Soil Test – 2024

- John Thompson & Laurel Sanger -

Field Details:

- *Sample Date* — *May 29, 2024*
- *Sample Plan* — *2.5ac Modified Grid/Zone*
- *Lab* — *Waypoint Analytical, IL*
- *Sample Package* — *S3M*
- *Recommendations* — *EFC FieldAlytics*
- *Spread Plan*
- *Yield Goal*
- *Fertilizer Products*
- *Target pH*
- *Lime Product*
- *Notes:*

Paul Schmid
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Location	Grower	Farm	Field	Area	Centroid
TopSoil Agronomy	Travis Selby	John Thompson & Laurel Sanger	Chebanse 80	77.75 acres	40.97564, -87.960612

	Min	Max	Avg
P	16.0	49.0	30.1
Bray P1	12.0	37.0	22.9
P Olsen	6.0	17.0	10.9
K	94.0	241.0	176.3
Mg	170.0	596.0	411.6
Ca	928.0	2733	1911
Na	8.0	11.0	9.4
S	3.0	9.0	6.0
B	0.1	1.0	0.5
Cu	0.7	2.6	1.7
Fe	91.0	164.0	120.4
Mn	11.0	44.0	21.5
Zn	1.2	3.4	2.1
pH	5.7	6.7	6.2
bpH	6.61	6.87	6.75
OM	3.1	6.2	4.6
ENR	106.0	168.0	136.3
CEC	8.0	21.8	15.3
%K	2.0	5.0	3.0
KMeq	0.2	0.6	0.5
%Mg	17.7	26.8	22.2
MgMeq	1.4	5.0	3.4
%Ca	55.7	70.0	62.3
CaMeq	4.6	13.7	9.6
%H	4.3	20.8	12.2
HMeq	0.6	3.2	1.8
%Na	0.2	0.5	0.3
NaMeq	0.0	0.0	0.0
KMgRatio	0.08	0.28	0.14

Sample Date	Soil Lab
2024-05-29	Waypoint Analytical Illinois

ID	P ppm	Bray P1 ppm	P Olsen ppm	K ppm	Mg ppm	Ca ppm	Na ppm	S ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	pH	bpH	OM %	ENR lbs/ac	CEC meq	%K %	KMeq meq	%Mg %	MgMeq meq	%Ca %	CaMeq meq	%H %	HMeq meq	%Na %	NaMeq meq	KMgRatio
1	33.0	25.0	12.0	178.0	351.0	1739	9.0	6.0	0.4	1.5	111.0	44.0	2.7	6.5	6.83	4.7	138.0	13.1	3.5	0.5	22.3	2.9	66.4	8.7	7.6	1.0	0.3	0.0	0.16
2	18.0	14.0	7.0	94.0	266.0	1269	9.0	6.0	0.3	1.1	115.0	25.0	1.9	6.1	6.79	3.3	110.0	10.2	2.4	0.2	21.7	2.2	62.2	6.3	13.7	1.4	0.4	0.0	0.11
3	24.0	18.0	9.0	126.0	412.0	1772	10.0	8.0	0.5	1.6	107.0	22.0	2.1	6.2	6.76	5.2	148.0	14.4	2.2	0.3	23.8	3.4	61.5	8.9	11.8	1.7	0.3	0.0	0.09
4	33.0	25.0	12.0	197.0	527.0	2372	9.0	9.0	0.5	2.1	128.0	18.0	2.4	6.0	6.63	5.4	152.0	19.8	2.6	0.5	22.2	4.4	59.9	11.9	15.2	3.0	0.2	0.0	0.12
5	41.0	31.0	14.0	238.0	530.0	2259	11.0	5.0	0.6	2.3	129.0	19.0	2.3	6.0	6.64	5.9	162.0	19.3	3.2	0.6	22.9	4.4	58.5	11.3	15.0	2.9	0.2	0.0	0.14
6	49.0	37.0	17.0	218.0	403.0	1830	9.0	7.0	0.4	1.9	123.0	16.0	2.0	6.0	6.70	5.5	154.0	15.4	3.6	0.6	21.8	3.4	59.4	9.2	14.9	2.3	0.3	0.0	0.17
7	27.0	21.0	10.0	194.0	354.0	1591	8.0	6.0	0.4	1.4	104.0	14.0	1.6	6.2	6.77	4.4	132.0	13.0	3.8	0.5	22.7	3.0	61.2	8.0	12.3	1.6	0.3	0.0	0.17
8	31.0	24.0	11.0	184.0	365.0	1831	8.0	9.0	0.5	1.5	107.0	19.0	1.7	6.0	6.71	4.1	126.0	14.9	3.2	0.5	20.4	3.0	61.4	9.2	14.8	2.2	0.2	0.0	0.16
9	25.0	19.0	9.0	156.0	170.0	928.0	9.0	5.0	0.1	0.7	113.0	11.0	1.2	5.8	6.78	3.2	108.0	8.0	5.0	0.4	17.7	1.4	58.0	4.6	18.8	1.5	0.5	0.0	0.28
10	19.0	14.0	7.0	146.0	284.0	1492	8.0	5.0	0.3	1.0	96.0	15.0	1.4	6.2	6.79	3.6	116.0	11.6	3.2	0.4	20.4	2.4	64.3	7.5	12.1	1.4	0.3	0.0	0.16
11	35.0	27.0	13.0	209.0	341.0	1603	9.0	8.0	0.3	1.6	119.0	14.0	1.7	5.7	6.63	4.6	136.0	14.4	3.7	0.5	19.7	2.8	55.7	8.0	20.8	3.0	0.3	0.0	0.19
12	40.0	30.0	14.0	237.0	538.0	2684	10.0	6.0	0.6	2.5	127.0	11.0	2.6	6.5	6.78	5.7	158.0	20.1	3.0	0.6	22.3	4.5	66.8	13.4	7.5	1.5	0.2	0.0	0.14
13	30.0	23.0	11.0	221.0	588.0	2733	11.0	6.0	0.8	2.2	131.0	21.0	2.5	6.2	6.67	5.2	148.0	21.8	2.6	0.6	22.5	4.9	62.7	13.7	11.9	2.6	0.2	0.0	0.12
14	18.0	14.0	7.0	148.0	284.0	1490	9.0	4.0	0.3	1.2	112.0	44.0	1.8	6.1	6.76	3.5	114.0	11.9	3.2	0.4	19.9	2.4	62.6	7.5	14.3	1.7	0.3	0.0	0.16
15	16.0	12.0	6.0	146.0	386.0	1973	8.0	4.0	0.4	1.6	132.0	34.0	2.4	6.7	6.87	3.5	114.0	14.1	2.7	0.4	22.8	3.2	70.0	9.9	4.3	0.6	0.2	0.0	0.12
16	23.0	17.0	9.0	204.0	413.0	1838	8.0	5.0	0.5	1.7	123.0	24.0	2.5	6.4	6.80	4.4	132.0	14.5	3.6	0.5	23.7	3.4	63.4	9.2	9.0	1.3	0.2	0.0	0.15
17	38.0	29.0	13.0	241.0	424.0	1998	9.0	6.0	0.4	2.0	153.0	25.0	3.4	6.2	6.74	4.5	134.0	16.1	3.8	0.6	21.9	3.5	62.0	10.0	11.8	1.9	0.2	0.0	0.17
18	28.0	21.0	10.0	156.0	329.0	1499	9.0	6.0	0.4	1.3	131.0	26.0	2.0	5.9	6.71	4.0	124.0	12.9	3.1	0.4	21.3	2.7	58.1	7.5	17.1	2.2	0.3	0.0	0.15
19	31.0	24.0	11.0	170.0	449.0	2071	8.0	5.0	0.5	1.8	126.0	15.0	2.0	6.2	6.73	4.9	142.0	16.6	2.6	0.4	22.5	3.7	62.4	10.4	12.0	2.0	0.2	0.0	0.12
20	34.0	26.0	12.0	188.0	596.0	2606	10.0	6.0	0.8	2.5	128.0	12.0	2.5	6.4	6.75	5.7	158.0	20.3	2.4	0.5	24.5	5.0	64.2	13.0	8.9	1.8	0.2	0.0	0.10
21	28.0	21.0	10.0	173.0	433.0	1935	8.0	6.0	0.5	1.7	141.0	24.0	1.9	5.8	6.61	4.8	140.0	17.0	2.6	0.4	21.2	3.6	56.9	9.7	18.8	3.2	0.2	0.0	0.12

ID	P ppm	Bray P1 ppm	P Olsen ppm	K ppm	Mg ppm	Ca ppm	Na ppm	S ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	pH	bpH	OM %	ENR lbs/ac	CEC meq	%K %	KMeq meq	%Mg %	MgMeq meq	%Ca %	CaMeq meq	%H %	HMeq meq	%Na %	NaMeq meq	KMgRatio
22	37.0	28.0	13.0	158.0	403.0	1922	9.0	6.0	0.5	2.1	122.0	12.0	2.0	5.9	6.66	5.0	144.0	16.1	2.5	0.4	20.9	3.4	59.7	9.6	16.8	2.7	0.2	0.0	0.12
23	47.0	36.0	16.0	189.0	338.0	1780	10.0	8.0	0.5	1.8	121.0	24.0	2.0	5.9	6.68	4.1	126.0	14.7	3.3	0.5	19.2	2.8	60.5	8.9	17.0	2.5	0.3	0.0	0.17
24	32.0	24.0	12.0	176.0	525.0	2044	10.0	7.0	0.7	2.1	91.0	44.0	2.3	6.5	6.81	4.3	130.0	16.3	2.8	0.5	26.8	4.4	62.7	10.2	7.4	1.2	0.3	0.0	0.10
25	32.0	24.0	12.0	155.0	392.0	1840	10.0	3.0	0.5	1.7	135.0	12.0	2.0	6.3	6.78	4.5	134.0	14.4	2.8	0.4	22.7	3.3	63.9	9.2	10.4	1.5	0.3	0.0	0.12
26	25.0	19.0	9.0	149.0	581.0	2472	10.0	4.0	0.9	2.1	105.0	19.0	2.1	6.4	6.76	5.6	156.0	19.3	2.0	0.4	25.1	4.8	64.0	12.4	8.8	1.7	0.2	0.0	0.08
27	43.0	33.0	15.0	176.0	573.0	2648	11.0	8.0	1.0	2.6	164.0	13.0	2.6	6.3	6.71	6.2	168.0	20.7	2.2	0.5	23.1	4.8	64.0	13.2	10.6	2.2	0.2	0.0	0.09
28	25.0	19.0	9.0	143.0	309.0	1458	11.0	8.0	0.4	1.1	119.0	25.0	1.5	6.3	6.81	3.1	106.0	11.5	3.2	0.4	22.4	2.6	63.4	7.3	10.4	1.2	0.4	0.0	0.14
29	17.0	13.0	7.0	128.0	345.0	1689	10.0	3.0	0.4	1.2	96.0	26.0	1.7	6.6	6.86	3.4	112.0	12.4	2.6	0.3	23.2	2.9	68.1	8.4	5.6	0.7	0.4	0.0	0.11
30	28.0	21.0	10.0	173.0	338.0	1575	10.0	6.0	0.3	1.5	114.0	21.0	2.0	6.1	6.75	4.5	134.0	13.0	3.4	0.4	21.7	2.8	60.6	7.9	13.8	1.8	0.3	0.0	0.16
31	26.0	20.0	10.0	194.0	514.0	2313	11.0	5.0	0.9	2.2	110.0	17.0	2.6	6.6	6.83	6.2	168.0	17.4	2.9	0.5	24.6	4.3	66.5	11.6	5.7	1.0	0.3	0.0	0.12

Grower:	Travis Selby		
Farm:	John Thompson & Laurel Sanger	Lab:	Waypoint Analytical Illinois
Field:	Chebanse 80	Date:	2024-05-29
Area:	77.75 ac	Layer ID:	4515926
Interpolation Method:	1/r4		

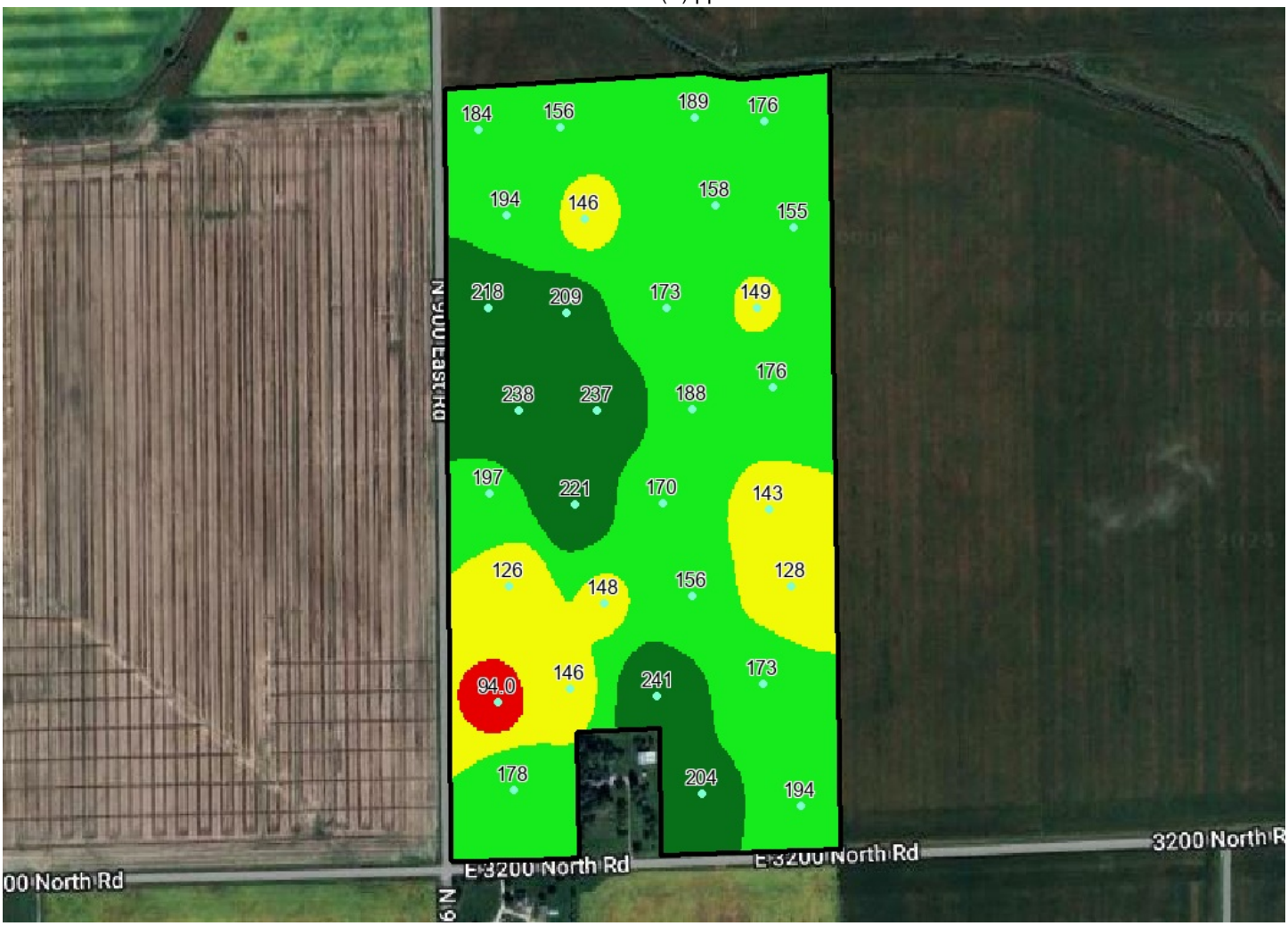
Phosphorous (P) ppm

Min: 16.0 **Max:** 49.0 **Avg:** 30.1

Phosphorous (P) ppm	Soil Levels	Area (ac)	Percent Acres
1-15	Critical (<15ppm)		
15-30	Build (15-30ppm)		
30-50	Optimum (30-50ppm)		
50-65	High (50-65ppm)		
65-2000	Asset (>65ppm)		

Grower:	Travis Selby		
Farm:	John Thompson & Laurel Sanger	Lab:	Waypoint Analytical Illinois
Field:	Chebanse 80	Date:	2024-05-29
Area:	77.75 ac	Layer ID:	4515926
Interpolation Method:	1/r4		

Potassium (K) ppm

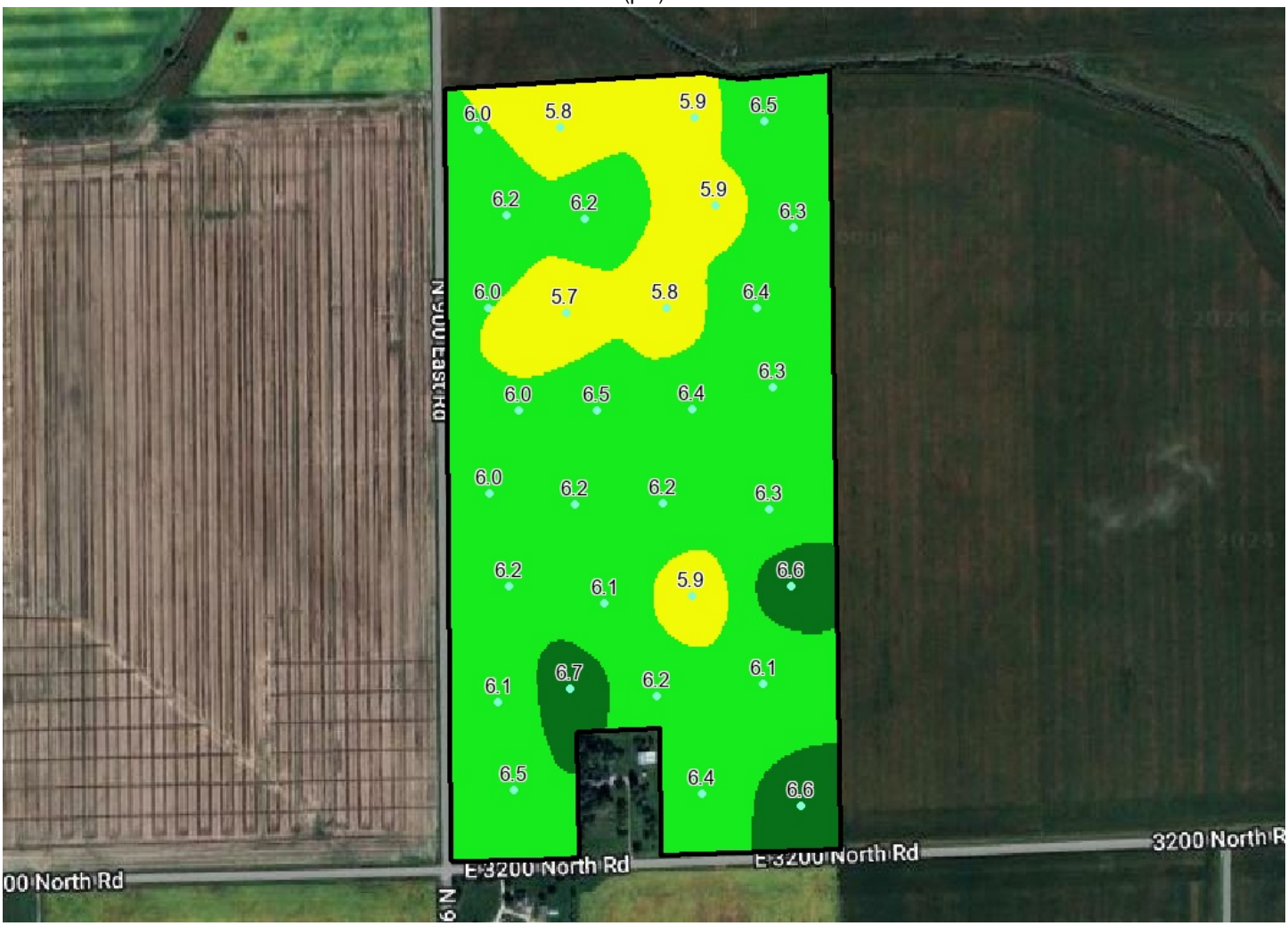


Min: 94.0 **Max:** 241.0 **Avg:** 176.3

Potassium (K) ppm	Soil Levels	Area (ac)	Percent Acres
1- 100	Critical (<100ppm)		
100 - 150	Build (100-150ppm)		
150- 200	Optimum (150-200ppm)		
200- 250	High (200-250ppm)		
250-5000	Asset (>250ppm)		

Grower:	Travis Selby		
Farm:	John Thompson & Laurel Sanger	Lab:	Waypoint Analytical Illinois
Field:	Chebanse 80	Date:	2024-05-29
Area:	77.75 ac	Layer ID:	4515926
Interpolation Method:	1/r4		

(pH)



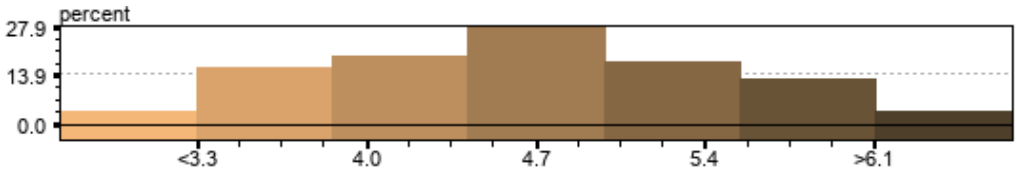
Min: 5.7 **Max:** 6.7 **Avg:** 6.2

(pH)	Soil Levels	Area (ac)	Percent Acres
3- 5.5	Critical (<5.5pH)		
5.5 - 6.0	Build (5.5-6.0pH)		
6.0- 6.5	Optimum (6.0-6.5pH)		
6.5- 7.0	High (6.5-7.0pH)		
7.0-10	Very High (>7.0pH)		

Grower:	Travis Selby		
Farm:	John Thompson & Laurel Sanger	Lab:	Waypoint Analytical Illinois
Field:	Chebanse 80	Date:	2024-05-29
Area:	77.75 ac	Layer ID:	4515926
Interpolation Method:	1/r4		

Organic Matter (OM) %

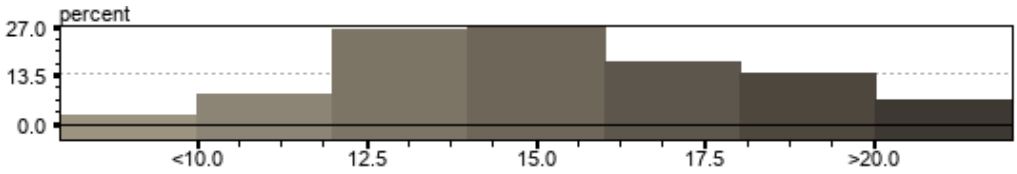
Min: 3.1 **Max:** 6.2 **Avg:** 4.6



Grower:	Travis Selby		
Farm:	John Thompson & Laurel Sanger	Lab:	Waypoint Analytical Illinois
Field:	Chebanse 80	Date:	2024-05-29
Area:	77.75 ac	Layer ID:	4515926
Interpolation Method:	1/r4		

Cation Exchange Capacity (CEC) meq/100g

Min: 8.0 **Max:** 21.8 **Avg:** 15.3



Grower: Travis Selby **Farm:** John Thompson & Laurel Sanger **Field:** Chebanse 80 Soil Type Map (SSURGO)

Soil Type	Soil Name	Area (ac)
150B	Onarga fine sandy loam, 2 to 5 percent slopes	4.28
125A	Selma loam, 0 to 2 percent slopes	10.51
102A	La Hogue loam, 0 to 2 percent slopes	8.79
594A	Reddick clay loam, 0 to 2 percent slopes	33.55
440B	Jasper loam, 2 to 5 percent slopes	0.64
293A	Andres silt loam, 0 to 2 percent slopes	20.10

Waypoint ANALYTICAL

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SOIL ANALYSIS

Client :
Top Soil Agronomy
Paul Schmid
1528 East 600 North Rd
Cissna Park IL 60924

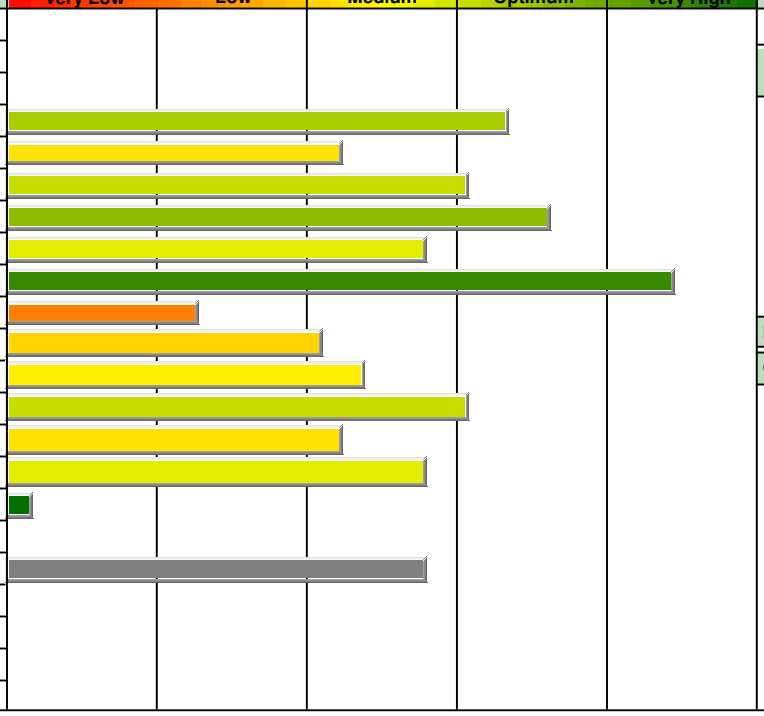
Grower :
Travis Selby

Farm: Chebanse 80

Report No: 24-151-0926
Cust No: 23061
Date Printed: 05/31/2024
Date Received : 05/30/2024
PO:
Page : 1 of 31

Lab No: 64005 **Field:** Chebanse 80 **Sample ID:** 1

Test	Method	Results
Soil pH	1:1	6.5
Buffer pH		
Phosphorus		
P1-Wk.Bray	P1	25 ppm
Bicarb-P	Olsen	12 ppm
Phosphorus (P)	M3	33 ppm
Potassium (K)	M3	178 ppm
Calcium (Ca)	M3	1739 ppm
Magnesium (Mg)	M3	351 ppm
Sulfur (S)	M3	6 ppm
Boron (B)	M3	0.4 ppm
Copper (Cu)	M3	1.5 ppm
Iron (Fe)	M3	111 ppm
Manganese (Mn)	M3	44 ppm
Zinc (Zn)	M3	2.7 ppm
Sodium (Na)	M3	9 ppm
Soluble Salts		
Organic Matter	LOI	4.7 % ENR 138
Nitrate Nitrogen		



Calculated Cation Exchange Capacity: **13.1** meq/100g

Calculated Cation Saturation

	%sat	meq
K	3.5	0.5
Ca	66.4	8.7
Mg	22.3	2.9
H	7.6	1.0
Na	0.3	0

K/Mg Ratio: 0.16

Ca/Mg Ratio: 2.98

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

Analysis prepared by: Waypoint Analytical Illinois, Inc.

Waypoint ANALYTICAL

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SOIL ANALYSIS

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Cissna Park IL 60924

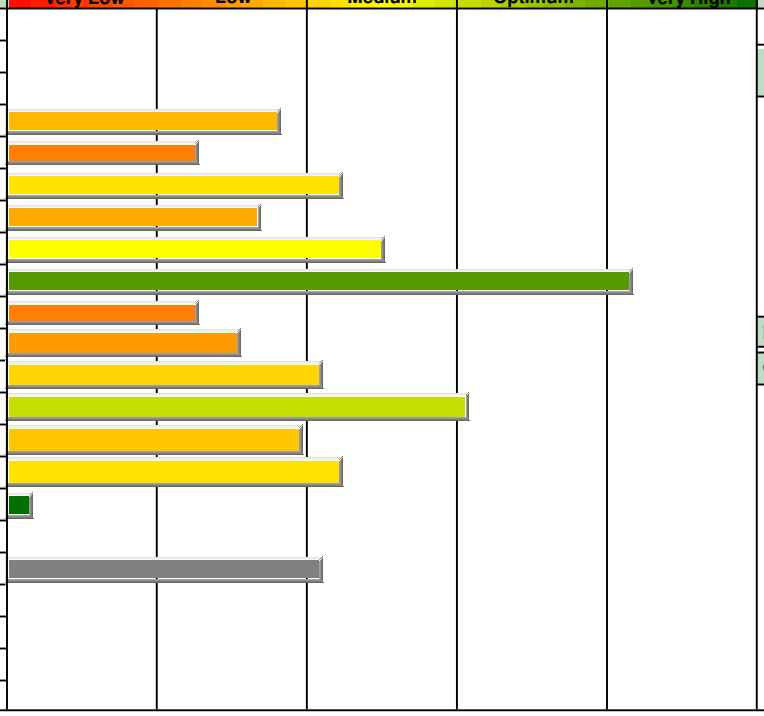
Grower :
Travis Selby

Farm: Chebanse 80

Report No: 24-151-0926
Cust No: 23061
Date Printed: 05/31/2024
Date Received : 05/30/2024
PO:
Page : 2 of 31

Lab No: 64007 **Field:** Chebanse 80 **Sample ID:** 2

Test	Method	Results
Soil pH	1:1	6.1
Buffer pH	SMP	6.79
Phosphorus		
P1-Wk.Bray	P1	14 ppm
Bicarb-P	Olsen	7 ppm
Phosphorus (P)	M3	18 ppm
Potassium (K)	M3	94 ppm
Calcium (Ca)	M3	1269 ppm
Magnesium (Mg)	M3	266 ppm
Sulfur (S)	M3	6 ppm
Boron (B)	M3	0.3 ppm
Copper (Cu)	M3	1.1 ppm
Iron (Fe)	M3	115 ppm
Manganese (Mn)	M3	25 ppm
Zinc (Zn)	M3	1.9 ppm
Sodium (Na)	M3	9 ppm
Soluble Salts		
Organic Matter	LOI	3.3 % ENR 110
Nitrate Nitrogen		



Calculated Cation Exchange Capacity
10.2 meq/100g

Calculated Cation Saturation

	%sat	meq
K	2.4	0.2
Ca	62.2	6.3
Mg	21.7	2.2
H	13.7	1.4
Na	0.4	0

K/Mg Ratio: 0.11
Ca/Mg Ratio: 2.87

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

Analysis prepared by: Waypoint Analytical Illinois, Inc.

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SOIL ANALYSIS

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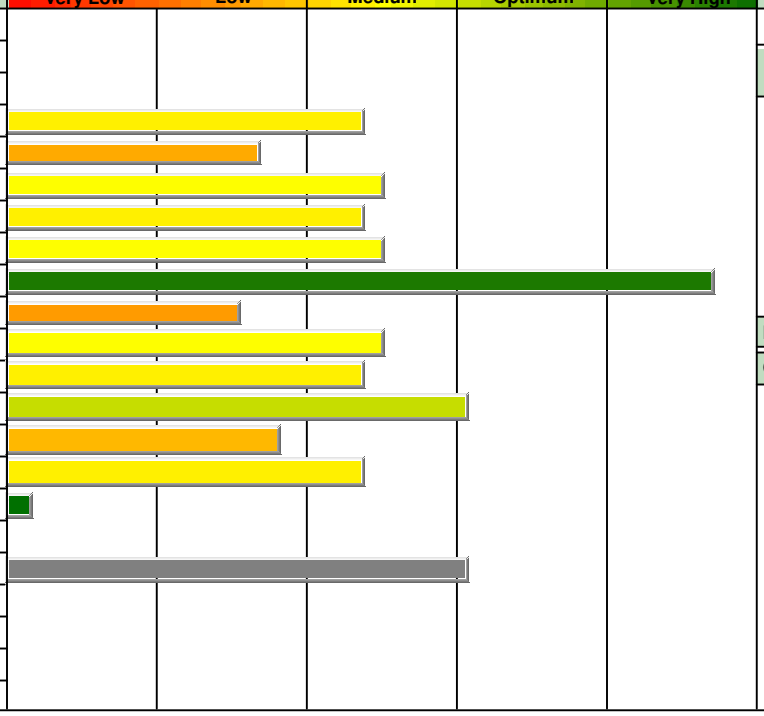
Page : 3 of 31

Lab No: 64008 **Field:** Chebanse 80 **Sample ID:** 3

Test	Method	Results
Soil pH	1:1	6.2
Buffer pH	SMP	6.76
Phosphorus		
P1-Wk.Bray	P1	18 ppm
Bicarb-P	Olsen	9 ppm
Phosphorus (P)	M3	24 ppm
Potassium (K)	M3	126 ppm
Calcium (Ca)	M3	1772 ppm
Magnesium (Mg)	M3	412 ppm
Sulfur (S)	M3	8 ppm
Boron (B)	M3	0.5 ppm
Copper (Cu)	M3	1.6 ppm
Iron (Fe)	M3	107 ppm
Manganese (Mn)	M3	22 ppm
Zinc (Zn)	M3	2.1 ppm
Sodium (Na)	M3	10 ppm
Soluble Salts		
Organic Matter	LOI	5.2 % ENR 148
Nitrate Nitrogen		



Calculated Cation Exchange Capacity
14.4 meq/100g

Calculated Cation Saturation

	%sat	meq
K	2.2	0.3
Ca	61.5	8.9
Mg	23.8	3.4
H	11.8	1.7
Na	0.3	0

K/Mg Ratio: 0.09
Ca/Mg Ratio: 2.58

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

Analysis prepared by: Waypoint Analytical Illinois, Inc.

Waypoint ANALYTICAL

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SOIL ANALYSIS

Client :
Top Soil Agronomy
Paul Schmid
1528 East 600 North Rd
Cissna Park IL 60924

Grower :
Travis Selby

Farm: Chebanse 80

Report No: 24-151-0926
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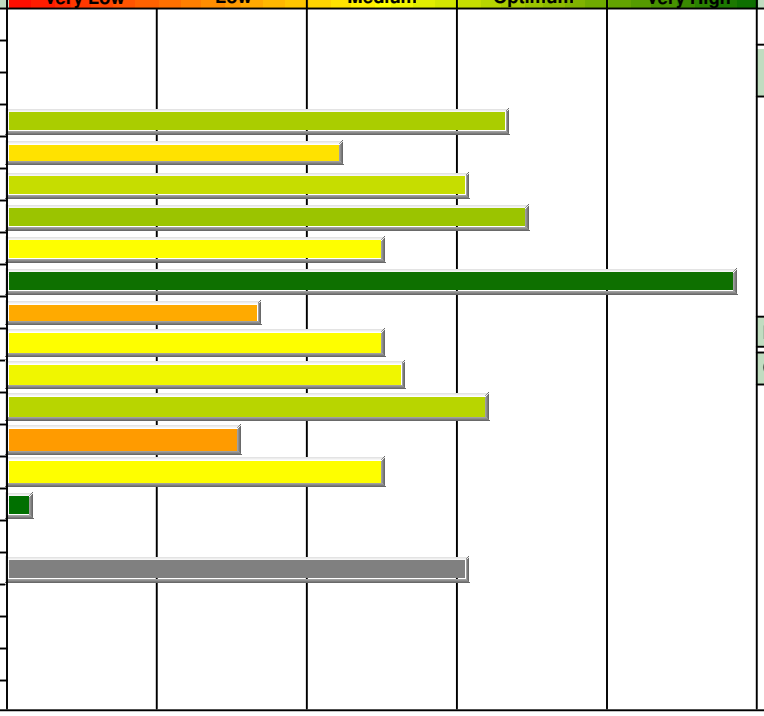
Lab No: 64009 **Field:** Chebanse 80 **Sample ID:** 4

Test	Method	Results
Soil pH	1:1	6.0
Buffer pH	SMP	6.63
Phosphorus		
P1-Wk.Bray	P1	25 ppm
Bicarb-P	Olsen	12 ppm
Phosphorus (P)	M3	33 ppm
Potassium (K)	M3	197 ppm
Calcium (Ca)	M3	2372 ppm
Magnesium (Mg)	M3	527 ppm
Sulfur (S)	M3	9 ppm
Boron (B)	M3	0.5 ppm
Copper (Cu)	M3	2.1 ppm
Iron (Fe)	M3	128 ppm
Manganese (Mn)	M3	18 ppm
Zinc (Zn)	M3	2.4 ppm
Sodium (Na)	M3	9 ppm
Soluble Salts		
Organic Matter	LOI	5.4 % ENR 152
Nitrate Nitrogen		

SOIL TEST RATINGS



Calculated Cation Exchange Capacity

19.8 meq/100g

Calculated Cation Saturation

	%sat	meq
K	2.6	0.5
Ca	59.9	11.9
Mg	22.2	4.4
H	15.2	3.0
Na	0.2	0

K/Mg Ratio: 0.12

Ca/Mg Ratio: 2.70

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

Analysis prepared by: Waypoint Analytical Illinois, Inc.

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Travis Selby

Farm: Chebanse 80

Report No: 24-151-0926
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Lab No: 64010 **Field:** Chebanse 80 **Sample ID:** 5

Test	Method	Results
Soil pH	1:1	6.0
Buffer pH	SMP	6.64
Phosphorus		
P1-Wk.Bray	P1	31 ppm
Bicarb-P	Olsen	14 ppm
Phosphorus (P)	M3	41 ppm
Potassium (K)	M3	238 ppm
Calcium (Ca)	M3	2259 ppm
Magnesium (Mg)	M3	530 ppm
Sulfur (S)	M3	5 ppm
Boron (B)	M3	0.6 ppm
Copper (Cu)	M3	2.3 ppm
Iron (Fe)	M3	129 ppm
Manganese (Mn)	M3	19 ppm
Zinc (Zn)	M3	2.3 ppm
Sodium (Na)	M3	11 ppm
Soluble Salts		
Organic Matter	LOI	5.9 % ENR 162
Nitrate Nitrogen		

Calculated Cation Exchange Capacity
19.3 meq/100g

Calculated Cation Saturation

	%sat	meq
K	3.2	0.6
Ca	58.5	11.3
Mg	22.9	4.4
H	15.0	2.9
Na	0.2	0

K/Mg Ratio: 0.14
Ca/Mg Ratio: 2.55

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

Analysis prepared by: Waypoint Analytical Illinois, Inc.

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SOIL ANALYSIS

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Grower :
Travis Selby

Farm: Chebanse 80

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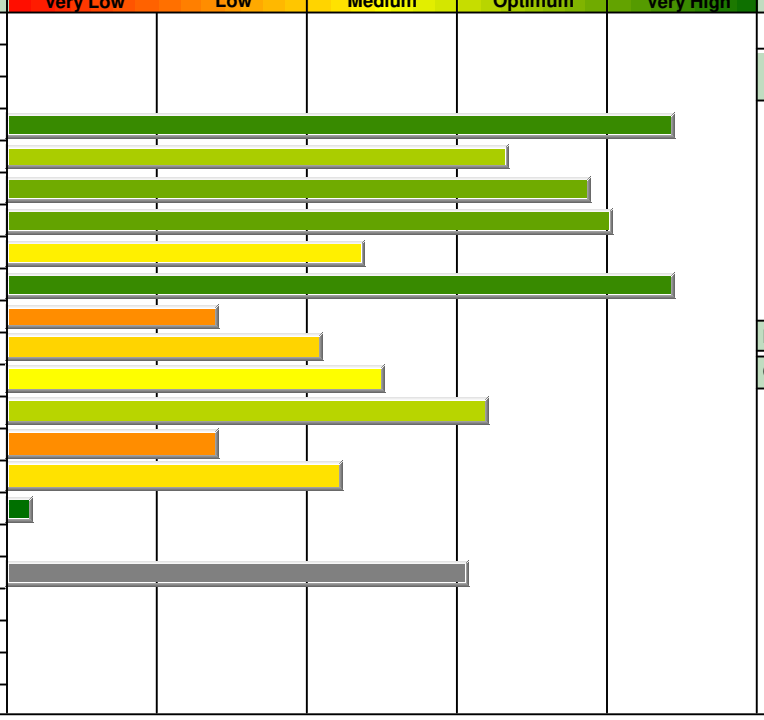
Lab No: 64011 **Field:** Chebanse 80 **Sample ID:** 6

Test	Method	Results
Soil pH	1:1	6.0
Buffer pH	SMP	6.70
Phosphorus		
P1-Wk.Bray	P1	37 ppm
Bicarb-P	Olsen	17 ppm
Phosphorus (P)	M3	49 ppm
Potassium (K)	M3	218 ppm
Calcium (Ca)	M3	1830 ppm
Magnesium (Mg)	M3	403 ppm
Sulfur (S)	M3	7 ppm
Boron (B)	M3	0.4 ppm
Copper (Cu)	M3	1.9 ppm
Iron (Fe)	M3	123 ppm
Manganese (Mn)	M3	16 ppm
Zinc (Zn)	M3	2.0 ppm
Sodium (Na)	M3	9 ppm
Soluble Salts		
Organic Matter	LOI	5.5 % ENR 154
Nitrate Nitrogen		



Calculated Cation Exchange Capacity
15.4 meq/100g

Calculated Cation Saturation

	%sat	meq
K	3.6	0.6
Ca	59.4	9.2
Mg	21.8	3.4
H	14.9	2.3
Na	0.3	0

K/Mg Ratio: 0.17
Ca/Mg Ratio: 2.72

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

Analysis prepared by: Waypoint Analytical Illinois, Inc.

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SOIL ANALYSIS

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Farm: Chebanse 80

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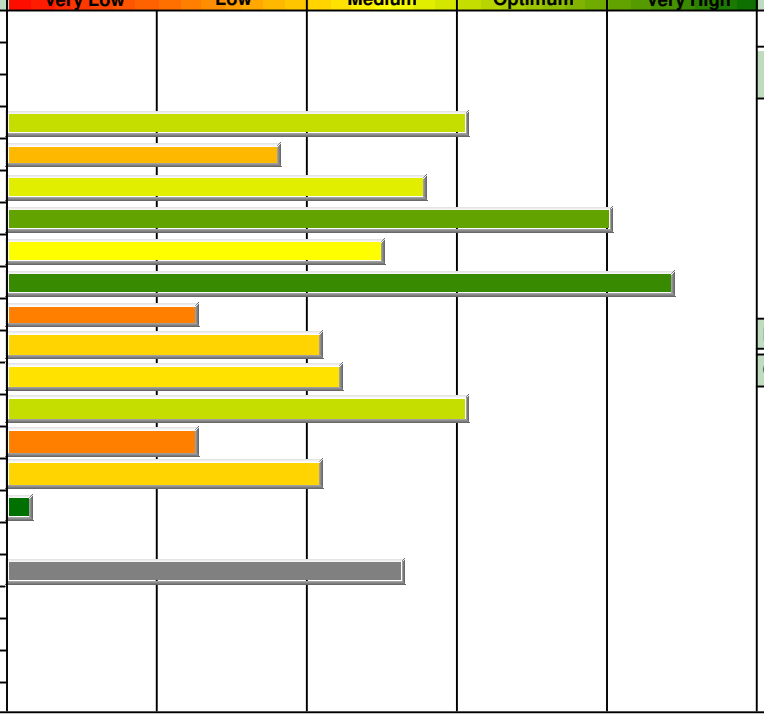
Lab No: 64012 **Field:** Chebanse 80 **Sample ID:** 7

Test	Method	Results
Soil pH	1:1	6.2
Buffer pH	SMP	6.77
Phosphorus		
P1-Wk.Bray	P1	21 ppm
Bicarb-P	Olsen	10 ppm
Phosphorus (P)	M3	27 ppm
Potassium (K)	M3	194 ppm
Calcium (Ca)	M3	1591 ppm
Magnesium (Mg)	M3	354 ppm
Sulfur (S)	M3	6 ppm
Boron (B)	M3	0.4 ppm
Copper (Cu)	M3	1.4 ppm
Iron (Fe)	M3	104 ppm
Manganese (Mn)	M3	14 ppm
Zinc (Zn)	M3	1.6 ppm
Sodium (Na)	M3	8 ppm
Soluble Salts		
Organic Matter	LOI	4.4 % ENR 132
Nitrate Nitrogen		



Calculated Cation Exchange Capacity
13.0 meq/100g

Calculated Cation Saturation

	%sat	meq
K	3.8	0.5
Ca	61.2	8.0
Mg	22.7	3.0
H	12.3	1.6
Na	0.3	0

K/Mg Ratio: 0.17
Ca/Mg Ratio: 2.70

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

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SOIL ANALYSIS

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Grower :
Travis Selby

Farm: Chebanse 80

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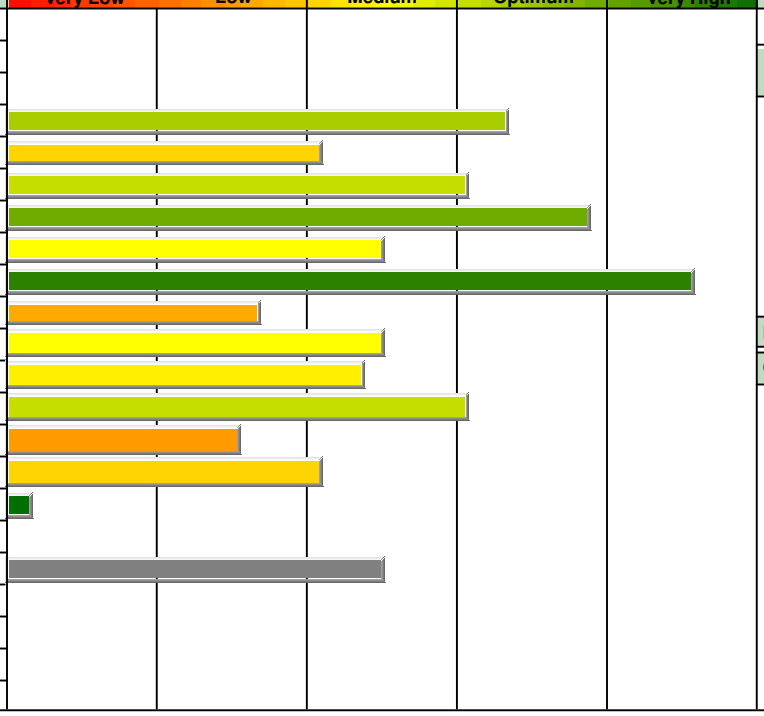
Lab No: 64013 **Field:** Chebanse 80 **Sample ID:** 8

Test	Method	Results
Soil pH	1:1	6.0
Buffer pH	SMP	6.71
Phosphorus		
P1-Wk.Bray	P1	24 ppm
Bicarb-P	Olsen	11 ppm
Phosphorus (P)	M3	31 ppm
Potassium (K)	M3	184 ppm
Calcium (Ca)	M3	1831 ppm
Magnesium (Mg)	M3	365 ppm
Sulfur (S)	M3	9 ppm
Boron (B)	M3	0.5 ppm
Copper (Cu)	M3	1.5 ppm
Iron (Fe)	M3	107 ppm
Manganese (Mn)	M3	19 ppm
Zinc (Zn)	M3	1.7 ppm
Sodium (Na)	M3	8 ppm
Soluble Salts		
Organic Matter	LOI	4.1 % ENR 126
Nitrate Nitrogen		



Calculated Cation Exchange Capacity

14.9 meq/100g

Calculated Cation Saturation

	%sat	meq
K	3.2	0.5
Ca	61.4	9.2
Mg	20.4	3.0
H	14.8	2.2
Na	0.2	0

K/Mg Ratio: 0.16

Ca/Mg Ratio: 3.01

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

Analysis prepared by: Waypoint Analytical Illinois, Inc.

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Farm: Chebanse 80

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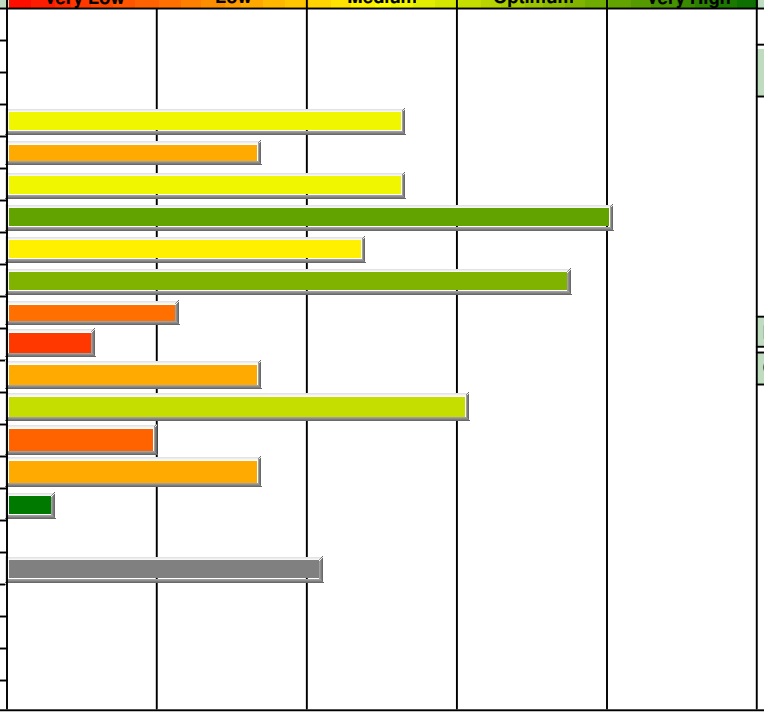
Lab No: 64014 **Field:** Chebanse 80 **Sample ID:** 9

Test	Method	Results
Soil pH	1:1	5.8
Buffer pH	SMP	6.78
Phosphorus		
P1-Wk.Bray	P1	19 ppm
Bicarb-P	Olsen	9 ppm
Phosphorus (P)	M3	25 ppm
Potassium (K)	M3	156 ppm
Calcium (Ca)	M3	928 ppm
Magnesium (Mg)	M3	170 ppm
Sulfur (S)	M3	5 ppm
Boron (B)	M3	0.1 ppm
Copper (Cu)	M3	0.7 ppm
Iron (Fe)	M3	113 ppm
Manganese (Mn)	M3	11 ppm
Zinc (Zn)	M3	1.2 ppm
Sodium (Na)	M3	9 ppm
Soluble Salts		
Organic Matter	LOI	3.2 % ENR 108
Nitrate Nitrogen		



Calculated Cation Exchange Capacity
8.0 meq/100g

Calculated Cation Saturation

	%sat	meq
K	5.0	0.4
Ca	58.0	4.6
Mg	17.7	1.4
H	18.8	1.5
Na	0.5	0

K/Mg Ratio: 0.28
Ca/Mg Ratio: 3.28

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

Analysis prepared by: Waypoint Analytical Illinois, Inc.

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SOIL ANALYSIS

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Cissna Park IL 60924

Grower :
Travis Selby

Farm: Chebanse 80

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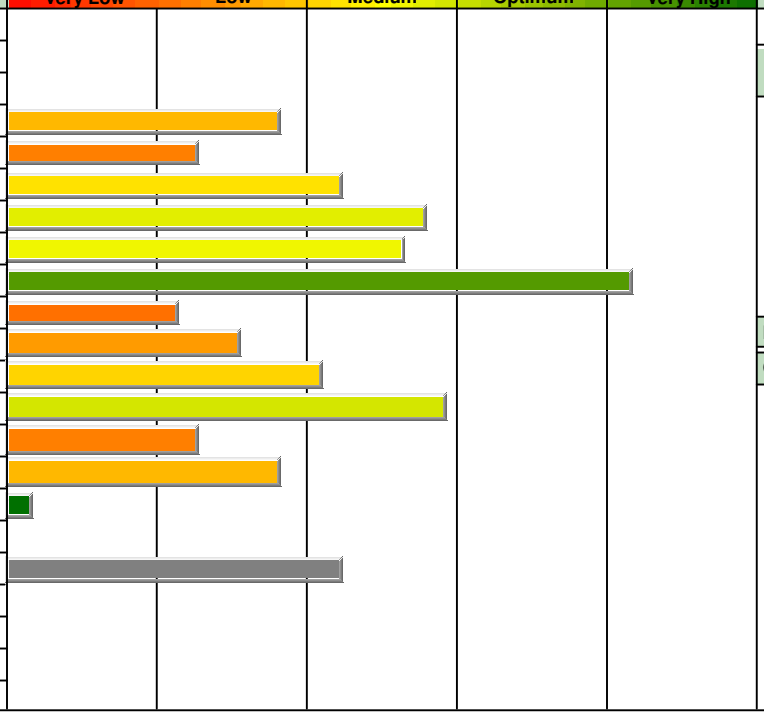
Lab No: 64015 **Field:** Chebanse 80 **Sample ID:** 10

Test	Method	Results
Soil pH	1:1	6.2
Buffer pH	SMP	6.79
Phosphorus		
P1-Wk.Bray	P1	14 ppm
Bicarb-P	Olsen	7 ppm
Phosphorus (P)	M3	19 ppm
Potassium (K)	M3	146 ppm
Calcium (Ca)	M3	1492 ppm
Magnesium (Mg)	M3	284 ppm
Sulfur (S)	M3	5 ppm
Boron (B)	M3	0.3 ppm
Copper (Cu)	M3	1.0 ppm
Iron (Fe)	M3	96 ppm
Manganese (Mn)	M3	15 ppm
Zinc (Zn)	M3	1.4 ppm
Sodium (Na)	M3	8 ppm
Soluble Salts		
Organic Matter	LOI	3.6 % ENR 116
Nitrate Nitrogen		



Calculated Cation Exchange Capacity
11.6 meq/100g

Calculated Cation Saturation

	%sat	meq
K	3.2	0.4
Ca	64.3	7.5
Mg	20.4	2.4
H	12.1	1.4
Na	0.3	0

K/Mg Ratio: 0.16
Ca/Mg Ratio: 3.15

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

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SOIL ANALYSIS

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Farm: Chebanse 80

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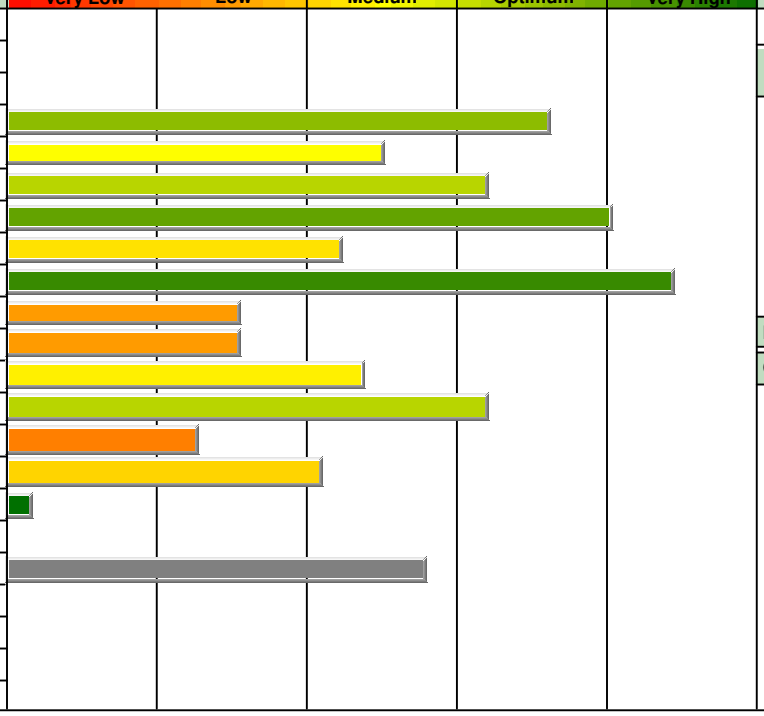
Lab No: 64016 **Field:** Chebanse 80 **Sample ID:** 11

Test	Method	Results
Soil pH	1:1	5.7
Buffer pH	SMP	6.63
Phosphorus		
P1-Wk.Bray	P1	27 ppm
Bicarb-P	Olsen	13 ppm
Phosphorus (P)	M3	35 ppm
Potassium (K)	M3	209 ppm
Calcium (Ca)	M3	1603 ppm
Magnesium (Mg)	M3	341 ppm
Sulfur (S)	M3	8 ppm
Boron (B)	M3	0.3 ppm
Copper (Cu)	M3	1.6 ppm
Iron (Fe)	M3	119 ppm
Manganese (Mn)	M3	14 ppm
Zinc (Zn)	M3	1.7 ppm
Sodium (Na)	M3	9 ppm
Soluble Salts		
Organic Matter	LOI	4.6 % ENR 136
Nitrate Nitrogen		



Calculated Cation Exchange Capacity
14.4 meq/100g

Calculated Cation Saturation

	%sat	meq
K	3.7	0.5
Ca	55.7	8.0
Mg	19.7	2.8
H	20.8	3.0
Na	0.3	0

K/Mg Ratio: 0.19
Ca/Mg Ratio: 2.83

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

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SOIL ANALYSIS

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Grower :
Travis Selby

Farm: Chebanse 80

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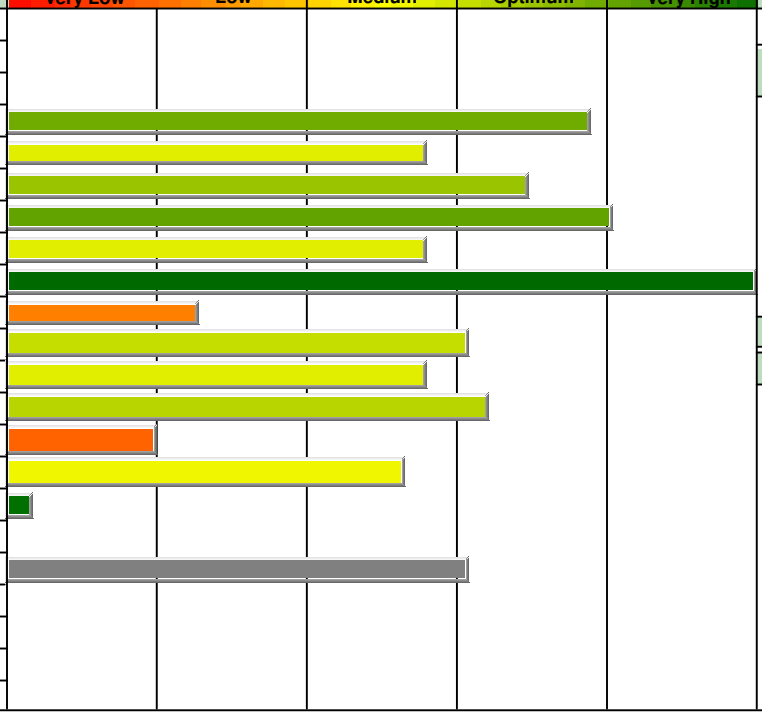
Lab No: 64018 **Field:** Chebanse 80 **Sample ID:** 12

Test	Method	Results
Soil pH	1:1	6.5
Buffer pH		
Phosphorus		
P1-Wk.Bray	P1	30 ppm
Bicarb-P	Olsen	14 ppm
Phosphorus (P)	M3	40 ppm
Potassium (K)	M3	237 ppm
Calcium (Ca)	M3	2684 ppm
Magnesium (Mg)	M3	538 ppm
Sulfur (S)	M3	6 ppm
Boron (B)	M3	0.6 ppm
Copper (Cu)	M3	2.5 ppm
Iron (Fe)	M3	127 ppm
Manganese (Mn)	M3	11 ppm
Zinc (Zn)	M3	2.6 ppm
Sodium (Na)	M3	10 ppm
Soluble Salts		
Organic Matter	LOI	5.7 % ENR 158
Nitrate Nitrogen		



Calculated Cation Exchange Capacity: **20.1** meq/100g

Calculated Cation Saturation

	%sat	meq
K	3.0	0.6
Ca	66.8	13.4
Mg	22.3	4.5
H	7.5	1.5
Na	0.2	0

K/Mg Ratio: 0.14
Ca/Mg Ratio: 3.00

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

Analysis prepared by: Waypoint Analytical Illinois, Inc.

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SOIL ANALYSIS

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Paul Schmid
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Cissna Park IL 60924

Grower :
Travis Selby

Farm: Chebanse 80

Report No: 24-151-0926
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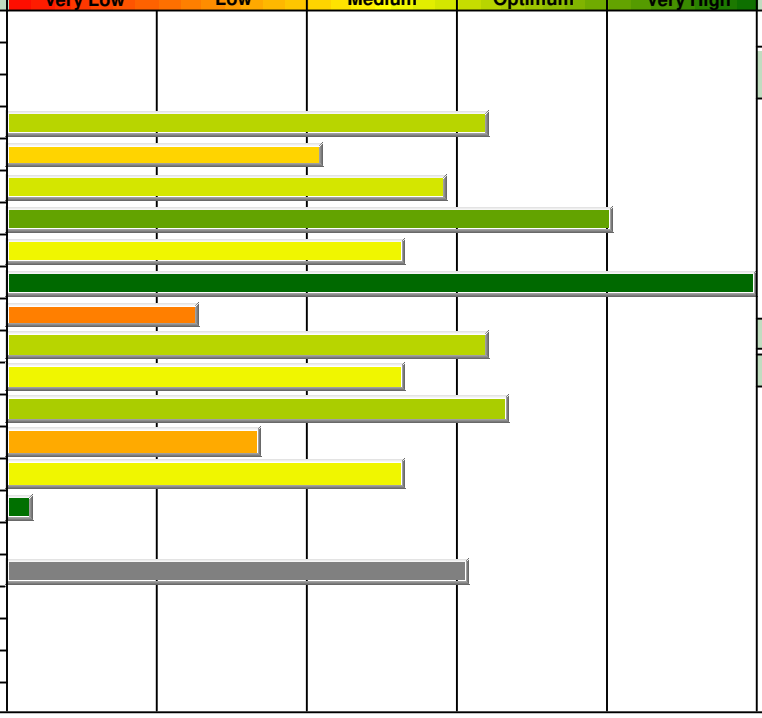
Lab No: 64019 **Field:** Chebanse 80 **Sample ID:** 13

Test	Method	Results
Soil pH	1:1	6.2
Buffer pH	SMP	6.67
Phosphorus		
P1-Wk.Bray	P1	23 ppm
Bicarb-P	Olsen	11 ppm
Phosphorus (P)	M3	30 ppm
Potassium (K)	M3	221 ppm
Calcium (Ca)	M3	2733 ppm
Magnesium (Mg)	M3	588 ppm
Sulfur (S)	M3	6 ppm
Boron (B)	M3	0.8 ppm
Copper (Cu)	M3	2.2 ppm
Iron (Fe)	M3	131 ppm
Manganese (Mn)	M3	21 ppm
Zinc (Zn)	M3	2.5 ppm
Sodium (Na)	M3	11 ppm
Soluble Salts		
Organic Matter	LOI	5.2 % ENR 148
Nitrate Nitrogen		



Calculated Cation Exchange Capacity
21.8 meq/100g

Calculated Cation Saturation

	%sat	meq
K	2.6	0.6
Ca	62.7	13.7
Mg	22.5	4.9
H	11.9	2.6
Na	0.2	0

K/Mg Ratio: 0.12
Ca/Mg Ratio: 2.79

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

Analysis prepared by: Waypoint Analytical Illinois, Inc.

Waypoint ANALYTICAL
2902 Farber Dr Champaign, IL 61822
Main 217.359.7680
www.waypointanalytical.com

SOIL ANALYSIS

Client :
Top Soil Agronomy
Paul Schmid
1528 East 600 North Rd
Cissna Park IL 60924

Grower :
Travis Selby

Farm: Chebanse 80

Report No: 24-151-0926
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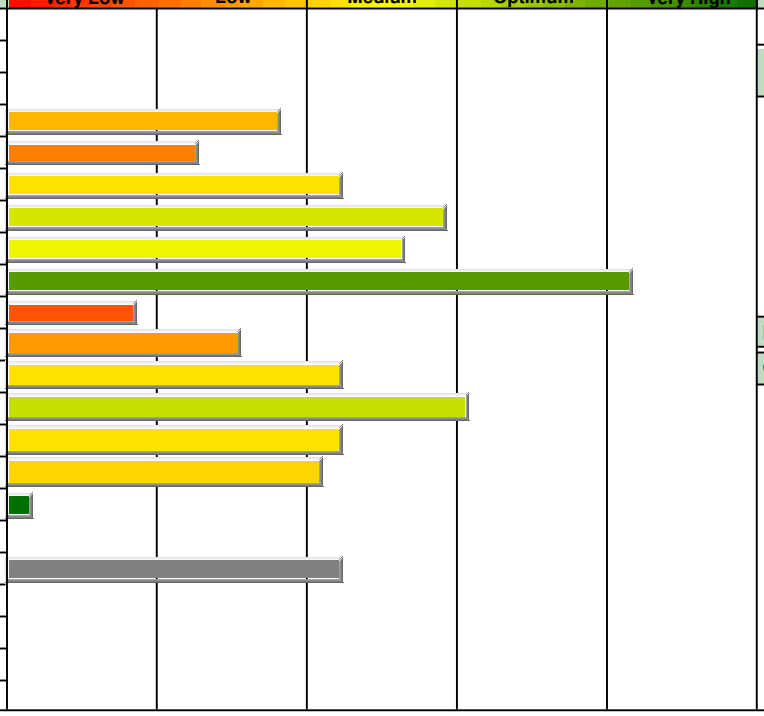
Lab No: 64020 **Field:** Chebanse 80 **Sample ID:** 14

Test	Method	Results
Soil pH	1:1	6.1
Buffer pH	SMP	6.76
Phosphorus		
P1-Wk.Bray	P1	14 ppm
Bicarb-P	Olsen	7 ppm
Phosphorus (P)	M3	18 ppm
Potassium (K)	M3	148 ppm
Calcium (Ca)	M3	1490 ppm
Magnesium (Mg)	M3	284 ppm
Sulfur (S)	M3	4 ppm
Boron (B)	M3	0.3 ppm
Copper (Cu)	M3	1.2 ppm
Iron (Fe)	M3	112 ppm
Manganese (Mn)	M3	44 ppm
Zinc (Zn)	M3	1.8 ppm
Sodium (Na)	M3	9 ppm
Soluble Salts		
Organic Matter	LOI	3.5 % ENR 114
Nitrate Nitrogen		



Calculated Cation Exchange Capacity
11.9 meq/100g

Calculated Cation Saturation

	%sat	meq
K	3.2	0.4
Ca	62.6	7.5
Mg	19.9	2.4
H	14.3	1.7
Na	0.3	0

K/Mg Ratio: 0.16
Ca/Mg Ratio: 3.15

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

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SOIL ANALYSIS

Client :
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Grower :
Travis Selby

Farm: Chebanse 80

Report No: 24-151-0926
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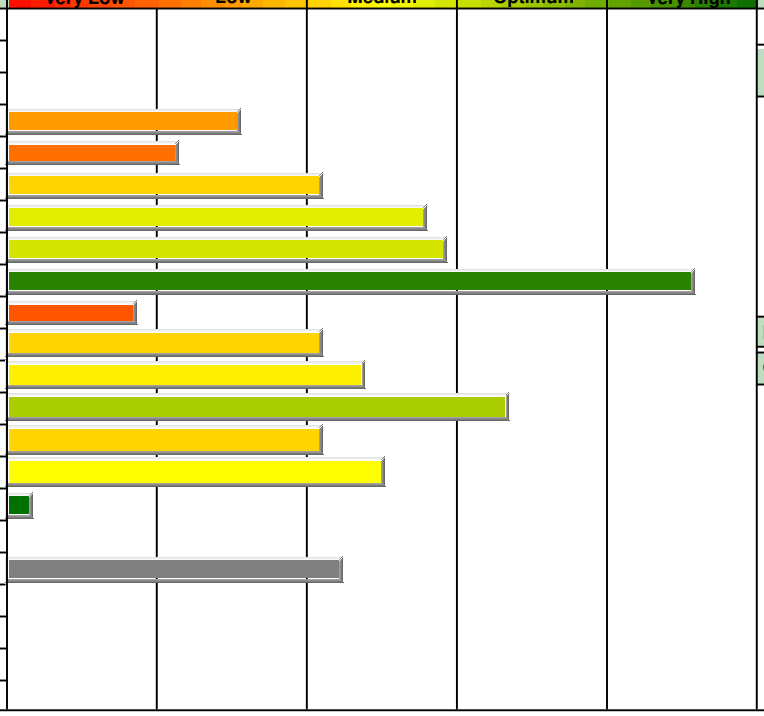
Lab No: 64021 **Field:** Chebanse 80 **Sample ID:** 15

Test	Method	Results
Soil pH	1:1	6.7
Buffer pH		
Phosphorus		
P1-Wk.Bray	P1	12 ppm
Bicarb-P	Olsen	6 ppm
Phosphorus (P)	M3	16 ppm
Potassium (K)	M3	146 ppm
Calcium (Ca)	M3	1973 ppm
Magnesium (Mg)	M3	386 ppm
Sulfur (S)	M3	4 ppm
Boron (B)	M3	0.4 ppm
Copper (Cu)	M3	1.6 ppm
Iron (Fe)	M3	132 ppm
Manganese (Mn)	M3	34 ppm
Zinc (Zn)	M3	2.4 ppm
Sodium (Na)	M3	8 ppm
Soluble Salts		
Organic Matter	LOI	3.5 % ENR 114
Nitrate Nitrogen		



Calculated Cation Exchange Capacity
14.1 meq/100g

Calculated Cation Saturation

	%sat	meq
K	2.7	0.4
Ca	70.0	9.9
Mg	22.8	3.2
H	4.3	0.6
Na	0.2	0

K/Mg Ratio: 0.12
Ca/Mg Ratio: 3.07

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

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Grower :
Travis Selby

Farm: Chebanse 80

Report No: 24-151-0926
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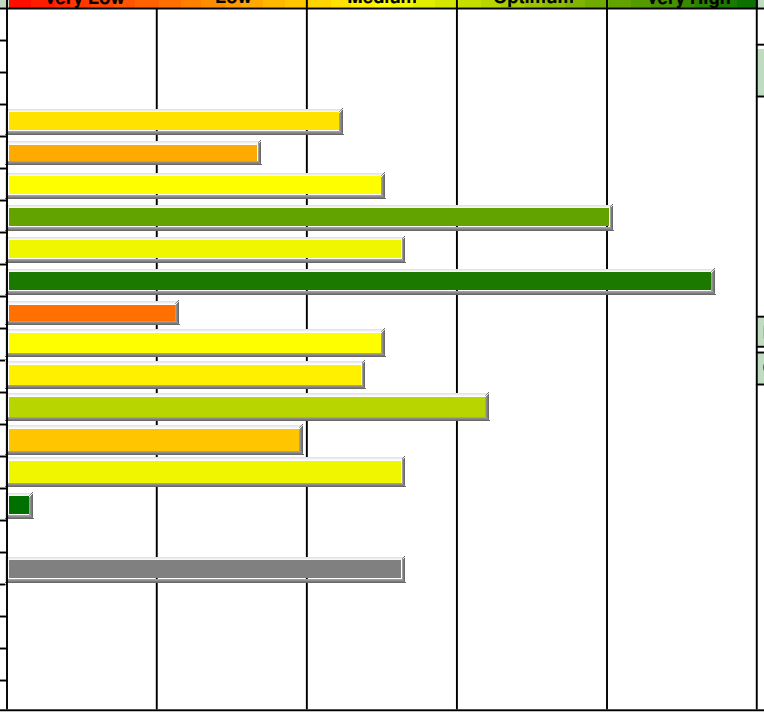
Lab No: 64022 **Field:** Chebanse 80 **Sample ID:** 16

Test	Method	Results
Soil pH	1:1	6.4
Buffer pH	SMP	6.80
Phosphorus		
P1-Wk.Bray	P1	17 ppm
Bicarb-P	Olsen	9 ppm
Phosphorus (P)	M3	23 ppm
Potassium (K)	M3	204 ppm
Calcium (Ca)	M3	1838 ppm
Magnesium (Mg)	M3	413 ppm
Sulfur (S)	M3	5 ppm
Boron (B)	M3	0.5 ppm
Copper (Cu)	M3	1.7 ppm
Iron (Fe)	M3	123 ppm
Manganese (Mn)	M3	24 ppm
Zinc (Zn)	M3	2.5 ppm
Sodium (Na)	M3	8 ppm
Soluble Salts		
Organic Matter	LOI	4.4 % ENR 132
Nitrate Nitrogen		



Calculated Cation Exchange Capacity

14.5 meq/100g

Calculated Cation Saturation

	%sat	meq
K	3.6	0.5
Ca	63.4	9.2
Mg	23.7	3.4
H	9.0	1.3
Na	0.2	0

K/Mg Ratio: 0.15

Ca/Mg Ratio: 2.68

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

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Grower :
Travis Selby

Farm: Chebanse 80

Report No: 24-151-0926
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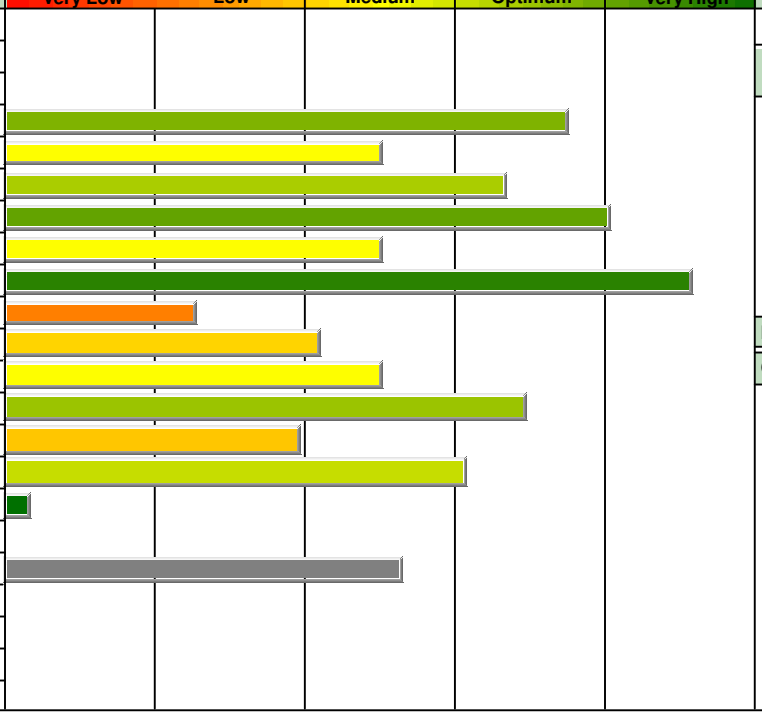
Lab No: 64023 **Field:** Chebanse 80 **Sample ID:** 17

Test	Method	Results
Soil pH	1:1	6.2
Buffer pH	SMP	6.74
Phosphorus		
P1-Wk.Bray	P1	29 ppm
Bicarb-P	Olsen	13 ppm
Phosphorus (P)	M3	38 ppm
Potassium (K)	M3	241 ppm
Calcium (Ca)	M3	1998 ppm
Magnesium (Mg)	M3	424 ppm
Sulfur (S)	M3	6 ppm
Boron (B)	M3	0.4 ppm
Copper (Cu)	M3	2.0 ppm
Iron (Fe)	M3	153 ppm
Manganese (Mn)	M3	25 ppm
Zinc (Zn)	M3	3.4 ppm
Sodium (Na)	M3	9 ppm
Soluble Salts		
Organic Matter	LOI	4.5 % ENR 134
Nitrate Nitrogen		



Calculated Cation Exchange Capacity
16.1 meq/100g

Calculated Cation Saturation

	%sat	meq
K	3.8	0.6
Ca	62.0	10.0
Mg	21.9	3.5
H	11.8	1.9
Na	0.2	0

K/Mg Ratio: 0.17
Ca/Mg Ratio: 2.83

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

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SOIL ANALYSIS

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Cissna Park IL 60924

Grower :
Travis Selby

Farm: Chebanse 80

Report No: 24-151-0926
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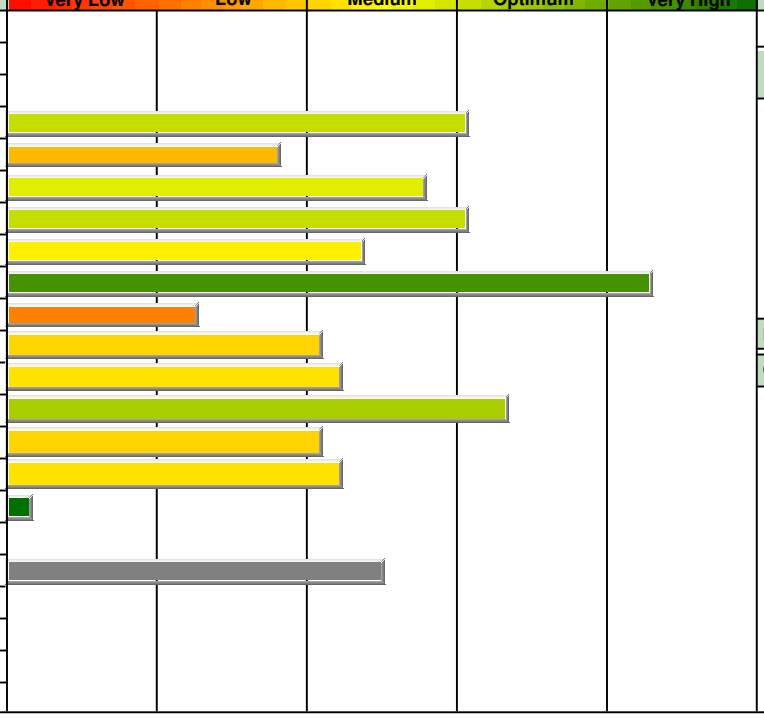
Lab No: 64024 **Field:** Chebanse 80 **Sample ID:** 18

Test	Method	Results
Soil pH	1:1	5.9
Buffer pH	SMP	6.71
Phosphorus		
P1-Wk.Bray	P1	21 ppm
Bicarb-P	Olsen	10 ppm
Phosphorus (P)	M3	28 ppm
Potassium (K)	M3	156 ppm
Calcium (Ca)	M3	1499 ppm
Magnesium (Mg)	M3	329 ppm
Sulfur (S)	M3	6 ppm
Boron (B)	M3	0.4 ppm
Copper (Cu)	M3	1.3 ppm
Iron (Fe)	M3	131 ppm
Manganese (Mn)	M3	26 ppm
Zinc (Zn)	M3	2.0 ppm
Sodium (Na)	M3	9 ppm
Soluble Salts		
Organic Matter	LOI	4.0 % ENR 124
Nitrate Nitrogen		



Calculated Cation Exchange Capacity
12.9 meq/100g

Calculated Cation Saturation

	%sat	meq
K	3.1	0.4
Ca	58.1	7.5
Mg	21.3	2.7
H	17.1	2.2
Na	0.3	0

K/Mg Ratio: 0.15
Ca/Mg Ratio: 2.73

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

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Grower :
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Farm: Chebanse 80

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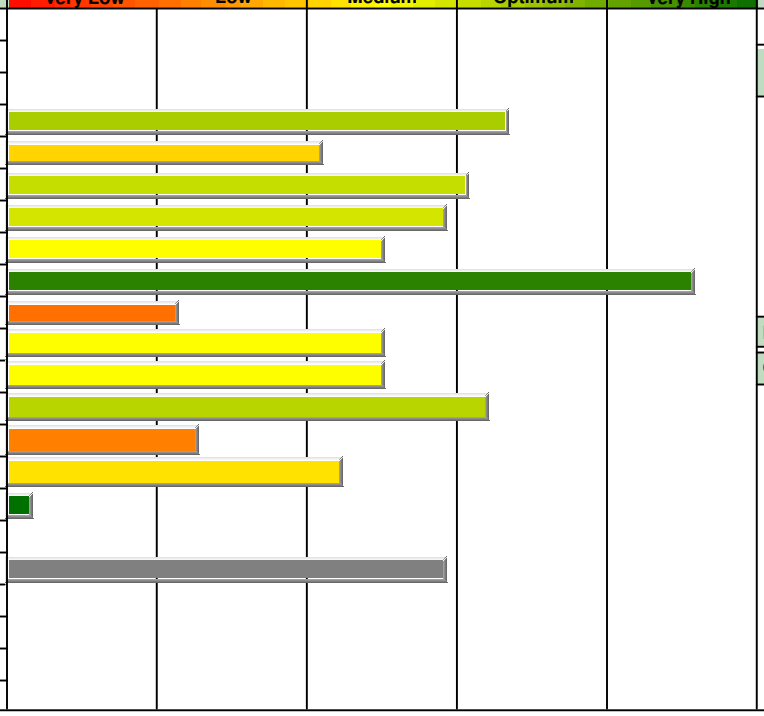
Lab No: 64025 **Field:** Chebanse 80 **Sample ID:** 19

Test	Method	Results
Soil pH	1:1	6.2
Buffer pH	SMP	6.73
Phosphorus		
P1-Wk.Bray	P1	24 ppm
Bicarb-P	Olsen	11 ppm
Phosphorus (P)	M3	31 ppm
Potassium (K)	M3	170 ppm
Calcium (Ca)	M3	2071 ppm
Magnesium (Mg)	M3	449 ppm
Sulfur (S)	M3	5 ppm
Boron (B)	M3	0.5 ppm
Copper (Cu)	M3	1.8 ppm
Iron (Fe)	M3	126 ppm
Manganese (Mn)	M3	15 ppm
Zinc (Zn)	M3	2.0 ppm
Sodium (Na)	M3	8 ppm
Soluble Salts		
Organic Matter	LOI	4.9 % ENR 142
Nitrate Nitrogen		



Calculated Cation Exchange Capacity
16.6 meq/100g

Calculated Cation Saturation

	%sat	meq
K	2.6	0.4
Ca	62.4	10.4
Mg	22.5	3.7
H	12.0	2.0
Na	0.2	0

K/Mg Ratio: 0.12
Ca/Mg Ratio: 2.77

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

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Grower :
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Farm: Chebanse 80

Report No: 24-151-0926
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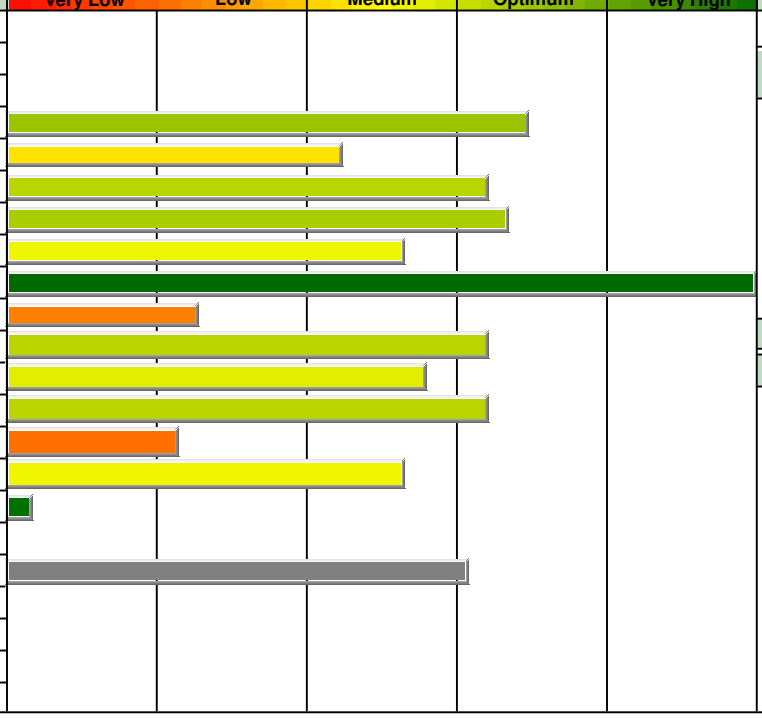
Lab No: 64026 **Field:** Chebanse 80 **Sample ID:** 20

Test	Method	Results
Soil pH	1:1	6.4
Buffer pH	SMP	6.75
Phosphorus		
P1-Wk.Bray	P1	26 ppm
Bicarb-P	Olsen	12 ppm
Phosphorus (P)	M3	34 ppm
Potassium (K)	M3	188 ppm
Calcium (Ca)	M3	2606 ppm
Magnesium (Mg)	M3	596 ppm
Sulfur (S)	M3	6 ppm
Boron (B)	M3	0.8 ppm
Copper (Cu)	M3	2.5 ppm
Iron (Fe)	M3	128 ppm
Manganese (Mn)	M3	12 ppm
Zinc (Zn)	M3	2.5 ppm
Sodium (Na)	M3	10 ppm
Soluble Salts		
Organic Matter	LOI	5.7 % ENR 158
Nitrate Nitrogen		



Calculated Cation Exchange Capacity
20.3 meq/100g

Calculated Cation Saturation

	%sat	meq
K	2.4	0.5
Ca	64.2	13.0
Mg	24.5	5.0
H	8.9	1.8
Na	0.2	0

K/Mg Ratio: 0.10
Ca/Mg Ratio: 2.62

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

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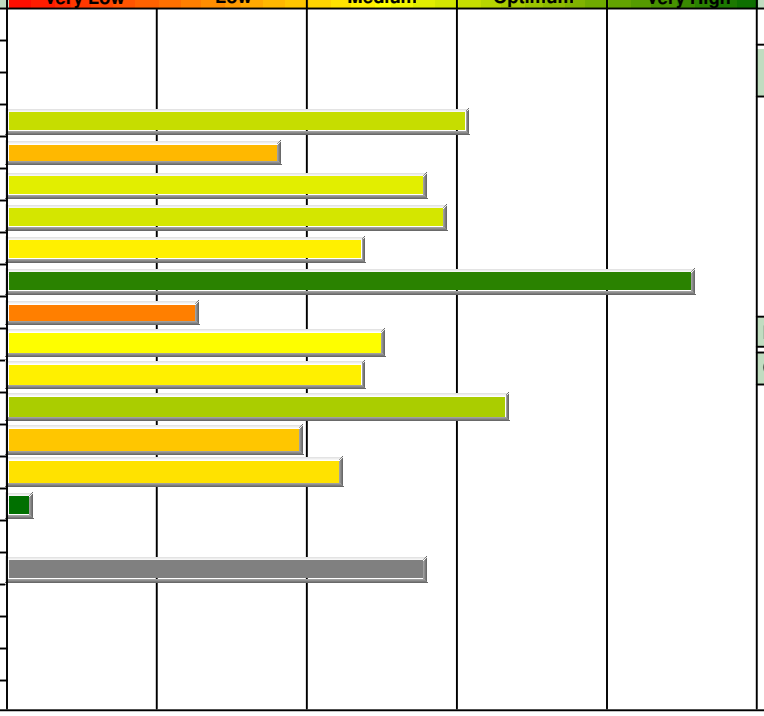
Lab No: 64027 **Field:** Chebanse 80 **Sample ID:** 21

Test	Method	Results
Soil pH	1:1	5.8
Buffer pH	SMP	6.61
Phosphorus		
P1-Wk.Bray	P1	21 ppm
Bicarb-P	Olsen	10 ppm
Phosphorus (P)	M3	28 ppm
Potassium (K)	M3	173 ppm
Calcium (Ca)	M3	1935 ppm
Magnesium (Mg)	M3	433 ppm
Sulfur (S)	M3	6 ppm
Boron (B)	M3	0.5 ppm
Copper (Cu)	M3	1.7 ppm
Iron (Fe)	M3	141 ppm
Manganese (Mn)	M3	24 ppm
Zinc (Zn)	M3	1.9 ppm
Sodium (Na)	M3	8 ppm
Soluble Salts		
Organic Matter	LOI	4.8 % ENR 140
Nitrate Nitrogen		



Calculated Cation Exchange Capacity
17.0 meq/100g

Calculated Cation Saturation

	%sat	meq
K	2.6	0.4
Ca	56.9	9.7
Mg	21.2	3.6
H	18.8	3.2
Na	0.2	0

K/Mg Ratio: 0.12
Ca/Mg Ratio: 2.68

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

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SOIL ANALYSIS

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Grower :
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Farm: Chebanse 80

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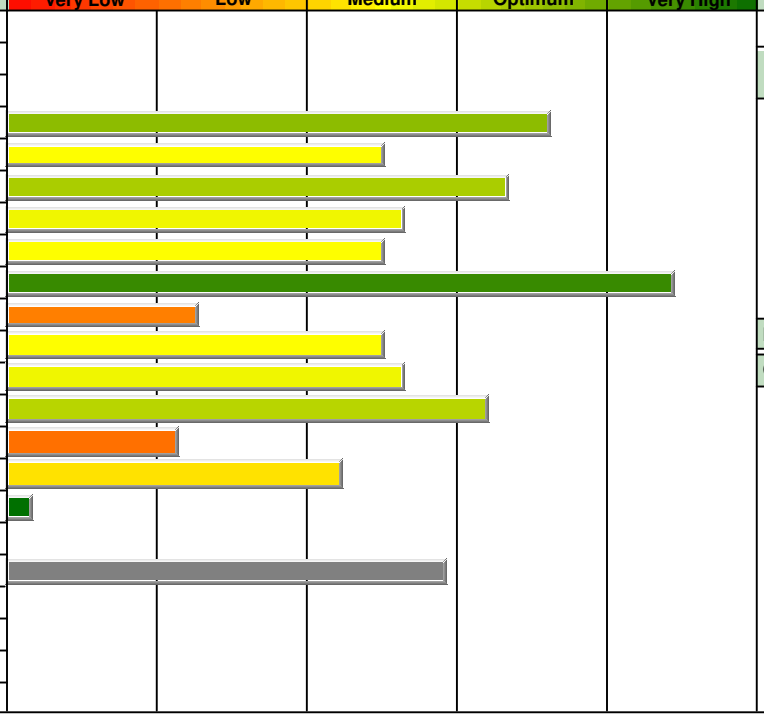
Lab No: 64029 **Field:** Chebanse 80 **Sample ID:** 22

Test	Method	Results
Soil pH	1:1	5.9
Buffer pH	SMP	6.66
Phosphorus		
P1-Wk.Bray	P1	28 ppm
Bicarb-P	Olsen	13 ppm
Phosphorus (P)	M3	37 ppm
Potassium (K)	M3	158 ppm
Calcium (Ca)	M3	1922 ppm
Magnesium (Mg)	M3	403 ppm
Sulfur (S)	M3	6 ppm
Boron (B)	M3	0.5 ppm
Copper (Cu)	M3	2.1 ppm
Iron (Fe)	M3	122 ppm
Manganese (Mn)	M3	12 ppm
Zinc (Zn)	M3	2.0 ppm
Sodium (Na)	M3	9 ppm
Soluble Salts		
Organic Matter	LOI	5.0 % ENR 144
Nitrate Nitrogen		



Calculated Cation Exchange Capacity
16.1 meq/100g

Calculated Cation Saturation

	%sat	meq
K	2.5	0.4
Ca	59.7	9.6
Mg	20.9	3.4
H	16.8	2.7
Na	0.2	0

K/Mg Ratio: 0.12
Ca/Mg Ratio: 2.86

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

Analysis prepared by: Waypoint Analytical Illinois, Inc.

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SOIL ANALYSIS

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Grower :
Travis Selby

Farm: Chebanse 80

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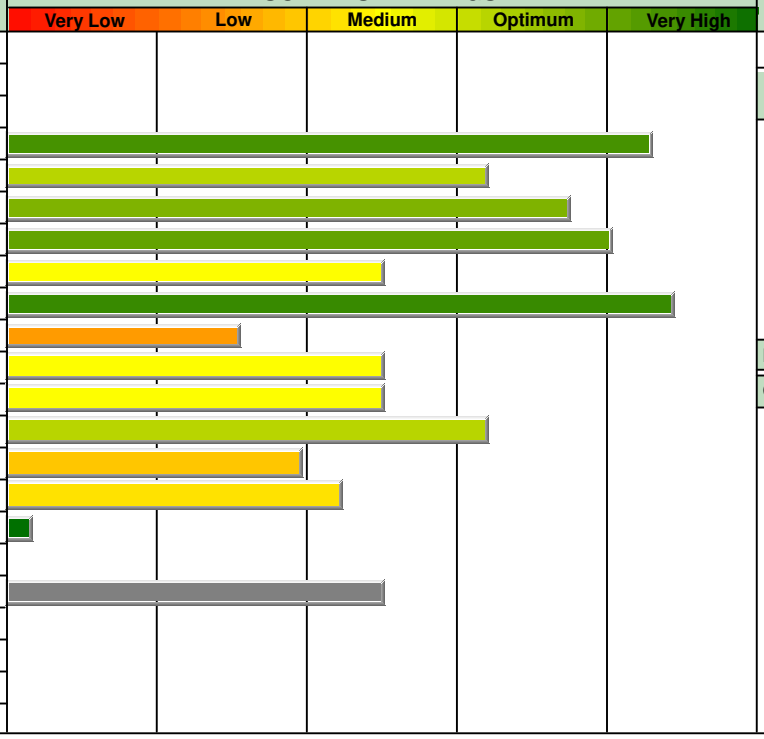
Lab No: 64030 **Field:** Chebanse 80 **Sample ID:** 23

Test	Method	Results
Soil pH	1:1	5.9
Buffer pH	SMP	6.68
Phosphorus		
P1-Wk.Bray	P1	36 ppm
Bicarb-P	Olsen	16 ppm
Phosphorus (P)	M3	47 ppm
Potassium (K)	M3	189 ppm
Calcium (Ca)	M3	1780 ppm
Magnesium (Mg)	M3	338 ppm
Sulfur (S)	M3	8 ppm
Boron (B)	M3	0.5 ppm
Copper (Cu)	M3	1.8 ppm
Iron (Fe)	M3	121 ppm
Manganese (Mn)	M3	24 ppm
Zinc (Zn)	M3	2.0 ppm
Sodium (Na)	M3	10 ppm
Soluble Salts		
Organic Matter	LOI	4.1 % ENR 126
Nitrate Nitrogen		

SOIL TEST RATINGS



Calculated Cation Exchange Capacity

14.7 meq/100g

Calculated Cation Saturation

	%sat	meq
K	3.3	0.5
Ca	60.5	8.9
Mg	19.2	2.8
H	17.0	2.5
Na	0.3	0

K/Mg Ratio: 0.17

Ca/Mg Ratio: 3.15

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

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SOIL ANALYSIS

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Grower :
Travis Selby

Farm: Chebanse 80

Report No: 24-151-0926
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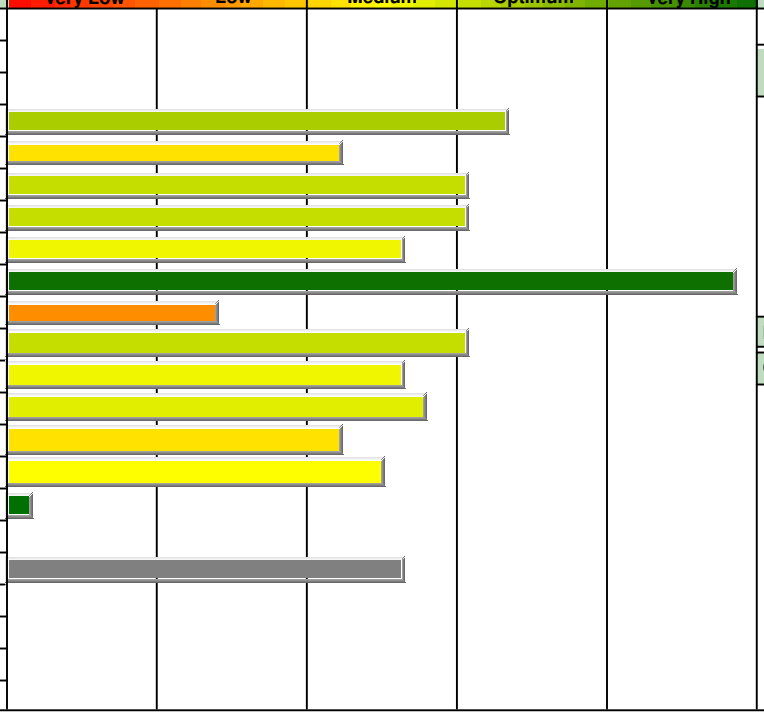
Lab No: 64031 **Field:** Chebanse 80 **Sample ID:** 24

Test	Method	Results
Soil pH	1:1	6.5
Buffer pH		
Phosphorus		
P1-Wk.Bray	P1	24 ppm
Bicarb-P	Olsen	12 ppm
Phosphorus (P)	M3	32 ppm
Potassium (K)	M3	176 ppm
Calcium (Ca)	M3	2044 ppm
Magnesium (Mg)	M3	525 ppm
Sulfur (S)	M3	7 ppm
Boron (B)	M3	0.7 ppm
Copper (Cu)	M3	2.1 ppm
Iron (Fe)	M3	91 ppm
Manganese (Mn)	M3	44 ppm
Zinc (Zn)	M3	2.3 ppm
Sodium (Na)	M3	10 ppm
Soluble Salts		
Organic Matter	LOI	4.3 % ENR 130
Nitrate Nitrogen		



Calculated Cation Exchange Capacity
16.3 meq/100g

Calculated Cation Saturation

	%sat	meq
K	2.8	0.5
Ca	62.7	10.2
Mg	26.8	4.4
H	7.4	1.2
Na	0.3	0

K/Mg Ratio: 0.10
Ca/Mg Ratio: 2.34

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

Analysis prepared by: Waypoint Analytical Illinois, Inc.

Waypoint ANALYTICAL

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Main 217.359.7680
www.waypointanalytical.com

SOIL ANALYSIS

Client :
Top Soil Agronomy
Paul Schmid
1528 East 600 North Rd
Cissna Park IL 60924

Grower :
Travis Selby

Farm: Chebanse 80

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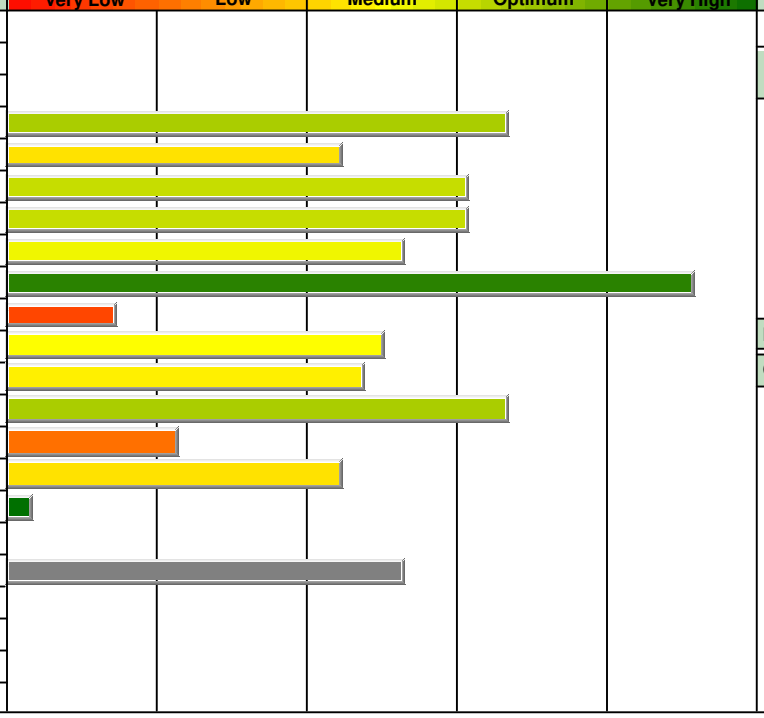
Lab No: 64032 **Field:** Chebanse 80 **Sample ID:** 25

Test	Method	Results
Soil pH	1:1	6.3
Buffer pH	SMP	6.78
Phosphorus		
P1-Wk.Bray	P1	24 ppm
Bicarb-P	Olsen	12 ppm
Phosphorus (P)	M3	32 ppm
Potassium (K)	M3	155 ppm
Calcium (Ca)	M3	1840 ppm
Magnesium (Mg)	M3	392 ppm
Sulfur (S)	M3	3 ppm
Boron (B)	M3	0.5 ppm
Copper (Cu)	M3	1.7 ppm
Iron (Fe)	M3	135 ppm
Manganese (Mn)	M3	12 ppm
Zinc (Zn)	M3	2.0 ppm
Sodium (Na)	M3	10 ppm
Soluble Salts		
Organic Matter	LOI	4.5 % ENR 134
Nitrate Nitrogen		



Calculated Cation Exchange Capacity
14.4 meq/100g

Calculated Cation Saturation

	%sat	meq
K	2.8	0.4
Ca	63.9	9.2
Mg	22.7	3.3
H	10.4	1.5
Na	0.3	0

K/Mg Ratio: 0.12
Ca/Mg Ratio: 2.81

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

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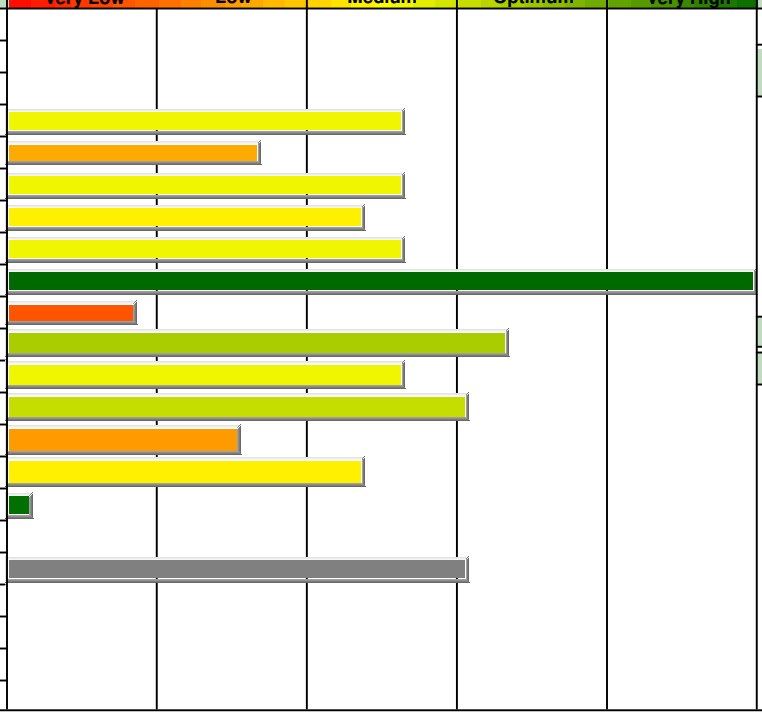
Lab No: 64033 **Field:** Chebanse 80 **Sample ID:** 26

Test	Method	Results
Soil pH	1:1	6.4
Buffer pH	SMP	6.76
Phosphorus		
P1-Wk.Bray	P1	19 ppm
Bicarb-P	Olsen	9 ppm
Phosphorus (P)	M3	25 ppm
Potassium (K)	M3	149 ppm
Calcium (Ca)	M3	2472 ppm
Magnesium (Mg)	M3	581 ppm
Sulfur (S)	M3	4 ppm
Boron (B)	M3	0.9 ppm
Copper (Cu)	M3	2.1 ppm
Iron (Fe)	M3	105 ppm
Manganese (Mn)	M3	19 ppm
Zinc (Zn)	M3	2.1 ppm
Sodium (Na)	M3	10 ppm
Soluble Salts		
Organic Matter	LOI	5.6 % ENR 156
Nitrate Nitrogen		



Calculated Cation Exchange Capacity
19.3 meq/100g

Calculated Cation Saturation

	%sat	meq
K	2.0	0.4
Ca	64.0	12.4
Mg	25.1	4.8
H	8.8	1.7
Na	0.2	0

K/Mg Ratio: 0.08
Ca/Mg Ratio: 2.55

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

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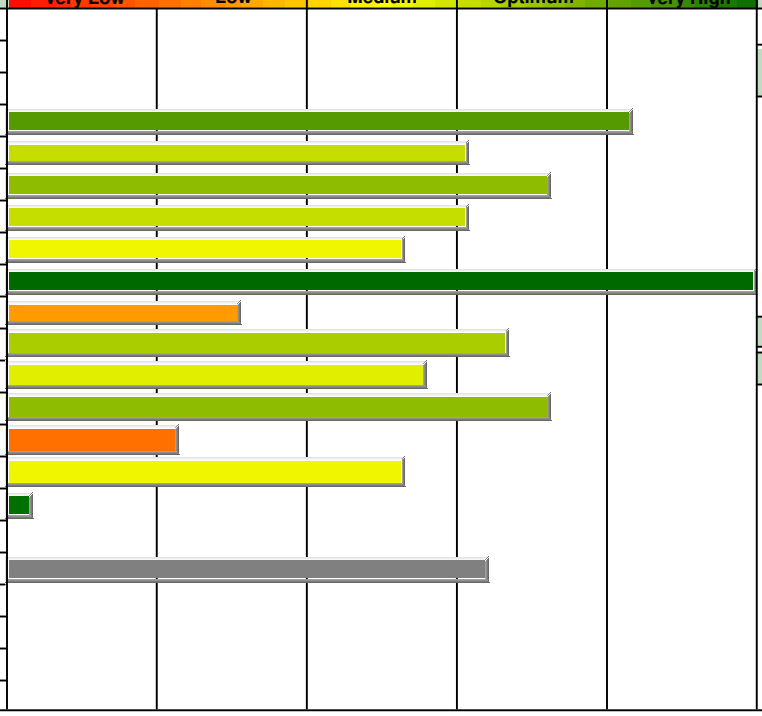
Lab No: 64034 **Field:** Chebanse 80 **Sample ID:** 27

Test	Method	Results
Soil pH	1:1	6.3
Buffer pH	SMP	6.71
Phosphorus		
P1-Wk.Bray	P1	33 ppm
Bicarb-P	Olsen	15 ppm
Phosphorus (P)	M3	43 ppm
Potassium (K)	M3	176 ppm
Calcium (Ca)	M3	2648 ppm
Magnesium (Mg)	M3	573 ppm
Sulfur (S)	M3	8 ppm
Boron (B)	M3	1.0 ppm
Copper (Cu)	M3	2.6 ppm
Iron (Fe)	M3	164 ppm
Manganese (Mn)	M3	13 ppm
Zinc (Zn)	M3	2.6 ppm
Sodium (Na)	M3	11 ppm
Soluble Salts		
Organic Matter	LOI	6.2 % ENR 168
Nitrate Nitrogen		



Calculated Cation Exchange Capacity

20.7 meq/100g

Calculated Cation Saturation

	%sat	meq
K	2.2	0.5
Ca	64.0	13.2
Mg	23.1	4.8
H	10.6	2.2
Na	0.2	0

K/Mg Ratio: 0.09

Ca/Mg Ratio: 2.77

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

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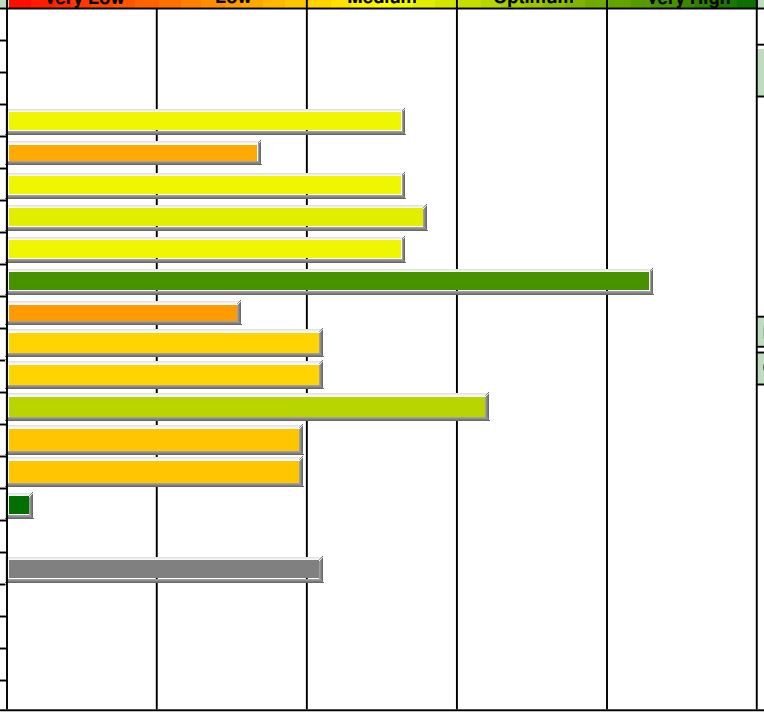
Lab No: 64035 **Field:** Chebanse 80 **Sample ID:** 28

Test	Method	Results
Soil pH	1:1	6.3
Buffer pH	SMP	6.81
Phosphorus		
P1-Wk.Bray	P1	19 ppm
Bicarb-P	Olsen	9 ppm
Phosphorus (P)	M3	25 ppm
Potassium (K)	M3	143 ppm
Calcium (Ca)	M3	1458 ppm
Magnesium (Mg)	M3	309 ppm
Sulfur (S)	M3	8 ppm
Boron (B)	M3	0.4 ppm
Copper (Cu)	M3	1.1 ppm
Iron (Fe)	M3	119 ppm
Manganese (Mn)	M3	25 ppm
Zinc (Zn)	M3	1.5 ppm
Sodium (Na)	M3	11 ppm
Soluble Salts		
Organic Matter	LOI	3.1 % ENR 106
Nitrate Nitrogen		



Calculated Cation Exchange Capacity
11.5 meq/100g

Calculated Cation Saturation

	%sat	meq
K	3.2	0.4
Ca	63.4	7.3
Mg	22.4	2.6
H	10.4	1.2
Na	0.4	0

K/Mg Ratio: 0.14
Ca/Mg Ratio: 2.83

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

Analysis prepared by: Waypoint Analytical Illinois, Inc.

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Lab No: 64036 **Field:** Chebanse 80 **Sample ID:** 29

Test	Method	Results
Soil pH	1:1	6.6
Buffer pH		
Phosphorus		
P1-Wk.Bray	P1	13 ppm
Bicarb-P	Olsen	7 ppm
Phosphorus (P)	M3	17 ppm
Potassium (K)	M3	128 ppm
Calcium (Ca)	M3	1689 ppm
Magnesium (Mg)	M3	345 ppm
Sulfur (S)	M3	3 ppm
Boron (B)	M3	0.4 ppm
Copper (Cu)	M3	1.2 ppm
Iron (Fe)	M3	96 ppm
Manganese (Mn)	M3	26 ppm
Zinc (Zn)	M3	1.7 ppm
Sodium (Na)	M3	10 ppm
Soluble Salts		
Organic Matter	LOI	3.4 % ENR 112
Nitrate Nitrogen		

Calculated Cation Exchange Capacity
12.4 meq/100g

Calculated Cation Saturation

	%sat	meq
K	2.6	0.3
Ca	68.1	8.4
Mg	23.2	2.9
H	5.6	0.7
Na	0.4	0

K/Mg Ratio: 0.11
Ca/Mg Ratio: 2.94

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

Analysis prepared by: Waypoint Analytical Illinois, Inc.

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Grower :
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Farm: Chebanse 80

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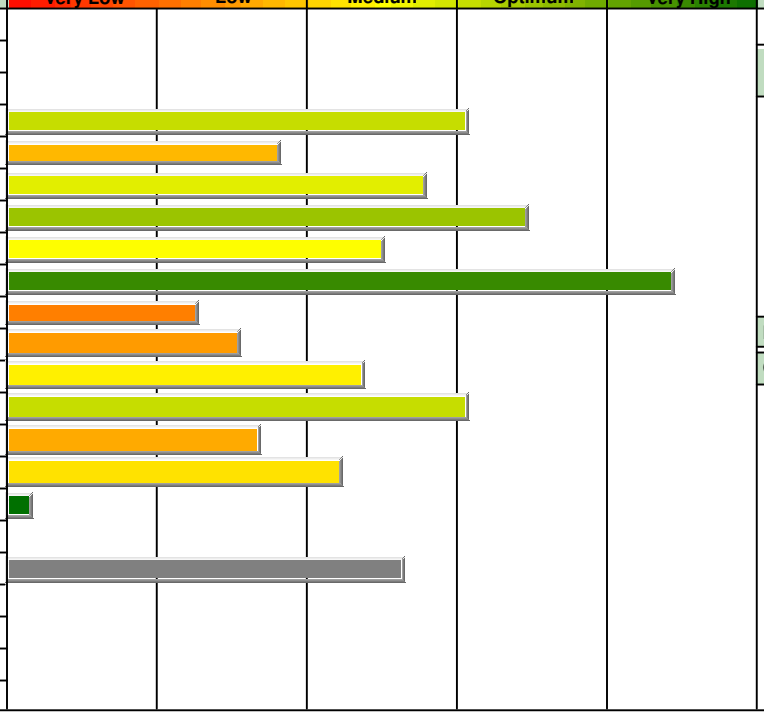
Lab No: 64037 **Field:** Chebanse 80 **Sample ID:** 30

Test	Method	Results
Soil pH	1:1	6.1
Buffer pH	SMP	6.75
Phosphorus		
P1-Wk.Bray	P1	21 ppm
Bicarb-P	Olsen	10 ppm
Phosphorus (P)	M3	28 ppm
Potassium (K)	M3	173 ppm
Calcium (Ca)	M3	1575 ppm
Magnesium (Mg)	M3	338 ppm
Sulfur (S)	M3	6 ppm
Boron (B)	M3	0.3 ppm
Copper (Cu)	M3	1.5 ppm
Iron (Fe)	M3	114 ppm
Manganese (Mn)	M3	21 ppm
Zinc (Zn)	M3	2.0 ppm
Sodium (Na)	M3	10 ppm
Soluble Salts		
Organic Matter	LOI	4.5 % ENR 134
Nitrate Nitrogen		



Calculated Cation Exchange Capacity
13.0 meq/100g

Calculated Cation Saturation

	%sat	meq
K	3.4	0.4
Ca	60.6	7.9
Mg	21.7	2.8
H	13.8	1.8
Na	0.3	0

K/Mg Ratio: 0.16
Ca/Mg Ratio: 2.79

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

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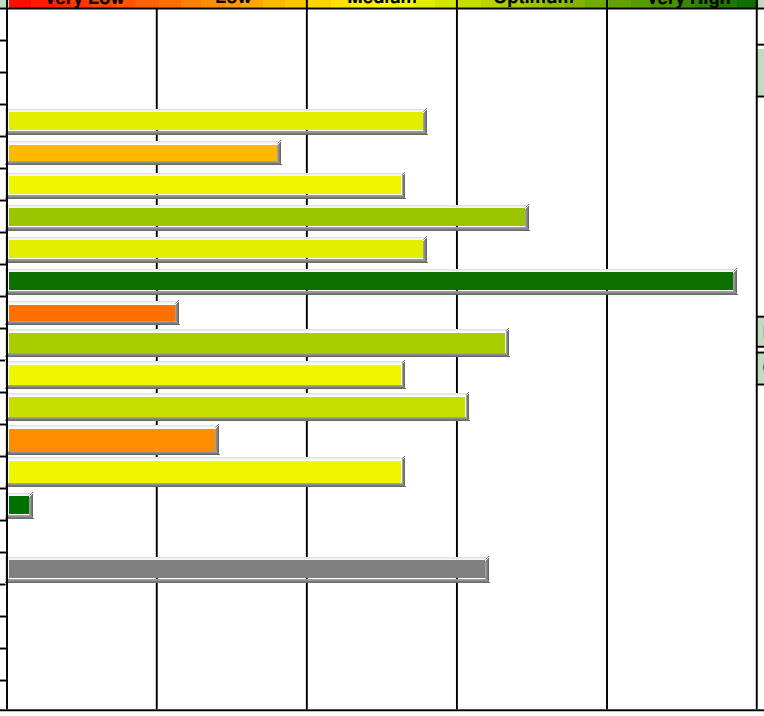
Lab No: 64038 **Field:** Chebanse 80 **Sample ID:** 31

Test	Method	Results
Soil pH	1:1	6.6
Buffer pH		
Phosphorus		
P1-Wk.Bray	P1	20 ppm
Bicarb-P	Olsen	10 ppm
Phosphorus (P)	M3	26 ppm
Potassium (K)	M3	194 ppm
Calcium (Ca)	M3	2313 ppm
Magnesium (Mg)	M3	514 ppm
Sulfur (S)	M3	5 ppm
Boron (B)	M3	0.9 ppm
Copper (Cu)	M3	2.2 ppm
Iron (Fe)	M3	110 ppm
Manganese (Mn)	M3	17 ppm
Zinc (Zn)	M3	2.6 ppm
Sodium (Na)	M3	11 ppm
Soluble Salts		
Organic Matter	LOI	6.2 % ENR 168
Nitrate Nitrogen		



Calculated Cation Exchange Capacity: **17.4** meq/100g

Calculated Cation Saturation

	%sat	meq
K	2.9	0.5
Ca	66.5	11.6
Mg	24.6	4.3
H	5.7	1.0
Na	0.3	0

K/Mg Ratio: 0.12
Ca/Mg Ratio: 2.70

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

M3 - Mehlich 3 SMP - SMP Buffer pH Olsen - Olsen P(c) LOI - Loss On Ignition P1 - Weak Bray P(s) 1:1 - Water pH

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