

Pure Live Seed is a calculation that determines the quantity of pure viable seed, of the desired species, in each bag. A bag of seed typically consists of inert materials such as dust, chaff and empty seed. Each bag may also contain a percentage of weed and other crop seed. Excluding all other factors except germination percent and purity percent, we can determine the PLS percentage of an individual lot of seed. PLS allows the customer to purchase the right amount of clean, viable seed for the job. And since each lot varies, the PLS calculation gives a value by which to distinguish them.

Let's look at an example:

Lot 549A is 90% pure and germinates at 80% - purchase price of \$5.00 per bulk lb

Lot 601B is 70% pure and germinates at 60% - purchase price of \$3.50 per bulk lb

Lot 549A: $.90 \times .80 = .72$ PLS %

Lot 601B: $.70 \times .60 = .42$ PLS %

Now divide the purchase price of the seed by the PLS percentage to determine the Pure Live Seed price:

Lot 549A: $\$5.00 / .72 = \6.94 per PLS lb

Lot 601B: $\$3.50 / .42 = \8.33 per PLS lb

Even though the lower quality seed costs less per bulk pound, it actually ends up costing you more to equal the quality of the better lot. For this reason, the PLS price should be established prior to purchasing so that the best value can be passed on to the customer.

Once a decision is reached to purchase the seed, a calculation to determine the weight of the seed to be sold can be made. Assuming 200 PLS pounds are bought:

Lot 549A: $200 \text{ PLS lbs} / .72 = 277.8$ bulk lbs

Lot 601B: $200 \text{ PLS lbs} / .42 = 476.2$ bulk lbs

To ensure you get what you paid for and more, Arkansas Valley Seed rounds up the bulk calculation so we provide at least the minimum PLS pounds ordered.

WHAT'S IN THE BAG?

We will custom mix to any specification and to instill confidence of what you are buying we enforce strict standards for the tagging of every bag. The following items must be attached to every bag of seed that leaves our warehouse:

Kind & Variety	Inert Percentage	Origin of Seed
Lot Number	Weed Percentage	Date of Germination Test
Purity Percentage	Total Germination	Net Weight of Bag
Crop Percentage	Hard/Dormant Seed Count	Noxious Weeds If Present

UNDERSTANDING THE HIERARCHY OF SEED PRODUCTION

- Breeder – The purest quality of a variety of seed directly from the seed breeder.
- Foundation – Grown from Breeder seed.
- Registered – Grown from Foundation seed.
- Certified – Grown from either Foundation or Registered seed - most common seed available to the public.
- Source Identified Seed – Verifies the origin and ecotype of a given species.
- Common - Undocumented variety but still is a reliable seed source - typically sold as VNS (Variety Not Stated).

PVP – The Plant Variety Protection Act gives developers of new varieties of plants patent-like rights that protect the reproduction and distribution of their varieties. Varieties that are protected under the Plant Variety Protection Act can only be sold with permission of the PVP holder and in some cases, only as a class of certified seed. Varieties that are protected must have labels on the seed containers indicating the type of protection.

EROSION CONTROL PRODUCTS

S75® SINGLE NET STRAW BLANKET

- Comprised of 100% agricultural straw stitched with degradable thread to a single photodegradable polypropylene netting.
- Provides erosion protection for up to 12 months on 4:1 to 3:1 slopes and low flow channels.
- Dimensions: 6.67 ft by 108 ft (covers 720 square feet or 80 square yards).

S150® DOUBLE NET STRAW BLANKET

- Comprised of 100% agricultural straw stitched with degradable thread between two degradable polypropylene nettings.
- Provides erosion protection for up to 12 months on 3:1 to 2:1 slopes and moderate flow channels.
- Dimensions: 6.67 ft by 108 ft (covers 720 square feet or 80 square yards).

SC150® DOUBLE NET STRAW-COCONUT BLANKET

- Comprised of 70% agricultural straw/30% coconut fiber matrix stitched with degradable thread between a UV stabilized top netting and a standard polypropylene bottom netting.
- Provides erosion protection for up to 24 months on slopes up to 1:1 and medium flow channels.
- Dimensions: 6.67 ft by 108 ft (covers 720 square feet or 80 square yards).

DS75™ SINGLE NET STRAW BLANKET

- Comprised of 100% agricultural straw stitched with degradable thread to a single UV accelerated photodegradable polypropylene netting.
- Designed to assist in rapid vegetation establishment of turf and native areas and will degrade in up to 45 days.
- Provides erosion protection on 4:1 to 3:1 slopes and low flow channels.
- Dimensions: 6.67 ft by 108 ft (covers 720 square feet or 80 square yards).

UV DEGRADABLE STRAW WATTLES™

- Comprised of weed-free straw wrapped in tubular plastic netting.
- Cost effective way to prevent sediment pollution from bare lots and cut slopes.
- Replaces silt fences, straw bales, earth berms and sandbag barriers.
- Dimensions: 9 in diameter by 25 ft.

GENERAL EROSION CONTROL RECOMMENDATIONS

- Add 10% for overlap and waste when calculating blanket needs.
- Approximately 100 staples required for each blanket or 10 stakes for each straw wattle.
- Other erosion control products available, please contact us for more information.

www.avseeds.com

BIONET® S75BN™ SINGLE NET STRAW BLANKET

- Comprised of 100% agricultural straw stitched with biodegradable thread to a biodegradable natural fiber top netting (100% organic).
- Provides erosion protection for up to 12 months on 4:1 to 3:1 slopes and low flow channels.
- Dimensions: 6.67 ft by 108 ft (covers 720 square feet or 80 square yards).

BIONET® S150BN™ DOUBLE NET STRAW BLANKET

- Comprised of 100% agricultural straw stitched with biodegradable thread between two biodegradable natural fiber nets (100% organic).
- Provides erosion protection for up to 12 months on 3:1 to 2:1 slopes and moderate flow channels.
- Dimensions: 6.67 ft by 108 ft (covers 720 square feet or 80 square yards).

BIONET® SC150BN™ DOUBLE NET STRAW-COCONUT BLANKET

- Comprised of 70% agricultural straw/30% coconut fiber matrix stitched with biodegradable thread between biodegradable natural fiber nets (100% organic).
- Provides erosion protection for up to 18 months on slopes up to 1:1 and medium flow channels.
- Dimensions: 6.67 ft by 108 ft (covers 720 square feet or 80 square yards).

FUTERRA® GREEN TURF BLANKET

- Comprised of wood fiber and crimped interlocking synthetic fibers laminated by an accelerated photodegradable polypropylene netting.
- Assists in the establishment of seeded turf while the netting degrades within 6 weeks and the wood matrix within 10 months.
- Bonds to the soil surface and provides erosion protection on slopes up to 1:1.
- Dimensions: 6.83 ft by 135 ft (covers 922 square feet or 102.5 square yards).





Hydrosorce (cross-linked polyacrylamide) is a long-lasting, easy-to-use, water-absorbing soil amendment. Use in gardens, houseplants, and landscaping to increase the soil's water-holding capacity.

KEY BENEFITS

- Absorbs water and nutrients, making them continuously available to plants.
- Reduces labor of garden preparation, watering, weeding, and pest control.
- Greatly increases growth rate and food production.

STANDARD

Grade Size: 2-4 mm

Use: Lawns & Ag Use

Rate: 16-25 lbs/1,000 sq ft to a depth of 6 inches for lawns or 10 lbs/100 sq ft to a depth of 6 inches for gardens and flower beds

FINE

Grade Size: 0.3-1 mm

Use: Potting Soil Mix and Tree Dipping

Rate: 1 lb to 15-30 gallons of water

MEDIUM

Grade Size: 1-2 mm

Use: Potting Soil Mix

Rate: 1 lb to 5 gallons of water or 1 part wet to 2 parts soil

POWDER

Grade Size: <0.5 mm

Use: Tree Dipping

Rate: 1 lb to 15-30 gallons of water

18-46-0 STARTER FERTILIZER

A fertilizer rich with phosphorus to stimulate root growth in young plant establishment. Apply 50 lbs evenly across 10,000 square feet of soil or 200 lbs per acre after seed planting.

Fertilizing is highly recommended to maintain the health of your plant materials. Adequate spring moisture will activate the fertilizer and release the nutrients. During the spring, the ideal fertilizer will include a mixture of both quickly and slowly available Nitrogen (N) sources. Phosphorus (P) and Potassium (K) are also highly recommended nutrients to supplement to your soil. Phosphorus stimulates root growth throughout the growing season and Potassium enhances your plant's tolerance to heat and other stresses.