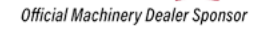




What it Takes to Raise 100-Bushel No-Till Soybeans

Bryan Severs

Illinois Farmer





3rd Generation Farmer

Switched to no-till in 2013
No-Till Non-GMO Soybeans
Strip Till Corn

Farms with sons Michael and Nicholas

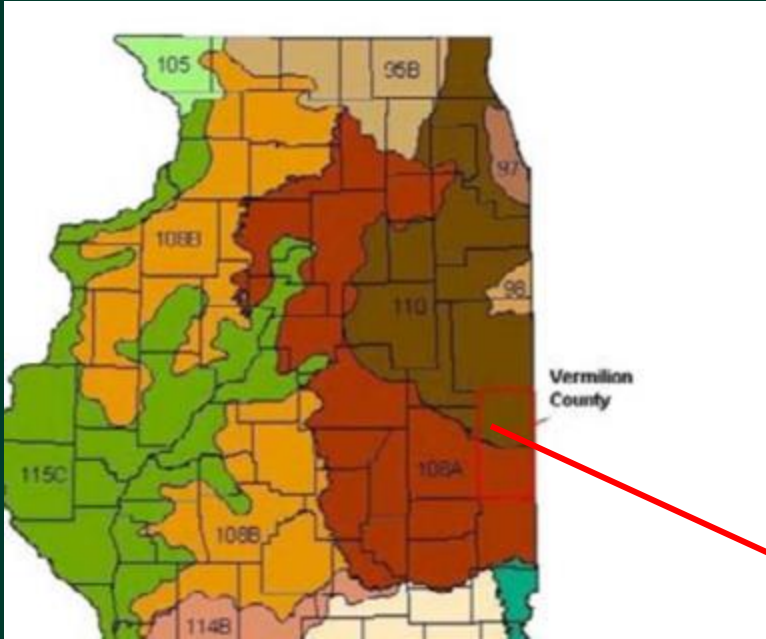
Potomac, IL

**Please ask questions
throughout presentation!



GOAL every year OVERALL 75 bu

2021 achieved 102 bu (Pioneer 34A50)



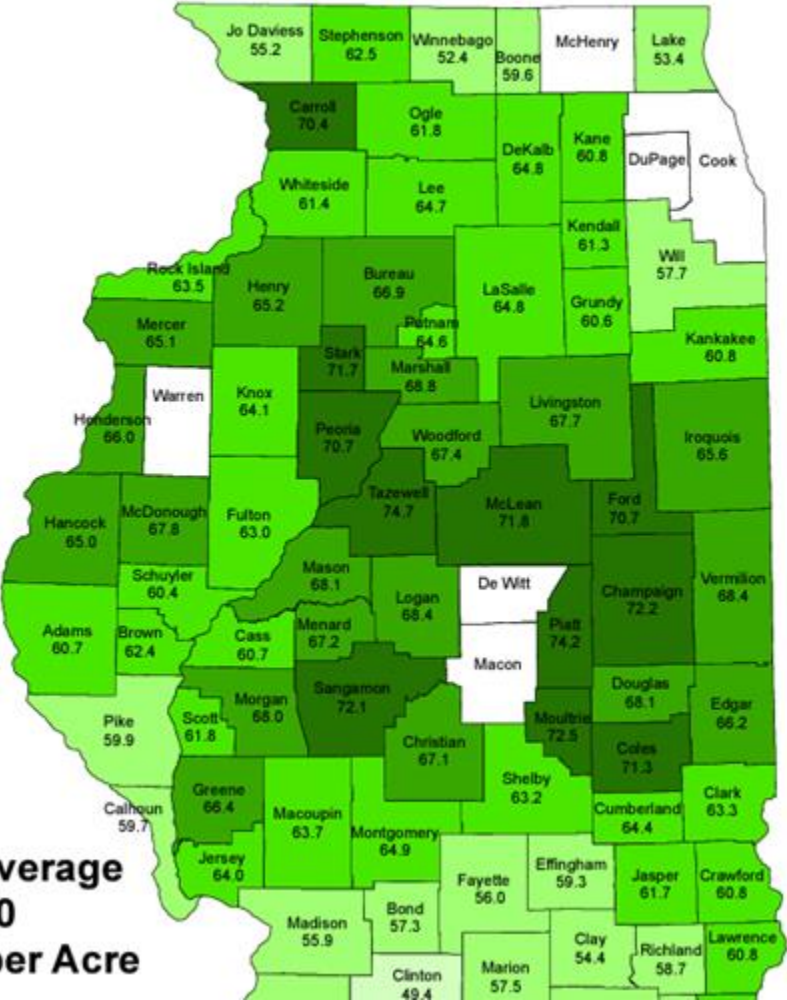
146A—Elliott silt loam

232A—Ashkum silty clay loam, 0 to 2 percent slopes

Northern Illinois and Indiana Heavy Till Plain

Like much of Illinois, Vermilion County has some very fertile farmland. Agriculture has been the dominant land use for decades. In 2002, farmland still made-up 78 percent of the county (U.S. Department of Commerce, 2002).

2023 Illinois Soybean Yield Estimates



**Illinois Average
63.0
Bushels per Acre**

Why No-Till

TIME

Soil Health

Keep it simple



Tillage in Illinois- Challenges

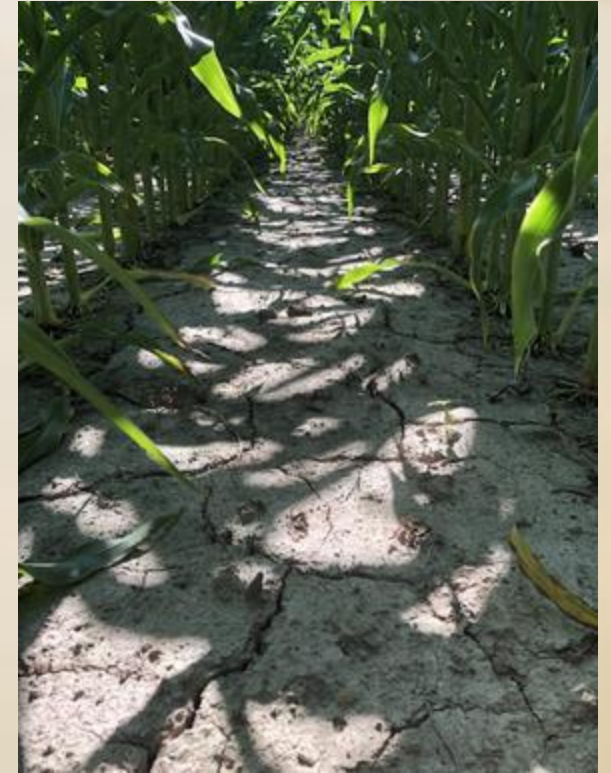
Water



Soil Structure



Soil Health



Equipment Reference

John Deere DB60 (40-foot
32-row)



Claas Lexion 750

Hagie STS20 high
clearance sprayer



Planting

Population: 140,000

Early Planting

Fall Notes: BASED ON SOIL TESTS & Variable Rates

MAP, potash, humic acids immediately after corn harvest

2 Planters with Precision Planting attachments- hydraulic downforce, row cleaners, vSets seed meters

**heavier duty spiked closing wheel on soybean planter





Planter adjustments: hydraulic downforce, row cleaners, vSets seed meters





Seed Treatment

Corteva Lumisena

Bayer EverGol

Gaucho

Pioneer Lumigen 2030

BASF ILEVO

Ensure germination with temps below 50 degrees

**NOTE **102bu beans- Planted April 1, 2021
15-inch rows**



Challenge NON-GMO! Weeds!



4 total passes

Applying herbicide, fungicides, insecticides, foliar fertilizers (**highlighted fertilizer**)

Pass	Time	Applications
1	Before Planting	BASF Zidua PRO, Helm Reviton, Metribuzin, Helena Agri-Enterprises Fire Zone
2	21 Days After Planting	Helena Sinister and Tap Out herbicides, BASF Outlook post residual, Helena Megafol foliar fertilizer , Helena Agri-Dex surfactants, ammonium sulfate (AMS)
3	Around R2	BASF Priaxor and propiconazole fungicides, Helena Tempest insecticide, 10-0-10 potash and nitrogen
4	2 Weeks Later	Stoller Bio-Forge Advanced foliar fertilizer and another round of 10-0-10

Clean Corn Fields = Clean Soybean Fields

Sprays corn 3 times

KEY- owning a sprayer



What's next:

Strip Till Soybeans?
Starter on Soybeans
Cover Crops



Research Available



Focus on Agronomy in an Economic Downturn

In her latest blog, Stephanie Porter highlights how strategic agronomic decisions can help farmers navigate rising input costs and low commodity prices.



How Much Do Crop Residues Feed the Following Crop's Nutritional Needs?

Dr. Andrew Margenot



WEBINAR BIOLOGICALS: ARE THEY A BARRIER OR A GAME CHANGER?

22 JAN, 2025

10:00 AM

CCA CREDITS AVAILABLE!



DR. MALLORY CHOUDOIR

ASSISTANT PROFESSOR & SOIL MICROBIOME
EXTENSION SPECIALIST AT NC STATE UNIV.



DR. LAURA LINDSEY

PROFESSOR OF SOYBEAN AND SMALL
GRAINS AT THE OHIO STATE UNIV.

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<https://fieldadvisor.org/webinars/>

Participate in 2025 Trials

Illinois Soybean Association (ISA) is seeking farmer cooperators for the 2025 growing season to participate in on-farm trials. ISA is coordinating research to evaluate the yield impact of soybean sulfur fertilization across different environments in Illinois. Additionally, ISA is partnering with Dr. Nick Seiter on a study examining the return on investment from insecticide seed treatments or foliar insecticide applications. Cooperators will compare their preferred insect control methods with untreated control plots

A close-up photograph of a hand holding a green pea plant. The plant's root system is exposed, showing a dense network of roots and soil. The background is a warm, golden-brown color with a bokeh effect, suggesting a field of plants. The text "Thank You!" and "Questions" is overlaid on the left side of the image.

Thank You!

Questions