

Location	Grower	Farm	Field	Area	Centroid
Progressive Ag Services	Jay Riddell	Hathaway	#180	150.91 acres	41.203216, -89.500187



	Min	Max	Avg
P	14.0	87.0	44.6
Bray P1	11.0	66.0	33.9
P Olsen	6.0	29.0	15.6
K	76.0	378.0	184.8
Mg	288.0	995.0	685.5
Ca	1884	9455	3369
pH	5.3	7.7	6.5
bpH	6.26	6.93	6.71
OM	4.0	7.7	5.8
ENR	124.0	198.0	159.9
CEC	16.5	50.9	25.3
%K	1.0	3.0	1.9
%Mg	5.9	31.7	23.3
%Ca	47.1	92.9	65.3
%H	0.0	30.9	9.5
KMeq	0.2	1.0	0.5
MgMeq	2.4	8.3	5.7
CaMeq	9.4	47.3	16.9
HMeq	0.0	6.7	2.2
KMgRatio	0.04	0.28	0.09
CaMgRatio	1.9	15.8	3.2

Sample Date	Soil Lab
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2025-04-11 Waypoint Analytical
Illinois

ID	P ppm	Bray P1 ppm	P Olsen ppm	K ppm	Mg ppm	Ca ppm	pH	bpH	OM %	ENR lbs/ac	CEC meq	%K %	%Mg %	%Ca %	%H %	KMeq meq	MgMeq meq	CaMeq meq	HMeq meq	KMgRatio	CaMgRatio
1	57.0	43.0	20.0	200.0	567.0	3247	5.9	6.50	6.5	174.0	25.8	2.0	18.3	62.9	16.7	0.5	4.7	16.2	4.3	0.11	3.4
2	84.0	64.0	28.0	230.0	995.0	4381	6.3	6.57	6.6	176.0	34.4	1.7	24.1	63.7	10.5	0.6	8.3	21.9	3.6	0.07	2.6
3	70.0	53.0	24.0	304.0	682.0	2980	5.7	6.36	5.2	148.0	27.1	2.9	21.0	55.0	21.0	0.8	5.7	14.9	5.7	0.14	2.6
4	67.0	51.0	23.0	145.0	288.0	2405	6.0	6.67	6.2	168.0	17.4	2.1	13.8	69.1	14.9	0.4	2.4	12.0	2.6	0.15	5.0
5	27.0	21.0	10.0	132.0	752.0	2725	6.6	6.80	5.1	146.0	21.5	1.6	29.1	63.4	6.0	0.3	6.3	13.6	1.3	0.05	2.2
6	32.0	24.0	12.0	138.0	746.0	2478	6.1	6.62	4.8	140.0	22.1	1.6	28.1	56.1	14.0	0.4	6.2	12.4	3.1	0.06	2.0
7	60.0	46.0	21.0	184.0	696.0	2850	5.8	6.45	6.7	178.0	25.3	1.9	22.9	56.3	19.0	0.5	5.8	14.3	4.8	0.08	2.5
8	26.0	20.0	10.0	132.0	749.0	2524	6.1	6.62	5.1	146.0	22.3	1.5	28.0	56.6	13.9	0.3	6.2	12.6	3.1	0.05	2.0
9	20.0	15.0	8.0	119.0	754.0	2670	6.3	6.70	4.5	134.0	22.2	1.4	28.3	60.1	10.4	0.3	6.3	13.4	2.3	0.05	2.1
10	26.0	20.0	10.0	178.0	743.0	2770	6.4	6.73	5.1	146.0	22.5	2.0	27.5	61.6	8.9	0.5	6.2	13.9	2.0	0.07	2.2

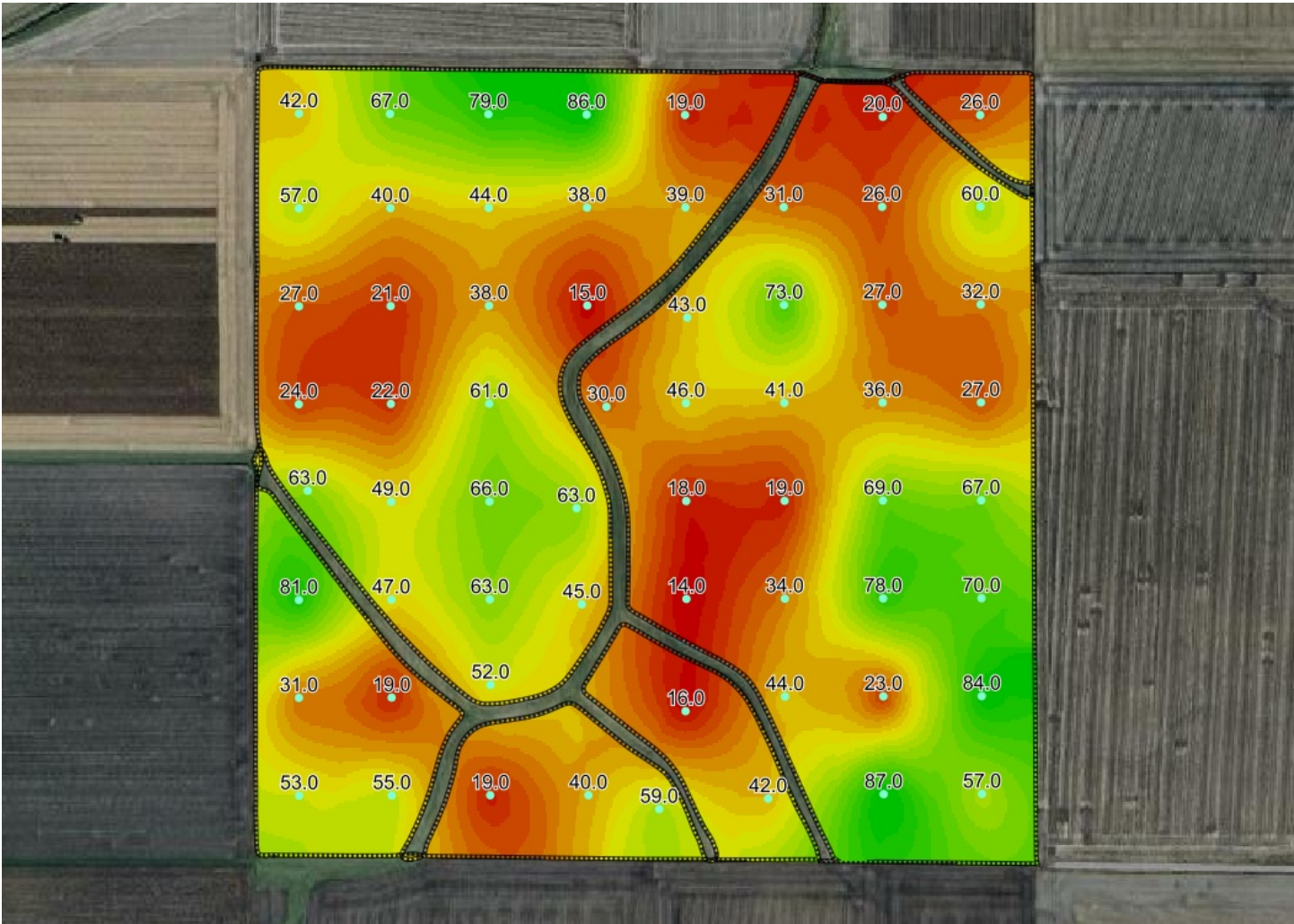
ID	P ppm	Bray P1 ppm	P Olsen ppm	K ppm	Mg ppm	Ca ppm	pH	bpH	OM %	ENR lbs/ac	CEC meq	%K %	%Mg %	%Ca %	%H %	KMeq meq	MgMeq meq	CaMeq meq	HMeq meq	KMgRatio	CaMgRatio
11	27.0	21.0	10.0	154.0	824.0	3338	6.8	6.86	5.3	150.0	24.7	1.6	27.8	67.6	2.8	0.4	6.9	16.7	0.7	0.06	2.4
12	36.0	27.0	13.0	181.0	838.0	2772	6.8	6.86	5.0	144.0	22.0	2.1	31.7	63.0	3.2	0.5	7.0	13.9	0.7	0.07	2.0
13	69.0	52.0	24.0	220.0	647.0	2092	6.2	6.71	4.0	124.0	18.6	3.0	29.0	56.2	11.8	0.6	5.4	10.5	2.2	0.10	1.9
14	78.0	59.0	26.0	378.0	419.0	5724	7.6	6.93	6.6	176.0	33.1	2.9	10.5	86.5	0.0	1.0	3.5	28.6	0.0	0.28	8.2
15	23.0	17.0	9.0	198.0	433.0	5369	7.7	6.93	6.4	172.0	31.0	1.6	11.6	86.6	0.0	0.5	3.6	26.8	0.0	0.14	7.4
16	87.0	66.0	29.0	339.0	547.0	4059	6.3	6.63	7.7	198.0	28.7	3.0	15.9	70.7	10.5	0.9	4.6	20.3	3.0	0.19	4.5
17	42.0	32.0	15.0	161.0	743.0	2548	6.0	6.59	6.1	166.0	22.7	1.8	27.3	56.1	15.0	0.4	6.2	12.7	3.4	0.07	2.1
18	44.0	33.0	15.0	222.0	860.0	3906	6.8	6.85	6.4	172.0	28.1	2.0	25.5	69.5	2.8	0.6	7.2	19.5	0.8	0.08	2.7
19	34.0	26.0	12.0	166.0	894.0	3153	6.6	6.78	6.2	168.0	25.1	1.7	29.7	62.8	6.0	0.4	7.5	15.8	1.5	0.06	2.1
20	19.0	14.0	7.0	118.0	601.0	1973	5.7	6.53	4.6	136.0	19.2	1.6	26.1	51.4	20.8	0.3	5.0	9.9	4.0	0.06	2.0
21	41.0	31.0	14.0	113.0	595.0	2160	5.8	6.55	5.0	144.0	19.8	1.5	25.0	54.5	19.2	0.3	5.0	10.8	3.8	0.06	2.2
22	73.0	55.0	25.0	240.0	903.0	3950	6.2	6.55	7.2	188.0	31.7	1.9	23.7	62.3	12.0	0.6	7.5	19.8	3.8	0.08	2.6
23	31.0	24.0	11.0	115.0	744.0	2913	6.6	6.80	5.3	150.0	22.4	1.3	27.7	65.0	5.8	0.3	6.2	14.6	1.3	0.05	2.4
24	19.0	14.0	7.0	123.0	698.0	2974	6.1	6.59	5.0	144.0	24.4	1.3	23.8	60.9	13.9	0.3	5.8	14.9	3.4	0.05	2.6
25	39.0	30.0	14.0	200.0	731.0	4272	7.1	6.92	6.5	174.0	28.1	1.8	21.7	76.0	0.4	0.5	6.1	21.4	0.1	0.08	3.5
26	43.0	33.0	15.0	167.0	794.0	3933	7.0	6.92	7.1	186.0	26.8	1.6	24.7	73.4	0.4	0.4	6.6	19.7	0.1	0.06	3.0
27	46.0	35.0	16.0	179.0	888.0	3246	6.8	6.86	6.0	164.0	24.8	1.9	29.8	65.4	2.8	0.5	7.4	16.2	0.7	0.06	2.2
28	18.0	14.0	7.0	142.0	707.0	2410	6.7	6.84	4.1	126.0	19.2	1.9	30.7	62.8	4.7	0.4	5.9	12.1	0.9	0.06	2.0
29	14.0	11.0	6.0	150.0	672.0	2353	6.2	6.69	4.6	136.0	20.1	1.9	27.9	58.5	11.9	0.4	5.6	11.8	2.4	0.07	2.1
30	16.0	12.0	6.0	76.0	531.0	2089	5.8	6.58	4.8	140.0	18.6	1.0	23.8	56.2	18.8	0.2	4.4	10.4	3.5	0.04	2.4
31	59.0	45.0	20.0	191.0	882.0	3408	6.5	6.73	5.5	154.0	26.9	1.8	27.3	63.3	7.4	0.5	7.4	17.0	2.0	0.07	2.3
32	40.0	30.0	14.0	166.0	781.0	3505	6.5	6.73	6.0	164.0	26.5	1.6	24.6	66.1	7.5	0.4	6.5	17.5	2.0	0.07	2.7
33	45.0	34.0	16.0	147.0	510.0	2457	5.4	6.26	5.7	158.0	23.6	1.6	18.0	52.1	28.4	0.4	4.3	12.3	6.7	0.09	2.9
34	63.0	48.0	22.0	230.0	724.0	4096	6.4	6.66	6.2	168.0	29.8	2.0	20.2	68.7	9.1	0.6	6.0	20.5	2.7	0.10	3.4
35	30.0	23.0	11.0	134.0	746.0	3074	6.7	6.83	6.0	164.0	22.9	1.5	27.1	67.1	4.4	0.3	6.2	15.4	1.0	0.06	2.5
36	15.0	11.0	6.0	98.0	487.0	1884	5.9	6.65	4.1	126.0	16.5	1.5	24.6	57.1	17.0	0.3	4.1	9.4	2.8	0.06	2.3
37	38.0	29.0	13.0	200.0	596.0	3662	7.3	6.93	6.2	168.0	23.8	2.2	20.9	76.9	0.0	0.5	5.0	18.3	0.0	0.10	3.7
38	86.0	65.0	29.0	213.0	759.0	3526	6.2	6.60	7.2	188.0	27.8	2.0	22.8	63.4	11.9	0.5	6.3	17.6	3.3	0.09	2.8
39	79.0	60.0	27.0	181.0	614.0	3760	6.3	6.64	7.7	198.0	27.3	1.7	18.7	68.9	10.6	0.5	5.1	18.8	2.9	0.09	3.7
40	44.0	33.0	15.0	210.0	707.0	3301	6.3	6.66	6.9	182.0	25.6	2.1	23.0	64.5	10.5	0.5	5.9	16.5	2.7	0.09	2.8
41	38.0	29.0	13.0	157.0	556.0	2454	6.2	6.69	4.8	140.0	19.7	2.0	23.5	62.3	12.2	0.4	4.6	12.3	2.4	0.09	2.6
42	61.0	46.0	21.0	233.0	959.0	3528	6.7	6.81	6.1	166.0	27.4	2.2	29.2	64.4	4.4	0.6	8.0	17.6	1.2	0.07	2.2
43	66.0	50.0	23.0	288.0	956.0	3919	6.5	6.70	6.7	178.0	30.6	2.4	26.0	64.0	7.5	0.7	8.0	19.6	2.3	0.09	2.5
44	63.0	48.0	22.0	210.0	761.0	3299	6.3	6.66	5.1	146.0	26.1	2.1	24.3	63.2	10.3	0.5	6.3	16.5	2.7	0.08	2.6
45	52.0	40.0	18.0	174.0	888.0	3177	6.6	6.78	5.7	158.0	25.2	1.8	29.4	63.0	6.0	0.4	7.4	15.9	1.5	0.06	2.1
46	19.0	14.0	7.0	134.0	630.0	2862	6.1	6.61	4.9	142.0	23.1	1.5	22.7	61.9	13.9	0.3	5.3	14.3	3.2	0.07	2.7
47	55.0	42.0	19.0	296.0	380.0	6294	7.6	6.93	6.5	174.0	35.4	2.1	8.9	88.9	0.0	0.8	3.2	31.5	0.0	0.24	9.9
48	19.0	14.0	7.0	171.0	547.0	3016	6.5	6.77	4.5	134.0	21.7	2.0	21.0	69.5	7.4	0.4	4.6	15.1	1.6	0.10	3.3
49	47.0	36.0	16.0	193.0	835.0	3575	6.9	6.89	6.7	178.0	25.7	1.9	27.1	69.6	1.6	0.5	7.0	17.9	0.4	0.07	2.6
50	49.0	37.0	17.0	210.0	753.0	3477	6.6	6.78	6.3	170.0	25.7	2.1	24.4	67.6	5.8	0.5	6.3	17.4	1.5	0.09	2.8
51	22.0	17.0	8.0	119.0	660.0	2664	6.2	6.67	5.1	146.0	21.7	1.4	25.3	61.4	12.0	0.3	5.5	13.3	2.6	0.06	2.4
52	21.0	16.0	8.0	128.0	722.0	3068	6.7	6.83	5.7	158.0	22.7	1.4	26.5	67.6	4.4	0.3	6.0	15.3	1.0	0.05	2.5
53	40.0	30.0	14.0	202.0	474.0	5538	7.7	6.93	5.5	154.0	32.2	1.6	12.3	86.0	0.0	0.5	4.0	27.7	0.0	0.13	7.0
54	67.0	51.0	23.0	204.0	733.0	3296	6.0	6.52	5.8	160.0	27.2	1.9	22.5	60.6	15.1	0.5	6.1	16.5	4.1	0.09	2.7

ID	P ppm	Bray P1 ppm	P Olsen ppm	K ppm	Mg ppm	Ca ppm	pH	bpH	OM %	ENR lbs/ac	CEC meq	%K %	%Mg %	%Ca %	%H %	KMeq meq	MgMeq meq	CaMeq meq	HMeq meq	KMgRatio	CaMgRatio
55	42.0	32.0	15.0	221.0	654.0	2577	5.8	6.49	5.6	156.0	23.3	2.4	23.4	55.3	18.9	0.6	5.5	12.9	4.4	0.10	2.4
56	57.0	43.0	20.0	233.0	359.0	9455	7.7	6.93	7.1	186.0	50.9	1.2	5.9	92.9	0.0	0.6	3.0	47.3	0.0	0.20	15.8
57	27.0	21.0	10.0	164.0	626.0	4431	6.7	6.80	7.2	188.0	29.1	1.4	17.9	76.1	4.5	0.4	5.2	22.2	1.3	0.08	4.2
58	24.0	18.0	9.0	146.0	631.0	2542	6.1	6.63	5.3	150.0	21.3	1.8	24.7	59.7	14.1	0.4	5.3	12.7	3.0	0.07	2.4
59	63.0	48.0	22.0	254.0	730.0	3025	6.5	6.75	5.4	152.0	23.7	2.7	25.7	63.8	7.6	0.7	6.1	15.1	1.8	0.11	2.5
60	81.0	62.0	27.0	205.0	736.0	3338	6.5	6.74	7.3	190.0	25.2	2.1	24.3	66.2	7.5	0.5	6.1	16.7	1.9	0.09	2.7
61	31.0	24.0	11.0	98.0	521.0	1951	5.3	6.29	4.2	128.0	20.7	1.2	21.0	47.1	30.9	0.3	4.3	9.8	6.4	0.06	2.2
62	53.0	40.0	18.0	243.0	540.0	4460	7.3	6.92	6.5	174.0	27.5	2.3	16.4	81.1	0.4	0.6	4.5	22.3	0.1	0.14	5.0

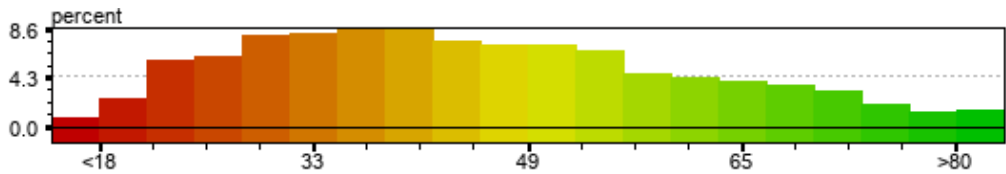
Grower: Jay Riddell
Farm: Hathaway
Field: #180
Area: 150.91 ac
Interpolation: Kriging
Method: LPSR

Lab: Waypoint Analytical
Illinois
Date: 2025-04-11
Layer ID: 5930420

Phosphorous (P) ppm



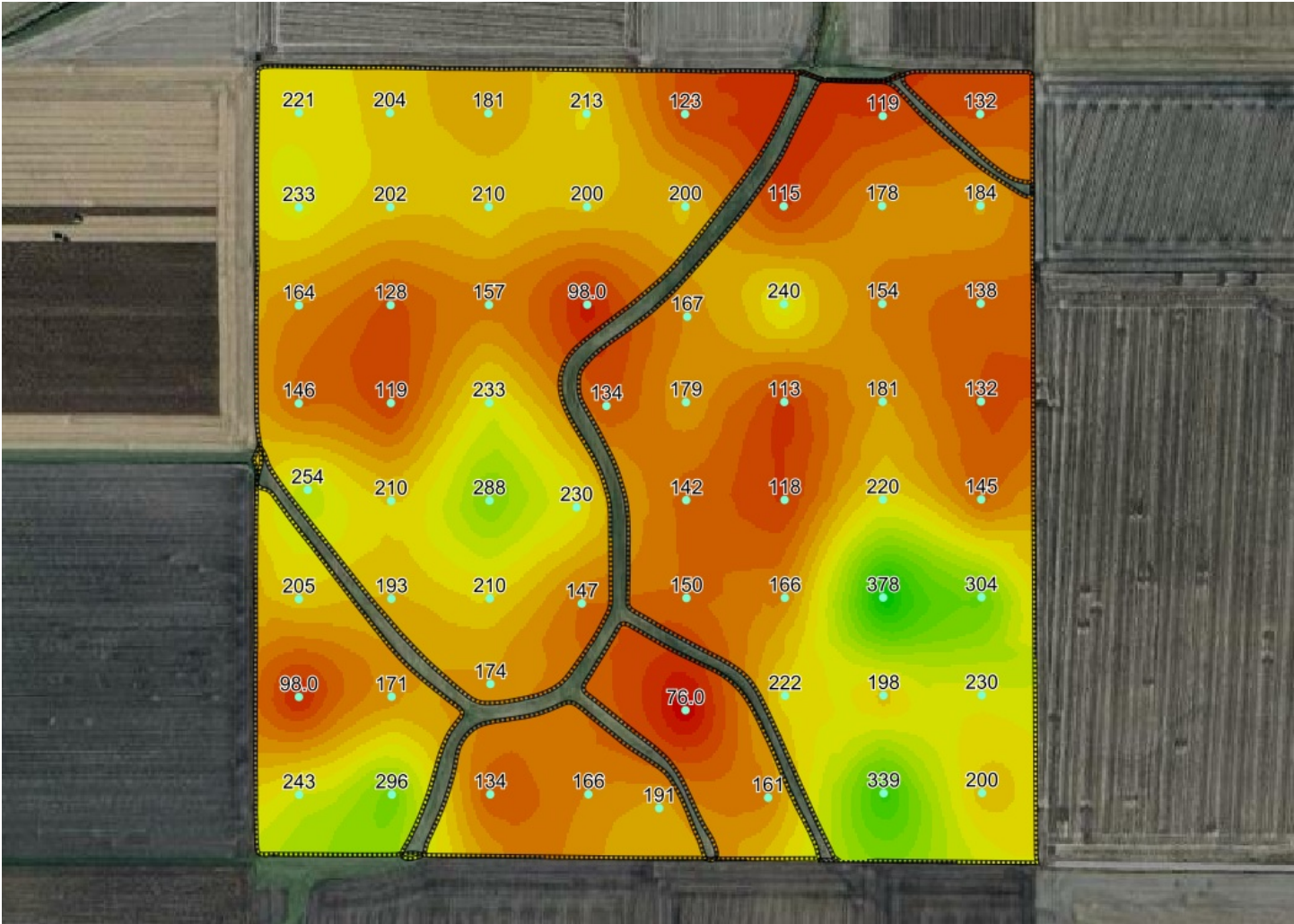
Min: 14.0 Max: 87.0 Avg: 44.6



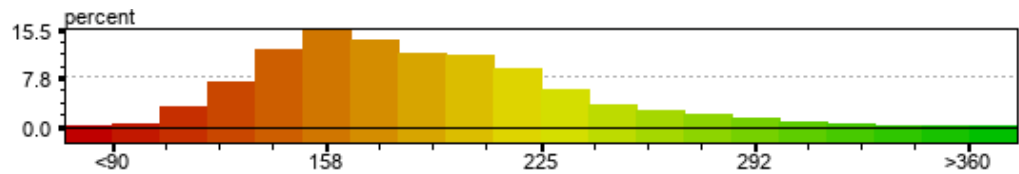
Grower: Jay Riddell
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Potassium (K) ppm



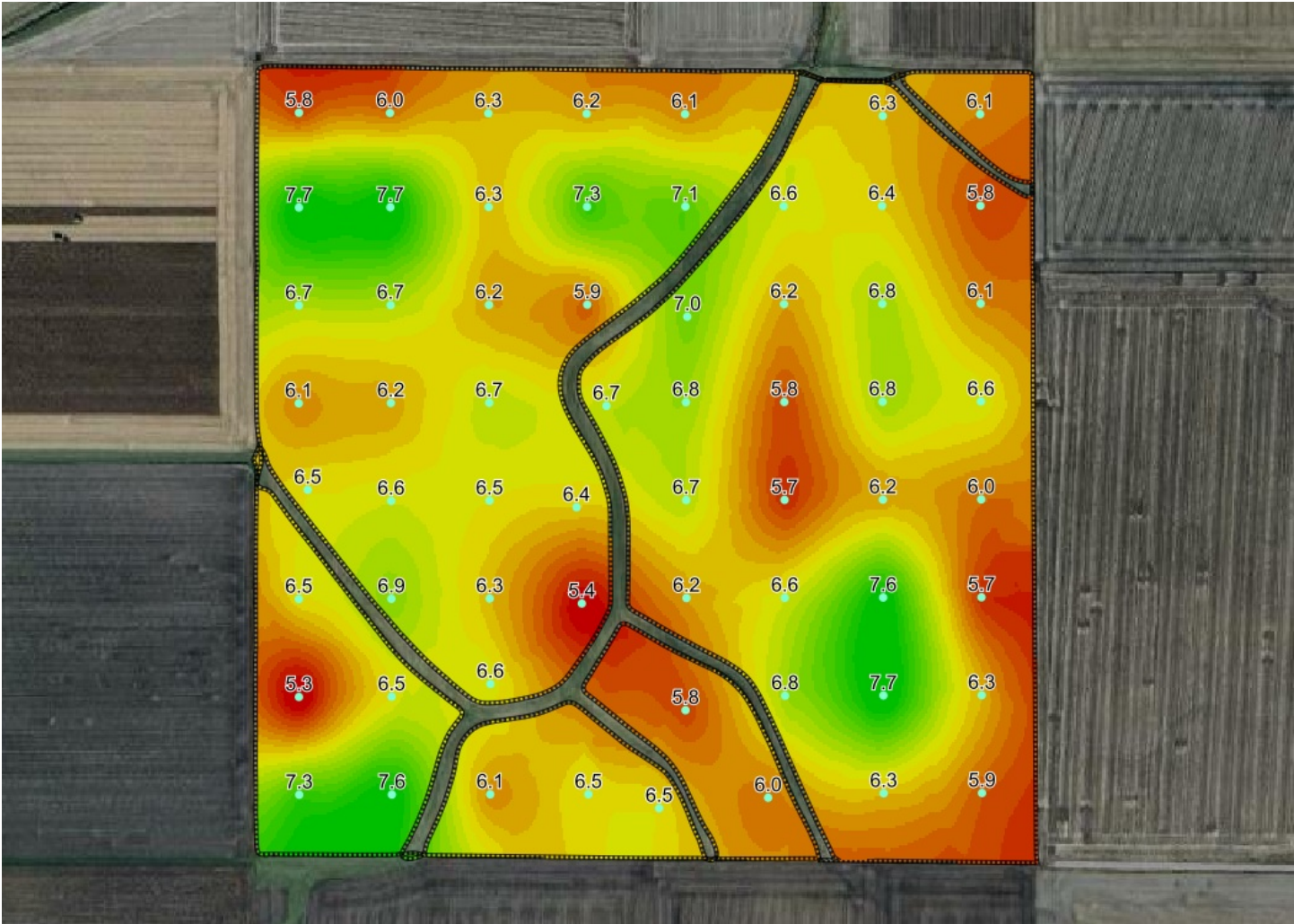
Min: 76.0 Max: 378.0 Avg: 184.8



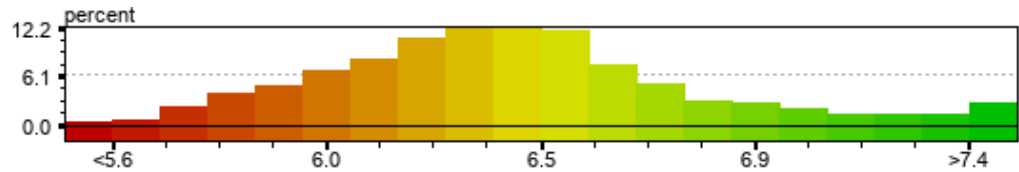
Grower: Jay Riddell
Farm: Hathaway
Field: #180
Area: 150.91 ac
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Lab: Waypoint Analytical
Illinois
Date: 2025-04-11
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(pH)



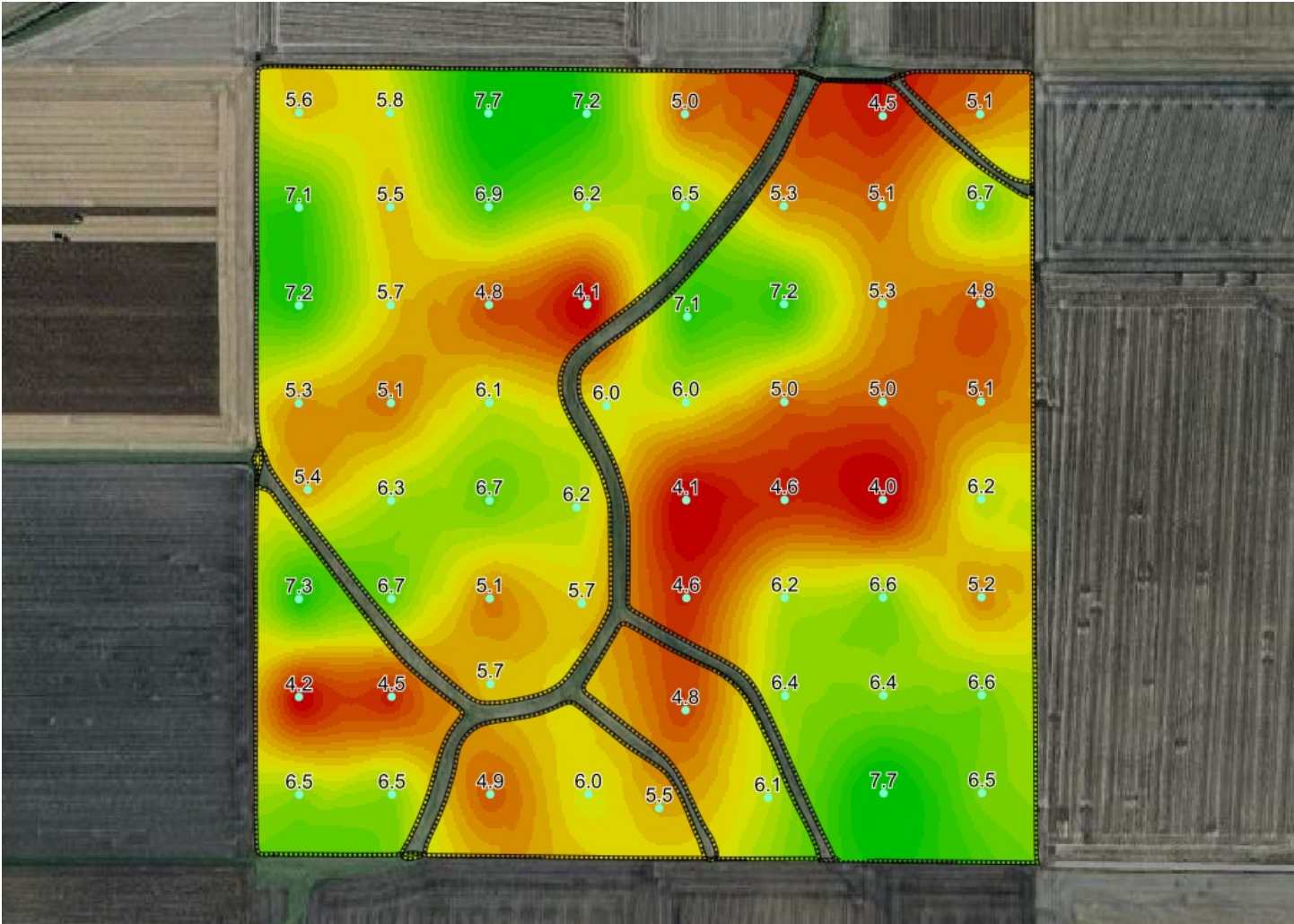
Min: 5.3 Max: 7.7 Avg: 6.5



Grower: Jay Riddell
Farm: Hathaway
Field: #180
Area: 150.91 ac
Interpolation: Kriging
Method: LPSR

Lab: Waypoint Analytical
Illinois
Date: 2025-04-11
Layer ID: 5930420

Organic Matter (OM) %



Min: 4.0 Max: 7.7 Avg: 5.8

