



# Southern Illinois

## 2019 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	1.0	<small>(&lt;1.0)</small> 0.2	<small>(1.0-2.5)</small> 38.4	<small>(2.5-5.0)</small> 56.5	<small>(5.0-7.0)</small> 4.9	<small>(7.0+)</small> 0.1
Phosphorus (P1), ppm	29	23	<small>(&lt;10)</small> 9.0	<small>(10-20)</small> 30.7	<small>(20-30)</small> 24.9	<small>(30-50)</small> 22.1	<small>(50+)</small> 13.3
Phosphorus (P2), ppm	51	44	<small>(&lt;14)</small> 5.1	<small>(14-29)</small> 28.6	<small>(29-44)</small> 22.3	<small>(44-74)</small> 24.9	<small>(74+)</small> 19.0
Potassium (K), ppm	133	57					
K, % Base Saturation	2.7	1.1	<small>(&lt;0.79)</small> 2.7	<small>(0.79-1.56)</small> 7.0	<small>(1.57-3.12)</small> 68.1	<small>(3.13-4.67)</small> 20.5	<small>(&gt;4.67)</small> 4.4
Magnesium (Mg), ppm	242	156					
Mg, % Base Saturation	14.3	5.0	<small>(&lt;5)</small> 0.3	<small>(5-10)</small> 19.6	<small>(10-15)</small> 42.7	<small>(15-25)</small> 33.5	<small>(25+)</small> 3.9
Calcium (Ca), ppm	1769	705					
Ca, % Base Saturation	67.0	10.4	<small>(&lt;45)</small> 2.4	<small>(45-55)</small> 8.7	<small>(55-75)</small> 68.5	<small>(75-85)</small> 15.5	<small>(85+)</small> 4.9
pH (1:1)	6.3	0.5	<small>(&lt;5.1)</small> 0.8	<small>(5.1-5.8)</small> 16.1	<small>(5.9-6.9)</small> 72.4	<small>(7.0-7.5)</small> 8.9	<small>(&gt;7.5)</small> 1.8
CEC, meq/100g	13.3	5.2	<small>(&lt;3.1)</small>	<small>(3.1-8.0)</small> 14.1	<small>(8.1-15.0)</small> 53.3	<small>(15.1-25.0)</small> 30.4	<small>(&gt;25.0)</small> 2.1
Sulfur (S), ppm	7	2.4	<small>(&lt;4)</small> 2.7	<small>(4-7)</small> 62.4	<small>(8-12)</small> 33.1	<small>(13-17)</small> 1.3	<small>(&gt;17)</small> 0.5
Zinc (Zn), ppm	2.7	2.6	<small>(&lt;1.0)</small> 0.2	<small>(1.1-2.9)</small> 75.5	<small>(3.0-4.9)</small> 18.4	<small>(5.0-10.0)</small> 4.6	<small>(&gt;10.0)</small> 1.3
Manganese (Mn), ppm	42	18	<small>(&lt;6)</small> 0.1	<small>(6-14)</small> 2.6	<small>(15-19)</small> 14.5	<small>(20-49)</small> 58.4	<small>(&gt;49)</small> 24.3
Iron (Fe), ppm	40	26		<small>(&lt;5)</small> 0.7	<small>(5-9)</small> 1.1	<small>(10-50)</small> 74.8	<small>(&gt;50)</small> 23.4
Copper (Cu), ppm	1.5	0.6		<small>(&lt;0.4)</small>	<small>(0.4-1.1)</small> 28.3	<small>(1.2-3.0)</small> 70.8	<small>(&gt;3.0)</small> 0.9
Boron (B), ppm	0.4	0.3	<small>(&lt;0.4)</small> 47.8	<small>(0.4-0.5)</small> 25.4	<small>(0.6-1.2)</small> 25.5	<small>(1.3-2.5)</small> 1.2	<small>(&gt;2.5)</small> 0.1
Nitrate (NO <sub>3</sub> -N), ppm	16.4	11.4	<small>(&lt;5)</small> 4.0	<small>(5-9)</small> 25.8	<small>(10-19)</small> 39.4	<small>(20-39)</small> 26.4	<small>(&gt;39)</small> 4.4
Ammonium (NH <sub>4</sub> -N), ppm	5.4	6.9	<small>(&lt;5)</small> 50.1	<small>(5-9)</small> 38.8	<small>(10-19)</small> 7.4	<small>(20-39)</small> 3.1	<small>(&gt;39)</small> 0.7