



Great Lakes States

2021 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,%	3.3	3.6	<small><1.0</small> 1.2	<small>1.0-2.5</small> 40.3	<small>2.5-5.0</small> 51.2	<small>5.0-7.0</small> 5.0	<small>7.0+</small> 2.3
Phosphorus (P1), ppm	43	44	<small><10</small> 5.8	<small>10-20</small> 18.5	<small>20-30</small> 21.3	<small>30-50</small> 27.2	<small>50+</small> 26.5
Phosphorus (P2), ppm	65	83	<small><14</small> 5.6	<small>14-29</small> 18.6	<small>29-44</small> 20.3	<small>44-74</small> 29.2	<small>74+</small> 26.3
Bicarbonate P, ppm	42	81	<small><5</small> 0.3	<small>5-15</small> 22.0	<small>15-25</small> 24.1	<small>25-45</small> 37.7	<small>45+</small> 15.8
Potassium (K), ppm	143	68					
K, % Base Saturation	3.8	1.9	<small><0.91</small> 1.1	<small>0.91-1.80</small> 7.2	<small>1.81-3.61</small> 52.9	<small>3.62-5.41</small> 30.7	<small>>5.41</small> 8.9
Magnesium (Mg), ppm	274	164					
Mg, % Base Saturation	20.0	6.7	<small><5</small> 0.5	<small>5-10</small> 4.8	<small>10-15</small> 17.8	<small>15-25</small> 52.8	<small>25+</small> 24.0
Calcium (Ca), ppm	1420	861					
Ca, % Base Saturation	63.8	11.1	<small><45</small> 4.5	<small>45-55</small> 16.2	<small>55-75</small> 63.7	<small>75-85</small> 13.3	<small>85+</small> 2.3
pH (1:1)	6.6	0.6	<small><5.1</small> 0.9	<small>5.1-5.8</small> 11.3	<small>5.9-6.9</small> 62.0	<small>7.0-7.5</small> 19.2	<small>>7.5</small> 6.5
CEC, meq/100g	11.0	5.3	<small><3.1</small> 0.9	<small>3.1-8.0</small> 28.8	<small>8.1-15.0</small> 52.8	<small>15.1-25.0</small> 16.2	<small>>25.0</small> 1.3
Sulfur (S), ppm	9	22.6	<small><4</small> 2.7	<small>4-7</small> 48.4	<small>8-12</small> 41.1	<small>13-17</small> 5.2	<small>>17</small> 2.6
Zinc (Zn), ppm	3.8	6.0	<small><1.0</small> 0.3	<small>1.1-2.9</small> 51.9	<small>3.0-4.9</small> 29.5	<small>5.0-10.0</small> 15.2	<small>>10.0</small> 3.4
Manganese (Mn), ppm	40	17	<small><6</small> 1.5	<small>6-14</small> 6.4	<small>15-19</small> 12.2	<small>20-49</small> 57.0	<small>>49</small> 23.0
Iron (Fe), ppm	42	26		<small><5</small> 0.8	<small>5-9</small> 1.2	<small>10-50</small> 71.7	<small>>50</small> 26.2
Copper (Cu), ppm	1.7	1.3		<small><0.4</small> 0.6	<small>0.4-1.1</small> 37.4	<small>1.2-3.0</small> 53.3	<small>>3.0</small> 8.7
Boron (B), ppm	0.5	0.8	<small><0.4</small> 38.8	<small>0.4-0.5</small> 26.0	<small>0.6-1.2</small> 30.0	<small>1.3-2.5</small> 4.9	<small>>2.5</small> 0.3
Nitrate (NO ₃ -N), ppm	27.6	25.9	<small><5</small> 8.6	<small>5-9</small> 16.4	<small>10-19</small> 22.3	<small>20-39</small> 29.0	<small>>39</small> 23.7
Ammonium (NH ₄ -N), ppm	8.2	20.2	<small><5</small> 39.2	<small>5-9</small> 41.2	<small>10-19</small> 8.2	<small>20-39</small> 5.0	<small>>39</small> 6.4