



# Soil Test Sampling Map

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

Area: 119.41  
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: 36  
 LayerID: 28935H18b6

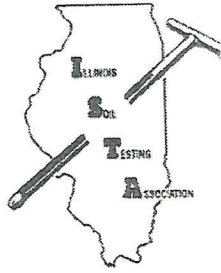
**Notes:**





# KSI LABORATORIES

202 S. DACEY DR., SHELBYVILLE, ILLINOIS 62565  
 PHONE (217) 774-2421  
 www.KSILab.com



**OPERATOR:** FRED MUMM  
**FIELD:** JONES DODD S  
**ACRES:** 119.4

**LAB#:** 103384-19 (9076)  
**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	6.2	7.0	106	745	3926	428	2.7	14.9	65.9	12.0	6.5	15.6
2	5.9	6.7	65	452	3795	570	2.7	16.0	59.3	14.9	3.7	22.1
3	5.7	6.5	70	340	3576	596	2.8	16.0	55.9	15.6	2.8	25.7
4	6.1	6.9	88	411	5351	1000	3.0	22.0	60.9	19.0	2.4	17.7
5	5.8	6.6	63	342	4175	746	2.8	18.4	56.8	16.9	2.4	23.8
6	5.4	6.2	80	332	4003	738	3.0	19.9	50.3	15.5	2.2	32.0
7	5.7	6.4	71	329	5111	796	3.2	22.3	57.3	14.9	1.9	25.8
8	5.8	6.5	71	289	4029	616	3.2	17.1	59.0	15.1	2.2	23.8
9	5.8	6.6	61	377	4135	632	2.7	17.7	58.5	14.9	2.8	23.8
10	5.6	6.3	110	399	5843	1007	3.3	26.8	54.6	15.7	2.0	27.8
11	6.0	6.7	115	413	7929	1309	3.2	32.3	61.4	16.9	1.7	20.0
	5.9	6.6	72	387	6361	1113	3.4	27.0	58.9	17.2	1.9	21.9
	5.8	6.5	93	418	7176	978	3.2	29.7	60.5	13.8	1.9	23.9
14	5.9	6.7	51	332	4571	617	2.7	18.5	61.8	13.9	2.4	21.9
15	6.0	6.8	56	370	4103	595	2.8	16.5	62.2	15.1	2.9	19.8
16	6.0	6.8	56	422	5084	699	3.0	20.2	63.0	14.5	2.7	19.8
17	6.2	7.0	44	321	4359	623	2.8	16.6	65.7	15.7	2.5	16.1
18	5.7	6.5	40	294	3990	535	2.7	17.0	58.7	13.2	2.3	25.8
19	6.0	6.9	39	319	2597	394	2.4	10.7	60.7	15.4	3.9	20.0
20	6.1	6.8	73	407	4751	566	3.2	18.0	66.0	13.2	2.9	17.9
21	5.9	6.7	63	344	4231	505	2.8	16.8	63.0	12.6	2.7	21.7
22	6.1	6.8	85	472	6043	812	3.3	23.3	64.9	14.6	2.6	17.9
23	6.0	6.7	114	545	6717	958	3.4	26.9	62.5	14.9	2.6	20.0
24	5.9	6.6	75	380	6711	885	3.2	26.9	62.4	13.8	1.9	22.0
25	6.1	6.8	112	361	7355	1368	3.4	29.9	61.5	19.1	1.6	17.7
26	5.8	6.6	126	439	6414	1126	3.0	28.0	57.3	16.8	2.1	23.8
27	5.8	6.5	133	417	6956	1195	3.3	30.1	57.8	16.6	1.8	23.8
28	5.7	6.5	85	327	4219	702	3.0	18.8	56.2	15.6	2.3	26.0
29	5.9	6.6	84	382	5519	831	3.4	22.8	60.6	15.2	2.2	22.0
30	6.6	7.0	82	405	8364	1385	3.2	29.6	70.7	19.5	1.8	8.0
31	5.8	6.5	117	478	5279	895	3.3	23.1	57.2	16.2	2.7	23.9
32	5.7	6.5	77	437	3558	651	3.0	16.4	54.3	16.6	3.5	25.7
33	5.9	6.6	69	366	5134	955	3.2	22.2	57.9	18.0	2.2	22.0
34	5.7	6.5	60	354	3859	686	2.7	17.5	55.2	16.4	2.6	25.8
35	6.0	6.8	52	432	3844	598	2.8	15.8	60.9	15.8	3.6	19.8
36	5.3	6.1	99	437	4507	669	3.0	22.1	51.0	12.7	2.6	33.7





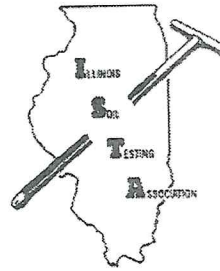
Since 1983

# KSI LABORATORIES

202 S. DACEY DR., SHELBYVILLE, ILLINOIS 62565

PHONE (217) 774-2421

www.KSILab.com



**OPERATOR:** FRED MUMM  
**FIELD:** JONES DODD S  
**ACRES:** 119.4

**LAB#:** 103384-19 (9076)  
**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
AVERAGE	5.9	6.6	79	397	5099	799	3.0	21.3	59.7	15.5	2.6	22.2
PH AVE.	5.9	EXTRACTED SAMPLES: 30,										
P1 AVE.	73	EXTRACTED SAMPLES: 11,23,26,27,31,										
K AVE.	382	EXTRACTED SAMPLES: 1,23,										
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		
3	16	4.9	180	55	4.3	1.6	31	-	-	-		
4	17	4.2	118	50	3.1	1.1	32	-	-	-		
5	16	2.7	105	53	3.0	1.0	28	-	-	-		
6	17	3.3	105	41	3.9	1.5	27	-	-	-		
7	18	2.2	95	57	3.3	1.0	35	-	-	-		
8	21	2.6	137	43	3.4	1.2	31	-	-	-		
9	18	2.5	116	33	4.0	1.5	33	-	-	-		
10	16	2.7	106	37	2.9	1.2	29	-	-	-		
11	16	2.6	99	74	3.3	1.1	31	-	-	-		
12	22	3.4	122	34	5.2	1.4	33	-	-	-		
13	20	4.3	104	28	6.5	2.1	33	-	-	-		
14	21	3.5	107	29	5.2	1.8	27	-	-	-		
15	17	4.4	141	33	7.1	1.7	34	-	-	-		
16	15	2.7	90	62	3.3	1.1	31	-	-	-		
17	15	2.4	79	46	2.9	1.1	33	-	-	-		
18	18	2.9	93	40	3.9	1.3	32	-	-	-		
19	15	2.3	78	56	2.9	1.1	34	-	-	-		
20	19	2.1	90	63	3.0	1.0	43	-	-	-		
21	16	1.8	78	47	2.2	0.7	38	-	-	-		
22	18	4.5	93	62	3.4	1.2	34	-	-	-		
23	14	2.9	88	48	2.8	1.0	30	-	-	-		
24	20	4.4	109	42	4.4	1.6	32	-	-	-		
25	17	4.9	120	28	5.8	1.7	25	-	-	-		
26	20	4.3	97	35	5.2	2.1	25	-	-	-		
27	23	4.2	109	25	6.6	1.6	37	-	-	-		
28	20	10.9	118	26	5.8	1.4	37	-	-	-		

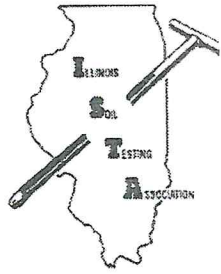


# KSI LABORATORIES

202 S. DACEY DR., SHELBYVILLE, ILLINOIS 62565

PHONE (217) 774-2421

www.KSILab.com



**OPERATOR:** FRED MUMM  
**FIELD:** JONES DODD S  
**ACRES:** 119.4

**LAB#:** 103384-19 (9076)  
**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
<b>MICRO NUTRIENT TEST RESULTS</b>												
=====												
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		
27	20	4.8	130	27	5.3	1.4	36	-	-	-		
28	18	3.2	124	26	3.3	1.1	34	-	-	-		
29	18	3.4	104	27	4.0	1.6	28	-	-	-		
30	17	3.0	50	31	6.7	2.6	28	-	-	-		
31	23	4.4	130	41	4.7	1.5	31	-	-	-		
32	17	2.6	102	51	2.6	1.0	26	-	-	-		
33	20	2.9	125	37	3.7	1.5	33	-	-	-		
34	18	1.8	99	47	2.7	1.1	37	-	-	-		
35	15	4.9	109	45	3.0	1.1	33	-	-	-		
	21	3.6	138	57	4.3	1.2	35	-	-	-		
ge	18	3.6	108	43	4.1	1.4	32	-	-	-		



# Recommendation Map Report

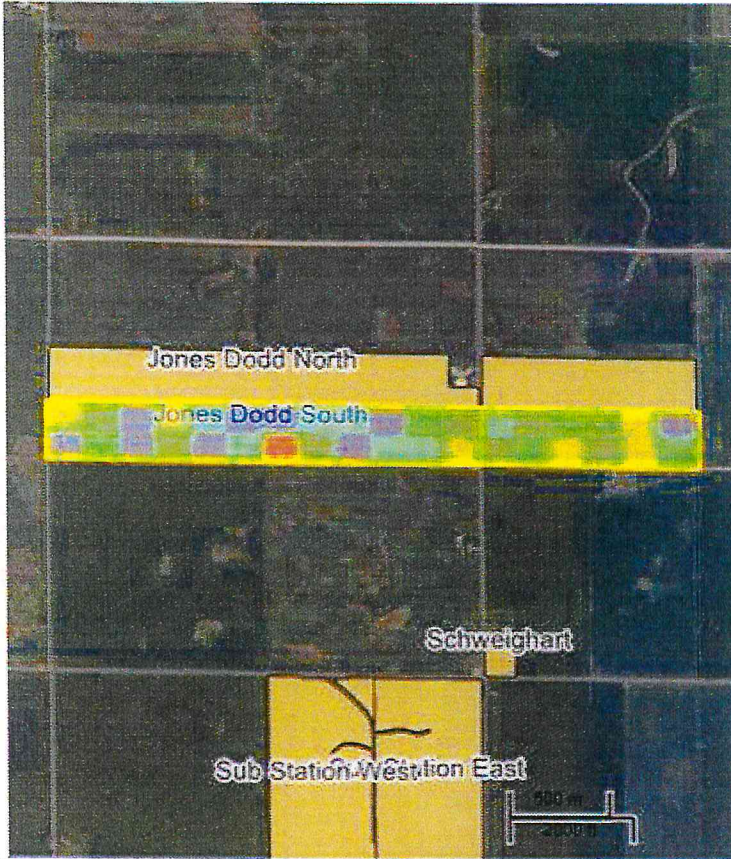
Mumm, Mark

Crop Year: 2023

Farm: Fred Mumm

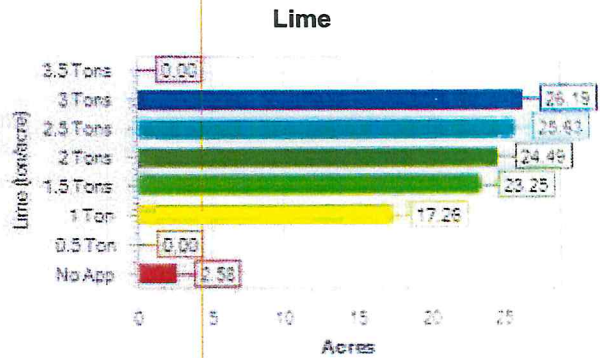
Field: Jones Dodd South

Crop Zone: Soybeans



**Area:** 119.41  
**County:** Champaign, IL  
**Township:**  
**Twp Rng Sec:** T Sidney R10E S26  
**Directions:**

**Application Notes:**



**Product Summary:**

Operation: 2023 235/75 CEC Product Recs

Product: Lime

**Area (acres)**

Total: 119.41

App: 116.83

**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

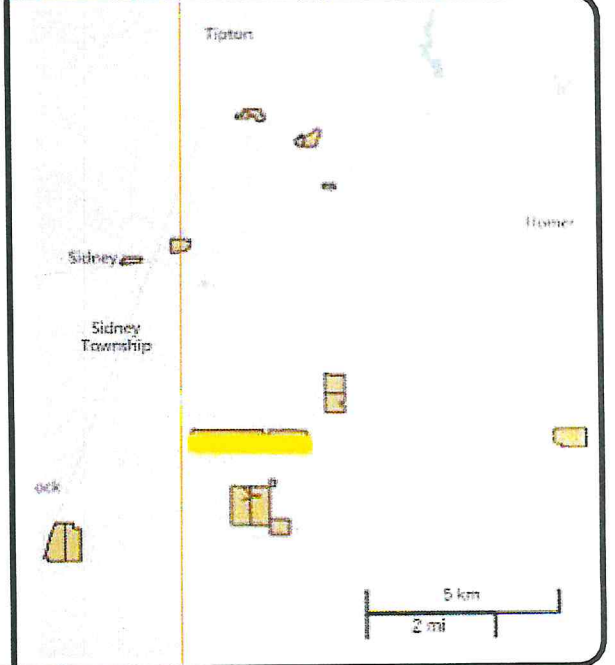
Average (total): 2.04 (tons/acre)

Average (app): 2.09 (tons/acre)

Minimum: 1.00

Maximum: 3.00

Quantity: 243.78 (tons)







# Recommendation Map Report

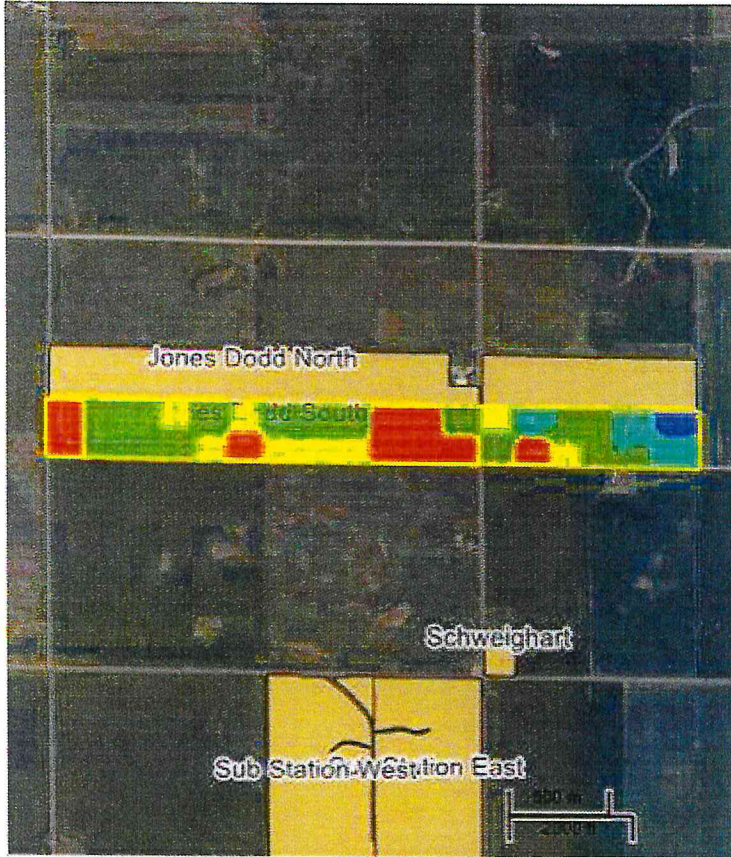
Mumm, Mark

Crop Year: 2023

Farm: Fred Mumm

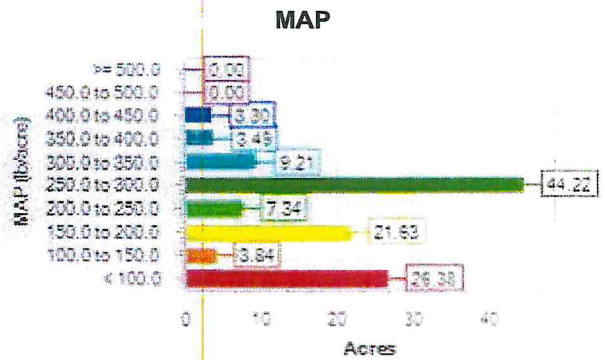
Field: Jones Dodd South

Crop Zone: Soybeans



**Area:** 119.41  
**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: 119.41

App: 93.03

**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): 194.05 (pounds/acre)

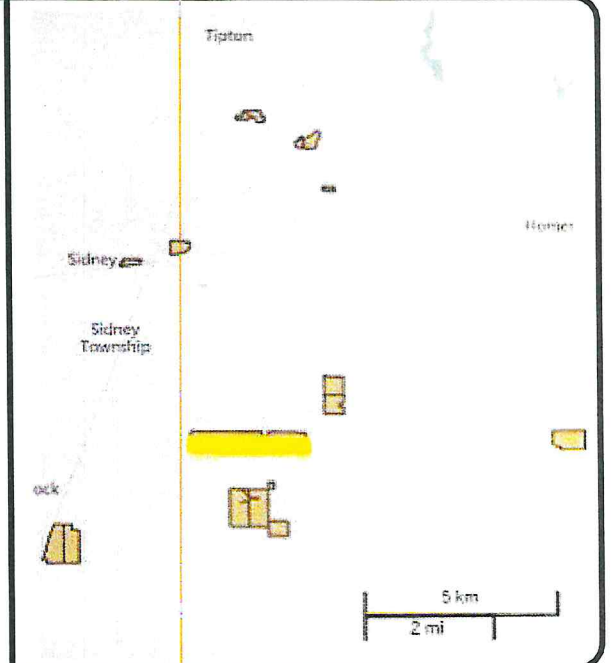
Average (app): 249.07 (pounds/acre)

Minimum: 100.00

Maximum: 425.00

Quantity: 23,171 (pounds)

11.59 (tons)







## Recommendation Map Report

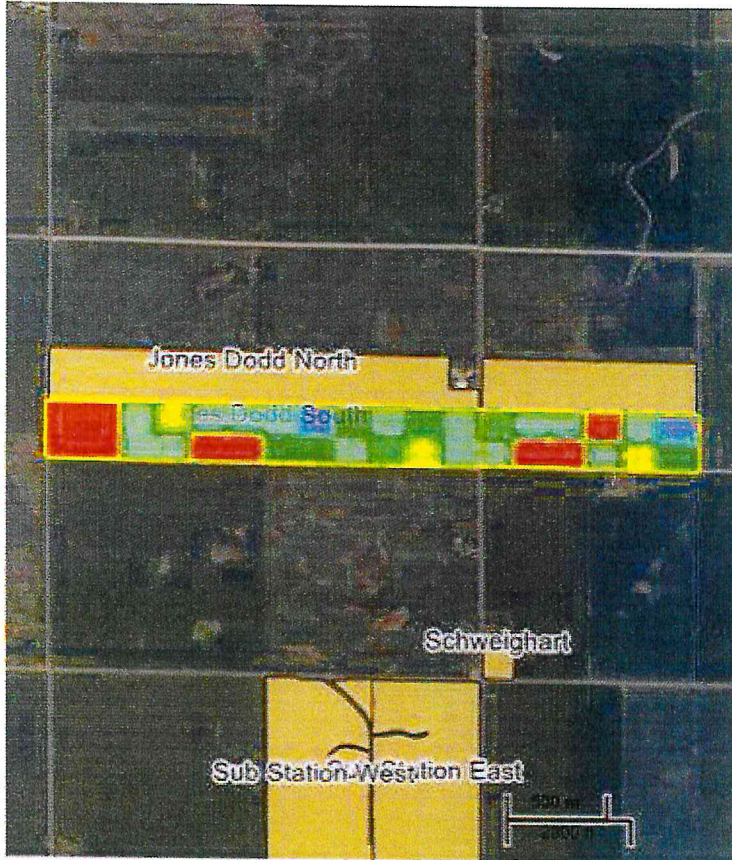
Mumm, Mark

Crop Year: 2023

Farm: Fred Mumm

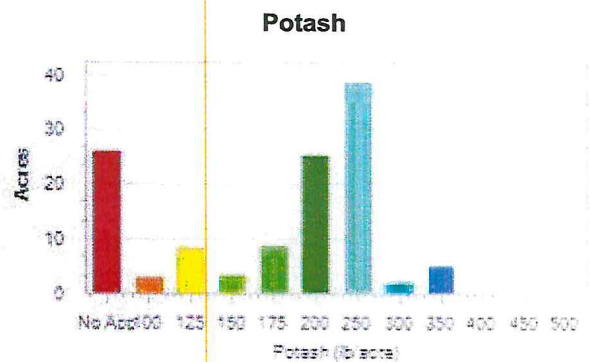
Field: Jones Dodd South

Crop Zone: Soybeans



**Area:** 119.41  
**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:** 119.41

**App:** 93.53

**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):** 172.77 (pounds/acre)

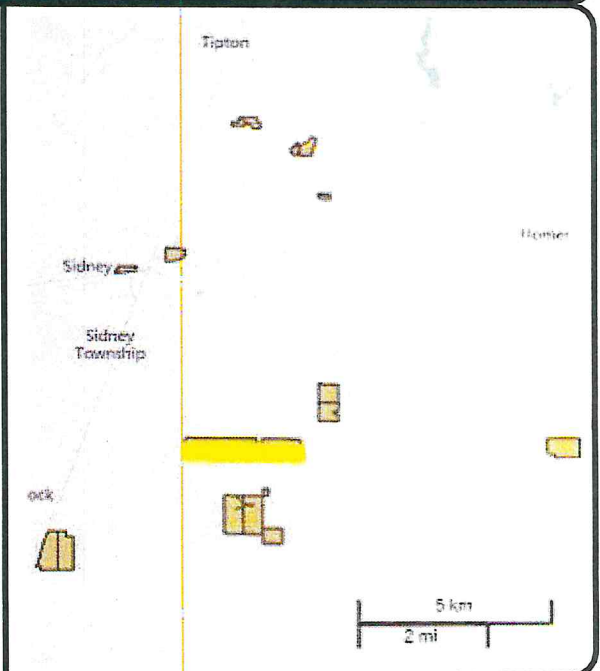
**Average (app):** 220.57 (pounds/acre)

**Minimum:** 100.00

**Maximum:** 375.00

**Quantity:** 20,630 (pounds)

10.32 (tons)







# Soil Test Map Report - PHW

Mumm, Mark

Area: 119.41

Farm: Fred Mumm

Sample Date Jul 12, 2023

Field Jones Dodd South

Lab Name



**Location:**

County: Champaign, IL

Township:

Twp Rng Sec: T Sidney R10E S26

**Summary Statistics**

Layer Name Current Test Results

Sample Count 36

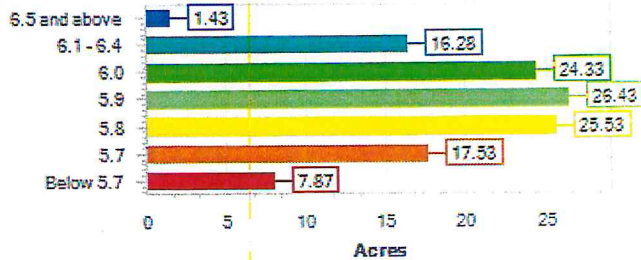
Minimum 5.3

Maximum 6.6

Average Rate 5.88

Weighted Average: 5.88

**PHW none**



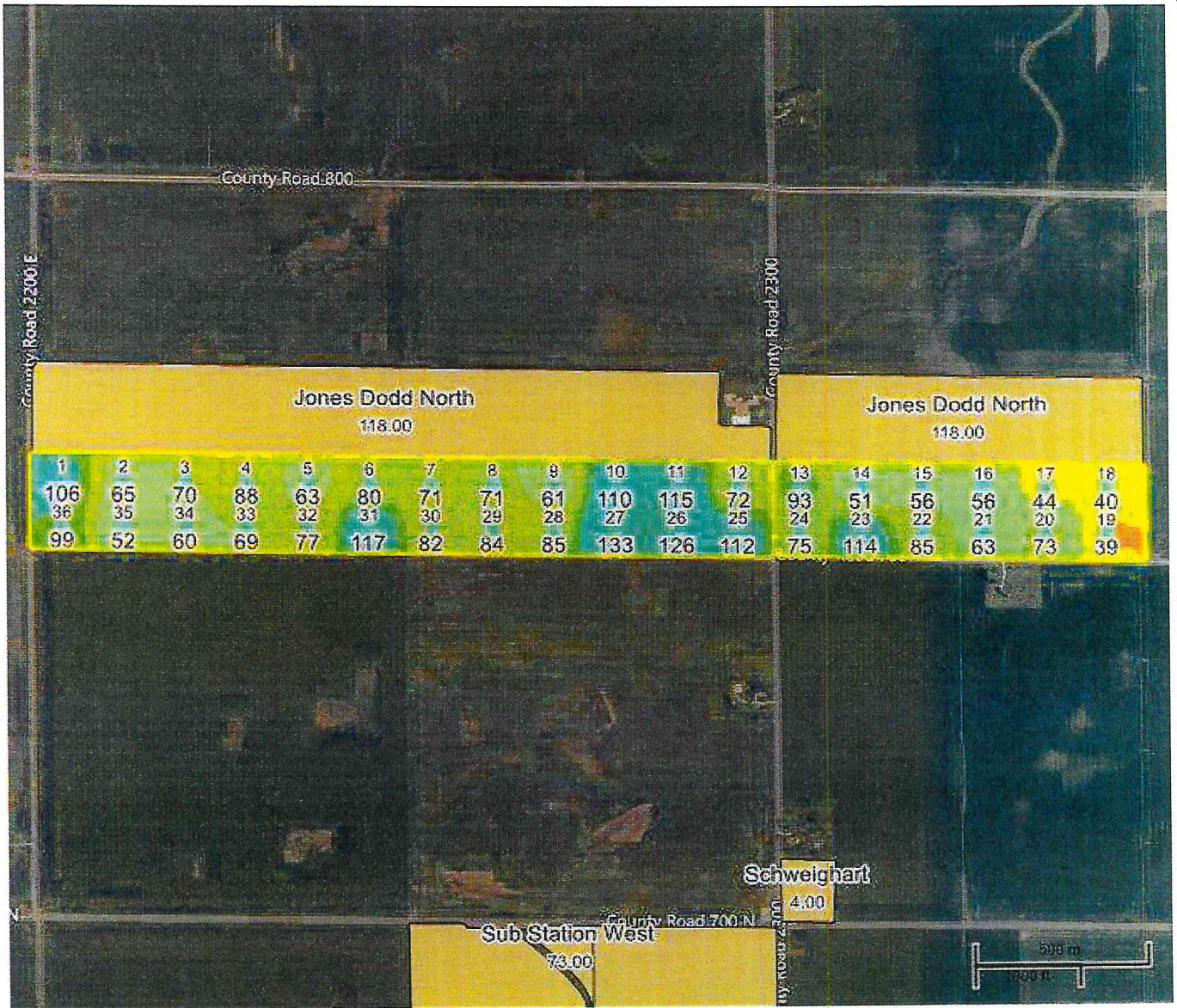




# Soil Test Map Report - P1

Mumm, Mark  
 Farm: Fred Mumm  
 Field Jones Dodd South

Area: 119.41  
 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 36

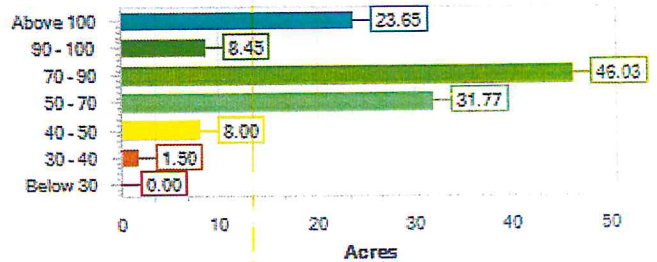
Minimum 39

Maximum 133

Average Rate 79.09

Weighted Average: 79.11

**P1 lbs per acre (st)**







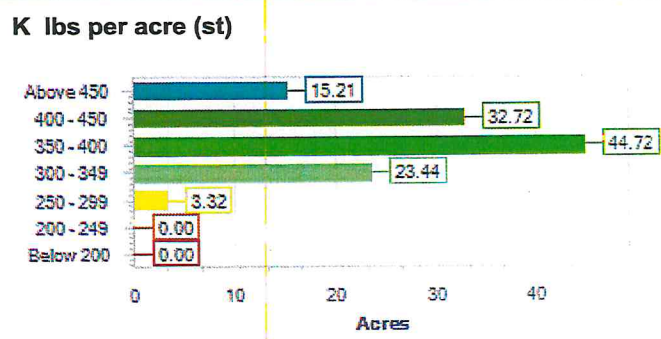
# Soil Test Map Report - K

**Mumm, Mark**  
**Farm:** Fred Mumm  
**Field** Jones Dodd South

**Area:** 119.41  
**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:** 36  
**Minimum:** 289  
**Maximum:** 745  
**Average Rate:** 396.41  
**Weighted Average:** 396.16



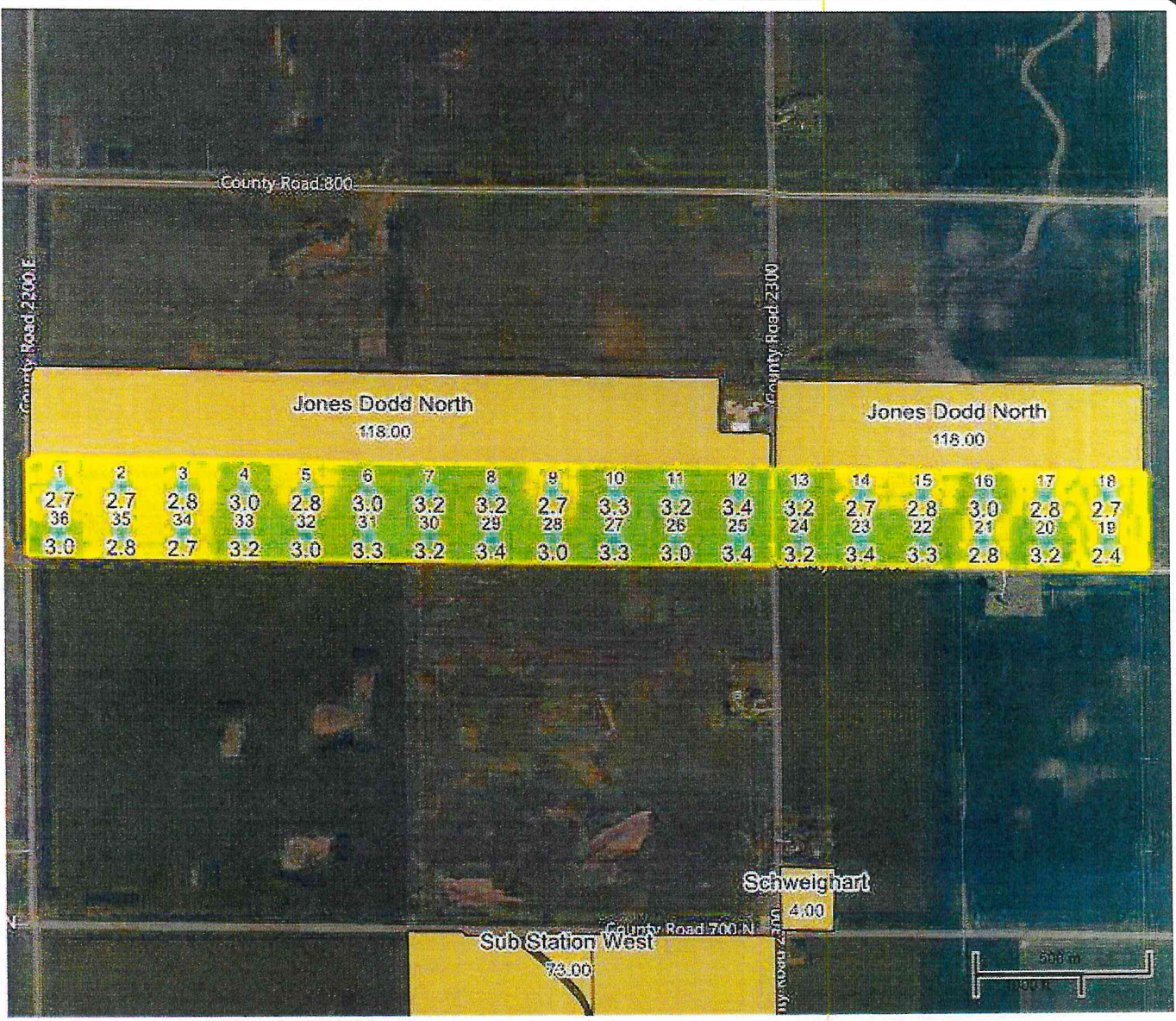




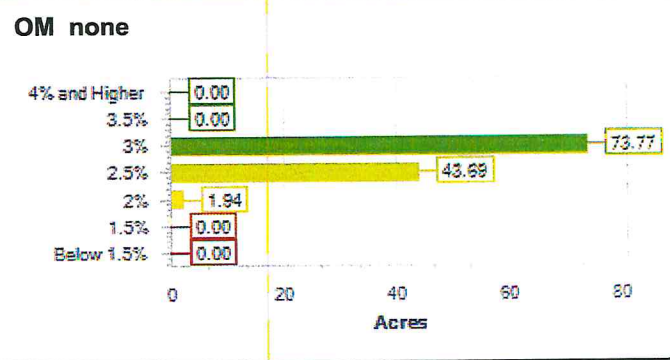
# Soil Test Map Report - OM

**Mumm, Mark**  
**Farm:** Fred Mumm  
**Field** Jones Dodd South

**Area:** 119.41  
**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:** 36  
**Minimum:** 2.4  
**Maximum:** 3.4  
**Average Rate:** 3.02  
**Weighted Average:** 3.02







# Soil Test Map Report - CEC

Mumm, Mark

Area: 119.41

Farm: Fred Mumm

Sample Date Jul 12, 2023

Field Jones Dodd South

Lab Name



**Location:**

County: Champaign, IL

Township:

Twp Rng Sec: T Sidney R10E S26

**Summary Statistics**

Layer Name Current Test Results

Sample Count 36

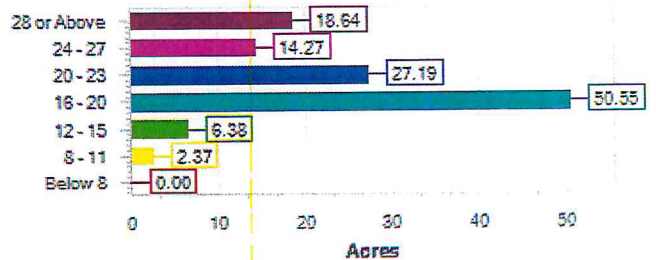
Minimum 10.7

Maximum 32.3

Average Rate 21.21

Weighted Average: 21.22

**CEC meq/100g**







### Soil Types

Mumm, Mark

Farm: Fred Mumm

Field: Jones Dodd South

Area: 119.41



#### 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	50.42
	56B - Dana silt loam, 2 to 5 percent slopes	40.54
	154A - Flanagan silt loam, 0 to 2 percent slopes	19.05
	622C2 - Wyanet silt loam, 5 to 10 percent slopes	3.38
	171B - Catlin silt loam, 2 to 5 percent slopes	3.13
	153A - Pella silty clay loam, 0 to 2 percent slopes	2.88





## Soil Test Summary

Mumm, Mark

Farm: Fred Mumm

Field: Jones Dodd South

Area: 119.41

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	6.2	7.0	106	745	2.7	3,926	428	14.9	6.5	65.9	12.0
2	5.9	6.7	65	452	2.7	3,795	570	16.0	3.7	59.3	14.9
3	5.7	6.5	70	340	2.8	3,576	596	16.0	2.8	55.9	15.6
4	6.1	6.9	88	411	3.0	5,351	1,000	22.0	2.4	60.9	19.0
5	5.8	6.6	63	342	2.8	4,175	746	18.4	2.4	56.8	16.9
6	5.4	6.2	80	332	3.0	4,003	738	19.9	2.2	50.3	15.5
7	5.7	6.4	71	329	3.2	5,111	796	22.3	1.9	57.3	14.9
8	5.8	6.5	71	289	3.2	4,029	616	17.1	2.2	59.0	15.1
9	5.8	6.6	61	377	2.7	4,135	632	17.7	2.8	58.5	14.9
10	5.6	6.3	110	399	3.3	5,843	1,007	26.8	2.0	54.6	15.7
11	6.0	6.7	115	413	3.2	7,929	1,309	32.3	1.7	61.4	16.9
12	5.9	6.6	72	387	3.4	6,361	1,113	27.0	1.9	58.9	17.2
13	5.8	6.5	93	418	3.2	7,176	978	29.7	1.9	60.5	13.8
14	5.9	6.7	51	332	2.7	4,571	617	18.5	2.4	61.8	13.9
15	6.0	6.8	56	370	2.8	4,103	595	16.5	2.9	62.2	15.1
16	6.0	6.8	56	422	3.0	5,084	699	20.2	2.7	63.0	14.5
17	6.2	7.0	44	321	2.8	4,359	623	16.6	2.5	65.7	15.7
18	5.7	6.5	40	294	2.7	3,990	535	17.0	2.3	58.7	13.2
19	6.0	6.9	39	319	2.4	2,597	394	10.7	3.9	60.7	15.4
20	6.1	6.8	73	407	3.2	4,751	566	18.0	2.9	66.0	13.2
21	5.9	6.7	63	344	2.8	4,231	505	16.8	2.7	63.0	12.6
22	6.1	6.8	85	472	3.3	6,043	812	23.3	2.6	64.9	14.6
23	6.0	6.7	114	545	3.4	6,717	958	26.9	2.6	62.5	14.9
24	5.9	6.6	75	380	3.2	6,711	885	26.9	1.9	62.4	13.8
25	6.1	6.8	112	361	3.4	7,355	1,368	29.9	1.6	61.5	19.1
26	5.8	6.6	126	439	3.0	6,414	1,126	28.0	2.1	57.3	16.8
27	5.8	6.5	133	417	3.3	6,956	1,195	30.1	1.8	57.8	16.6
28	5.7	6.5	85	327	3.0	4,219	702	18.8	2.3	56.2	15.6
29	5.9	6.6	84	382	3.4	5,519	831	22.8	2.2	60.6	15.2
30	6.6	7.0	82	405	3.2	8,364	1,385	29.6	1.8	70.7	19.5
31	5.8	6.5	117	478	3.3	5,279	895	23.1	2.7	57.2	16.2
32	5.7	6.5	77	437	3.0	3,558	651	16.4	3.5	54.3	16.6
33	5.9	6.6	69	366	3.2	5,134	955	22.2	2.2	57.9	18.0
34	5.7	6.5	60	354	2.7	3,859	686	17.5	2.6	55.2	16.4
35	6.0	6.8	52	432	2.8	3,844	598	15.8	3.6	60.9	15.8
36	5.3	6.1	99	437	3.0	4,507	669	22.1	2.6	51.0	12.7
<b>Average:</b>	5.9	6.6	79	397	3.0	5,099	799	21.3	2.6	59.7	15.5