

## Fertilizers, Digging a Little Deeper:

**Nitrogen (N):** Helps plants make the proteins that produce new plant tissues such as leaves. It can be used to “green up” a lawn or side dressed onto corn to stimulate growth. Nitrogen can be “Fixed” or put back into the soil by several varieties of plants, including most Legumes.

**Phosphorous (P):** Helps stimulate root growth, increases seed size, increases plant vitality, and helps the plants set buds and flowers. Phosphorous uptake is largely dependent on soil acidity or alkalinity (pH).

**Potassium (K):** Essential in all processes related to plant growth and reproduction. Often referred to as the “quality” nutrient, as it helps with the quality and appearance (size, shape, color, taste) of the plant and its fruit. It is known to aid in drought tolerance through water regulation.

### Exclusion of Warranties

*Valley Fertilizer issues no warranty, expressed or implied, for the results and/or consequences for the use of these products. Valley Fertilizer shall bare no responsibility for any damages that may occur, by the consumer/user of these products.*

## Who We Are

The Valley Fertilizer & Chemical Company, Inc., has been serving the local agricultural community since 1937. Originally formed to serve the orchard industry, Valley Fertilizer, has expanded its horizons into other agricultural ventures to better serve the Shenandoah Valley and surrounding areas. Valley Fertilizer offers a variety of products and services, such as, bagged and bulk fertilizers, bagged and bulk ice melt, chemicals, orchard products, various seeds, fertilizer and lime spreading, custom agricultural applications, soil sampling, nutrient management planning, poultry litter ammonia control, and storage facilities. Valley Fertilizer is a licensed pesticide application business in Virginia and West Virginia. Valley Fertilizer is also a seed dealer for Pioneer and NK (Northrup-King) seed products.

### CONTACT US



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# FERTILIZER PRODUCT GUIDE

## Fertilizer Basics:

Nutrients are an important part to any living organism's growth and sustainability. Nutrients can be absorbed through the air, water, or obtained through the soil in the form of Macronutrients and Micronutrients. Plants especially need nutrients to reach their highest health, growth, and yield potential, which can be provided through fertilizers. Fertilizers are available in many forms and different analyses based on the needs of the plant. The fertilizer you apply is based on the nutrients available or lacking in the soil in the form of N (Nitrogen), P (Phosphorous), and K (Potassium). The three sets of numbers you may see on a bag of fertilizer represents the percentages of NPK within that bag and are listed in that order. For example, 10-10-10, means there is 10% Nitrogen, 10% Phosphorous, and 10% Potassium ingredients in that bag. The best way to determine what type and how much fertilizer the soil may need is through a soil sample. The sample will give you a recommended amount of NPK to be added to the soil.

*Always use caution when applying fertilizers because over-fertilization and plant damage can occur.*

## Fertilizer Products:

- **0-0-50-17S (Sulfate of Potash)**
- **0-10-20**
- **0-20-20**
- **4-2-0 (Biosolid)**
- **5-10-5**
- **5-10-10**
- **5-20-20**
- **9-15-10-3S-2FE**
- **10-6-4**
- **10-10-10**
- **10-10-10-4S-2FE**
- **10-20-10**
- **10-20-20**
- **12-24-24**
- **15-30-15**
- **27-0-0-4Ca-1Mg**
  - Calcium Ammonium Nitrate
- **15.5-0-0 (Calcium Nitrate)**
  - Fertilizer Grade
  - Greenhouse Grade
- **16-0-8-3S-2Fe-25% XCU (Turf)**
  - XCU=Slow Release Nitrogen
- **16-4-8**
- **16-4-8-3S-2Fe**
- **16-8-8**
- **19-19-19**
- **20-10-10**
- **21-0-0-24 (Ammonium Sulfate)**
- **18-46-0 (DAP)**
- **11-52-0 (MAP)**
- **0-0-60 (Potash)**
- **46-0-0 (Urea)**
  - Feed Grade Available
- **43-0-0 (Sulfur Coated Urea)**
- **Lime**
  - Hydrated, Pelletized, Pelletized Calcitic
- **0-46-0 (Triple Superphosphate)**

*\*\*Specialty blends available in quantities of 1 ton (2,000lbs) or more\*\**

*\*\*Most Blends are available in Super Sacks (2,000lbs) upon request\*\**



*Valley Fertilizer bagged 10-10-10 fertilizer (above) and Valley Fertilizer bagged 19-19-19 fertilizer (below).*

