## Fertilizer Calculations

You have just bought a 30 lb . bag of Green Farmer Organic Fertilizer 5-3-3.

Q1. How many pounds of nitrogen are in this bag?

Q2. Your soil sample analysis recommends applying 1 pound of actual nitrogen/1000 sq. ft. How many sq. ft. will this bag cover?

Q3. Your garden measures 120 ft . by 60 ft . How many pounds of 5-3-3 fertilizer do you use to apply 1 lb . of actual nitrogen/1000 sq. ft. as recommended?

You have just bought a 30 lb . bag of Green Farmer Organic Fertilizer 5-3-3.

Q1. How many pounds of nitrogen are in this bag?
$(.05 \mathrm{~N})(30 \mathrm{lbs})=.1.5 \mathrm{lbs}$. Actual nitrogen

Q2. Your soil sample analysis recommends applying 1 pound of actual nitrogen/1000 sq. $f t$.

How many sq. ft. will this bag cover?
$1 \mathrm{lb} .=1,000 \mathrm{sq} . \mathrm{ft}$.
1.5 lbs. X sq. ft. $\quad X=1,500 \mathrm{sq} . \mathrm{ft}$.

Q3. Your garden measures 120 ft . by 60 ft .
How many pounds of 5-3-3 fertilizer do you use to apply 1 lb . of actual nitrogen $/ 1000$ sq. ft. as recommended?
(120 ft.) (60 ft.) $=7,200 \mathrm{sq} . \mathrm{ft}$.
30 lbs . covers $1,500 \mathrm{sq} . \mathrm{ft}$.
$7,200 / 1,500=4.8$ bags
$\mathrm{A}+30 \mathrm{lbs} / \mathrm{bag} \times 4.8 \mathrm{bags}=144 \mathrm{lbs}$.

