



a&lgreatlakes  
LABORATORIES

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# Great Lakes Region

## 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, %	3.2	4.1	1.3 (<1.0)	44.0 (1.0-2.5)	48.1 (2.5-5.0)	4.1 (5.0-7.0)	2.5 (7.0+)
Phosphorus (P1), ppm	45	46	6.2 <td>18.0 (10-20)</td> <td>20.4 (20-30)</td> <td>26.2 (30-50)</td> <td>28.6 (50+)</td>	18.0 (10-20)	20.4 (20-30)	26.2 (30-50)	28.6 (50+)
Phosphorus (P2), ppm	67	67	4.7 <td>17.7 (14-29)</td> <td>19.8 (29-44)</td> <td>29.0 (44-74)</td> <td>28.8 (74+)</td>	17.7 (14-29)	19.8 (29-44)	29.0 (44-74)	28.8 (74+)
Bicarbonate P, ppm	39	21	3.0 <td>7.0 (5-15)</td> <td>10.5 (15-25)</td> <td>48.9 (25-45)</td> <td>30.6 (45+)</td>	7.0 (5-15)	10.5 (15-25)	48.9 (25-45)	30.6 (45+)
Potassium (K), ppm	139	66					
K, % Base Saturation	3.9	2.0	1.6 <td>7.9 (0.94-1.86)</td> <td>53.6 (1.87-3.72)</td> <td>29.8 (3.73-5.57)</td> <td>8.1<br (&gt;5.57)<="" td=""/></td>	7.9 (0.94-1.86)	53.6 (1.87-3.72)	29.8 (3.73-5.57)	8.1 
Magnesium (Mg), ppm	262	160					
Mg, % Base Saturation	20.1	6.7	0.5 <td>5.1 (5-10)</td> <td>17.6 (10-15)</td> <td>53.1 (15-25)</td> <td>23.6 (25+)</td>	5.1 (5-10)	17.6 (10-15)	53.1 (15-25)	23.6 (25+)
Calcium (Ca), ppm	1384	930					
Ca, % Base Saturation	63.8	11.6	5.5 <td>16.0 (45-55)</td> <td>62.7 (55-75)</td> <td>13.2 (75-85)</td> <td>2.6 (85+)</td>	16.0 (45-55)	62.7 (55-75)	13.2 (75-85)	2.6 (85+)
pH (1:1)	6.6	0.6	0.8 <td>11.2 (5.1-5.8)</td> <td>61.3 (5.9-6.0)</td> <td>20.3 (7.0-7.5)</td> <td>6.4<br (&gt;7.5)<="" td=""/></td>	11.2 (5.1-5.8)	61.3 (5.9-6.0)	20.3 (7.0-7.5)	6.4 
CEC, meq/100g	10.6	5.6	1.8 <td>32.2 (3.1-8.0)</td> <td>49.3 (8.1-15.0)</td> <td>15.3 (15.1-25.0)</td> <td>1.4<br (&gt;25.0)<="" td=""/></td>	32.2 (3.1-8.0)	49.3 (8.1-15.0)	15.3 (15.1-25.0)	1.4 
Sulfur (S), ppm	9	35.5	1.1 <td>55.8 (4-7)</td> <td>36.1 (8-12)</td> <td>4.0 (13-17)</td> <td>2.9<br (&gt;17)<="" td=""/></td>	55.8 (4-7)	36.1 (8-12)	4.0 (13-17)	2.9 
Zinc (Zn), ppm	3.8	4.0		53.3 <td>28.2 (1.1-2.9)</td> <td>14.8 (3.0-4.9)</td> <td>3.5<br (&gt;10.0)<="" td=""/></td>	28.2 (1.1-2.9)	14.8 (3.0-4.9)	3.5 
Manganese (Mn), ppm	38	17	2.2 <td>6.8 (6-14)</td> <td>13.2 (15-19)</td> <td>57.2 (20-49)</td> <td>20.4<br (&gt;49)<="" td=""/></td>	6.8 (6-14)	13.2 (15-19)	57.2 (20-49)	20.4 
Iron (Fe), ppm	43	26		0.7 <td>1.2 (5-9)</td> <td>71.0 (10-50)</td> <td>27.0<br (&gt;50)<="" td=""/></td>	1.2 (5-9)	71.0 (10-50)	27.0 
Copper (Cu), ppm	1.7	1.5		0.3 <td>38.2 (0.4-1.1)</td> <td>53.5 (1.2-3.0)</td> <td>8.0<br (&gt;3.0)<="" td=""/></td>	38.2 (0.4-1.1)	53.5 (1.2-3.0)	8.0 
Boron (B), ppm	0.5	0.5	42.5 <td>25.0 (0.4-0.5)</td> <td>28.2 (0.6-1.2)</td> <td>3.9 (1.3-2.5)</td> <td>0.3<br (&gt;2.5)<="" td=""/></td>	25.0 (0.4-0.5)	28.2 (0.6-1.2)	3.9 (1.3-2.5)	0.3 
Nitrate (NO <sub>3</sub> -N), ppm	20.8	29.0	11.0 <td>19.6 (5-9)</td> <td>29.2 (10-19)</td> <td>28.3 (20-39)</td> <td>11.9<br (&gt;39)<="" td=""/></td>	19.6 (5-9)	29.2 (10-19)	28.3 (20-39)	11.9 
Ammonium (NH <sub>4</sub> -N), ppm	6.8	26.6	63.0 <td>24.2 (5-9)</td> <td>7.6 (10-19)</td> <td>3.8 (20-39)</td> <td>1.3<br (&gt;39)<="" td=""/></td>	24.2 (5-9)	7.6 (10-19)	3.8 (20-39)	1.3 