



BLOOM 0-35-29

WATER SOLUBLE FERTILIZER

GUARANTEED ANALYSIS

Available Phosphate (P_2O_5)	35.0%
Soluble Potash (K_2O)	29.0%
Magnesium (Mg)	1.5%
Sulfur (S)	4.0%

Derived from potassium nitrate, monopotassium phosphate, potassium sulfate, magnesium sulfate. F2681

GENERAL INFORMATION

Front Row Ag's water soluble fertilizers include PART A, PART B, and BLOOM. These products are intended to be the main constituents of a plant nutrient system. Only by correctly using all three fertilizers on actively growing plants can the best results be achieved. Avoid foliar applications of this product when plants are suffering from moisture stress or during periods of high temperature and/or low humidity. If applying as foliar, apply the spray solution to a small test area to determine any undesirable phytotoxic effects.



STORAGE

STOCK CONCENTRATE

Store in opaque containers, at room temperature (71° F), raise off the ground, without exposure to direct sunlight or long periods of artificial light. Use within 14 days of making stock concentrate.

DRY SOLUBLES

To store unused fertilizer, remove air and seal bag by folding over and clipping. Best storage is in a cool, dry area outside of direct sunlight or light. Humidity may change the consistency of the fertilizer, but not the performance.

LIMITED WARRANTY

Front Row Ag ("FRA") warrants that the product conforms to the chemical description given on this label and is reasonably fit for the purpose stated when used in accordance with label directions under normal conditions of use. FRA and Seller make no other warranties, expressed or implied, including warranty of merchantability or fitness for a particular purpose. Buyer and User accept all risks arising from any use of this Product. To the extent allowed by the law, FRA and the Seller shall not be liable to the Buyer or User of this Product for any consequential, special, incidental or indirect damages.

ATTENTION

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

PRECAUTIONARY STATEMENT

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear eye/face protection and protective gloves/clothing. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. **FIRST AID:** See SDS sheet. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor. If swallowed: Rinse mouth. Call a doctor if you feel unwell. If inhaled: Remove person(s) to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell. If on skin: Wash with plenty of water. If skin irritation occurs, get medical attention. Take off contaminated clothing and wash before reuse.

WARNING: Cancer and Reproductive Harm | www.p65Warnings.ca.gov

WARNING: Harmful if inhaled.

NET WEIGHT
25 lb / 11.34 kg
 BT/LOT#

Guaranteed by:
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DISTRIBUTED BY SOLSTICE AG



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RATE RECOMMENDATIONS

Unless otherwise specified, use recommended rates in the following water volumes based on application method. Use sufficient volume to ensure thorough coverage and wetting needed for optimum results.

STOCK CONCENTRATE INJECTION:

Depending on lbs per gallon in stock concentrate, use rates are typically between 5 mL and 50 mL per gallon. For best results, make stock concentrate with source water with less than 40 ppm. It is recommended source water contains 1 - 3 ppm Cl from Calcium Hypochlorite.

DIRECT TO RESERVOIR:

1-8 grams per gallon (for use directly into reservoirs and feed tanks without making concentrate).

BLOOM contributes 0.20 EC per gram per gallon.

Rates other than those suggested may be applied depending on crop conditions and cultural practices. BLOOM is recommended for

use on (but not limited to) the following crops and areas - Field, Greenhouse, Indoor, Vegetable, Fruit and Nut Crops (such as alfalfa, almonds, apples, apricots, avocados, beans, broccoli, carrots, cauliflower, cherries, citrus, corn, cotton, cucumbers, hemp, lettuce, nectarines, onions, peaches, pears, peas, pecans, peppers, plums, prunes, sorghum, sugar beets, tomatoes, walnuts, and wheat): Apply 1-8 grams per gallon or 5-50 mL stock concentrate per gallon of irrigation water as needed.

Vine and Berry Crops (such as blueberries, cranberries, grapes, hops, and strawberries): Apply 1-8 grams per gallon or 5-50 mL stock concentrate for every gallon irrigation water in early spring or when deficiency symptoms first appear and repeat as needed.



Feed Charts

MIXING & HANDLING

1 DIRECT TO RESERVOIR

ADD R.O. WATER
 Fill RTU batch tank to final target volume

71° F
0 ppm

2

ADD FRONT ROW
 while agitating. Wait 3-5 minutes between each component addition

3

MIX
 Continue agitation, adjust pH and check solution after 5 - 10 minutes

1 STOCK CONCENTRATE

ADD R.O. WATER
 Fill stock tank to 50% of final volume

71° F
0 ppm

2

ADD FRONT ROW & MIX
 Start agitation, add total LBS/GAL for final volume, mix for 5 minutes

3

FILL
 Continue agitation while filling to final volume, mix for 10 more minutes

MIXING

The following mixing instructions are based on the 3-2-2 Method. Please see the HOW TO VALIDATE STOCK CONCENTRATE section and Feed Chart QR Code for the traditional values used for even injection ratios based on the 4-3-3 Method. The "#-#-#" refers to bags per drum i.e., 3-2-2 equals per 50 gallons - three-25 lbs bags Part A and two-25 lbs bags Part B and Bloom. Additionally, it is the correct dry to reservoir ratio for the products relative to each other.

With constant agitation, dissolve the recommended amount of this product into approximately half the required final volume of Reverse Osmosis water. Make sure the mixing drill reaches bottom, is run forward and reverse, and creates a very forceful disturbance. Mix for at least 5 minutes. Once concentrate appears solutionized, fill the remaining 50% volume with constant agitation. Mix for at least 10 more minutes. **NOTE: BLOOM is recommended to be used at 1 pound per gallon or 454 grams per gallon of final concentrate volume. See chart in 'How to Validate' and Feed Chart QR code for other options.** Slowly add the remaining water while maintaining constant agitation. Water quality and temperature will determine maximum solubility. Once stock solution has reached room temperature and is solutionized, mix briefly again to prevent scaling. Warmer water temperatures increase solubility and shorten dissolving time. As this product goes into solution, the water temperature will drop. Therefore, it is important when preparing concentrated solutions to compensate for this temperature drop to ensure that the fertilizer is completely dissolved. **DO NOT** exceed weights recommended per gallon. Accuracy should be maintained at ±1 gram.

COMPATIBILITY

BLOOM may be applied separately or in conjunction with most pesticides and other fertilizers. BLOOM is intended to be used with Front Row Part A and B. **DO NOT** use with basic metal sulfates, strong alkaline materials (such as hydrated lime and lime sulfur), oxidizers or paraffinic oils. Front Row Ag Part A, Part B, and BLOOM components each have their own stock concentrate tank. Front Row Ag Part A, Part B, and BLOOM components go direct to the reservoir in the same RTU feed tank. A compatibility test is recommended if the desired combination has not been previously used. Tank mixtures with copper-based products can be phytotoxic due to increased solubility of copper. Before general applications, apply the solution to a small test area of the foliage to determine any undesirable phytotoxic effects. All stock concentrates are designed to be made with Reverse Osmosis (RO) or demineralized water. Recommended Irrigation Water Temperature: 68° F - 72° F, Stock Concentrate Mixing Temperature: 71° F - 85° F, & Stock Concentrate Resting Temperature: 71° F - 75° F.

HOW TO VALIDATE STOCK CONCENTRATE

- From mixed stock concentrate, remove 50 mL and dilute in 1 gallon Reverse Osmosis water.
- Compare results to EC validation value (ms/cm) in the table below.
- Adjust stock concentrate to achieve validation value.

NOTE: Values for stock concentrate and reference solutions are based on 0 ppm source water at room temperature (71° F).

BLOOM	Lbs/Gal	Bags per Drum	EC per 50 mL/Gal
4-3-3 Product Ratio*	1.25	3 Bags/60 Gal	1.53
3-2-2 Product Ratio	1.0	2 Bags/50 Gal	1.22

*Historic values for achieving even injection rates.