

State of 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,%	3.8	1.7	<small><1.0</small> 0.2	<small>1.0-2.5</small> 19.7	<small>2.5-5.0</small> 63.4	<small>5.0-7.0</small> 14.0	<small>7.0+</small> 2.7
Phosphorus (P1), ppm	39	37	<small><10</small> 4.1	<small>10-20</small> 18.2	<small>20-30</small> 23.7	<small>30-50</small> 32.4	<small>50+</small> 21.7
Phosphorus (P2), ppm	51	36	<small><14</small> 3.7	<small>14-29</small> 22.5	<small>29-44</small> 28.1	<small>44-74</small> 29.3	<small>74+</small> 16.5
Bicarbonate P, ppm	15		<small><5</small>	<small>5-15</small> 100.0	<small>15-25</small>	<small>25-45</small>	<small>45+</small>
Potassium (K), ppm	173	78					
K, % Base Saturation	3.3	1.6	<small><0.74</small> 1.5	<small>0.74-1.45</small> 3.7	<small>1.46-2.91</small> 44.6	<small>2.92-4.36</small> 35.2	<small>>4.36</small> 16.4
Magnesium (Mg), ppm	430	205					
Mg, % Base Saturation	24.5	8.7	<small><5</small> 0.3	<small>5-10</small> 6.5	<small>10-15</small> 12.4	<small>15-25</small> 27.2	<small>25+</small> 53.7
Calcium (Ca), ppm	1761	1013					
Ca, % Base Saturation	59.7	10.9	<small><45</small> 6.2	<small>45-55</small> 29.2	<small>55-75</small> 55.1	<small>75-85</small> 6.3	<small>85+</small> 3.2
pH (1:1)	6.5	0.5	<small><5.1</small> 0.4	<small>5.1-5.8</small> 11.2	<small>5.9-6.0</small> 70.0	<small>7.0-7.5</small> 15.9	<small>>7.5</small> 2.5
CEC, meq/100g	14.6	5.8	<small><3.1</small> 0.1	<small>3.1-8.0</small> 7.7	<small>8.1-15.0</small> 53.2	<small>15.1-25.0</small> 35.3	<small>>25.0</small> 3.7
Sulfur (S), ppm	8	5.9	<small><4</small> 1.2	<small>4-7</small> 50.0	<small>8-12</small> 44.0	<small>13-17</small> 3.9	<small>>17</small> 0.9
Zinc (Zn), ppm	3.8	3.9	<small><1.0</small>	<small>1.1-2.9</small> 53.2	<small>3.0-4.9</small> 29.9	<small>5.0-10.0</small> 13.1	<small>>10.0</small> 3.7
Manganese (Mn), ppm	44	16	<small><6</small> 0.6	<small>6-14</small> 2.4	<small>15-19</small> 8.4	<small>20-49</small> 60.0	<small>>49</small> 28.6
Iron (Fe), ppm	37	22		<small><5</small> 1.8	<small>5-9</small> 1.5	<small>10-50</small> 77.8	<small>>50</small> 18.9
Copper (Cu), ppm	1.6	1.1		<small><0.4</small> 0.1	<small>0.4-1.1</small> 31.5	<small>1.2-3.0</small> 64.7	<small>>3.0</small> 3.8
Boron (B), ppm	0.6	0.6	<small><0.4</small> 32.5	<small>0.4-0.5</small> 30.2	<small>0.6-1.2</small> 30.9	<small>1.3-2.5</small> 5.6	<small>>2.5</small> 0.9
Nitrate (NO ₃ -N), ppm	19.4	20.0	<small><5</small> 10.0	<small>5-9</small> 23.8	<small>10-19</small> 30.7	<small>20-39</small> 24.7	<small>>39</small> 10.8
Ammonium (NH ₄ -N), ppm	8.7	58.1	<small><5</small> 43.2	<small>5-9</small> 40.7	<small>10-19</small> 11.0	<small>20-39</small> 3.7	<small>>39</small> 1.3