



# START

**A premium, high phosphate, water soluble plant food concentrate 12-43-10 plus sulfur and micronutrients**

## GUARANTEED ANALYSIS

Total Nitrogen (N).....	12.00%
8.5% Ammoniacal Nitrogen	
1.40% Nitrate Nitrogen	
2.10% Urea Nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ).....	43.00%
Soluble Potash (K <sub>2</sub> O).....	10.00%
Sulfur (S).....	2.00%
2.00% Combined Sulfur (S)	
Boron (B).....	0.02%
0.02% Water Soluble Boron (B)	
Copper (Cu).....	0.05%
0.05% Water Soluble Copper (Cu)	
Iron (Fe).....	0.10%
0.10% Chelated Iron (Fe)	
Manganese (Mn).....	0.10%
0.10% Water Soluble Manganese (Mn)	
Molybdenum (Mo).....	0.0005%
0.0005% Water Soluble Molybdenum (Mo)	
Zinc (Zn).....	0.25%
0.25% Water Soluble Zinc (Zn)	
Derived from Ammonium Phosphate, Potassium Nitrate, Potassium Sulfate, Urea, Sodium Borate, Copper Sulfate, Iron EDTA, Manganese Sulfate, Sodium Molybdate, and Zinc Sulfate.	

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.html>

**HAZARDS NOT OTHERWISE CLASSIFIED:** May be harmful if swallowed.

**Acidifying:** Valley Start is a very efficient and economical acidifying agent for alkaline water. Beginning with an initial pH of 8.1. Valley Start will normally reduce the pH of the Spray solution as follows:

**Concentration pH** 1 lb/100 gal - 6.3 1 lb/50 gal - 5.9 1 lb/10 gal - 4.8 1 lb/1 gal - 4.0

## GENERAL DIRECTIONS

Valley Start is generally compatible with pesticides and other fertilizers. Determine compatibility with a jar test before mixing products.

### APPLICATION IN IRRIGATION WATER

Solid Set, Overhead, Sprinkler or Pivot Irrigation Systems: Dissolve Valley Start in mix tank and apply 8-10 lbs per acre in irrigation water. Use of anti-siphon or back-check valve is recommended to prevent material from running back into primary water supply.

**DILUTE APPLICATIONS:** 3-5 lbs per 100 gallons of water.

**SEMI-CONCENTRATE:** 5-20 lbs per acre in 40-100 gallons of water.

**AIR APPLICATION:** 5-10 lbs per acre in sufficient water for good coverage.

- Fill tank with water. Begin agitation. Add Valley Start slowly and continue agitating until product is completely dissolved. Use this procedure only. **DO NOT** pre-mix as a slurry. Add pesticide last.
- When temperatures are cold, allow extra time for this product to completely dissolve.
- If additional wetting is required, add a non-ionic spreader at 1 pint per 100 gallons or 1 pint per acre by air.
- Avoid foliage application when plants are suffering from abnormal growing conditions due to heat stress or drought.
- Do not use on Golden Delicious during slow drying conditions.
- Exceeding 2 lbs Valley Start, or other materials, per gallon of water will over-saturate spray solution and cause a precipitate. **Do not exceed 2 lbs Valley Start per gallon of water.**

## RECOMMENDED APPLICATION

**SMALL GRAINS:** (*Wheat, oats, barley, rye, etc.*) Use 5-10 lbs per acre in sufficient water to cover by air or ground. Apply at tillering and again at early boot stage. **DECIDUOUS FRUITS & NUTS:** (*Apples, pears, cherries, plums, prunes, peaches, almonds, walnuts, filberts, pistachios, pecans, etc.*) Apply in delayed dormant, pre-bloom, and post-bloom sprays at 3-5 lbs per 100 gallon in dilute sprays or 10-15 lbs per acre in concentrate sprays. Avoid combining with materials that may cause russeting. Post-harvest application of 10-40 lbs per acre can enhance tree vigor and increase nutrient levels within spurs the following season. **CITRUS:** Ground Sprayers: Use 8-10 lbs per acre. Apply at 7-10 day intervals (Higher rate for full bearing trees.) **VINE CROPS** (*Melons, Cucumbers, etc.*): Ground Sprayers: Use 8-10 lbs per acre when plants are 12-14" across. Subsequent applications: Apply 8-10 lbs per acre at the first sign of bloom. 2-3 weeks following the second application, apply 8-10 lbs per acre as needed. Air Application: Use 5-10 lbs per acre in no less than 10 gallons of water. **HOPS:** Ground sprayers: Use 8-10 lbs per acre in 100-200 gallons of water. Air application: use 5-8 lbs per acre in no less than 10 gallons of water. Apply when hops are halfway up wire and again when they reach the top of the wire. **GRAPES:** Ground sprayers: use 5-10 lbs per acre in 100-200 gal of water. Air application: use 5-10 lbs per acre in no less than 10 gal of water. Apply when leaves emerge, pre-bloom, and post-bloom until grapes are 1/4 size. **POTATOES:** Use 10 lbs per acre. Apply when plants are 4-6" high (hooking stage), with subsequent applications at 2-3 week intervals. Later applications may prevent "early die" symptoms. **CORN:** (Field and sweet). Use 8-10 lbs per acre. Apply when corn is 6-8" high and again prior to tasseling. **BEANS, PEAS, LENTILS, RAPESEED (Canola):** Use 5-10 lbs per acre. Apply at first sign of bloom. Repeat 2 weeks later. **COLE CROPS, LETTUCE, LEAFY VEGETABLES:** Use 8-10 lbs per acre. Apply right after thinning or transplanting. Repeat every 10-14 days. Additional wetting may be needed. **SUGAR BEETS:** Use 8-10 lbs per acre. Apply when leaves are 10" across. Repeat 3-4 weeks later. Additional wetting may be needed. **FIELD CROPS:** (*Mint, alfalfa, clover*). Use 8-10 lbs per acre. Apply when plants have 6-8" new growth. Repeat to new growth after each cutting. **ONIONS, GARLIC, TOMATOES, PEPPERS:** Use 8-10 lbs per acre. Begin application prior to bloom. Repeat every 2-3 weeks thereafter. **BERRIES:** (*Strawberries, raspberries, blackberries, blueberries*). Use 5-10 lbs per acre in spring on new growth. Repeat at pre-bloom and 3 weeks later. Use sufficient water for good coverage. **CANBERRIES:** Use 8-10 lbs per acre. Apply at popcorn stage. Repeat at hooking and 3 weeks later.

**COMPATIBILITY:** Valley Start is compatible with most commonly used pesticides. Do not use with lead arsenate, hydrated lime, lime sulfur, or other strongly alkaline materials. Do not use with amine form of 2,4-D or with dicamba (e.g. Banvel). In all cases, it is recommended that a jar test be made to determine compatibility of Valley Start with other materials before proceeding with high volume mixing.

## WARRANTY

**DISCLAIMER OF WARRANTIES:** Seller warrants that the composition of this product conforms to the description and is reasonably fit for the purpose as stated on the label only when used in accordance with label directions under normal conditions of use. This warranty is expressly in lieu of all other warranties and representations expressed, implied, or statutory, including warranties of merchantability and fitness for a particular use. Timing, rate and method of application, weather and crop conditions, and mixtures not specifically recommended on this label or an accompanying written recommendation, are beyond the control of the seller. Buyer assumes all risks of use, storage, and handling of this material not in strict accordance with directions given herewith. Buyer further agrees in the event of damages resulting from, but not limited to, weather or soil conditions, presence of other materials, or failure to follow label directions will be assumed by the Buyer or User, and to accept a replacement of the product or a refund of the purchase price of the product, at buyer's option, as full discharge of seller's liability. No one is to make any other warranty, guarantee or directions concerning this product, and no such warranties, guarantees or directions shall be valid or binding upon seller.

## GENERAL INFORMATION

Manufactured for: Valley Agronomics LLC  
PO Box 365, 922 South Oneida, Rupert, ID 83350 • (208) 436-0141

**Net Weight: 25 lbs. (11.34 kg)**

**Inv. ID: 20002517-000**

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