sorghum	39.36825	Bushels
Metric ton per hectare		
Wheat/soybeans	14.87	Bushel per Acre
Corn/sorghum	15.93	Bushel per Acre
Ounces (dry)	28.3495	Grams
Ounces (dry)	0.0625	Pounds
Pounds	0.4536	Kilograms
Pounds	453.59	Grams
Pounds	16	Ounces
Pounds of water	0.01602	Cubic feet
Pounds of water	0.1198	Gallons
Test weight		
Kilograms per hectoliter		Pounds per bushel
Durum Wheat	(kg/hl × 0.774) – 0.630	
All other Wheats	(kg/hl × 0.774) – 1.419	
All other Grains	(kg/hl × 0.777)	
Test weight		
Pounds per bushel		Kilograms per hectoliter
Durum Wheat	(lbs/bu × 1.292) + 0.630	
All other Wheats	(lbs/bu × 1.292) + 1.419	
All other Grains	(lbs/bu × 1.287)	
Tons (short tons)	907.1847	Kilograms
Tons (short tons)	32,000	Ounces
Tons (short tons)	0.9072	Metric tons
Tons (short tons)	2,000	Pounds
PPM		
Parts per million	0.0584	Grains per U.S. gallon
Parts per million	0.001	Grams per liter
Parts per million	8.345	Pounds per million gallons

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