

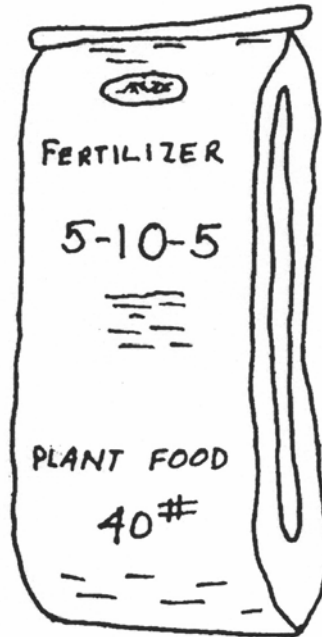
APPENDIX D
FERTILIZER LABELS AND PURE LIVE SEED

FERTILIZER GRADE

5-10-5

MEANS

5%	-	10%	-	5%
NITROGEN	-	PHOSPHORUS	-	POTASH
(N)	-	(P ₂ O ₅)	-	(K ₂ O)



OR

2 lbs.	-	4 lbs.	-	2 lbs.
N/40 lb. bag	-	P ₂ O ₅ /40 lb. bag	-	K ₂ O/40 lb. bag

FERTILIZER CALCULATION EXAMPLE

EXAMPLE

A one-half acre lawn area needs 20 pounds of nitrogen (N) (40 pounds per acre) to achieve vigorous, green growth. The supplier has 10-10-10 in 50 pound bags. How many bags of fertilizer are needed?

NOTE: Always apply as closely as possible the required amount of fertilizer to meet the requirements of the site. Adding surplus nitrogen may cause pollution of drinking water and saltwater ecosystems. Excessive phosphorus may accelerate the aging process of freshwater ecosystems. Excessive amounts of N and K₂O may result in 'burning' the grass and killing it.

ANSWER

10-10-10 has 10% of each N, P₂O₅, and K₂O in the bag. Based on the N needed,

40-lbs/ac divided by 0.1 (10%) = 400 lbs. for one acre.

Divide by 2 for ½ acre=200 lbs. of fertilizer or 4-fifty pound bags of 10-10-10 fertilizer.

HOW TO CALCULATE PURE LIVE SEED

Pure Live Seed, or PLS, refers to the amount of live seed in a lot of bulk seed. The cost of PLS seed is proportionally higher than bulk price. Calculating Pure Live Seed can help you save money and do the best jobs possible. Take a look at the label on a bag of seed. You will find a lot of information such as the type of seed, the supplier, test date and where the seed came from. More importantly, you will see seed purity, and germination percent. To compute pure live seed, multiply the "germination percent" times the "purity" and divide that by "100" to get PURE LIVE SEED.

(*Purity* is the percentage of pure seed. A high percentage of pure seed is required for crop seed, but some chaffy grasses and native plants may have a lower percent purity. A high pure seed percentage will provide the best results.

Germination percentage is the percentage of pure seed that will produce normal plants when planted under favorable conditions.)

Example:

$$\frac{96\% \text{ germination} \times 75\% \text{ purity}}{100} = 72\% \text{ PLS}$$

Then divide the "Cost per pound" by "Pure Live Seed" and you will have the cost per pound of the Pure Live Seed.

$$\frac{\$2.50 \text{ per pound}}{72\%} = \$3.47 \text{ per Pound of PLS}$$