

Southern 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	1.4	<small><1.0</small> 0.1	<small>1.0-2.5</small> 42.2	<small>2.5-5.0</small> 52.9	<small>5.0-7.0</small> 4.5	<small>7.0+</small> 0.2
Phosphorus (P1), ppm	28	24	<small><10</small> 9.9	<small>10-20</small> 31.8	<small>20-30</small> 24.9	<small>30-50</small> 21.8	<small>50+</small> 11.6
Phosphorus (P2), ppm	37	37	<small><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	14	4	<small><5</small>	<small>5-15</small> 60.0	<small>15-25</small> 40.0	<small>25-45</small>	<small>45+</small>
Potassium (K), ppm	119	55					
K, % Base Saturation	2.9	1.3	<small><0.90</small> 0.6	<small>0.90-1.78</small> 14.0	<small>1.79-3.55</small> 64.8	<small>3.56-5.33</small> 17.0	<small>5.33+</small> 3.9
Magnesium (Mg), ppm	200	132					
Mg, % Base Saturation	13.9	5.1	<small><5</small> 0.3	<small>5-10</small> 23.6	<small>10-15</small> 40.6	<small>15-25</small> 31.9	<small>25+</small> 3.5
Calcium (Ca), ppm	1513	627					
Ca, % Base Saturation	68.2	11.3	<small><45</small> 3.2	<small>45-55</small> 8.7	<small>55-75</small> 62.8	<small>75-85</small> 18.1	<small>85+</small> 7.2
pH (1:1)	6.4	0.6	<small><5.1</small> 0.9	<small>5.1-5.8</small> 14.9	<small>5.9-6.9</small> 69.1	<small>7.0-7.5</small> 13.0	<small>>7.5</small> 2.1
CEC, meq/100g	11.2	4.6	<small><3.1</small> 0.1	<small>3.1-8.0</small> 26.7	<small>8.1-15.0</small> 55.2	<small>15.1-25.0</small> 17.3	<small>>25.0</small> 0.8
Sulfur (S), ppm	7	12.4	<small><4</small> 5.6	<small>4-7</small> 66.6	<small>8-12</small> 26.0	<small>13-17</small> 1.1	<small>>17</small> 0.6
Zinc (Zn), ppm	2.7	4.6	<small><1.0</small> 0.2	<small>1.1-2.9</small> 79.0	<small>3.0-4.9</small> 15.6	<small>5.0-10.0</small> 3.8	<small>>10.0</small> 1.3
Manganese (Mn), ppm	44	17	<small><6</small>	<small>6-14</small> 1.3	<small>15-19</small> 12.3	<small>20-49</small> 57.7	<small>>49</small> 28.7
Iron (Fe), ppm	42	28		<small><5</small> 0.7	<small>5-9</small> 1.2	<small>10-50</small> 70.9	<small>>50</small> 27.2
Copper (Cu), ppm	1.4	0.6		<small><0.4</small>	<small>0.4-1.1</small> 36.6	<small>1.2-3.0</small> 62.8	<small>>3.0</small> 0.7
Boron (B), ppm	0.4	1.0	<small><0.4</small> 54.3	<small>0.4-0.5</small> 26.9	<small>0.6-1.2</small> 18.1	<small>1.3-2.5</small> 0.7	<small>>2.5</small>
Nitrate (NO ₃ -N), ppm	15.4	11.6	<small><5</small> 9.9	<small>5-9</small> 22.9	<small>10-19</small> 40.4	<small>20-39</small> 21.9	<small>>39</small> 4.9
Ammonium (NH ₄ -N), ppm	4.6	3.7	<small><5</small> 37.8	<small>5-9</small> 50.5	<small>10-19</small> 8.4	<small>20-39</small> 3.1	<small>>39</small> 0.2