

Claudia's Soil/Fertilizer Practice Sheet

Nutrient Word Search



My garden is looking sublime
 The color-theme "pink all the time"
 But what will I do?
 My hydrangea is blue
 I guess the solution is _____

"Use Greek: kalium," came the chorus
 An unused initial's there for us
 Potassium—K
 Let's do it that way
 It leaves us a P for _____

Decoding a chart or a table
 Her confidence level was stable
 Quick-acting or slow
 Synthetic or no
 The answer is found on the _____

What's Missing?

boron	copper	manganese	phosphorus
calcium	hydrogen	molybdenum	potassium
carbon	iron	nitrogen	sulfur
chlorine	magnesium	oxygen	zinc

Too early, the gardener took action.
 So mushy, she often lost traction.
 She worked the ground wet,
 A fatal regret.
 Her error led to soil _____

Sample problems you might encounter:

The recommendation in the book says one pound of 5-5-5 vegetable food per 250 sq. ft. You have a 4-6-2 rose food in the garage.

Can you use rose food on your vegetable garden? _____

Why? Or why not? _____

If you're going to use it, how much will you need to equal the 5-5-5?

$\frac{\text{Percentage you're going from}}{\text{Percentage you're going to}}$	=	factor	X	Recommended amount	=	New amount
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$\frac{5\%}{4\%}$	=	1.25	X	2 lbs. (of the 5-5-5)	=	2.5 lbs. (of the 4-6-2)
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If it is recommended that you apply nitrogen (N) at the rate of one pound of N per 1,000 square feet of vegetable garden, how much 5-10-10 fertilizer will you need to apply to a 20' by 25' garden plot?

$$\frac{\text{Recommended amount of nutrient}}{\text{Percentage of nutrient in product}} = \frac{\text{Amount of product needed}}{\text{to get that amount of nutrient}}$$

$$\frac{1 \text{ lbs.}}{.05} = 20 \text{ lbs./1,000 sq.ft.}$$

Then, divide by 2 for the required 500 sq.ft. (20' by 25') or 10 lbs.

Soil Word Search

P	D	R	A	I	N	A	G	E	T	W	E	L	U
H	H	W	J	I	C	Q	N	J	G	R	N	N	V
O	C	P	N	M	T	E	X	T	U	R	E	F	C
R	L	C	B	E	O	L	C	T	M	X	V	U	O
I	A	B	D	F	I	E	C	O	A	L	F	T	M
Z	Y	W	I	O	Q	U	L	B	N	U	O	J	P
O	R	U	S	M	R	M	U	G	U	K	T	H	O
N	C	O	N	T	A	I	N	E	R	W	Q	S	S
U	G	H	S	W	C	C	K	I	E	Q	Q	U	T
V	O	Q	I	J	E	R	W	L	C	D	D	R	A
T	W	W	L	W	X	O	B	Y	E	N	U	V	M
O	H	S	T	F	F	B	S	N	A	E	L	E	C
G	P	U	M	I	C	E	Y	S	B	E	N	Y	C
T	E	T	V	A	A	O	R	G	A	N	I	C	R

What's Missing?

clay	horizon	organic	soil
compost	manure	pumice	structure
container	microbe	sand	survey
drainage	mulch	silt	texture