

Handy Conversion Factors for CNMP's

Multiply	Ву	To Get
P (phos.)	2.288	P_2O_5
K (Potass.)	1.205	K ₂ O
ppm	0.2269	lb/acre-in
lb/acre-in	4.408	ppm
ppm	0.00835	lb/1,000 gal
lb/1,000 gal	119.76	ppm
ppm	0.002	lb/ton
lb/ton	500	ppm
lb/acre-in	0.0368	lb/1,000 gal
lb/1,000 gal	27.17	lb/acre-in

1 acre-inch = $3,630 \text{ ft}^3 = 27,156 \text{ gal}$

- · Soil tests for cool-season crops should be collected after summer horsest, or in late summer for unharvested crops
- Soil tests for warm-season crops should be sampled after fall howest or prior to next spring's planting.

Conversion Factors

Multiply		ВҮ		TO GET
acre	ac	0.4	ha	hectare
acre-inch	ac-in	27154	gal	gallon
cubic feet	ft ³	7.48	gal	gallon
cubic centimeter	cm3	0.000001	m³	cubic meter
cubic feet	ft ³	0.028	m³	cubic meter
cubic inch	in ³	16.39	cm ³	cubic centimeter
cubic yard	yd ³	0.76	m ³	cubic meter
feet	ft	0.3048	m	meter
gallon	gal	3.79	L	liter
gallon/acre	gal/ac	9.35	L/ha	liter/hectare
Hectare	ha	10,000	m²	square meter
inch	In	2.54	cm	centimeter
mile	mi	1.61	km	kilometer
Ounce (weight)	OZ	28.35	g	gram
Ounce (fluid)	OZ	30	mL	milliliters
parts per million	mg/kg	0.002	lb/t	pound/ton
parts per million	mg/L	0.00835	lb/1000 gal	pound/1000 gallon
percent	%	10000	ppm	parts per million
pound	lb	0.454	kg	kilogram
pound/1000 gallon	lb/1000 gal	27.154	lb/ac-in	pound/acre-inch
pound/acre	lb/ac	1.12	kg/ha	kilogram/hectare
pound/cubic foot	lb/ft ³	16.02	kg/m³	kilogram/cubic meter
pound/gallon	lb/gal	119826	mg/L	parts per million
square feet	ft ²	0.093	m²	square meter
square mile	mi²	2.59	km²	square kilometer
square mile	mi ²	640	ac	acre
ton	t	2000	lb	pound
ton	t	0.907	Mg	metric ton
ton, metric	Mg	2205	lb	pound
ton, metric	Mg	1000	kg	kilogram
yard	yd	0.9144	m	meter
TO GET		ВҮ		DIVIDE

Conversions and Volumes

To convert Ibslac-in to
Ibs/1000gai

*Multiple Ibslac-in by
. 03718 to get
Ibs/1000gal.

General

- $lb P_2 O_5 \times 0.44 = lb P$
- lb P x 2.29 = lb P_2O_5
- $lb K_2O \times 0.83 = lb K$
- $lb K x 1.2 = lb K_2O$

Soil

- Parts per million (ppm) x 2 = lb/acre
- 5 lb P₂O₅ increases soil P test value by 1 ppm
- 1.75 lb K₂O increases soil K test value by 1 ppm

Manure - General

- Typical density of swine manure = 62 pounds per cubic foot Tons x 32.26 = cu ft Cu ft x 0.0310 = tons Tons x 242 = gallons Gallons x 0.00414 = tons
- Total available N (TAN) or Plant available N (PAN) = $NH_4 + -N + mineralized$ organic N
- About 35% of the organic N is mineralized to inorganic N in year it is applied

Liquid Manure

- ppm / 10,000 = %
- Lb/1000 gal= ppm/120
- 1b/1000-gallons / 83 = %
- ppm P x $0.019 = lbs P_2O_5/1000 gallons$
- ppm $K/100 = K_2O/1000$ gallons
- % $P \times 192 = lb P_2 O_5 / 1000 gallons$
- $\% \text{ K x } 100 = \text{lbs } \text{K}_2\text{O}/1000 \text{ gallons}$

Solid Manure

- 1b/ton / 20 = %
- Lb/ton = ppm/500
- ppm P X $0.0046 = 1b P_2O_5/ton$
- ppm K x $0.0024 = lb K_2O/ton$
- % P x 46 = $lb P_2O_5/ton$
- % K x 24 = lb K₂O/ton

Sq. ft acres 43,560

Ing/L = 0.00834540445 lbs/1000 gallons

Back to National Curriculum PAMS Home Page