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:**

\[
\text{Pure seed components} \times \text{weed seed/lb} = 453.6g
\]

**Alfalfa Example:**

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

**Germination**

- Hard: 29%
- Total viable: 95%

**PLS %**

94.7

**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

\[
3118 \times 453.6 = 14515 \text{ seeds/lb}
\]

97.64