

# Southeast Illinois

## 2018 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,%	3.1	1.0	<small>(&lt;1.0)</small> 0.1	<small>(1.0-2.5)</small> 38.8	<small>(2.5-5.0)</small> 55.7	<small>(5.0-7.0)</small> 5.3	<small>(7.0+)</small> 0.1
Phosphorus (P1), ppm	28	27	<small>(&lt;10)</small> 9.1	<small>(10-20)</small> 34.3	<small>(20-30)</small> 25.0	<small>(30-50)</small> 21.1	<small>(50+)</small> 10.5
Phosphorus (P2), ppm	50	34	<small>(&lt;14)</small> 2.4	<small>(14-29)</small> 23.1	<small>(29-44)</small> 26.1	<small>(44-74)</small> 35.0	<small>(74+)</small> 13.3
Potassium (K), ppm	130	56					
K, % Base Saturation	2.7	1.1	<small>(&lt;0.80)</small> 2.9	<small>(0.80-1.57)</small> 7.6	<small>(1.58-3.15)</small> 69.5	<small>(3.16-4.72)</small> 19.3	<small>(&gt;4.72)</small> 3.5
Magnesium (Mg), ppm	229	154					
Mg, % Base Saturation	13.6	4.9	<small>(&lt;5)</small> 0.3	<small>(5-10)</small> 24.5	<small>(10-15)</small> 42.6	<small>(15-25)</small> 29.8	<small>(25+)</small> 2.8
Calcium (Ca), ppm	1765	707					
Ca, % Base Saturation	68.0	10.4	<small>(&lt;45)</small> 1.9	<small>(45-55)</small> 7.6	<small>(55-75)</small> 67.1	<small>(75-85)</small> 16.9	<small>(85+)</small> 6.5
pH (1:1)	6.3	0.5	<small>(&lt;5.1)</small> 0.6	<small>(5.1-5.8)</small> 15.6	<small>(5.9-6.0)</small> 73.0	<small>(7.0-7.5)</small> 9.6	<small>(&gt;7.5)</small> 1.2
CEC, meq/100g	13.2	5.3	<small>(&lt;3.1)</small>	<small>(3.1-8.0)</small> 15.5	<small>(8.1-15.0)</small> 53.1	<small>(15.1-25.0)</small> 29.0	<small>(&gt;25.0)</small> 2.3
Sulfur (S), ppm	8	2.7	<small>(&lt;4)</small> 1.1	<small>(4-7)</small> 48.1	<small>(8-12)</small> 48.9	<small>(13-17)</small> 1.4	<small>(&gt;17)</small> 0.5
Zinc (Zn), ppm	2.6	3.2	<small>(&lt;1.0)</small> 0.2	<small>(1.1-2.9)</small> 78.4	<small>(3.0-4.9)</small> 16.0	<small>(5.0-10.0)</small> 4.4	<small>(&gt;10.0)</small> 1.0
Manganese (Mn), ppm	39	17	<small>(&lt;6)</small> 0.1	<small>(6-14)</small> 4.0	<small>(15-19)</small> 19.4	<small>(20-49)</small> 56.9	<small>(&gt;49)</small> 19.6
Iron (Fe), ppm	34	19		<small>(&lt;5)</small> 0.8	<small>(5-9)</small> 1.5	<small>(10-50)</small> 83.9	<small>(&gt;50)</small> 13.9
Copper (Cu), ppm	1.6	0.6		<small>(&lt;0.4)</small>	<small>(0.4-1.1)</small> 24.1	<small>(1.2-3.0)</small> 75.2	<small>(&gt;3.0)</small> 0.7
Boron (B), ppm	0.5	0.3	<small>(&lt;0.4)</small> 35.2	<small>(0.4-0.5)</small> 30.6	<small>(0.6-1.2)</small> 32.6	<small>(1.3-2.5)</small> 1.6	<small>(&gt;2.5)</small> 0.1
Nitrate (NO <sub>3</sub> -N), ppm	18.4	15.3	<small>(&lt;5)</small> 5.9	<small>(5-9)</small> 21.5	<small>(10-19)</small> 36.6	<small>(20-39)</small> 28.1	<small>(&gt;39)</small> 7.9
Ammonium (NH <sub>4</sub> -N), ppm	11.4	76.2	<small>(&lt;5)</small> 28.1	<small>(5-9)</small> 48.3	<small>(10-19)</small> 17.2	<small>(20-39)</small> 5.1	<small>(&gt;39)</small> 1.4