

# Southeast Illinois

## 2017 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	1.8	<small>&lt;1.0</small> 0.1	<small>1.0-2.5</small> 38.5	<small>2.5-5.0</small> 56.4	<small>5.0-7.0</small> 4.8	<small>7.0+</small> 0.2
Phosphorus (P1), ppm	27	25	<small>&lt;10</small> 9.3	<small>10-20</small> 33.9	<small>20-30</small> 26.4	<small>30-50</small> 20.7	<small>50+</small> 9.7
Phosphorus (P2), ppm	49	30	<small>&lt;14</small> 3.3	<small>14-29</small> 18.8	<small>29-44</small> 31.3	<small>44-74</small> 32.9	<small>74+</small> 13.7
Bicarbonate P, ppm	12		<small>&lt;5</small>	<small>5-15</small> 100.0	<small>15-25</small>	<small>25-45</small>	<small>45+</small>
Potassium (K), ppm	133	58					
K, % Base Saturation	2.8	1.2	<small>&lt;0.81</small> 10.1	<small>0.81-1.60</small> 7.8	<small>1.61-3.20</small> 64.7	<small>3.21-4.80</small> 23.7	<small>&gt;4.80</small> 3.6
Magnesium (Mg), ppm	217	138					
Mg, % Base Saturation	13.4	4.6	<small>&lt;5</small> 0.6	<small>5-10</small> 23.5	<small>10-15</small> 45.1	<small>15-25</small> 28.8	<small>25+</small> 2.0
Calcium (Ca), ppm	1717	722					
Ca, % Base Saturation	67.5	10.7	<small>&lt;45</small> 2.6	<small>45-55</small> 7.7	<small>55-75</small> 67.8	<small>75-85</small> 15.4	<small>85+</small> 6.5
pH (1:1)	6.3	0.5	<small>&lt;5.1</small> 0.9	<small>5.1-5.8</small> 17.5	<small>5.9-6.0</small> 70.2	<small>7.0-7.5</small> 10.3	<small>&gt;7.5</small> 1.1
CEC, meq/100g	12.9	5.4	<small>&lt;3.1</small> 0.1	<small>3.1-8.0</small> 19.1	<small>8.1-15.0</small> 51.0	<small>15.1-25.0</small> 27.6	<small>&gt;25.0</small> 2.2
Sulfur (S), ppm	8	18.3	<small>&lt;4</small> 0.8	<small>4-7</small> 54.4	<small>8-12</small> 42.6	<small>13-17</small> 1.2	<small>&gt;17</small> 1.1
Zinc (Zn), ppm	2.6	2.2	<small>&lt;1.0</small> 0.1	<small>1.1-2.9</small> 78.5	<small>3.0-4.9</small> 15.6	<small>5.0-10.0</small> 4.3	<small>&gt;10.0</small> 1.6
Manganese (Mn), ppm	43	17	<small>&lt;6</small>	<small>6-14</small> 1.2	<small>15-19</small> 11.7	<small>20-49</small> 58.7	<small>&gt;49</small> 28.4
Iron (Fe), ppm	36	20		<small>&lt;5</small> 0.3	<small>5-9</small> 0.8	<small>10-50</small> 82.9	<small>&gt;50</small> 16.0
Copper (Cu), ppm	1.5	0.5		<small>&lt;0.4</small>	<small>0.4-1.1</small> 30.8	<small>1.2-3.0</small> 68.3	<small>&gt;3.0</small> 0.8
Boron (B), ppm	0.5	0.3	<small>&lt;0.4</small> 41.7	<small>0.4-0.5</small> 29.7	<small>0.6-1.2</small> 27.6	<small>1.3-2.5</small> 0.9	<small>&gt;2.5</small> 0.1
Nitrate (NO <sub>3</sub> -N), ppm	17.5	47.5	<small>&lt;5</small> 4.6	<small>5-9</small> 26.3	<small>10-19</small> 36.7	<small>20-39</small> 27.7	<small>&gt;39</small> 4.6
Ammonium (NH <sub>4</sub> -N), ppm	7.2	16.1	<small>&lt;5</small> 53.8	<small>5-9</small> 24.5	<small>10-19</small> 14.1	<small>20-39</small> 6.8	<small>&gt;39</small> 0.9