



# Southern Illinois

## 2022 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	1.1	<small>(1.0-2.5)</small> 1.1	<small>(2.5-5.0)</small> 36.5	<small>(5.0-7.0)</small> 56.1	<small>(7.0+)</small> 6.1	0.2
Phosphorus (P1), ppm	30	28	<small>(10-20)</small> 9.7	<small>(20-30)</small> 29.1	<small>(30-50)</small> 24.3	<small>(50+)</small> 24.5	12.4
Bicarbonate P, ppm	23		<small>(5-15)</small>	<small>(15-25)</small> 100.0	<small>(25-45)</small>	<small>(45+)</small>	
Potassium (K), ppm	128	57					
K, % Base Saturation	2.9	1.3	<small>(0.85-1.68)</small> 0.1	<small>(1.69-3.36)</small> 12.4	<small>(3.37-5.04)</small> 61.1	<small>(5.04+)</small> 21.8	4.7
Magnesium (Mg), ppm	218	145					
Mg, % Base Saturation	14.3	5.1	<small>(5-10)</small> 0.3	<small>(10-15)</small> 19.7	<small>(15-25)</small> 42.3	<small>(25+)</small> 34.0	3.7
Calcium (Ca), ppm	1601	680					
Ca, % Base Saturation	67.1	11.0	<small>(45-55)</small> 2.8	<small>(55-75)</small> 10.6	<small>(75-85)</small> 64.0	<small>(85+)</small> 17.0	5.6
pH (1:1)	6.4	0.6	<small>(5.1-5.8)</small> 1.1	<small>(5.9-6.9)</small> 17.9	<small>(7.0-7.5)</small> 65.6	<small>(7.5+)</small> 12.8	2.6
CEC, meq/100g	12.1	5.0	<small>(3.1-8.0)</small> 0.3	<small>(8.1-15.0)</small> 21.1	<small>(15.1-25.0)</small> 55.6	<small>(25.0+)</small> 21.6	1.4
Sulfur (S), ppm	7	11.6	<small>(4-7)</small> 5.0	<small>(8-12)</small> 56.4	<small>(13-17)</small> 35.3	<small>(17+)</small> 2.3	1.0
Zinc (Zn), ppm	2.6	3.3	<small>(1.1-2.9)</small>	<small>(3.0-4.9)</small> 80.8	<small>(5.0-10.0)</small> 14.2	<small>(10.0+)</small> 3.5	1.5
Manganese (Mn), ppm	46	17	<small>(6-14)</small>	<small>(15-19)</small> 0.7	<small>(20-49)</small> 8.3	<small>(49+)</small> 57.1	33.8
Iron (Fe), ppm	45	28	<small>(5-9)</small>	<small>(10-50)</small> 0.6	<small>(50+)</small> 1.0		67.9
Copper (Cu), ppm	1.4	0.6	<small>(0.4-1.1)</small>	<small>(1.2-3.0)</small> 38.6	<small>(3.0+)</small> 59.4		1.9
Boron (B), ppm	0.5	0.3	<small>(0.4-0.5)</small> 40.5	<small>(0.6-1.2)</small> 28.8	<small>(1.3-2.5)</small> 28.0	<small>(2.5+)</small> 2.5	0.1
Nitrate (NO3-N), ppm	14.0	9.8	<small>(5-9)</small> 4.9	<small>(10-19)</small> 24.4	<small>(20-39)</small> 56.1	<small>(39+)</small> 9.8	4.9
Ammonium (NH4-N), ppm	8.5	8.3	<small>(5-9)</small> 10.8	<small>(10-19)</small> 59.5	<small>(20-39)</small> 13.5	<small>(39+)</small> 8.1	8.1