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From: Denny Wildman
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To: Denny Wildman
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▶ **Roots, Shoots, and Fruit**

Agronomic Tips from Denny Wildman



Fall Grains, Energy Flow and the "Sugar Sisters".

As a progressive grower, I'm certain that the concept of directing the flow of energy in a plant is relatively new to you. Knowing that it's possible is the easy part, but knowing **how to make it happen is the real value.**



Today, we will focus on the process of increasing your crops yield potential by building stronger crowns and roots, preserving overall plant strength, and preparing the plant to endure the winter.

It's all about slowing plant respiration and directing energy from the growing tips to the Crown and Roots.

Yes, cooler temps do promote the redirection of energy, **HOWEVER,** with today's temperature swings, many times plants are growing right into a freeze. Even in the most ideal seasons, a Fall foliar application to redirect energy to the crowns and roots is of **GREAT VALUE.** These applications help growers to achieve greater yield potential by

assisting nature in storing plant food in the Fall for later release the following Spring.

Much is written about the subject, and most would consider it impossible to talk about in a short e-mail. But we're going to do it anyway – and here's how.

We're going to talk about a few **"WHAT IF"** situations with fall grains and the practical application of **SUGAR MOVER** and **SUGAR POWER** (we call them the **Sugar Sisters**) that you can apply right now to manage energy flow the following Spring.



In today's agriculture, our goal is to preserve genetic expression which leads to greater yield.

OUR GOAL for SMALL GRAINS is to have appropriate tiller numbers formed which, if ideally managed, look similar to the mother. If this is spot on, we have a great start.

SUGAR MOVER and SUGAR POWER are the "SUGAR SISTERS"

In the Fall, the **Sugar Sisters** work together as **"Traffic Cops"** to direct the flow of plant energy off the streets and into the parking lot, where the energy can be "stored" until Spring.

The **Sugar Sisters** work together to get the plant to **SLOW DOWN** by utilizing the strategically selected components contained in **SUGAR MOVER** and **SUGAR POWER**.

Sugar Mover

- Supplies Boron, the effect being the support of Auxin.
- Is well documented to wake up **sugar transporters** and **key enzymes** to promote food transport to where ever food is being called for.
 - Supplies Molybdenum which is essential to assisting conversion of nitrate nitrogen in the plant leaves.
- Assists the plant to move into hibernation.

Sugar Power

- Directs energy away from the tips of the plant leaves.
- Assists the speed of energy transport, from the SHOOTS to the ROOTS.

WHAT IF... you have a

WEATHER EVENT or have **UNDESIRABLE GROWTH**

When the weather turns warm, plants go into "let's grow vegetation" mode. Driven by nitrate nitrogen, the Auxin production is low which causes the plant to grow more. It's the plants way of balancing the Auxin-Cytokine ratio. No two years are the same, so it's up to us to manage the differences.

Due to these conditions, nutrients such as Boron, Calcium, Molybdenum often become insufficient. Manganese and Copper may also be issues.

Excessive nitrogen is often a problem, and may be residual in the soil. Plus, applied nitrogen in the form of nitrate will rush into the plant. This causes a cytokine burst in the plant – and often results in undesirable growth. As an outcome, this excessive top growth limits the plant energy available for direction toward the crown and root – a serious problem because the health of the crown and roots helps the plant to survive the winter.

As growers, you have the Sugar Sisters to help you manage the plant. Here's the recommendations to redirect plant energy down to the crown and roots:

	Wheat / Fall Grains	Alfalfa
Sugar Mover	1 pt/ac	3 pt/ac
Sugar Power	2 qt/ac	1 qt/ac
Options:		
Keylate Moly	8 oz/ac	8 oz.ac
MP Manganese	0-1 pt/ac	0-1 pt/ac
MP Copper	0-1 pt/ac	0-1 pt/ac

Note:

When you evaluate your fields it's possible that 2-4 qt/ac of Sugar Power may be valid.



Get to know the “Sugar Sisters”

As a combo application,

SUGAR MOVER and **SUGAR POWER**

are the most effective tool in your tool box to redirect energy from the plant top toward the crown and roots.

A Few Notes:

- The option of adding urea mate at 2.5 – 5 lbs/acre would support Calcium, Manganese, and Copper supply as well as other nutrients.
- Another consideration is the phosphorus that is available to the roots. Phosphorus is a most valid nutrient – and useful in managing energy flow because plant energy flows away from phosphorus. **(Sugar Power)**
- Sugar Mover and Sugar Power are products of StollerUSA.



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