



FEED

FORMULA

# 10-30-20

## BLOOM

ROOT GROWTH +  
FLOWER & FRUIT DEVELOPMENT

guaranteed analysis

F1313

mixing instructions

|                                                            |        |
|------------------------------------------------------------|--------|
| Total Nitrogen (N) .....                                   | 10.0%  |
| 5.0% ammoniacal nitrogen                                   |        |
| 5.0% nitrate nitrogen                                      |        |
| Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) ..... | 30.0%  |
| Soluble Potash (K <sub>2</sub> O) .....                    | 20.0%  |
| Magnesium (Mg) .....                                       | 0.5%   |
| 0.5% water soluble magnesium (Mg)                          |        |
| Sulfur (S) .....                                           | 0.8%   |
| 0.8% combined sulfur (S)                                   |        |
| Boron (B) .....                                            | 0.02%  |
| Copper (Cu) .....                                          | 0.05%  |
| 0.05% chelated copper (Cu)                                 |        |
| Iron (Fe) .....                                            | 0.1%   |
| 0.1% chelated iron (Fe)                                    |        |
| Manganese (Mn) .....                                       | 0.05%  |
| 0.05% chelated manganese (Mn)                              |        |
| Molybdenum (Mo) .....                                      | 0.001% |
| Zinc (Zn) .....                                            | 0.05%  |
| 0.05% chelated zinc (Zn)                                   |        |

**Derived from:** monoammonium phosphate, monopotassium phosphate, potassium nitrate, magnesium sulfate, boric acid, iron EDTA, manganese EDTA, zinc EDTA, copper EDTA, ammonium molybdate

**Potential Acidity:** 417 lb. of calcium carbonate equivalent (CCE) per ton.

**Limit of Solubility:** 4 lb. per gallon

**ATTENTION:** The application of fertilizer material containing Molybdenum (Mo) may result in forage crops containing levels of Molybdenum (Mo) which are toxic to ruminant animals.

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

FOR AN EC OF 1.5 (150 PPM N)

Need a Boost of Flower Power? Our 1:3:2 major nutrient ratio has been trusted by Jack's growers for over 70 years. This soluble and available nutrient combination stimulates blooming. Start using Bloom when you initiate flowering.

Step 1: Dissolve 20 oz. in 100 gallons of water to achieve a final feed strength of 150 PPM N.

Step 2: Dissolve any additional Epsom Salts (MgSO<sub>4</sub>) into the solution before proceeding. For most crops, 50 ppm Mg is an adequate level in solution. To increase Mg levels, a good equation to remember is for every 1 dry ounce of Epsom Salts you will add 7.5 ppm of Mg and 10 ppm S.

For best results, keep in mind that fertilizer salts dissolve in an endothermic reaction which means that they absorb heat from their surroundings during the process. This is why hot water works best when dissolving high concentrations (over 1 lb. per gallon range). Maximum fertilizer solubilities per gallon of hot water are listed with each formula description.

FOR A CONTINUOUS LIQUID FEED PROGRAM

1 GALLON  
CONCENTRATE

FOR INJECTORS  
AT 1:100:

Mix 20 dry ounces of  
fertilizer per gallon  
of stock

1 GALLON  
READY TO USE

SMALL VOLUME  
MIXING:

Mix 5.68 grams per  
gallon of water as a  
constant liquid feed

100  
GALLONS

FOR A  
LARGE SOLUTION  
RESERVOIR:

Mix 20 dry ounces of  
fertilizer in 100 gallons  
of water as a constant  
liquid feed

\*USEFUL CONVERSIONS:

1 GAL = 3.78 L

1 TSP = 5 GM

elemental concentration

| 100 ppm N solution<br>contains the following<br>elemental ppm: |       |
|----------------------------------------------------------------|-------|
| Element                                                        | ppm   |
| Total Nitrogen (N)                                             | 100.0 |
| Nitrate - N (NO <sub>3</sub> )                                 | 50.0  |
| Ammonium - N (NH <sub>4</sub> )                                | 50.0  |
| Urea - N                                                       | 0.0   |
| Phosphorus (P)                                                 | 130.9 |
| Available Phosphate (P <sub>2</sub> O <sub>5</sub> )           | 300.0 |
| Potassium (K)                                                  | 166.0 |
| Soluble Potash (K <sub>2</sub> O)                              | 200.0 |
| Calcium (Ca)                                                   | 0.0   |
| Magnesium (Mg)                                                 | 5.0   |
| Sulfur (S)                                                     | 8.2   |
| Boron (B)                                                      | 0.2   |
| Copper (Cu)                                                    | 0.50  |
| Iron (Fe)                                                      | 1.00  |
| Manganese (Mn)                                                 | 0.50  |
| Molybdenum (Mo)                                                | 0.01  |
| Zinc (Zn)                                                      | 0.50  |



NET WT. 25 LB. (11.34 KG)