How to Help in Hail Damage Recovery
Foliar fertilization can help minimize losses due to hail damage

Active weather can result in various forms of physical damage to crops. Though severe hail damage is typically disastrous to a crop, minor to moderate hail injury can be recovered if managed correctly and in a timely manner. Foliar fertilization with key nutrients, along with stress tolerance enhancing technologies can allow hail-impacted crops to repair damaged tissue and mitigate any internal physiological repercussions of the hail event. It is fundamental to hail recovery that crops have easily access to required nutrition and are able to repair wound sites quickly in order to prevent disease from entering the crop through compromised tissue.

Two Steps for Hail Damage Recovery

1. Provide the Nutrition Needed for Recovery

   Potassium – Maximizing nutrient availability and pathogen defense
   Magnesium – Rebuilding chlorophyll (energy factories)
   Calcium and Boron – Rebuilding damaged tissue

2. Maximize Crop Stress Tolerance

Crops use built-in internal mechanisms for self-defence against physical damage, pathogen attack, and other stresses. These mechanisms are part of the SAR (systemic acquired resistance) pathway. NutriAg has developed ACE™ (Active Cell Elicitors) technology to maximize these internal stress tolerance mechanisms. ACE technology works with natural plant processes to enhance hail damage recovery and to boost the crops ability to withstand potential disease attacks.

Foliar Fertilizer
What to apply when hail damage occurs

NutriAg’s Alexin® provides the much needed foliar nutrition complexed with PAC™ technology for efficient foliar uptake. This is combined with the stress tolerance boosting benefits of ACE technology to give crops the help they need.

When phosphorus is needed, use NutriAg’s TruPhos Line of products
The Role of Key Nutrients in Hail Recovery

When hail injury occurs plant tissue is physically damaged, which not only reduces photosynthesis and energy production in the crop, it also opens the crop up to pathogen attack. A key aspect to hail recovery is quick and efficient repair of compromised tissue. Crops are able to do this if they have access to some essential crop nutrients. Potassium, magnesium, boron and calcium, are key nutrients for hail recovery. Potassium is involved in crop stress tolerance mechanisms by facilitating proper water and nutrient movement as well as providing pathogen defense benefits. Magnesium is central to chlorophyll production and is therefore a key component to photosynthesis. Kick starting the repair of photosynthetic tissue – the energy factories of crops - requires the availability of sufficient magnesium. Calcium and boron are fundamental to cell wall integrity making them essential to rebuilding cells and repairing the physical damage of the hail. The foliar application of key nutrients is the most efficient means of provided hail-damaged crops with the nutrition they need to recover.

Boosting Crop Stress Tolerance

NutriAg’s ACE technology is made up of specialized organic acids that stimulate the plant’s natural defense mechanisms to enhance abiotic and biotic stress tolerance, improving crop health and yield.

Ask Us

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