

Releasing Soil Resources

by Balancing your Soils

Jamestown, IN
Boone County

August 26, 2008



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5 years Gypsoil System vs. long-term Conventional Program. Note: We used current input pricing for both fields and actual tonnages applied to the Gypsoil System field. We assumed customary products and use-rates for the long-term conventional program field.

W 320 Field 316.62 Acres

Gypsoil

Conventional

2008 Broadcast Totals

2008 Broadcast Totals (estimated)

Phosphate: 11-52-0 3944# tot. \$7.47/acre
Potassium: 0-0-60 6829# tot. \$10.78/acre
Lime: Hi Cal 424 tons tot. \$25.44/acre
Gypsum 1ton/acre \$23.00/acre
Total \$67.00/acre

Phosphate: 11-52-0 150#/a \$91/acre
Potassium: 0-0-60 200#/a \$100/acre
Lime: (Any type 2-tons/acre) \$38/acre
Total \$229/acre

Gypsoil System Benefit \$162/acre

5 years Gypsoil System

Conventional Program



Yield Estimates

W 320 Field 316.62 Acres

August 26 2008

Gypsoil System



Conventional System

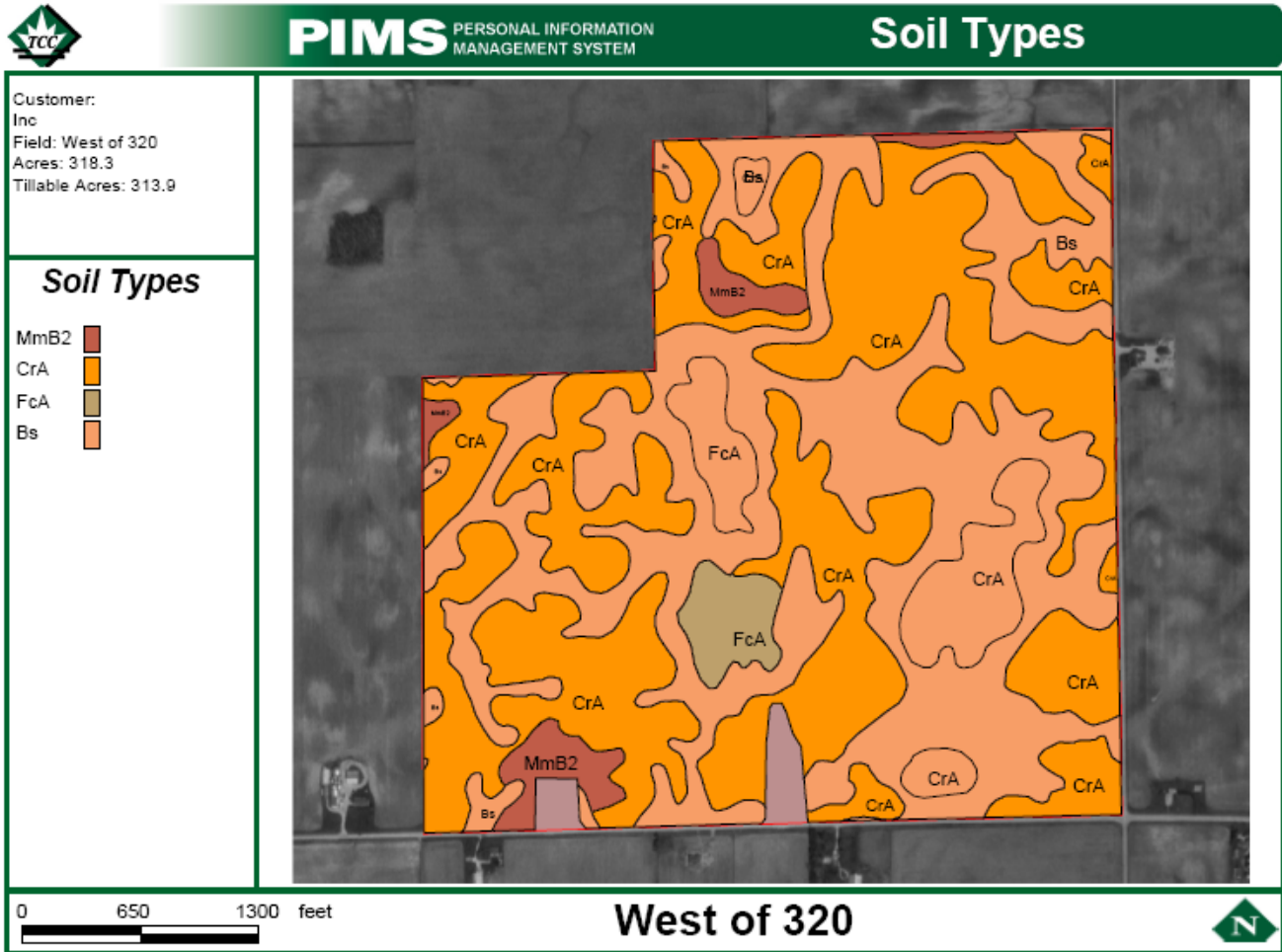
Financial Analysis
W 320 Field 316.62 Acres

	<u>Gypsoil System</u>	<u>Conventional System</u>
Yield Check	150bu/a	123 bu/a
Yield Difference	27 bu/a	
Bushel Value	@ \$3.00/bu	
Yield Difference Value	\$81/acre	
Input Savings	<u>\$162/acre</u>	
Total Gypsoil System Benefit	\$243/acre	

What are the Soil Types?

W 320 Field 316.62 Acres

Soils: Miami, Crosby, Fincastle, Brookston (Silt Loam to Silty Clay Loam)



How has nutrient availability been affected?

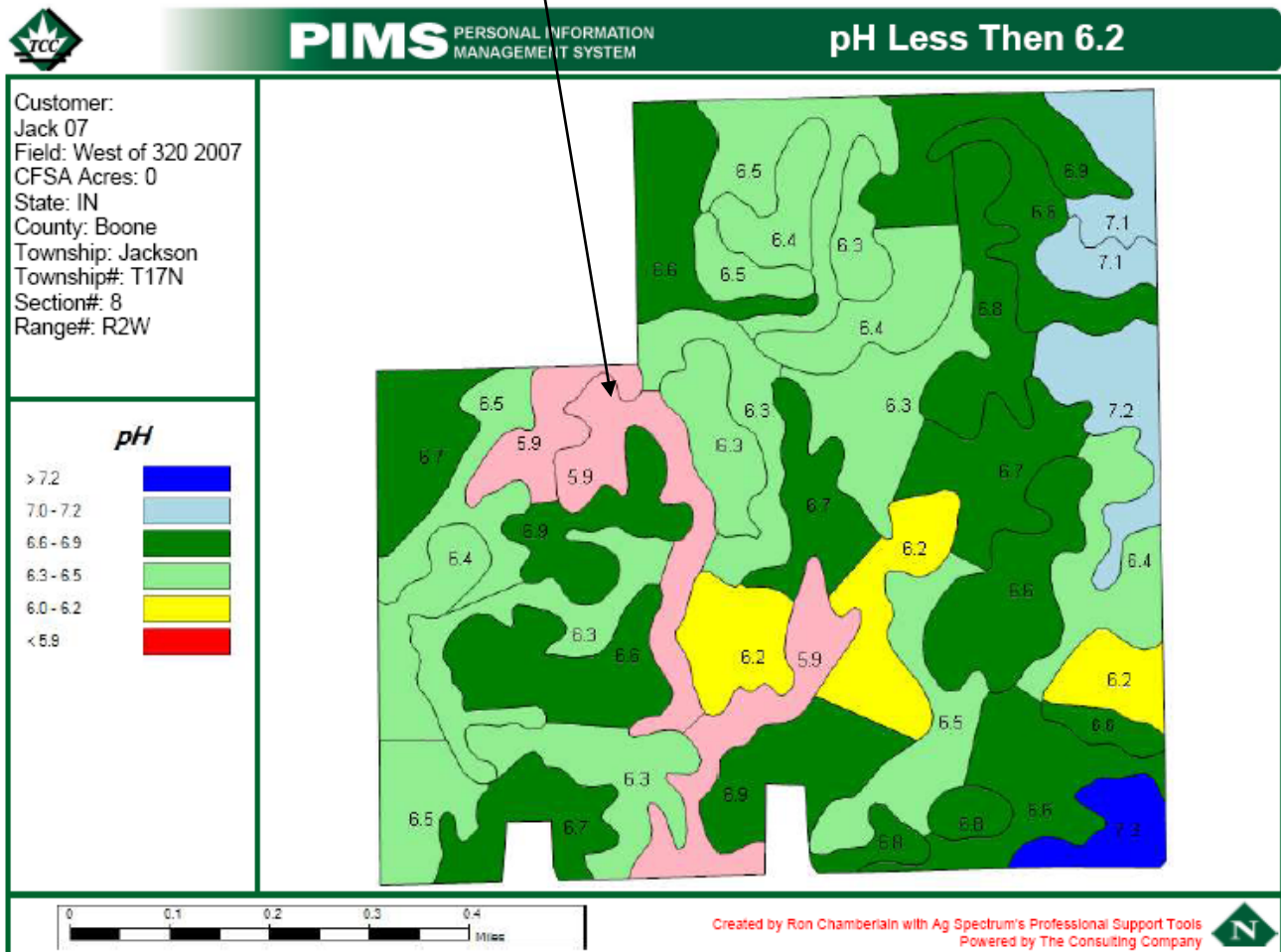
W 320 Field 316.62 Acres

The pH is nearly balanced.

Balanced pH range is 6.2-6.8

Total applied Hi-Cal Lime for 2008 Crop: 424 tons

Pink indicates needs balanced



How has Phosphorus availability been affected?

W 320 Field 316.62 Acres

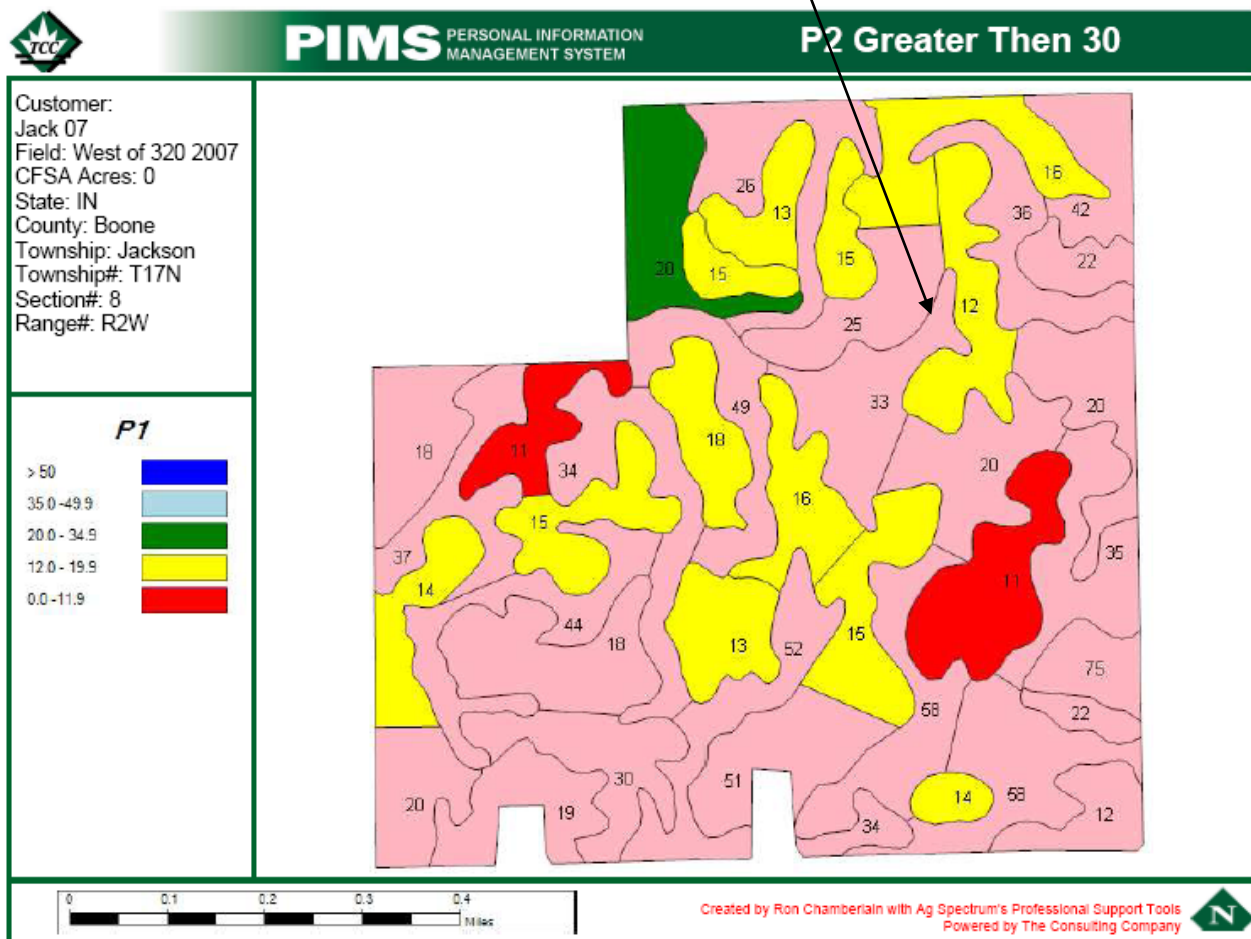
The Phosphorus is nearly balanced.

P1 Balance is 12-48 ppm.

P2 Balance is 30+ ppm.

Total Applied Phosphate for 2008 Crop: 18-46-0 3944 Lbs VRT. The rest comes from Soil Release.

Pink indicates in balance



How has Potassium availability been affected?

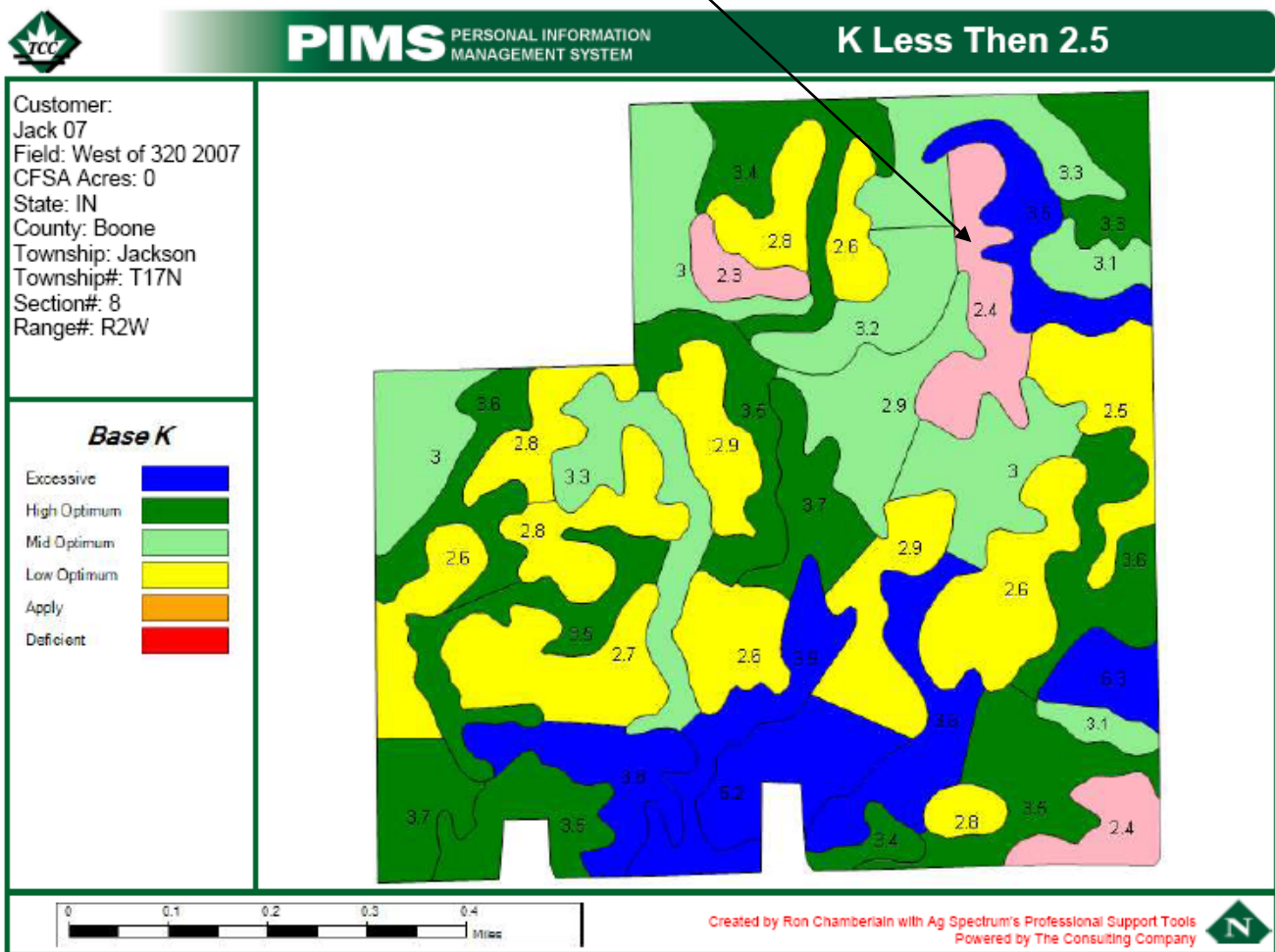
W 320 Field 316.62 Acres

The Potassium is nearly balanced.

Balanced Potassium is 2.2-4.8% Base Saturation

Total applied Potassium for the 2008 crop: 0-0-60 6829 Lbs VRT The rest comes from Soil Release.

Pink indicates needs balanced



How is the soil affected?

Brookston soil

5 Year Gypsoil System

Mellow soil throughout the entire upper rooting zone



How is the subsoil affected?

Brookston subsoil

5 Year Gypsoil System

Earthworms moving deep into the subsoil



How is the subsoil affected?

Brookston subsoil

5 Year Gypsoil System

Earthworm deposits deep into the subsoil



How is the subsoil affected?

Brookston subsoil

5 Year Gypsoil System

Earthworms depositing nutrient rich-organic material deep into the subsoil



How are roots affected?

Brookston subsoil

5 Year Gypsoil System

Roots feeding on nutrient rich organic material deposited by earthworms deep into the subsoil



The Results

