



a&lgreatlakes  
LABORATORIES

Scientists who don't mind getting dirty.™

3505 Conestoga Dr.  
Fort Wayne, IN 46808  
260.483.4759  
[algreatlakes.com](http://algreatlakes.com)

# Southwest 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, %	2.8	0.9	0.1 (<1.0)	46.8 (1.0-2.5)	48.9 (2.5-5.0)	3.8 (5.0-7.0)	0.3 (7.0+)
Phosphorus (P1), ppm	30	27	10.2 <td>28.1 (10-20)</td> <td>24.5 (20-30)</td> <td>23.9 (30-50)</td> <td>13.2 (50+)</td>	28.1 (10-20)	24.5 (20-30)	23.9 (30-50)	13.2 (50+)
Bicarbonate P, ppm	13	3	<5 (<5)	75.0 (5-15)	25.0 (15-25)		
Potassium (K), ppm	122	58					
K, % Base Saturation	3.2	1.4	0.5 <td>11.9 (0.96-1.90)</td> <td>64.5 (1.91-3.80)</td> <td>18.2 (3.81-5.70)</td> <td>5.2<br (&gt;5.70)<="" td=""/></td>	11.9 (0.96-1.90)	64.5 (1.91-3.80)	18.2 (3.81-5.70)	5.2 
Magnesium (Mg), ppm	190	128					
Mg, % Base Saturation	14.4	5.2	0.2 <td>21.4 (5-10)</td> <td>39.3 (10-15)</td> <td>35.3 (15-25)</td> <td>3.8 (25+)</td>	21.4 (5-10)	39.3 (10-15)	35.3 (15-25)	3.8 (25+)
Calcium (Ca), ppm	1406	511					
Ca, % Base Saturation	69.4	11.9	3.4 <td>9.3 (45-55)</td> <td>56.0 (55-75)</td> <td>21.8 (75-85)</td> <td>9.5 (85+)</td>	9.3 (45-55)	56.0 (55-75)	21.8 (75-85)	9.5 (85+)
pH (1:1)	6.5	0.6	0.5 <td>13.7 (5.1-5.8)</td> <td>63.1 (5.9-6.9)</td> <td>19.5 (7.0-7.5)</td> <td>3.2<br (&gt;7.5)<="" td=""/></td>	13.7 (5.1-5.8)	63.1 (5.9-6.9)	19.5 (7.0-7.5)	3.2 
CEC, meq/100g	10.3	4.0	0.1 <td>31.5 (3.1-8.0)</td> <td>58.0 (8.1-15.0)</td> <td>9.5 (15.1-25.0)</td> <td>0.9<br (&gt;25.0)<="" td=""/></td>	31.5 (3.1-8.0)	58.0 (8.1-15.0)	9.5 (15.1-25.0)	0.9 
Sulfur (S), ppm	6	3.0	6.2 <td>73.1 (4-7)</td> <td>19.4 (8-12)</td> <td>0.7 (13-17)</td> <td>0.6<br (&gt;17)<="" td=""/></td>	73.1 (4-7)	19.4 (8-12)	0.7 (13-17)	0.6 
Zinc (Zn), ppm	3.2	7.8	0.1 <td>75.4 (1.1-2.9)</td> <td>16.9 (3.0-4.9)</td> <td>5.4 (5.0-10.0)</td> <td>2.2<br (&gt;10.0)<="" td=""/></td>	75.4 (1.1-2.9)	16.9 (3.0-4.9)	5.4 (5.0-10.0)	2.2 
Manganese (Mn), ppm	51	19		0.6 <td>8.1 (6-14)</td> <td>43.4 (15-19)</td> <td>47.9 (20-49)</td>	8.1 (6-14)	43.4 (15-19)	47.9 (20-49)
Iron (Fe), ppm	39	24		1.2 <td>1.8 (5-9)</td> <td>75.3 (10-50)</td> <td>21.7<br (&gt;50)<="" td=""/></td>	1.8 (5-9)	75.3 (10-50)	21.7 
Copper (Cu), ppm	1.4	0.8			35.2 <td>63.4 (0.4-1.1)</td> <td>1.4 (1.2-3.0)</td>	63.4 (0.4-1.1)	1.4 (1.2-3.0)
Boron (B), ppm	0.4	0.2	45.1 <td>31.1 (0.4-0.5)</td> <td>23.2 (0.6-1.2)</td> <td>0.6 (1.3-2.5)</td> <td></td>	31.1 (0.4-0.5)	23.2 (0.6-1.2)	0.6 (1.3-2.5)	
Nitrate (NO <sub>3</sub> -N), ppm	10.7	15.3	45.2 <td>22.6 (5-9)</td> <td>16.1 (10-19)</td> <td>9.7 (20-39)</td> <td>6.5<br (&gt;39)<="" td=""/></td>	22.6 (5-9)	16.1 (10-19)	9.7 (20-39)	6.5 
Ammonium (NH <sub>4</sub> -N), ppm	3.9	5.2	77.4 <td>9.7 (5-9)</td> <td>9.7 (10-19)</td> <td></td> <td>3.2<br (&gt;20-39)<="" td=""/></td>	9.7 (5-9)	9.7 (10-19)		3.2 