



An Agricultural
Sciences Company



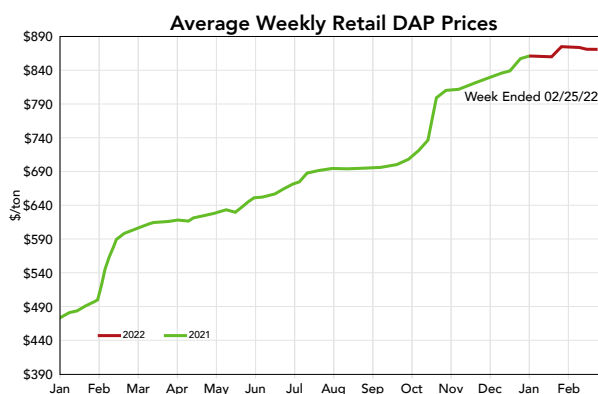
**GETTING THE MOST
FROM YOUR
FERTILIZER PROGRAM.
HOW TO DO MORE
WITH LESS.**

With the cost of fertilizer reaching new highs in 2022, now more than ever, it is time to think of new ways you can meet your crops' nutrients needs.



FERTILIZER PRICES CONTINUE TO RISE

The price of fertilizer mainstays like nitrogen (N), phosphorous (P) and potassium (K) have made unprecedented jumps in response to global supply crisis and logistic cost increases. It seems extremely likely that fertilizers will continue to be in short supply and remain at elevated prices for the foreseeable future.



Source: DTN Retail Fertilizer Trends

ACT, DON'T REACT

Agronomists advise farmers not to react to rising prices and short supplies by engaging in defensive strategies that go against known bio-optimal practices, like applying more inputs than usual, or, at the other extreme, none at all.

Behaviors like these can have a detrimental effect on the environment like leaching, with little to no impact on yield and cause soil lock up. Or in a worst case, can produce outcomes that lead to an imbalance in the available nutrients, making one element a critical limiting factor for the crop.



THINK SMART WHEN IT COMES TO ALTERNATIVES

You wouldn't be alone if the consistent price increases and supply crisis have caught you off guard. While it's sensible to look for ways to protect yourself from unexpected return losses due to the fertilizer market crisis, there are additional avenues to explore in terms of meeting nutrient needs and hedging costs. These may include the introduction of foliar applied fertilizers – based around both macro and micronutrient formulated products. With these targeted foliar inputs, focus is placed on the crop at key growth stages, with application timing playing a critical role in the optimization of the outcomes.

RESPONSE OPTIMIZATION

There are definitely critical periods for input. Timing and placement are key factors when focusing on adding alternative nutrients to see the biggest impact. For example, it is appropriate to consider the foliar application of focused N, P or K inputs during critical growth times for the crop.

SUGGESTED SUPPLEMENTS

FOLIAR CROP NUTRITION PRODUCTS WITH NPK FOCUS*

■ Vertex Hi N™

35% Nitrogen, plus Mg, Mn and Cu
Important for plant vegetative growth

■ Hi-Phos®

44% P, plus K and Mg
Important for root growth and in the manufacture and use of sugars and carbohydrates

■ Kurus®

36% K
Important for water balance and produce quality

PRODUCTS WITH A BALANCED NPK SOURCE

■ Foliar Extra

Contains N, P + K with balanced range of micronutrients
Contains a balance of all key elements needed for optimal growth

PRODUCTS FOR MICRONUTRIENT INPUT

■ Bo-La®

15% Boron and 0.75% Molybdenum
Beneficial for fruit set (pollination) and improved nitrogen uptake

■ Multiple Pro

A balance of crucial micronutrients
Are required in small amounts, but critical to crop growth and development



* Products are not registered for sale or use in all countries. No offer for sale, sale, or use of this product is permitted prior to issuance of the required governmental regulatory approvals.

USE WHAT YOU ALREADY HAVE

With fertilizers already in short supply and shipping challenges on the rise, it is important to utilize what you already have and maximize how plants use remaining soil nutrients. For example, when a soil applied input “holiday” is proposed, the focused foliar application of products high in macro elements can, when applied at a critical growth stage, help to off-set reduction in soil-applied material. Or by applying magnesium and manganese, the plant’s assimilation of any residual nitrogen in the soil can be greatly improved and thereby show a more positive result in overall crop growth.

It can be highly beneficial for farmers to make investments in focused nutrient inputs through foliar applications, targeting both macro and micronutrients. Such foliar applications of macro and micronutrients can help mitigate any potential negative effects of bulk fertilizer input holidays.

GOOD DECISIONS YIELD BETTER RETURNS

Making the most of every input has never mattered more in terms of return, making it critically important to think about optimizing crop nutrition in these challenging times. It is therefore highly recommended to carry out soil and/or tissue analysis before investing in any fertilizers to assure you are meeting plants most important needs. And if you are currently impacted by rising prices and continued supply issues, your regional FMC representative can work with you to find the best way to minimize the impact on your bottom line.



Seamac Rhizo

- Maximises tolerance to abiotic stress
- Improves production and quality
- Improves the ability of nutrient uptake in the soil or rhizosphere
- Stimulates root development

Seamac® Rhizo is a trademark of FMC corporation or an affiliate.

STRESS MANAGEMENT

Abiotic stresses (such as those caused by environmental conditions like drought, heat, cold or salinity) can have a negative impact on crops when nutrients are imbalanced or simply unavailable. Biostimulants can help combat stress through strategic application in lower nutrient status situations. Contact your local FMC representative to discuss the range of biostimulant options available for application.

PRODUCTS FOR STRESS MANAGEMENT

■ Seamac® Rhizo

A unique blend of amino acids, nutrients and seaweed that is designed for the alleviation of abiotic stress across a wide range of crops.