



# Southeast Illinois

## 2020 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>(&lt;1.0)</small> 0.1	<small>(1.0-2.5)</small> 39.6	<small>(2.5-5.0)</small> 55.2	<small>(5.0-7.0)</small> 4.9	<small>(7.0+)</small> 0.2
Phosphorus (P1), ppm	27	22	<small>(&lt;10)</small> 9.6	<small>(10-20)</small> 33.9	<small>(20-30)</small> 25.2	<small>(30-50)</small> 20.6	<small>(50+)</small> 10.7
Phosphorus (P2), ppm	37	37	<small>(&lt;14)</small> 16.2	<small>(14-29)</small> 43.5	<small>(29-44)</small> 15.5	<small>(44-74)</small> 14.5	<small>(74+)</small> 10.3
Bicarbonate P, ppm	20		<small>(&lt;5)</small>	<small>(5-15)</small>	<small>(15-25)</small> 100.0	<small>(25-45)</small>	<small>(45+)</small>
Potassium (K), ppm	118	53					
K, % Base Saturation	2.7	1.2	<small>(&lt;0.87)</small> 0.7	<small>(0.87-1.71)</small> 15.3	<small>(1.72-3.42)</small> 65.0	<small>(3.43-5.14)</small> 16.4	<small>(5.14+)</small> 3.2
Magnesium (Mg), ppm	205	135					
Mg, % Base Saturation	13.7	5.0	<small>(&lt;5)</small> 0.4	<small>(5-10)</small> 24.9	<small>(10-15)</small> 41.4	<small>(15-25)</small> 29.9	<small>(25+)</small> 3.3
Calcium (Ca), ppm	1576	679					
Ca, % Base Saturation	67.5	10.8	<small>(&lt;45)</small> 3.0	<small>(45-55)</small> 8.4	<small>(55-75)</small> 66.8	<small>(75-85)</small> 15.9	<small>(85+)</small> 5.8
pH (1:1)	6.3	0.5	<small>(&lt;5.1)</small> 1.1	<small>(5.1-5.8)</small> 15.7	<small>(5.9-6.9)</small> 72.7	<small>(7.0-7.5)</small> 9.2	<small>(&gt;7.5)</small> 1.4
CEC, meq/100g	11.8	4.8	<small>(&lt;3.1)</small>	<small>(3.1-8.0)</small> 23.8	<small>(8.1-15.0)</small> 53.6	<small>(15.1-25.0)</small> 21.9	<small>(&gt;25.0)</small> 0.7
Sulfur (S), ppm	7	14.3	<small>(&lt;4)</small> 5.4	<small>(4-7)</small> 64.4	<small>(8-12)</small> 28.3	<small>(13-17)</small> 1.2	<small>(&gt;17)</small> 0.7
Zinc (Zn), ppm	2.5	2.8	<small>(&lt;1.0)</small> 0.2	<small>(1.1-2.9)</small> 80.3	<small>(3.0-4.9)</small> 15.2	<small>(5.0-10.0)</small> 3.3	<small>(&gt;10.0)</small> 1.0
Manganese (Mn), ppm	41	16	<small>(&lt;6)</small>	<small>(6-14)</small> 1.5	<small>(15-19)</small> 13.7	<small>(20-49)</small> 62.5	<small>(&gt;49)</small> 22.2
Iron (Fe), ppm	44	28		<small>(&lt;5)</small> 0.5	<small>(5-9)</small> 1.0	<small>(10-50)</small> 69.2	<small>(&gt;50)</small> 29.3
Copper (Cu), ppm	1.4	0.5		<small>(&lt;0.4)</small>	<small>(0.4-1.1)</small> 37.1	<small>(1.2-3.0)</small> 62.5	<small>(&gt;3.0)</small> 0.4
Boron (B), ppm	0.4	1.2	<small>(&lt;0.4)</small> 57.4	<small>(0.4-0.5)</small> 25.5	<small>(0.6-1.2)</small> 16.3	<small>(1.3-2.5)</small> 0.7	<small>(&gt;2.5)</small>
Nitrate (NO <sub>3</sub> -N), ppm	15.7	11.3	<small>(&lt;5)</small> 7.6	<small>(5-9)</small> 22.9	<small>(10-19)</small> 41.9	<small>(20-39)</small> 22.7	<small>(&gt;39)</small> 4.8
Ammonium (NH <sub>4</sub> -N), ppm	4.7	3.6	<small>(&lt;5)</small> 35.3	<small>(5-9)</small> 53.1	<small>(10-19)</small> 8.3	<small>(20-39)</small> 3.3	<small>(&gt;39)</small>