

Southern 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,%	3.0	1.5	<small><1.0</small> 0.2	<small>1.0-2.5</small> 44.5	<small>2.5-5.0</small> 50.5	<small>5.0-7.0</small> 4.5	<small>7.0+</small> 0.4
Phosphorus (P1), ppm	29	24	<small><10</small> 10.1	<small>10-20</small> 29.2	<small>20-30</small> 24.8	<small>30-50</small> 24.1	<small>50+</small> 11.7
Phosphorus (P2), ppm	49	30	<small><14</small> 3.3	<small>14-29</small> 18.7	<small>29-44</small> 31.3	<small>44-74</small> 32.8	<small>74+</small> 13.8
Bicarbonate P, ppm	12		<small><5</small>	<small>5-15</small> 100.0	<small>15-25</small>	<small>25-45</small>	<small>45+</small>
Potassium (K), ppm	132	63					
K, % Base Saturation	3.0	1.4	<small><0.84</small> 6.2	<small>0.84-1.65</small> 11.2	<small>1.66-3.30</small> 60.3	<small>3.31-4.96</small> 22.8	<small>>4.96</small> 5.4
Magnesium (Mg), ppm	220	157					
Mg, % Base Saturation	13.9	5.0	<small><5</small> 0.4	<small>5-10</small> 23.0	<small>10-15</small> 41.6	<small>15-25</small> 31.6	<small>25+</small> 3.4
Calcium (Ca), ppm	1652	792					
Ca, % Base Saturation	67.9	11.7	<small><45</small> 3.3	<small>45-55</small> 8.8	<small>55-75</small> 62.7	<small>75-85</small> 16.1	<small>85+</small> 9.1
pH (1:1)	6.4	0.6	<small><5.1</small> 1.0	<small>5.1-5.8</small> 16.9	<small>5.9-6.0</small> 65.9	<small>7.0-7.5</small> 13.9	<small>>7.5</small> 2.3
CEC, meq/100g	12.3	5.7	<small><3.1</small> 0.1	<small>3.1-8.0</small> 24.9	<small>8.1-15.0</small> 49.4	<small>15.1-25.0</small> 22.5	<small>>25.0</small> 3.1
Sulfur (S), ppm	9	59.6	<small><4</small> 1.3	<small>4-7</small> 66.1	<small>8-12</small> 28.7	<small>13-17</small> 1.6	<small>>17</small> 2.3
Zinc (Zn), ppm	2.6	2.1	<small><1.0</small>	<small>1.1-2.9</small> 76.1	<small>3.0-4.9</small> 18.5	<small>5.0-10.0</small> 4.1	<small>>10.0</small> 1.3
Manganese (Mn), ppm	43	17	<small><6</small>	<small>6-14</small> 1.2	<small>15-19</small> 11.3	<small>20-49</small> 60.0	<small>>49</small> 27.5
Iron (Fe), ppm	41	25		<small><5</small> 0.5	<small>5-9</small> 1.3	<small>10-50</small> 73.1	<small>>50</small> 25.1
Copper (Cu), ppm	1.6	0.6		<small><0.4</small>	<small>0.4-1.1</small> 25.8	<small>1.2-3.0</small> 72.7	<small>>3.0</small> 1.4
Boron (B), ppm	0.5	0.3	<small><0.4</small> 42.0	<small>0.4-0.5</small> 30.2	<small>0.6-1.2</small> 26.2	<small>1.3-2.5</small> 1.4	<small>>2.5</small> 0.2
Nitrate (NO ₃ -N), ppm	17.8	46.7	<small><5</small> 5.1	<small>5-9</small> 26.0	<small>10-19</small> 36.2	<small>20-39</small> 27.5	<small>>39</small> 5.3
Ammonium (NH ₄ -N), ppm	7.1	15.8	<small><5</small> 54.9	<small>5-9</small> 24.1	<small>10-19</small> 13.6	<small>20-39</small> 6.5	<small>>39</small> 0.8