



Illinois

2023 SOIL TEST DATA SUMMARY

Soil Test	Statistics		Percent Samples by Soil Test Rating				
	Average	Std. Dev.	Very Low	Low	Medium	High	Very High
Organic Matter,%	3.8	1.9	<small>(<1.0)</small> 0.8	<small>(1.0-2.5)</small> 17.7	<small>(2.5-5.0)</small> 64.7	<small>(5.0-7.0)</small> 14.4	<small>(7.0+)</small> 2.4
Phosphorus (P1), ppm	39	32	<small>(<10)</small> 3.3	<small>(10-20)</small> 16.2	<small>(20-30)</small> 24.3	<small>(30-50)</small> 34.6	<small>(50+)</small> 21.4
Phosphorus (P2), ppm	75	67	<small>(<14)</small> 1.3	<small>(14-29)</small> 13.1	<small>(29-44)</small> 20.5	<small>(44-74)</small> 31.2	<small>(74+)</small> 33.9
Potassium (K), ppm	175	77					
K, % Base Saturation	3.3	1.6	<small>(<0.74)</small> 0.5	<small>(0.74-1.45)</small> 3.5	<small>(1.46-2.91)</small> 42.5	<small>(2.92-4.36)</small> 37.0	<small>(>4.36)</small> 16.9
Magnesium (Mg), ppm	415	184					
Mg, % Base Saturation	23.8	7.9	<small>(<5)</small> 0.2	<small>(5-10)</small> 5.4	<small>(10-15)</small> 11.6	<small>(15-25)</small> 33.1	<small>(25+)</small> 49.6
Calcium (Ca), ppm	1746	1023					
Ca, % Base Saturation	59.1	10.1	<small>(<45)</small> 6.0	<small>(45-55)</small> 29.4	<small>(55-75)</small> 58.0	<small>(75-85)</small> 4.7	<small>(85+)</small> 1.9
pH (1:1)	6.4	0.6	<small>(<6.1)</small> 1.0	<small>(6.1-6.8)</small> 13.4	<small>(6.8-6.9)</small> 69.8	<small>(7.0-7.5)</small> 13.5	<small>(>7.5)</small> 2.3
CEC, meq/100g	14.6	5.7	<small>(<3.1)</small> 0.2	<small>(3.1-8.0)</small> 6.9	<small>(8.1-15.0)</small> 53.3	<small>(15.1-25.0)</small> 36.6	<small>(>25.0)</small> 3.0
Sulfur (S), ppm	8	7.1	<small>(<4)</small> 2.8	<small>(4-7)</small> 54.2	<small>(8-12)</small> 37.0	<small>(13-17)</small> 4.5	<small>(>17)</small> 1.6
Zinc (Zn), ppm	3.5	3.9	<small>(<1.0)</small> 56.3	<small>(1.1-2.9)</small> 29.3	<small>(3.0-4.9)</small> 11.5	<small>(5.0-10.0)</small> 2.9	<small>(>10.0)</small>
Manganese (Mn), ppm	43	15	<small>(<6)</small> 0.5	<small>(6-14)</small> 2.1	<small>(15-19)</small> 5.5	<small>(20-49)</small> 65.8	<small>(>49)</small> 26.1
Iron (Fe), ppm	37	23		<small>(<6)</small> 1.4	<small>(6-9)</small> 1.5	<small>(10-50)</small> 79.0	<small>(>50)</small> 18.1
Copper (Cu), ppm	1.4	0.8		<small>(<0.4)</small> 0.4	<small>(0.4-1.1)</small> 38.5	<small>(1.2-3.0)</small> 58.8	<small>(>3.0)</small> 2.3
Boron (B), ppm	0.6	0.4	<small>(<0.4)</small> 30.9	<small>(0.4-0.5)</small> 32.5	<small>(0.6-1.2)</small> 30.6	<small>(1.3-2.5)</small> 5.1	<small>(>2.5)</small> 0.8
Nitrate (NO ₃ -N), ppm	26.8	21.8	<small>(<5)</small> 5.5	<small>(5-9)</small> 10.9	<small>(10-19)</small> 25.6	<small>(20-39)</small> 38.7	<small>(>39)</small> 19.3
Ammonium (NH ₄ -N), ppm	9.7	16.1	<small>(<5)</small> 6.0	<small>(5-9)</small> 56.5	<small>(10-19)</small> 30.2	<small>(20-39)</small> 4.1	<small>(>39)</small> 3.2