

FIGHT BACK WITH EXCAVATOR

EXCAVATOR[®]

CROP RESIDUE BREAKDOWN
& NUTRIENT RELEASE AID

FIGHT BACK WITH EXCAVATOR[®]

EXCAVATOR by Meristem Crop Performance is specifically designed to break down crop residue in the field, improving planter performance, creating stronger stands and releasing valuable nutrients to feed the crop.

30 days after EXCAVATOR application



WITH



WITHOUT



EXCAVATOR Trial Data

Conducted by Ed Corrigan

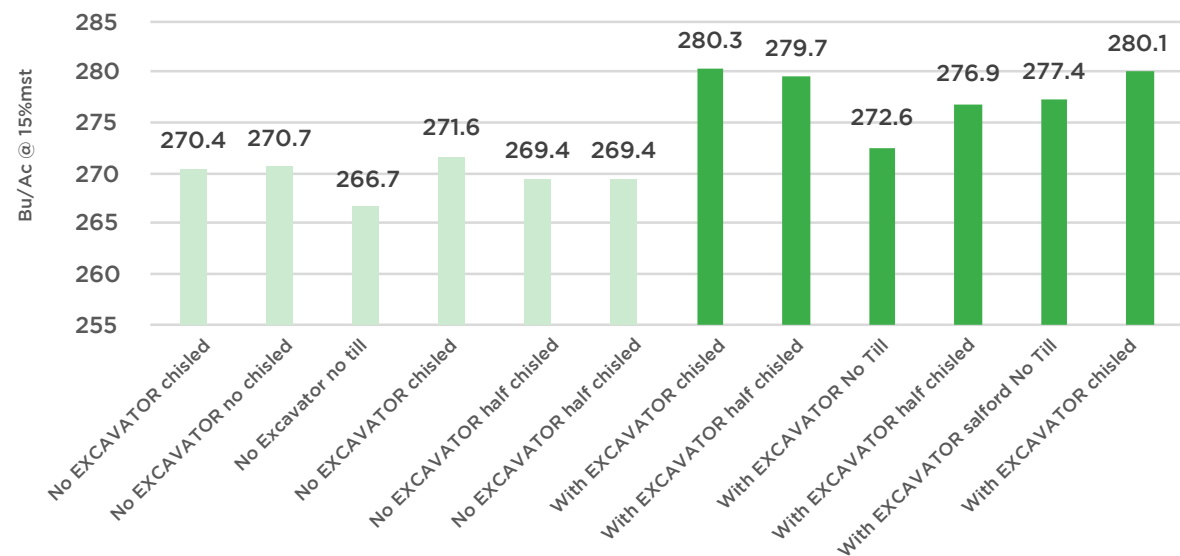
Trials were on a 40 plus years of corn after corn with various tillage systems compared with and without EXCAVATOR applied after harvest last fall and chiseled into the soil.

- 28% was the source of Nitrogen applied at planting with a rolling coulter bar, 160 units per acre with NBT added
- 44,000 population per acre was dropped on 30" rows
- Dekalb 64-34



EXCAVATOR[™] TRIALS

40yrs Corn on Corn



Source: 2022 BRANDT, research by Ed Corrigan



POWERED BY



EXCAVATOR is proven to be a world class fertilizer. The patent-pending formulation of EXCAVATOR is the only product on the market powered by the MICROBILIZE[™] Microbe Technology Delivery System. This system provides the ideal carrier to ensure that microbes stay alive in the jug and have the optimum conditions to begin multiplying and breaking down residue.

The consortium of microbes included in EXCAVATOR are specifically designed to digest crop residue and cycle nutrients back to the soil profile. Additionally, these microbes build improved soil tilth, reduce disease pressure and generate overall increased biological activity.

3:1 RETURN ON INVESTMENT

Through multi-location/multi-state research trials, EXCAVATOR has proven to deliver a 3:1 return on investment through one or a combination of the following benefits.



Breaking down residue faster will allow faster planting, stronger stands and fewer skips

\$25/ac



Less tillage required

\$18/ac



More nutrients available early

\$39/ac



Improve soil health

12%+
in soil health index

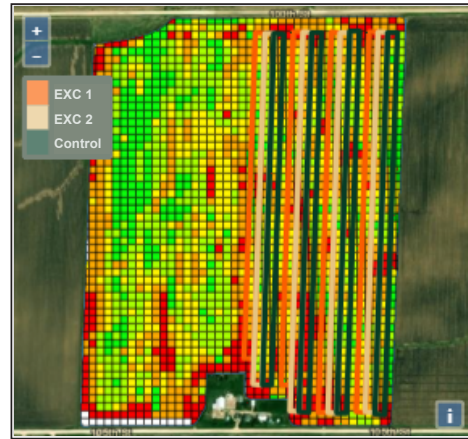


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EXCAVATOR ON CORN STALKS, FOLLOWED BY CORN

Northeast Iowa
High Level Yield Heat Map

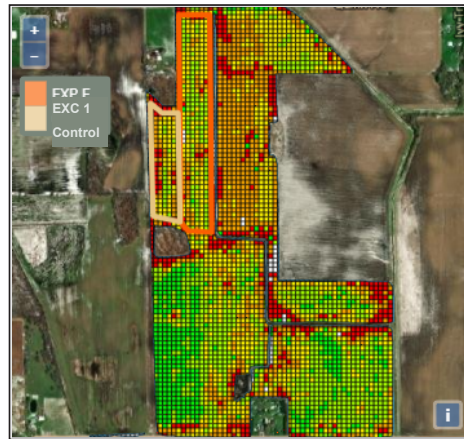


Yield Values	
no data found	
16.6 - 195.9	
195.9 - 223.5	
223.6 - 234.3	
234.3 - 245.4	
245.5 - 363.8	

Yield Summary BPA	
Location	Yield
EXCAVATOR Trial 1	223.6
Control	217.9
Yield Response	5.7

Yield Summary BPA	
Location	Yield
EXCAVATOR Trial 2	219.2
Control	217.9
Yield Response	1.3

North Central Indiana
High Level Yield Heat Map

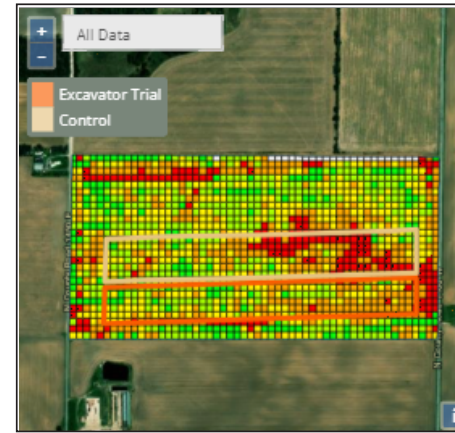


Yield Values	
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10.8 - 125.9	
125.9 - 174.5	
174.5 - 203.0	
203.0 - 232.2	
232.2 - 374.1	

Yield Summary BPA	
Location	Yield
EXCAVATOR Trial 1	190.6
Control	167.2
Yield Response	23.4

EXCAVATOR ON COVER CROPS, FOLLOWED BY SOYBEANS

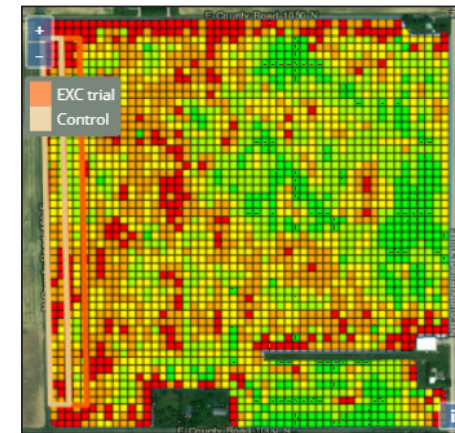
Northwest Indiana
High Level Yield Heat Map



Yield Values	
no data found	
6.3 - 62.8	
62.8 - 73.8	
73.8 - 78.2	
78.2 - 83.6	
83.6 - 107.2	

Yield Summary BPA	
Location	Yield
EXCAVATOR Trial	75.1
Control	69.9
Yield Response	5.2

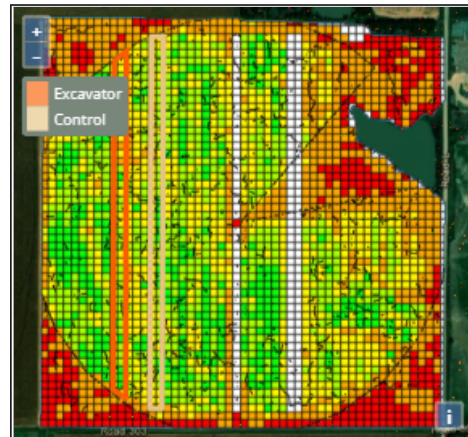
Northeast Indiana
High Level Yield Heat Map



Yield Values	
no data found	
5.5 - 60.2	
60.2 - 67.0	
67.0 - 71.4	
71.4 - 76.8	
76.8 - 92.0	

Yield Summary BPA	
Location	Yield
EXCAVATOR Trial	66.2
Control	64.3
Yield Response	1.9

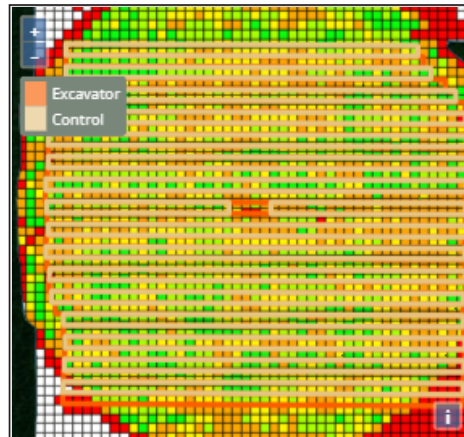
Southern Nebraska
High Level Yield Heat Map



Yield Values	
no data found	
14.8 - 129.2	
129.6 - 255.4	
255.5 - 285.5	
285.5 - 305.0	
305.2 - 347.3	

Yield Summary BPA	
Location	Yield
EXCAVATOR Trial	290.3
Control	281.9
Yield Response	8.4

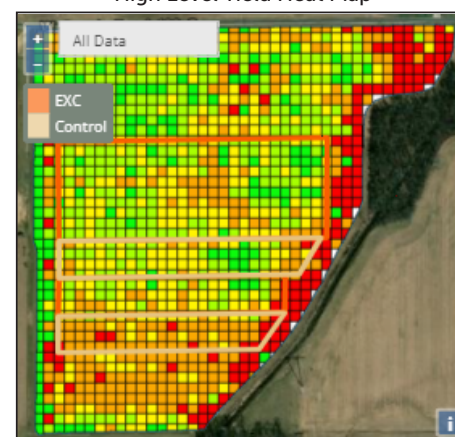
Northeast Nebraska
High Level Yield Heat Map



Yield Values	
no data found	
0.0 - 181.9	
182.2 - 227.9	
227.9 - 237.0	
237.0 - 246.0	
246.0 - 302.3	

Yield Summary BPA	
Location	Yield
EXCAVATOR Trial	234.2
Control	232.4
Yield Response	1.8

Southeast Indiana
High Level Yield Heat Map



Yield Values	
no data found	
10.3 - 58.3	
58.4 - 67.2	
67.2 - 71.0	
71.0 - 75.3	
75.3 - 133.4	

Yield Summary BPA	
Location	Yield
EXCAVATOR Trial	70.5
Control	67.2
Yield Response	3.3

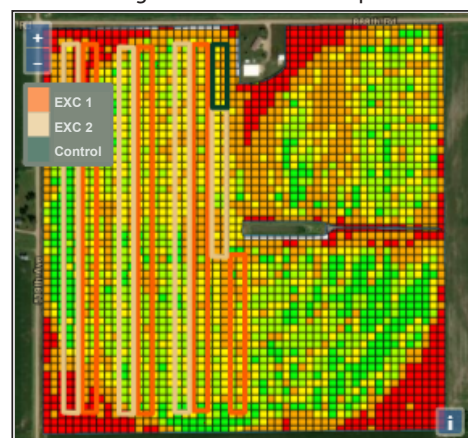


ON AVERAGE, EXPECT +2-3 Bu/AC

ON AVERAGE, EXPECT +5-8 Bu/AC

EXCAVATOR™ ON CORN STALKS, FOLLOWED BY SOYBEANS

Northeast Nebraska
High Level Yield Heat Map

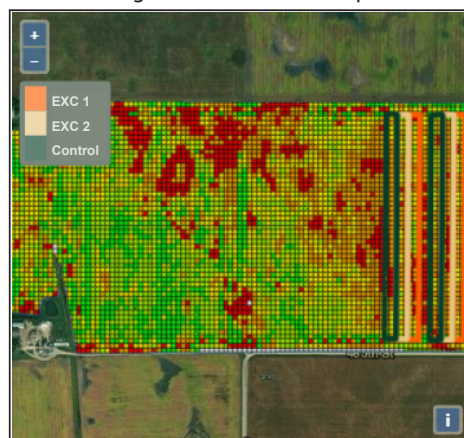


Yield Values	
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5.1 - 51.6	
51.7 - 77.5	
77.5 - 81.7	
81.7 - 85.8	
85.8 - 110.1	

Yield Summary BPA	
Location	Yield
EXCAVATOR Trial 1	78.6
Control	74.2
Yield Response	4.4

Yield Summary BPA	
Location	Yield
EXCAVATOR Trial 2	79.3
Control	74.2
Yield Response	5.1

North Central Iowa
High Level Yield Heat Map



Yield Values	
no data found	
0.1 - 57.5	
57.5 - 64.5	
64.5 - 68.6	
68.6 - 73.2	
73.2 - 124.8	

Yield Summary BPA	
Location	Yield
EXCAVATOR Trial 1	64.6
Control	62.7
Yield Response	1.9

Yield Summary BPA	
Location	Yield
EXCAVATOR Trial 2	63.5
Control	62.7
Yield Response	0.8

ON AVERAGE, EXPECT +2-3 Bu/AC

FEEDBACK FROM THE FIELD



"I sprayed EXCAVATOR with my spring burndown on our corn stalks. We then no tilled the beans. Managing residue is a huge part of planting beans early. At harvest we saw a +4 bu/AC advantage. The product was easy to use and simply worked. This coming year we will do quite a bit more EXCAVATOR even on some of our bean stubble"

Eric Wolfer, Ohio



"We're seeing good results with Meristem's EXCAVATOR. We've used it as a spring-applied and also sprayed 4,000 acres with it this past autumn. We often follow corn with potatoes, edible beans or peas and it's hard to keep those cobs and crowns out. It makes harvest really difficult. With EXCAVATOR, we're definitely seeing the residue degradation going on and the bump in nutrients for the next crop."

Gary Barten, Wisconsin

"You could feel the difference under your feet in the field. It was one of those "no way" moments. If you would have pulled those samples from both control and EXCAVATOR and gone off to your own lab and brought me those results, I would have said it was just your propaganda. But we pulled our own samples and sent it to our lab and it showed this big difference. Meristem was completely out of that loop. Given our weather challenges in the spring, this is a good win for us."

Mike Jenks, Iowa