



Soil Test Sampling Map

Mumm, Mark
Farm: Fred Mumm
Field: Jones Dodd North

Area: 118.22
Sample Date: Jul 12, 2023
Lab Name:



Location:
 County: Champaign, IL
 Township:
 Twp Rng Sec: TSidney R10E S26

Summary Statistics
 Layer Name: Current Test Results
 Sample Count: 35
 LayerID: 28927He4d0

Notes:

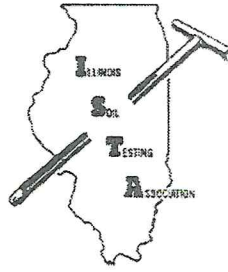


KSI LABORATORIES

202 S. DACEY DR., SHELBYVILLE, ILLINOIS 62565

PHONE (217) 774-2421

www.KSILab.com



OPERATOR: FRED MUMM
FIELD: JONES DODD N
ACRES: 118.2

LAB#: 103481-15 (9082)
DATE: 05/23/2023
SUBMITTED BY: UNITED PRAIRIE/APEX

SOIL TEST RESULTS

SAMPLE#	SOIL pH	BUFFER pH	PHOSPHORUS lbs/A	POTASSIUM lbs/A	CALCIUM lbs/A	MAGNESIUM lbs/A	ORGANIC MATTER %	CATION EXCHANGE CAPACITY	BASE SATURATION			
									%Ca	%Mg	%K	%H
1	7.2	7.0	243	809	6103	912	2.8	20.1	76.0	19.0	5.2	-
2	5.8	6.6	136	618	5334	591	3.0	21.8	61.2	11.3	3.7	23.7
3	5.9	6.6	99	374	6183	858	3.3	25.0	61.9	14.4	2.0	21.8
4	5.6	6.3	115	404	6402	923	3.2	28.3	56.6	13.6	1.9	27.9
5	5.8	6.5	128	459	7067	890	3.3	28.9	61.2	12.9	2.1	23.8
3	5.6	6.3	118	387	6072	973	3.2	27.4	55.5	14.8	1.9	27.8
7	5.9	6.8	82	341	4467	514	2.5	17.6	63.5	12.2	2.5	21.7
3	6.0	6.7	68	321	6955	860	3.4	26.7	65.2	13.5	1.6	19.8
9	5.7	6.4	75	331	6305	937	3.2	27.2	58.0	14.4	1.6	26.0
10	6.1	6.8	95	338	8011	1187	3.3	31.0	64.7	16.0	1.4	17.9
11	5.5	6.2	88	339	6742	1006	3.2	30.7	55.0	13.7	1.5	29.9
	5.4	6.2	111	417	6235	919	3.0	29.3	53.2	13.1	1.9	31.8
	5.5	6.2	88	374	5083	661	3.4	22.8	55.8	12.1	2.2	29.9
14	5.7	6.4	75	351	4795	580	3.2	20.1	59.7	12.1	2.3	25.9
15	5.6	6.3	73	308	4627	578	3.3	20.0	57.9	12.1	2.0	28.0
16	5.8	6.5	80	385	5669	764	3.4	23.5	60.4	13.6	2.2	23.9
17	5.8	6.5	77	373	5527	578	3.2	22.0	62.9	11.0	2.2	23.9
18	5.5	6.2	108	370	6220	827	3.4	27.8	56.0	12.4	1.8	29.8
19	5.5	6.2	58	333	4630	575	3.2	20.6	56.2	11.7	2.1	30.0
20	5.6	6.3	66	322	4890	582	3.3	20.9	58.5	11.7	2.0	27.8
21	5.7	6.4	95	409	6000	830	3.4	25.7	58.4	13.5	2.1	26.0
22	5.5	6.3	65	327	4814	635	2.8	21.6	55.8	12.3	2.0	29.9
23	5.8	6.5	73	329	5118	685	3.2	21.1	60.7	13.6	2.0	23.7
24	5.6	6.4	74	356	4326	623	3.0	19.3	56.1	13.5	2.4	28.0
25	6.4	7.0	136	407	7614	1377	3.3	28.7	66.4	20.0	1.9	11.7
26	5.8	6.5	98	359	6637	1100	3.2	28.5	58.3	16.1	1.7	23.9
27	5.8	6.5	91	365	5918	906	3.2	25.0	59.2	15.2	1.9	23.7
28	5.5	6.2	119	398	6516	1030	3.4	30.1	54.2	14.3	1.7	29.8
29	5.4	6.2	90	346	5566	683	3.0	25.3	55.1	11.3	1.8	31.8
30	5.7	6.4	140	392	7559	1113	3.3	32.5	58.2	14.3	1.6	25.9
31	5.6	6.4	123	394	7313	1075	2.8	32.3	56.7	13.9	1.6	27.8
32	5.5	6.3	110	390	6346	918	3.0	28.8	55.1	13.3	1.8	29.7
33	5.5	6.2	65	335	6092	883	3.3	27.6	55.2	13.4	1.6	29.8
34	5.6	6.3	100	325	4868	723	3.2	21.7	56.1	13.9	2.0	28.0
35	5.7	6.4	123	425	4911	568	3.3	20.5	59.9	11.6	2.7	25.8
AVERAGE	5.7	6.4	100	386	5912	825	3.2	25.2	59.0	13.6	2.1	26.1
AVE.	5.7											
>1 AVE.	91											
< AVE.	366											

EXTRACTED SAMPLES: 1,25,
EXTRACTED SAMPLES: 1, 2,25,30,
EXTRACTED SAMPLES: 1, 2,



KSI LABORATORIES

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OPERATOR: FRED MUMM
FIELD: JONES DODD N
ACRES: 118.2

LAB#: 103481-15 (9082)
DATE: 05/23/2023
SUBMITTED BY: UNITED PRAIRIE/APEX

SOIL TEST RESULTS

SAMPLE#	SOIL pH	BUFFER pH	PHOSPHORUS lbs/A	POTASSIUM lbs/A	CALCIUM lbs/A	MAGNESIUM lbs/A	ORGANIC MATTER %	CATION EXCHANGE CAPACITY	BASE SATURATION			
									%Ca	%Mg	%K	%H
MICRO NUTRIENT TEST RESULTS												
SAMPLE	S Lbs/a	Zn Lbs/a	Fe Lbs/a	Mn Lbs/a	Cu Lbs/a	B Lbs/a	Na Lbs/a	SALT mmhos	NO3 PPM	NH4 PPM		
1	35	73.9	95	90	12.5	3.8	33	-	-	-		
2	26	8.2	147	54	4.2	1.7	39	-	-	-		
3	41	4.3	138	41	4.7	1.7	33	-	-	-		
4	36	3.3	129	32	5.2	1.6	26	-	-	-		
5	31	4.0	175	32	6.8	1.8	22	-	-	-		
6	34	3.1	143	33	5.6	1.5	26	-	-	-		
7	30	2.5	94	60	3.0	1.1	28	-	-	-		
8	22	3.0	132	50	5.1	2.0	29	-	-	-		
9	37	2.6	134	35	5.2	1.8	24	-	-	-		
	27	3.2	115	26	7.1	1.8	36	-	-	-		
	45	3.2	113	35	4.9	1.8	30	-	-	-		
12	44	4.4	143	36	5.5	1.7	28	-	-	-		
13	33	12.2	134	58	5.3	1.8	26	-	-	-		
14	41	3.1	97	63	2.9	1.2	24	-	-	-		
15	39	2.3	108	47	3.1	1.2	21	-	-	-		
16	33	4.1	107	65	4.5	1.5	25	-	-	-		
17	30	3.5	115	75	4.0	1.5	31	-	-	-		
18	44	3.6	126	42	5.0	1.6	29	-	-	-		
19	37	1.9	97	60	2.8	1.1	35	-	-	-		
20	38	3.0	100	56	3.3	1.2	30	-	-	-		
21	27	3.3	111	46	4.9	1.5	26	-	-	-		
22	37	2.2	97	64	2.9	1.2	33	-	-	-		
23	39	3.0	115	45	3.8	1.4	28	-	-	-		
24	62	3.2	109	63	3.4	1.3	29	-	-	-		
25	32	4.6	108	36	6.1	2.2	33	-	-	-		
26	31	2.9	118	29	5.2	1.8	37	-	-	-		
27	34	3.1	123	35	4.6	1.9	39	-	-	-		
28	35	3.6	131	35	5.4	1.6	27	-	-	-		
29	48	2.4	125	53	4.2	1.6	30	-	-	-		
30	69	3.5	139	29	6.9	1.7	34	-	-	-		
31	32	3.2	161	26	7.1	1.6	31	-	-	-		
32	27	2.7	160	29	5.7	1.8	28	-	-	-		
33	49	3.0	119	33	5.0	1.6	33	-	-	-		
34	42	3.7	164	38	3.8	1.7	28	-	-	-		

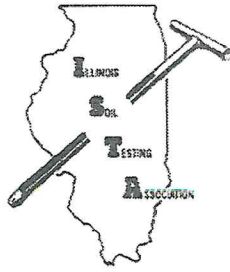


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OPERATOR: FRED MUMM
FIELD: JONES DODD N
ACRES: 118.2

LAB#: 103481-15 (9082)
DATE: 05/23/2023
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SOIL TEST RESULTS

SAMPLE#	SOIL pH	BUFFER pH	PHOSPHORUS lbs/A	POTASSIUM lbs/A	CALCIUM lbs/A	MAGNESIUM lbs/A	ORGANIC MATTER %	CATION EXCHANGE CAPACITY	BASE SATURATION			
									%Ca	%Mg	%K	%H
MICRO NUTRIENT TEST RESULTS												
SAMPLE	S	Zn	Fe	Mn	Cu	B	Na	SALT	NO3	NH4		
	Lbs/a	Lbs/a	Lbs/a	Lbs/a	Lbs/a	Lbs/a	Lbs/a	mmhos	PPM	PPM		
35	41	3.9	153	40	3.7	1.4	34	-	-	-		
verage	37	5.6	125	45	5.0	1.6	30	-	-	-		



Recommendation Map Report

Mumm, Mark

Crop Year: 2023

Farm: Fred Mumm

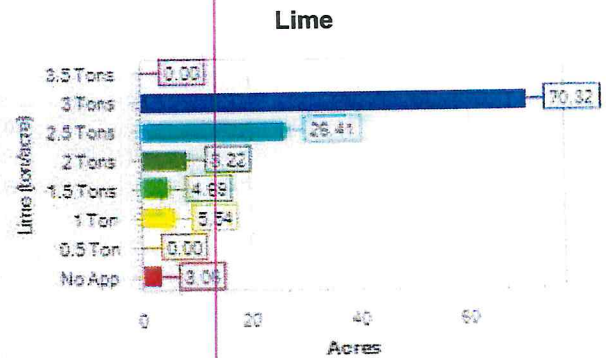
Field: Jones Dodd North

Crop Zone: Soybeans



Area: 118.22
 County: Champaign, IL
 Township:
 Twp Rng Sec: TSidney R10E S26
 Directions:

Application Notes:



Product Summary:

Operation: 2023 235/75 CEC Product Recs

Product: Lime

Area (acres)

Total: 118.22

App: 115.16

Rate (tons/acre)

Switch Setpoint: 0.50

Max Setpoint: 3.00

Min Setpoint: 1.00

Subtractor: 0.00

Multiplier: 0.00

Out of Field: 0.00

Default Rate: 0.00

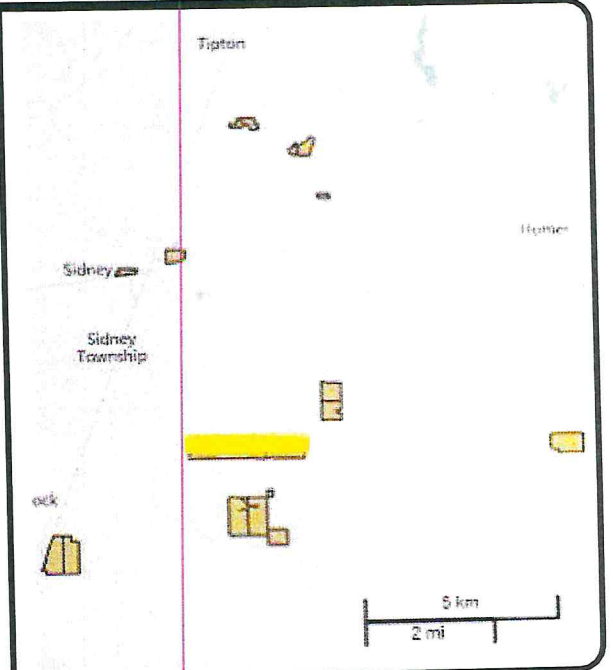
Average (total): 2.59 (tons/acre)

Average (app): 2.66 (tons/acre)

Minimum: 1.00

Maximum: 3.00

Quantity: 305.97 (tons)





Recommendation Map Report

Mumm, Mark

Crop Year: 2023

Farm: Fred Mumm

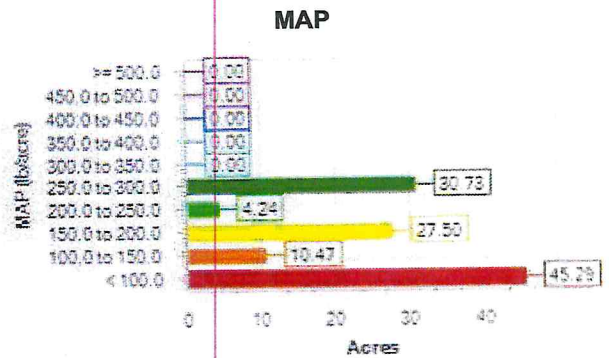
Field: Jones Dodd North

Crop Zone: Soybeans



Area: 118.22
 County: Champaign, IL
 Township:
 Twp Rng Sec: T Sidney R10E S26
 Directions:

Application Notes:



Product Summary:

Operation: 2023 235/75 CEC Product Recs
 Product: MAP

Area (acres)

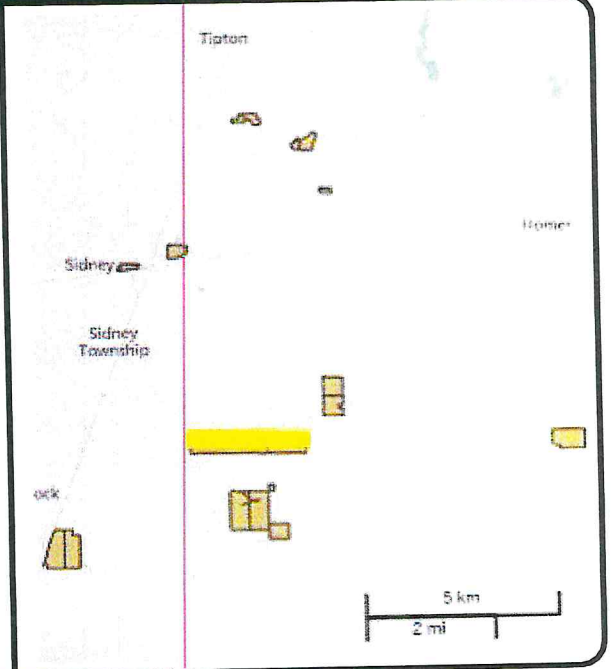
Total: 118.22
 App: 72.93

Rate (pounds/acre)

Switch Setpoint: 50.00
 Max Setpoint: 450.00
 Min Setpoint: 100.00
 Subtractor: 0.00
 Multiplier: 0.00
 Out of Field: 0.00
 Default Rate: 0.00

Average (total): 126.92 (pounds/acre)
 Average (app): 205.74 (pounds/acre)
 Minimum: 100.00
 Maximum: 275.00

Quantity: 15,005 (pounds)
 7.50 (tons)





Recommendation Map Report

Mumm, Mark

Crop Year: 2023

Farm: Fred Mumm

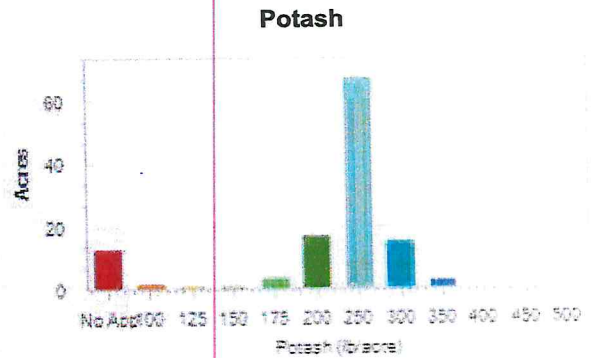
Field: Jones Dodd North

Crop Zone: Soybeans



Area: 118.22
 County: Champaign, IL
 Township:
 Twp Rng Sec: T Sidney R10E S26
 Directions:

Application Notes:



Product Summary:

Operation: 2023 235/75 CEC Product Recs
 Product: Potash

Area (acres)

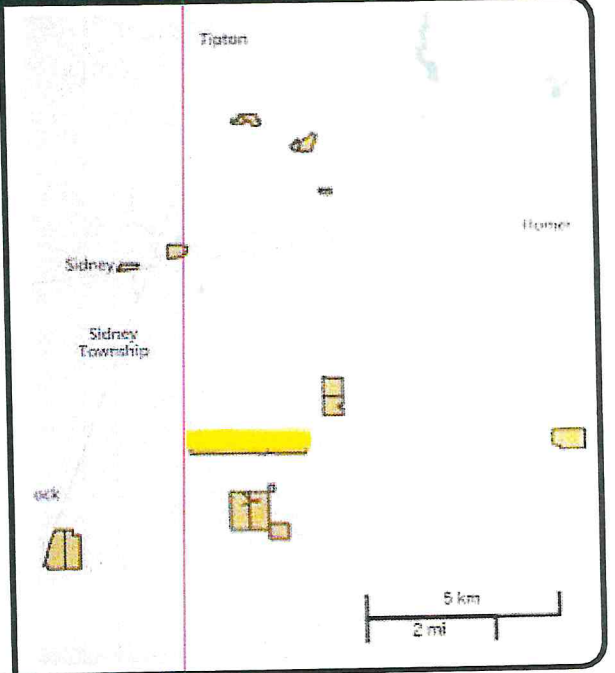
Total: 118.22
 App: 105.86

Rate (pounds/acre)

Switch Setpoint: 50.00
 Max Setpoint: 450.00
 Min Setpoint: 100.00
 Subtractor: 0.00
 Multiplier: 0.00
 Out of Field: 0.00
 Default Rate: 0.00

Average (total): 223.55 (pounds/acre)
 Average (app): 249.66 (pounds/acre)
 Minimum: 100.00
 Maximum: 350.00

Quantity: 26,429 (pounds)
 13.21 (tons)

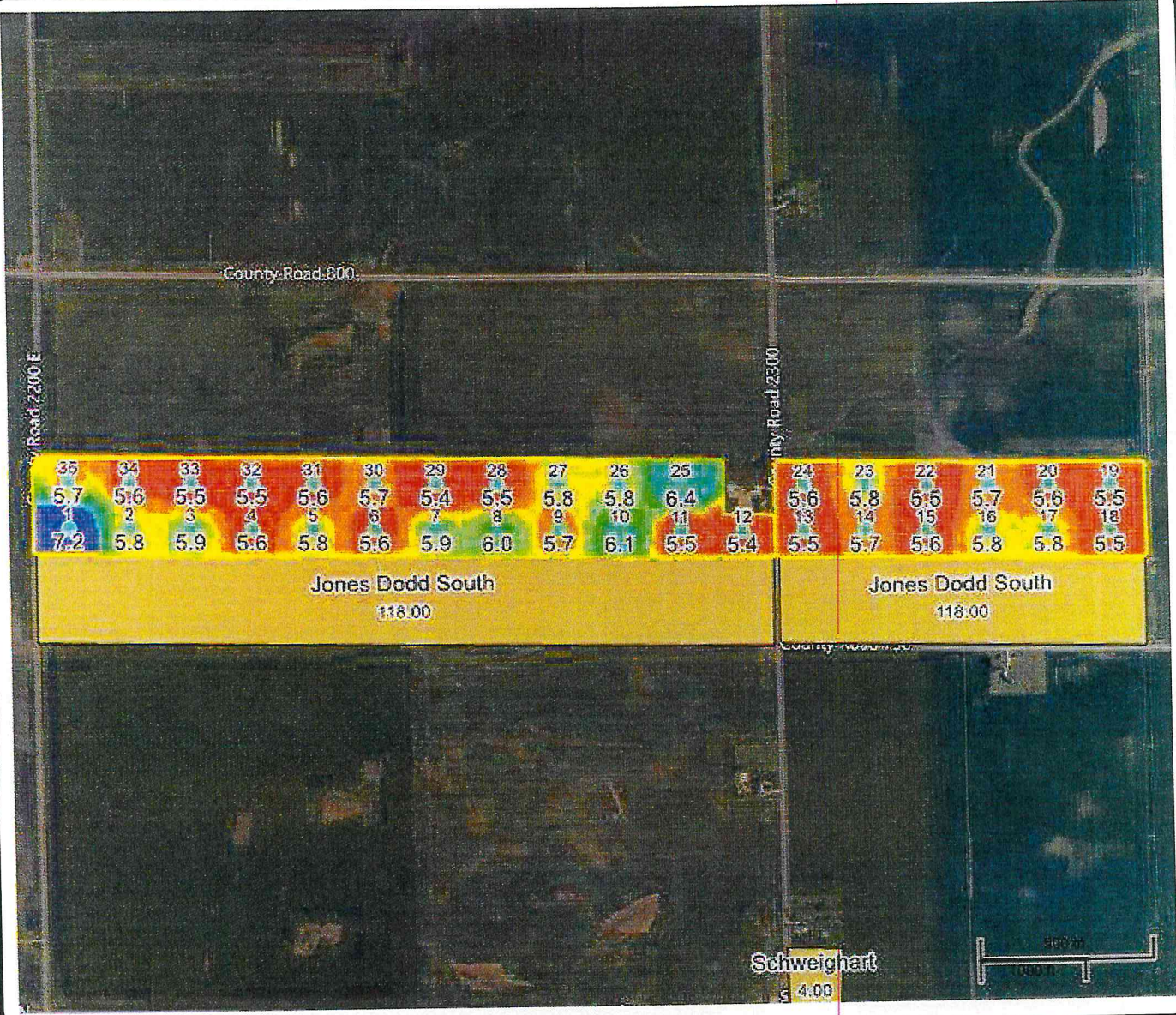




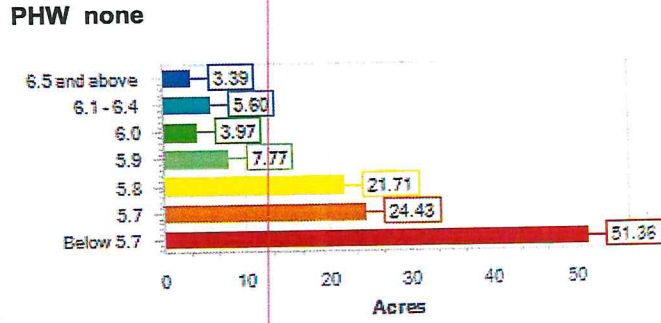
Soil Test Map Report - PHW

Mumm, Mark
Farm: Fred Mumm
Field Jones Dodd North

Area: 118.22
Sample Date Jul 12, 2023
Lab Name



Location:
County: Champaign, IL
Township:
Twp Rng Sec: T Sidney R10E S26
Summary Statistics
Layer Name Current Test Results
Sample Count 35
Minimum 5.4
Maximum 7.2
Average Rate 5.74
Weighted Average: 5.74

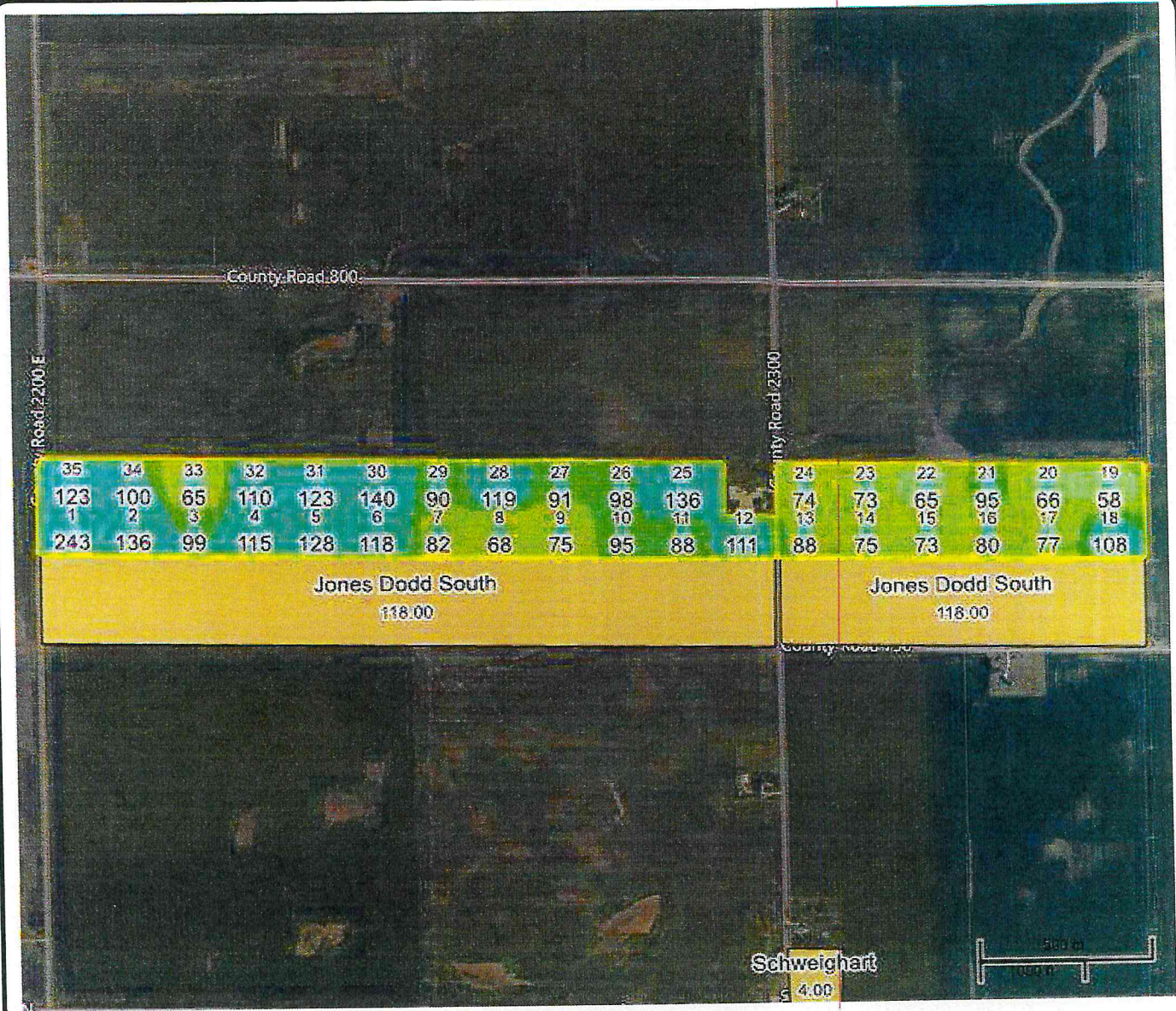




Soil Test Map Report - P1

Mumm, Mark
Farm: Fred Mumm
Field Jones Dodd North

Area: 118.22
Sample Date Jul 12, 2023
Lab Name



Location:

County: Champaign, IL

Township:

Twp Rng Sec: T Sidney R10E S26

Summary Statistics

Layer Name Current Test Results

Sample Count 35

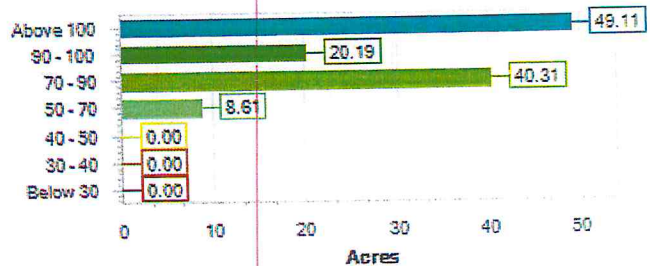
Minimum 58

Maximum 243

Average Rate 100.03

Weighted Average: 100.01

P1 lbs per acre (st)





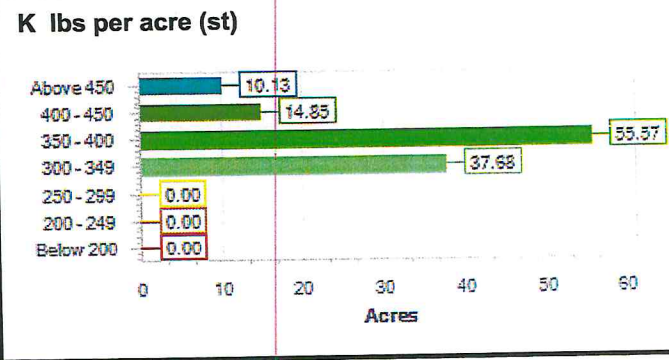
Soil Test Map Report - K

Mumm, Mark
Farm: Fred Mumm
Field: Jones Dodd North

Area: 118.22
Sample Date: Jul 12, 2023
Lab Name:



Location:
County: Champaign, IL
Township:
Twp Rng Sec: T Sidney R10E S26
Summary Statistics
Layer Name: Current Test Results
Sample Count: 35
Minimum: 308
Maximum: 809
Average Rate: 386.83
Weighted Average: 386.77





Soil Test Map Report - OM

Mumm, Mark
Farm: Fred Mumm
Field Jones Dodd North

Area: 118.22
Sample Date Jul 12, 2023
Lab Name



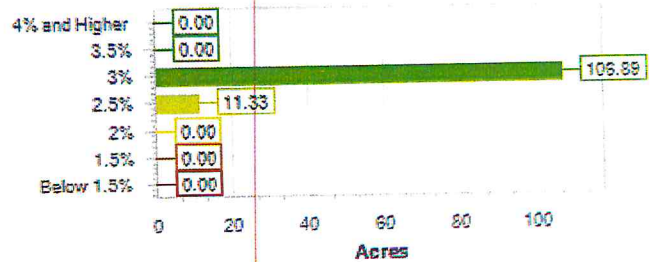
Location:

County: Champaign, IL
Township:
Twp Rng Sec: T Sidney R10E S26

Summary Statistics

Layer Name Current Test Results
Sample Count 35
Minimum 2.5
Maximum 3.4
Average Rate 3.18
Weighted Average: 3.18

OM none





Soil Test Map Report - CEC

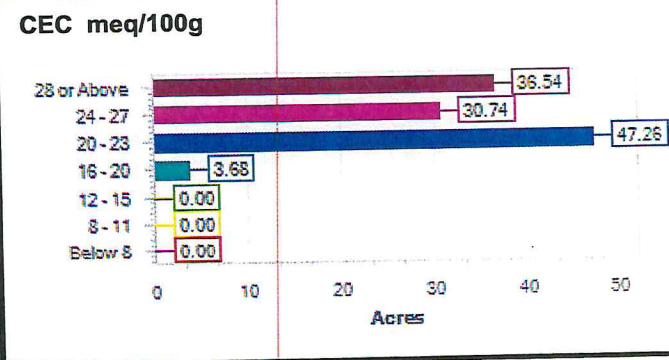
Mumm, Mark
Farm: Fred Mumm
Field Jones Dodd North

Area: 118.22
Sample Date Jul 12, 2023
Lab Name



Location:
County: Champaign, IL
Township:
Twp Rng Sec: T Sidney R10E S26

Summary Statistics
Layer Name Current Test Results
Sample Count 35
Minimum 17.6
Maximum 32.5
Average Rate 25.17
Weighted Average: 25.18





Soil Types

Mumm, Mark

Area: 118.22

Farm: Fred Mumm

Field: Jones Dodd North



Location:







County: Champaign, IL

Township:

Twp Rng Sec: T Sidney R10E S26

Directions:

MuSym by Acres

	152A - Drummer silty clay loam, 0 to 2 percent sl	51.25
	56B - Dana silt loam, 2 to 5 percent slopes	30.17
	154A - Flanagan silt loam, 0 to 2 percent slopes	27.72
	153A - Pella silty clay loam, 0 to 2 percent slopes	5.77
	171B - Catlin silt loam, 2 to 5 percent slopes	2.40
	622C2 - Wyanet silt loam, 5 to 10 percent slopes	0.92



Soil Test Summary

Mumm, Mark

Farm: Fred Mumm

Field: Jones Dodd North

Area: 118.22

Sample Date: Jul 12, 2023

Lab Name:

SampleID	PHW	PHB	P1	K	OM	CA	MG	CEC	PERK	PERCA	PERMG
none	none	none	lbs per acre (st)	lbs per acre (st)	none	lbs per acre (st)	lbs per acre (st)	meq/100g	percent	percent	percent
1	7.2	7.0	243	809	2.8	6,103	912	20.1	5.2	76.0	19.0
2	5.8	6.6	136	618	3.0	5,334	591	21.8	3.7	61.2	11.3
3	5.9	6.6	99	374	3.3	6,183	858	25.0	2.0	61.9	14.4
4	5.6	6.3	115	404	3.2	6,402	923	28.3	1.9	56.6	13.6
5	5.8	6.5	128	459	3.3	7,067	890	28.9	2.1	61.2	12.9
6	5.6	6.3	118	387	3.2	6,072	973	27.4	1.9	55.5	14.8
7	5.9	6.8	82	341	2.5	4,467	514	17.6	2.5	63.5	12.2
8	6.0	6.7	68	321	3.4	6,955	860	26.7	1.6	65.2	13.5
9	5.7	6.4	75	331	3.2	6,305	937	27.2	1.6	58.0	14.4
10	6.1	6.8	95	338	3.3	8,011	1,187	31.0	1.4	64.7	16.0
11	5.5	6.2	88	339	3.2	6,742	1,006	30.7	1.5	55.0	13.7
12	5.4	6.2	111	417	3.0	6,235	919	29.3	1.9	53.2	13.1
13	5.5	6.2	88	374	3.4	5,083	661	22.8	2.2	55.8	12.1
14	5.7	6.4	75	351	3.2	4,795	580	20.1	2.3	59.7	12.1
15	5.6	6.3	73	308	3.3	4,627	578	20.0	2.0	57.9	12.1
16	5.8	6.5	80	385	3.4	5,669	764	23.5	2.2	60.4	13.6
17	5.8	6.5	77	373	3.2	5,527	578	22.0	2.2	62.9	11.0
18	5.5	6.2	108	370	3.4	6,220	827	27.8	1.8	56.0	12.4
19	5.5	6.2	58	333	3.2	4,630	575	20.6	2.1	56.2	11.7
20	5.6	6.3	66	322	3.3	4,890	582	20.9	2.0	58.5	11.7
21	5.7	6.4	95	409	3.4	6,000	830	25.7	2.1	58.4	13.5
22	5.5	6.3	65	327	2.8	4,814	635	21.6	2.0	55.8	12.3
23	5.8	6.5	73	329	3.2	5,118	685	21.1	2.0	60.7	13.6
24	5.6	6.4	74	356	3.0	4,326	623	19.3	2.4	56.1	13.5
25	6.4	7.0	136	407	3.3	7,614	1,377	28.7	1.9	66.4	20.0
26	5.8	6.5	98	359	3.2	6,637	1,100	28.5	1.7	58.3	16.1
27	5.8	6.5	91	365	3.2	5,918	906	25.0	1.9	59.2	15.2
28	5.5	6.2	119	398	3.4	6,516	1,030	30.1	1.7	54.2	14.3
29	5.4	6.2	90	346	3.0	5,566	683	25.3	1.8	55.1	11.3
30	5.7	6.4	140	392	3.3	7,559	1,113	32.5	1.6	58.2	14.3
31	5.6	6.4	123	394	2.8	7,313	1,075	32.3	1.6	56.7	13.9
32	5.5	6.3	110	390	3.0	6,346	918	28.8	1.8	55.1	13.3
33	5.5	6.2	65	335	3.3	6,092	883	27.6	1.6	55.2	13.4
34	5.6	6.3	100	325	3.2	4,868	723	21.7	2.0	56.1	13.9
35	5.7	6.4	123	425	3.3	4,911	568	20.5	2.7	59.9	11.6
Average:	5.7	6.4	100	386	3.2	5,912	825	25.2	2.1	59.0	13.6