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## **Roots, Shoots, and Fruit**

*Agronomic Tips from Denny Wildman*



### Establishing High Yield Wheat



**Hello all.**

To many growers in the eastern states, wheat is the red-headed step child to corn and soybeans. It's yield potential and value to a grower is often misunderstood, or flat out not considered as a viable crop.

**Ask a farmer** who considers wheat a viable crop why it's included in his rotation and you'll likely get a frown and a quick "it works for me".

**Many growers** have experienced that traditional approaches to weed management are not working like in the past. Progressive growers are learning that adding wheat into the crop rotation often makes it a little easier to deal with resistant weeds. This benefit happens because wheat requires the use of different chemicals and timing of product applications.

When included in a corn & soybean rotation, wheat may be adversely affected by the residual effect of the multiple herbicide treatments used on the prior crop. As a proactive measure to handle this, an application of **Bio-Forge ST** or **Bio-Forge** will assist the plant in healthy root and shoot development. From germination through emergence, and beyond, the Bio-Forge formulation gives wheat a head-start and effectively demonstrates less root and shoot stress.



**Let's talk about roots and their relation to soil structure.** We know that corn produces a vivacious root system. Wheat also produces an aggressive root system with the added benefit that a cover crop provides. Not only does wheat contribute to enhanced soil structure but it also produces a harvestable crop. Again, **Bio-Forge**, **Stimulate**, and **X-Cyte**, from the Stoller tool box provide a very positive influence on productive root & shoot growth.

Dry fertilizer is most often applied to support structural development of the plant. Everyone has a goal of improved nutrient recovery and, since the days of Agway, the process of impregnating Stoller's **Stimulate** to dry fertilizer has demonstrated significant value in root extension and diffusion through the soil.

In recent years, the addition of **X-Cyte** to the Stimulate impregnation process has taken wheat performance to a whole new level – especially when planted into heavy soil or other less than ideal soil conditions.

And, then there's the enhanced biological benefit that's available with the addition of the **SP-1** product to traditional fertility programs.



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**SP-1™, when used in combination with your traditional fertility program is a real POWERHOUSE**



Checkout the video ([click here](#)) where Aaron Koss and Kirk Zinkievich talk about the benefits of adding **SP-1** to a growers fall program.

I'll say it again... I have yet to find a compound that is as effective in improving soil structure as rapidly as including **SP-1** in a crop program. (GFS /Boss)

In the wheat field trial, SP-1 was used with X-tra Power and Bio Forge applied in-furrow. SP-1 increases biological activity and soil test values will often trend upward, especially with Potassium, CEC, and Calcium. [\(click to see test at right\)](#)

Sample No.	Lab No.	Sample	CEC	Ca	K	Mg	Na	Cl	NO <sub>3</sub> -N	SO <sub>4</sub> -S	PH	EC	Temp	Moisture	Organic	OM	OM <sub>h</sub>	OM <sub>l</sub>	OM <sub>v</sub>	OM <sub>t</sub>
CECC	1410210	1410210	4.7	7.1	2.1	150	177	0	102.1	1123.0	8.1	1.5	11.6	18.4	1.34	1.34	1.34	1.34	1.34	1.34
SP1	1410211	1410211	4.5	6.1	2.2	164	215	0	173.0	1320.5	8.5	4.5	13.7	36.0	1.34	1.34	1.34	1.34	1.34	1.34

Increases: → 14<sup>k</sup> 26<sup>a</sup> 47<sup>k</sup>

In summary, the POWERHOUSE blend sets the wheat up to produce a substantial yield for the growers we serve. For example, Aaron Koss reported a **15b/acre** increase on his recent wheat trial.

**Here's a few recommendations:**

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**Bio-Forge ST (2oz/cwt) and/or** ..... **Crucial to relieving plant stress**

**Bio-Forge (2-4 oz/acre**

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**Stimulate (4oz/acre impregnated)** ..... **Enhanced Root Extensions**

- or -

**X-Cyte (10oz/acre) and Stimulate (2.5oz/acre)**

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**SP-1 (1.5 - 4 gallon/acre)** ..... **Supports Improved Soil Health**

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