

Explanation of Results Page:

Example for the purpose of explanation:

Alfalfa	
Purity	99.69%
Weed Seed	0.08%
Crop Seed	0.00%
Inert Matter	0.23%
Pure Seed Components	5.2086g

Seed Per lb

How to determine the actual number found in the sample from the information given on the report (weed seed/lb). There are 453.6g/lb.

To calculate seed/lb:

Pure seed components x weed seed/lb
453.6g

Weed Seed:	
Pigweed	261 per lb
Lamb's-quarters	87 per lb

Alfalfa Example:

Contaminant-pigweed
5.2086g x 261 pigweed/lb
453.6g

Germination	66%
Hard	29%
Total viable	95%
PLS%	94.7

Total = 2.9970 pigweed found
* Round up to the nearest whole number to get 3 pigweed seed found

Pure Live Seed (PLS %)

To determine the PLS % or percent pure live seed you have to request a purity and germ to be conducted on your sample. This helps the grower determine seeds/lb and how to set their planter

To calculate PLS:

$$\frac{\% \text{ total viable} \times \% \text{ purity}}{100}$$

Alfalfa example:

$$\frac{95\% \times 99.69\%}{100} = 94.70 \text{ PLS}$$

Alfalfa Sample Example Continued

Germination	66%
Hard	29%
Total viable	95%

PLS% 94.7

Total Viable

Alfalfa example:

66% germ +29% hard seed=95% total viable

Seed Count on Cereals

Seed counts are performed on cereal samples with a purity unless specifically requested. The analyst cleans up the weight of the pure seed and that amount is sent through a counting device that gives a total number.

Example: Wheat

Pure Seed 97.64g

No. of seeds 3118

$$\frac{3118}{97.64} \times 453.6 = 14515 \text{ seeds/lb}$$