

# COMPATIBILITY CHART

## BIOSTIMULANT PRODUCTS MIXED WITH OTHER FERTILIZERS



Rates Per Acre	Urea	Potassium Phosphites (0-28-25)	3-18-18	Potassium Nitrate	Potassium Sulfate	Most Zinc Foliar Products	SeaPlant Extracts	Calcium Foliar Products	Foliar Boron Products	NPK Blends	UAN-32 (32-0-0)	AN-20 (20-0-0)	Ammonium Thiosulfate (ATS)	CAN-17	CN-9	10-34-0	8-8-8	Potassium Thiosulfate (KTS)	Calcium Thiosulfate (CaTS)	6% Liquid Humic Acids from Leonardite																																					
	10 lbs	2 qts	2 gal	15 lbs	2 gal of 0-0-6	2 qts	2 qts	2 qts	2 qts	-	-	-	-	-	-	-	-	-	-	-																																					
	Foliar Applied										Soil Applied																																														
	5	50	100	5	50	100	5	50	100	5	50	100	5	50	100	5	50	100	5	50	100	5	50	100	5	50	100	10	20	30	10	20	30	10	20	30	10	20	30	10	20	30	10	20	30	10	20	30	10	20	30	10	20	30	10	20	30
<b>BenePhite Expand</b> 8 pints	Yellow	Yellow	Green	Yellow	Yellow	Yellow	Yellow	Yellow	Green	Yellow	Yellow	Green	Yellow	Yellow	Green	Yellow	Yellow	Green	Yellow	Yellow	Green	Yellow	Yellow	Green	Yellow	Yellow	Green	Yellow	Yellow	Green	Yellow	Yellow	Green	Yellow	Yellow	Green	Yellow	Yellow	Green	Yellow	Yellow	Green	Yellow	Yellow	Green	Yellow	Yellow	Green	Yellow	Yellow	Green	Yellow	Yellow	Green	Yellow	Yellow	Green
<b>FBS Humate Plus*</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
<b>Water Dilution Ratio</b>																					1:1		1:1		4:1		4:1		4:1		4:1		1:1		1:1		4:1		1:1		1:1		1:1		1:1		1:1		1:1								
<b>Ocean Swell</b> 2 quarts	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
<b>Soil Energy Soybean, Cotton, GGC</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
<b>Soil Energy Soothe</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			
<b>Transit Foliar</b> 15 ounces	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
<b>Transit Soil</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green			

\*FBS Humate Plus is a concentrated, thick viscous 19% Humic Acids product that needs to be diluted with water prior to adding to the final tank mix.



View Chart & Mixing Demonstrations Online

Gallons of Water  
Foliar Applied

5 50 100

Ratio of Fertilizer to FBSciences Product  
Soil Applied

10:1 20:1 30:1

Water Dilution Ratio  
FBS Humate Plus

1:1 2:1 3:1 4:1

Compatible

Green

Compatible

Blue

FBS Harmony Needed

Compatible

Yellow

Opaque Through  
100 Mesh Screen for Foliar  
80 Mesh Screen for Soil

Not Compatible

Red

LEGEND

For information about mixing orders & best practices please see next page.

# 2024 PRODUCT COMPATIBILITY GUIDELINES



FBSciences formulates products with both the crop and our customers in mind. Our products are inspired by nature and designed to be easy to use. Therefore, most FBSciences products are compatible with each other and with a wide range of other fertilizer and crop protection products. It is always wise to perform a standard jar test to double-check compatibility on a small scale before going out to the field. Additionally, tank mix compatibility is impacted by water quality.

## PLEASE FOLLOW THESE FEW SIMPLE POINTS FOR OPTIMAL COMPATIBILITY

### FBS Transit Products

Transit Soil<sup>®</sup>, Transit Foliar<sup>®</sup>, and Drip Transit<sup>®</sup> are compatible with all fertilizers and crop protection chemicals regardless of pH or calcium content. They are also compatible with all FBSciences nutrient products.

FBSciences foliar nutrient products are also compatible with most crop protection chemicals. Ensure the final tank mix pH is in the right range for the crop protection chemicals and in the right compatibility range.

### Phosphorus Products

Phosron<sup>®</sup> Foliar and all fertilizers containing phosphates or phosphites can easily be made compatible with each of our other foliar and soil products by adding a liquid solution of 40% citric acid (like FBS Harmony<sup>™</sup> acidifier). The mixing sequence is important.

- **FOLIAR APPLIED PRODUCTS** Add water, FBS Harmony, Phosron Foliar (or other phosphate or phosphite product), then the balance of the water. Finally, add the calcium and/or metal-containing products while mixing. If the tank is not clarified, additional citric acid can be added; in most cases, the issues are resolved once the pH is between 4.5 and 5. For example, a mix of Phosron Foliar and CellMate<sup>®</sup> Foliar Plus Mo should use the following ratios: 1 part FBS Harmony, 2 parts Phosron Foliar, and 1 part CellMate Foliar Plus Mo.
- **SOIL APPLIED PRODUCTS** Add water, equal amounts of FBS Harmony and Zicron<sup>®</sup> Soil (and/or any FBSciences soil nutrient products) to the tank and add the phosphate fertilizer. The phosphate is added last to aid in mixing; if agitation is available, add the phosphate second. Finally, if required, additional citric acid can be added until the tank mix turns clear. Usually, this happens when the pH reaches about 2.  
**Note:** If the ratio of phosphate fertilizer and Zicron Soil (or other FBSciences soil nutrient product) is 30:1 or greater, no liquid citric solution will likely be required.

### Fertilizers Containing Calcium

FBSciences offers a line of calcium nitrate-compatible products, including ZiCAN<sup>™</sup> Soil, ManCAN<sup>™</sup> Soil, BorCAN<sup>™</sup> Soil, and several others. These products also provide enhanced and longer-term compatibility with our Calron<sup>®</sup> Soil as well as CAN-17 and CN-9. However, if you do not wish to use these, or you wish to use foliar, then use the following as a guideline to achieve a blend that can be successfully field with Zicron Soil and Zicron<sup>®</sup> Foliar (and all the other FBSciences metal-containing products) so long as the product goes out to the field the same day as it is mixed. If not, a little bit of agitation can help the tiny bit of gypsum that forms get re-suspended long enough to be applied. The mixing sequence is important.

- **FOLIAR APPLIED PRODUCTS** Add water first, then add the Zicron Foliar (and/or other FBSciences metal-containing product). Finally, add the other calcium foliar products last.
- **SOIL APPLIED PRODUCTS** Add water first, then add the Zicron Soil (and/or other FBSciences metal-containing product). Finally, add Calron Soil (or other calcium soil products) last.

### Saturated Fertilizers

Some fertilizers like potassium thiosulfate (KTS) or 10-34-0 are so saturated that there is no free water left. All FBSciences products are nearly saturated solutions. Compatibility can be greatly improved by adding water at 10% of the total mix volume to soil-applied tank mixes with FBSciences nutrient products and these saturated fertilizer solutions. FBS Humate Plus is a saturated humic acid solution and should be diluted with water prior to mixing with any other product. See compatibility charts for more details.