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## **INOCULANTS, SEED TREATMENTS & MORE MONEYMAKING NO-TILL SOYBEAN TIPS**

# WHY I TREAT MY TREATED SEED

Seed Treatments have come a long way, we do what's best for the crop.



# CHEMICAL 21 DAYS BIOLOGICAL SEASON LONG



**CAPTAN IS ONE OF OUR OLDEST CHEMICALS  
AND IT IS STILL EFFECTIVE ON MUCOR WHERE  
LITTLE ELSE IS**



# MUCOR FUNGUS IS A SILENT KILLER IN NOTILL

- ✘ Cause millions of dollars of loss a year for farmers!



# MUCOR

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*Mucor* is a genus of about 3000 species of molds commonly found in soil, digestive systems, plant surfaces, and rotten vegetable matter.

**PYTHIUM, FUSARIUM AND RHIZOCTONIA ARE  
OUR PRINCIPAL SEEDLING KILLERS.**



# PINE CONE THEORY PRODUCED STROBURILINS AND ASOXYSTROBINS

- ✘ Can't cure high yield syndromes like high Sudden death syndrome.



# TRILEX OR DYNASTY MORE THAN PAY FOR THEMSELVES ON MY FARM

- ✘ TRILEX or DYNASTY is worth several bushels on your farm and could avoid replant.

D or Deficient      L or Low      S of Sufficient      H or High      E or Excessive

	REPORT OF ANALYSIS-PERCENT							REPORT OF ANALYSIS - PARTS PER MILLION				
	N	P	K	Mg	Ca	S	Na	Fe	Mn	B	Cu	Zn
	NITRO GEN	PHOS PHORUS	POTAS SIUM	MAG NESIUM	CALCIUM	SULFUR	SODIUM	IRON	MANGA NESE	BORON	COPPER	ZINC
	<b>4.58</b>	<b>.42</b>	<b>2.75</b>	<b>.33</b>	<b>.42</b>	<b>.31</b>	<b>.001</b>	<b>130</b>	<b>43</b>	<b>7</b>	<b>12</b>	<b>32</b>
	H	S	L	E	S	S-H	S	L-D	D	D	H-E	D
	3.90	0.46	3.20	0.19	0.39	0.25	0.007	164	93	18	8	50

The major elements in this sample would appear to all be adequate. There would not normally be a Mg problem in most of your soils. This is generally only a problem on the sandier soils. The zinc is low which can cause some striping, however, the level is not normally low enough to see visual symptoms. I am assuming that this striping you see is on the upper leaves which would point to micronutrients. The Mn is also low and will result in interveinal striping. Do you have a soil test from this area that you can correlate the plant uptake with?

# I EVEN PLANT TREATED SEED FOR DOUBLE CROPPING

- ✘ More than half the farmers use untreated naked seed. Why?



# INSECTICIDE COMES ALONG FOR THE RIDE GAUCHO, PONCHO, AND CRUISER

- ✘ Buy cheap fungicide and you get the insecticide for free.



# WIREWORM, ROOT WORMS GRUB WORMS, BEAN LEAF BEETLES, FLEA BEETLES, APHIDS

- ✘ Major pest's on crops. ALL corn seed and wheat seed is treated with an insecticide but we can still buy soy beans naked.



# SUDDEN DEATH SYNDROME IN SOYBEANS



SINCE 1996 I HAVE USED TRICHADERMA SOLD AS T-22 ON EVERY SEED



# 12 BU ON WHEAT



# 10 BU ON CORN



# 2 BU ON SOYBEANS



# INOCULANTS DATA SLIDE- REPLICATED TRIALS OF ABM'S XR09 INOCULANT

## 2010 Mill Creek Farms Innoculant Trials

Planted- 5/29/2010	Population- 180,000	location- Larry's West of creek
Harvested- 9/27/2010	7.5" rows	plot length-919'
Previous crop- Corn	Comments; Very dry Aug 15 <sup>th</sup> – harvest	

#	Company	Variety	Seed Treatment	Moisture	Test Weight	Yield
1	Pioneer	94Y21	ABM-XR09	9.90	57.50	56.94
2	Pioneer	94Y21	Untreated	9.70	58.00	56.56
3	Pioneer	94Y21	ABM-XR09	9.90	58.60	54.25
4	Pioneer	94Y21	Untreated	9.90	57.40	55.49
5	Pioneer	94Y21	ABM-XR09	9.80	57.70	55.91
6	Pioneer	94Y21	Untreated	9.70	58.30	53.57
7	Pioneer	94Y21	ABM-XR09	9.90	58.60	52.94
8	Pioneer	94Y21	Untreated	9.60	58.60	50.27
9	Pioneer	94Y21	ABM-XR09	9.70	58.60	52.48
10	Pioneer	94Y21	Untreated	9.70	58.40	51.75
11	Pioneer	94Y21	ABM-XR09	9.60	58.50	49.98
12	Pioneer	94Y21	Untreated	9.30	58.50	48.61
Avg. Pioneer		94Y21	ABM- R09	9.80	58.25	53.75
Avg. Pioneer		94Y21	Untreated	9.65	58.20	52.71

# INOCULATE ..WHY DON'T WE?

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- ✘ Old research that taught us once you planted beans you had those bacteria around for a long time.
- ✘ Those old lazy bacteria can't compete with the new strains available
- ✘ Won't take the time to inoculate
- ✘ Unsure if they get the right product on every seed
- ✘ Result....not inoculating or slopping it on at the lowest cost and rate

# SPREAD THAT RESIDUE!

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- ✘ Long term impact of residue is *permanent soil change* affecting:
  - + humus,
  - + microbes
  - + soil temperature
  - + moisture
  - + oxygen
  - + pests
  - + weed seed patterns



## 2009 ABM BEAN DATA AT TROY, OHIO RESEARCH FARM

Range	Col	Treatment	Moisture	Test Weight	Weight	Adj. Dry Bushels Per Acre
1	2	ABM Strain 2001 - w/ 1X Roundup	16.1	57.4	17.2	55.0
1	1	ABM Strain 2001 - No Roundup - 1X Border	16.0	57.5	18.5	59.1
1	5	ABM Strain 2001 - w/ 3X Roundup	16.1	57.4	19.6	62.6
1	4	ABM Strain 2001 - No Roundup - 3X Border	16.5	57.3	18.1	57.6
1	8	ABM Strain 2001 - w/ 5X Roundup	16.4	57.3	18.9	60.2
1	7	ABM Strain 2001 - No Roundup - 5X Border	16.5	57.5	19.1	60.8
3	2	ABM Strain 2009 - w/ 1X Roundup	16.0	57.4	20.3	64.8
3	1	ABM Strain 2009 - No Roundup - 1X Border	16.5	57.3	21.0	66.7
3	5	ABM Strain 2009 - w/ 3X Roundup	16.2	57.4	19.5	62.1
3	4	ABM Strain 2009 - No Roundup - 3X Border	16.3	57.3	20.4	65.0
3	8	ABM Strain 2009 - w/ 5X Roundup	16.8	57.0	19.6	62.0
3	7	ABM Strain 2009 - No Roundup - 5X Border	16.7	57.4	20.8	66.0
2	2	Excalibre - w/ 1X Roundup	16.1	57.6	17.8	56.9
2	1	Excalibre - No Roundup - 1X Border	16.1	57.4	18.5	59.1
2	5	Excalibre - w/ 3X Roundup	16.1	57.4	17.4	55.7
2	4	Excalibre - No Roundup - 3X Border	16.1	57.4	18.2	58.0
2	8	Excalibre - w/ 5X Roundup	16.6	57.4	15.9	50.4
2	7	Excalibre - No Roundup - 5X Border	16.7	57.3	19.4	61.5
4	2	No Inoculant - w/ 1X Roundup	16.3	57.4	18.5	59.1
4	1	No Inoculant - No Roundup - 1X Border	16.2	57.4	18.3	58.5
4	5	No Inoculant - w/ 3X Roundup	16.1	57.4	17.9	57.2
4	4	No Inoculant - No Roundup - 3X Border	16.5	57.3	18.5	58.7
4	8	No Inoculant - w/ 5X Roundup	16.8	57.6	17.4	55.0
4	7	No Inoculant - No Roundup - 5X Border	16.5	57.4	18.3	58.3

# 2010 EVERYTHING TREATED WITH SABREX, IT'S REPLACEMENT

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- ✘ T-22's replacements working coast to coast and is great for organic farming.
- ✘ Really who grows Organic anyway?

# 14 BU ON WHEAT 13 ON CORN 3 ON SOYBEANS



# EMERGENCE TO FLOWER

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- ✘ Now we are setting the yield
- ✘ Scout your fields to check on emergence, seedling health and quality and pests
- ✘ Weeds are the number one problem
- ✘ Disease and insects are right there to rob yield
- ✘ Crop scout or consultant is invaluable in checking the progress of your plan

## 3.7 BU ON MY FARM

Who's on steroids? Me or the beans?





# SHOULD YOU APPLY FUNGICIDES?

- ✘ If you are producing seed, have identified disease that can be controlled with a fungicide or are in a high yield system the answer is YES!
- ✘ If you are in a normal, lower management system the answer is MAYBE
- ✘ If you weren't prepared to spend the time and money to apply fungicide in a normal system.....NO

# SEED QUALITY

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- ✘ Study the seed; study the dealer and the grower
- ✘ Match seed variety to your planter and soils
- ✘ Properly matched seed defends itself from pests and it harvests nicely
- ✘ Polymers on soybeans that bind the treatments are tough enough to really protect the seed coat.
- ✘ If the seed coat is broken before treatment the seed is already damaged

## 6.7 BU OVER 2 YEARS





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