



Great Lakes Region

2023 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	3.7	<small><1.0</small> 1.2	<small>1.0-2.5</small> 38.3	<small>2.5-5.0</small> 52.4	<small>5.0-7.0</small> 5.7	<small>7.0+</small> 2.4
Phosphorus (P1), ppm	43	44	<small><10</small> 5.2	<small>10-20</small> 18.0	<small>20-30</small> 21.6	<small>30-50</small> 27.7	<small>50+</small> 26.7
Phosphorus (P2), ppm	70	73	<small><14</small> 3.3	<small>14-29</small> 16.0	<small>29-44</small> 20.3	<small>44-74</small> 30.3	<small>74+</small> 30.2
Bicarbonate P, ppm	30	51	<small><5</small> 0.7	<small>5-15</small> 24.1	<small>15-25</small> 42.3	<small>25-45</small> 27.0	<small>45+</small> 5.8
Potassium (K), ppm	148	68					
K, % Base Saturation	3.7	1.9	<small><0.88</small> 0.8	<small>0.88-1.74</small> 6.2	<small>1.75-3.49</small> 51.4	<small>3.50-5.23</small> 31.8	<small>>5.23</small> 10.3
Magnesium (Mg), ppm	284	163					
Mg, % Base Saturation	20.0	6.6	<small><5</small> 0.4	<small>5-10</small> 4.5	<small>10-15</small> 17.8	<small>15-25</small> 53.1	<small>25+</small> 24.3
Calcium (Ca), ppm	1463	933					
Ca, % Base Saturation	62.9	11.1	<small><45</small> 5.2	<small>45-55</small> 18.2	<small>55-75</small> 62.9	<small>75-85</small> 11.7	<small>85+</small> 2.0
pH (1:1)	6.5	0.6	<small><5.1</small> 1.1	<small>5.1-5.8</small> 13.0	<small>5.9-6.9</small> 63.2	<small>7.0-7.5</small> 17.7	<small>>7.5</small> 5.1
CEC, meq/100g	11.5	5.6	<small><3.1</small> 0.7	<small>3.1-8.0</small> 25.6	<small>8.1-15.0</small> 53.3	<small>15.1-25.0</small> 18.7	<small>>25.0</small> 1.6
Sulfur (S), ppm	9	17.6	<small><4</small> 1.3	<small>4-7</small> 42.0	<small>8-12</small> 46.4	<small>13-17</small> 7.1	<small>>17</small> 3.2
Zinc (Zn), ppm	3.8	4.1	<small><1.0</small> 0.7	<small>1.1-2.9</small> 51.8	<small>3.0-4.9</small> 29.0	<small>5.0-10.0</small> 15.6	<small>>10.0</small> 3.6
Manganese (Mn), ppm	41	17	<small><6</small> 1.0	<small>6-14</small> 5.9	<small>15-19</small> 11.3	<small>20-49</small> 56.0	<small>>49</small> 25.8
Iron (Fe), ppm	44	26		<small><5</small> 0.7	<small>5-9</small> 1.0	<small>10-50</small> 69.5	<small>>50</small> 28.8
Copper (Cu), ppm	1.7	1.4		<small><0.4</small> 1.2	<small>0.4-1.1</small> 37.2	<small>1.2-3.0</small> 53.0	<small>>3.0</small> 8.6
Boron (B), ppm	0.6	0.4	<small><0.4</small> 35.3	<small>0.4-0.5</small> 27.8	<small>0.6-1.2</small> 31.6	<small>1.3-2.5</small> 4.9	<small>>2.5</small> 0.4
Nitrate (NO ₃ -N), ppm	35.1	54.3	<small><5</small> 4.4	<small>5-9</small> 8.7	<small>10-19</small> 20.0	<small>20-39</small> 34.7	<small>>39</small> 32.3
Ammonium (NH ₄ -N), ppm	11.1	68.4	<small><5</small> 20.0	<small>5-9</small> 54.5	<small>10-19</small> 15.8	<small>20-39</small> 5.7	<small>>39</small> 4.0