



Southern Illinois

2021 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,%	3.0	1.5	<small>(<1.0)</small> 0.1	<small>(1.0-2.5)</small> 41.3	<small>(2.5-5.0)</small> 54.1	<small>(5.0-7.0)</small> 4.3	<small>(7.0+)</small> 0.2
Phosphorus (P1), ppm	28	26	<small>(<10)</small> 10.8	<small>(10-20)</small> 32.3	<small>(20-30)</small> 23.9	<small>(30-50)</small> 21.4	<small>(50+)</small> 11.6
Phosphorus (P2), ppm	89	152	<small>(<14)</small> 11.1	<small>(14-29)</small> 33.3	<small>(29-44)</small> 27.8	<small>(44-74)</small> 5.6	<small>(74+)</small> 22.2
Potassium (K), ppm	123	55					
K, % Base Saturation	2.9	1.3	<small>(<0.88)</small> 0.1	<small>(0.88-1.73)</small> 11.4	<small>(1.74-3.46)</small> 65.7	<small>(3.47-5.19)</small> 18.5	<small>(>5.19)</small> 4.3
Magnesium (Mg), ppm	204	133					
Mg, % Base Saturation	13.7	4.8	<small>(<5)</small> 0.4	<small>(5-10)</small> 23.1	<small>(10-15)</small> 41.4	<small>(15-25)</small> 32.9	<small>(25+)</small> 2.2
Calcium (Ca), ppm	1575	623					
Ca, % Base Saturation	68.7	11.0	<small>(<45)</small> 2.2	<small>(45-55)</small> 8.3	<small>(55-75)</small> 62.7	<small>(75-85)</small> 18.7	<small>(85+)</small> 8.2
pH (1:1)	6.4	0.5	<small>(<5.1)</small> 0.6	<small>(5.1-5.8)</small> 14.5	<small>(5.9-6.9)</small> 69.0	<small>(7.0-7.5)</small> 13.8	<small>(>7.5)</small> 2.1
CEC, meq/100g	11.6	4.6		<small>(3.1-8.0)</small> 22.1	<small>(8.1-15.0)</small> 58.3	<small>(15.1-25.0)</small> 18.5	<small>(>25.0)</small> 1.1
Sulfur (S), ppm	7	3.5	<small>(<4)</small> 6.4	<small>(4-7)</small> 63.8	<small>(8-12)</small> 27.9	<small>(13-17)</small> 1.2	<small>(>17)</small> 0.7
Zinc (Zn), ppm	2.7	2.8	<small>(<1.0)</small> 0.1	<small>(1.1-2.9)</small> 80.2	<small>(3.0-4.9)</small> 12.7	<small>(5.0-10.0)</small> 5.0	<small>(>10.0)</small> 2.0
Manganese (Mn), ppm	45	17	<small>(<6)</small>	<small>(6-14)</small> 1.4	<small>(15-19)</small> 8.9	<small>(20-49)</small> 57.3	<small>(>49)</small> 32.5
Iron (Fe), ppm	45	28		<small>(<5)</small> 0.6	<small>(5-9)</small> 1.1	<small>(10-50)</small> 67.4	<small>(>50)</small> 31.0
Copper (Cu), ppm	1.5	0.9		<small>(<0.4)</small>	<small>(0.4-1.1)</small> 35.1	<small>(1.2-3.0)</small> 62.5	<small>(>3.0)</small> 2.4
Boron (B), ppm	0.4	0.3	<small>(<0.4)</small> 52.5	<small>(0.4-0.5)</small> 28.5	<small>(0.6-1.2)</small> 18.1	<small>(1.3-2.5)</small> 0.8	<small>(>2.5)</small> 0.1
Nitrate (NO3-N), ppm	12.7	11.4	<small>(<5)</small> 37.5	<small>(5-9)</small> 12.5	<small>(10-19)</small> 25.0	<small>(20-39)</small> 25.0	<small>(>39)</small>
Ammonium (NH4-N), ppm	3.8	1.2	<small>(<5)</small> 50.0	<small>(5-9)</small> 50.0	<small>(10-19)</small>	<small>(20-39)</small>	<small>(>39)</small>