

Benefits of a Foliar Feeding Program Based on Chandler Foliar

Product Summary

Chandler Foliar is a non-toxic liquid plant food containing micronutrients and biostimulants that promote efficient plant growth. The product is applied to plants as a foliar spray, and the nutrients and other components are provided in forms that are readily available to the plant. Chandler Foliar is also designed to enhance the availability of applied nutrients and to help the plant increase the uptake of soil nutrients.

Regular use of Chandler Foliar in conjunction with your normal fertilizer program will improve plant growth by stimulating nutrient uptake. Chandler Foliar also increases plant sugar content, boosts plant performance under nutrient deficiencies, helps plants to tolerate drought and other unfavorable weather conditions, improves plant vigor and yield potential, and reduces problems with plant pests and diseases.

How to Apply Chandler Foliar

Chandler Foliar may be applied to plant foliage with conventional ground or aerial spray equipment and is non-phytotoxic when used as directed. Chandler Foliar may be applied by itself or in a tank mix with other products, and the product is compatible with most commonly used liquid fertilizers and herbicides. We recommend that you test all new tank mix combinations for compatibility before application. The recommended application rates vary by crop and range from 6-10 ounces per acre (see the details below). In general, you should apply Chandler Foliar with enough water to provide good coverage of the plant foliage. The product may also be applied with newer spray equipment that uses lower water flow rates.

Application Rates and Timing for Midwest Field Crops

Alfalfa --- for **new alfalfa seedlings**, apply 10 ounces per acre. For an **established crop**, apply 10 ounces per acre at the first burst of spring growth. Later, apply 10 ounces per acre within 10-14 days after each cutting. For **seed production**, apply 10 ounces per acre just prior to flowering.

Oats --- apply 8 ounces per acre at the second to third leaf stage.

Soybeans --- for beans **planted in rows**, spray 6 ounces per acre in a band over the row at the second to third trifoliate leaf stage. For **drilled soybeans**, broadcast 10 ounces per acre at the second to third trifoliate leaf stage. A second foliar application at the same rates can be made three weeks later (perhaps at the same time as a second chemical pass).

Spring wheat --- apply 8 ounces per acre at the second to third leaf stage. Later, apply 6 ounces per acre at Feeke's stage 8 (flag leaf stage).

Winter wheat --- in the fall, apply 8 ounces per acre at the second to third leaf stage. In the spring, apply 6 ounces per acre at the beginning of new plant growth or tillering.

Pasture --- apply 8 to 10 ounces per acre at any time there is ample new growth of foliage.

Per-Acre Costs of Chandler Foliar Treatments

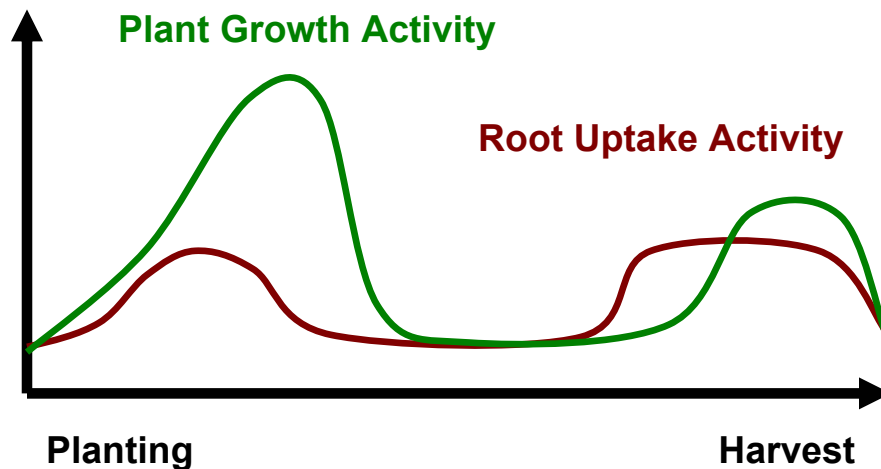
The per-acre cost of each treatment depends on the recommended application rate. At the full retail price per gallon, Chandler Foliar costs \$5.33 per acre at the 6 ounce rate, \$7.00 per acre at the 8 ounce rate, and \$8.75 per acre at the 10 ounce rate. Prices are subject to change without notice, and you can reduce the per-acre cost if you purchase the product in larger unit sizes or during our seasonal discount programs.

Application Timing is Very Important for Chandler Foliar

Unlike humans, plants do not have a central nervous system and rely on hormones and other compounds to control growth and other plant functions. The biostimulants in Chandler Foliar are designed to enhance the actions of these natural compounds in order to generate more vigorous plant growth from the available nutrients and other soil resources. As illustrated in the figure below, the activity generated by these plant growth functions (green line) and nutrient uptake functions (brown line) take place at different times.

Chandler Crop Products are designed to work together in order to support plant growth activities from planting to harvest. During the early part of the growing season, Chandler Dry Seed Treat helps generate high levels of root and plant growth and nutrient uptake that lead to vigorous and healthy seedlings. Chandler Foliar is designed to build on these early benefits by promoting nutrient uptake during the peak stages of plant growth that occur well after the initial stages of seedling emergence and growth. Finally, Chandler Soil and Biocat 1000 make water and other soil nutrients available throughout the entire season.

Due to the differences in growth stages across plant types, the timing and application rates for Chandler Foliar vary by crop, and the timing of the Chandler Foliar application is very important for success. If the product is applied too early or too late in the growing season, the biostimulants in Chandler Foliar will not have a chance to assist the plant functions during the critical stages of growth. Accordingly, you should follow the recommended application rate and timing guidelines for specific crops (see the previous page) in order to achieve the greatest benefit from Chandler Foliar.



Recent Yield Reports from Chandler Foliar Users:

- Some users apply Chandler Foliar to soybeans when they spray their post-emergence pesticides. Two users recently conducted side-by-side field trials in which part of the fields sprayed with herbicides were also treated with Chandler Foliar. In the first trial conducted in North Central Illinois, the beans treated with Chandler Foliar yielded 69.34 bushels per acre, and the untreated soybeans yielded 56.67 bushels per acre (22.4% increase). In the second trial conducted in Central Illinois, the treated beans yielded 72 bushels per acre and the untreated beans yielded 66 bushels per acre (9.1% increase).
- A user in North Central Illinois made two post-emergence herbicide applications on soybeans. For part of the field, he included Chandler Foliar in the tank mix on both trips. The beans treated with Chandler Foliar averaged 77 bushels per acre, and the untreated bean yield was 60 bushels per acre (28.3% increase).
- University field trials show that Chandler Foliar increased soybean yields by 14.4%, alfalfa yields by 22% to 30.6%, and rye grass yields by 35.2% to 101.9% over the untreated plots.