

# Southern Michigan

## 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,%                   | 2.9        | 4.7       | <small>&lt;1.0</small><br>2.2       | <small>1.0-2.5</small><br>65.5   | <small>2.5-5.0</small><br>28.1   | <small>5.0-7.0</small><br>1.4    | <small>7.0+</small><br>2.8     |
| Phosphorus (P1), ppm               | 60         | 61        | <small>&lt;10</small><br>3.6        | <small>10-20</small><br>13.4     | <small>20-30</small><br>16.5     | <small>30-50</small><br>25.2     | <small>50+</small><br>41.4     |
| Phosphorus (P2), ppm               | 66         | 70        | <small>&lt;14</small><br>6.0        | <small>14-29</small><br>20.5     | <small>29-44</small><br>19.2     | <small>44-74</small><br>29.6     | <small>74+</small><br>24.7     |
| Bicarbonate P, ppm                 | 21         | 13        | <small>&lt;5</small><br>15.4        | <small>5-15</small><br>30.8      | <small>15-25</small><br>15.4     | <small>25-45</small><br>38.5     | <small>45+</small><br>         |
| Potassium (K), ppm                 | 126        | 67        |                                     |                                  |                                  |                                  |                                |
| K, % Base Saturation               | 4.8        | 2.4       | <small>&lt;1.18</small><br>1.5      | <small>1.18-2.35</small><br>10.1 | <small>2.36-4.69</small><br>54.0 | <small>4.70-7.04</small><br>27.9 | <small>&gt;7.04</small><br>7.1 |
| Magnesium (Mg), ppm                | 169        | 100       |                                     |                                  |                                  |                                  |                                |
| Mg, % Base Saturation              | 18.1       | 5.8       | <small>&lt;5</small><br>0.9         | <small>5-10</small><br>6.2       | <small>10-15</small><br>24.4     | <small>15-25</small><br>57.2     | <small>25+</small><br>11.3     |
| Calcium (Ca), ppm                  | 1078       | 910       |                                     |                                  |                                  |                                  |                                |
| Ca, % Base Saturation              | 64.6       | 12.6      | <small>&lt;45</small><br>6.2        | <small>45-55</small><br>14.6     | <small>55-75</small><br>58.4     | <small>75-85</small><br>18.0     | <small>85+</small><br>2.9      |
| pH (1:1)                           | 6.6        | 0.6       | <small>&lt;5.1</small><br>1.3       | <small>5.1-5.8</small><br>9.6    | <small>5.9-6.0</small><br>63.0   | <small>7.0-7.5</small><br>21.8   | <small>&gt;7.5</small><br>4.4  |
| CEC, meq/100g                      | 8.0        | 5.0       | <small>&lt;3.1</small><br>3.4       | <small>3.1-8.0</small><br>59.3   | <small>8.1-15.0</small><br>31.4  | <small>15.1-25.0</small><br>4.8  | <small>&gt;25.0</small><br>1.2 |
| Sulfur (S), ppm                    | 10         | 19.1      | <small>&lt;4</small><br>1.0         | <small>4-7</small><br>46.3       | <small>8-12</small><br>41.5      | <small>13-17</small><br>6.1      | <small>&gt;17</small><br>5.0   |
| Zinc (Zn), ppm                     | 4.3        | 4.1       | <small>&lt;1.0</small><br>          | <small>1.1-2.9</small><br>44.6   | <small>3.0-4.9</small><br>30.1   | <small>5.0-10.0</small><br>19.9  | <small>&gt;10.0</small><br>5.3 |
| Manganese (Mn), ppm                | 38         | 15        | <small>&lt;6</small><br>2.7         | <small>6-14</small><br>6.6       | <small>15-19</small><br>9.8      | <small>20-49</small><br>60.8     | <small>&gt;49</small><br>20.0  |
| Iron (Fe), ppm                     | 46         | 25        |                                     | <small>&lt;5</small><br>0.3      | <small>5-9</small><br>0.5        | <small>10-50</small><br>68.9     | <small>&gt;50</small><br>30.3  |
| Copper (Cu), ppm                   | 2.0        | 2.1       |                                     | <small>&lt;0.4</small><br>0.3    | <small>0.4-1.1</small><br>39.3   | <small>1.2-3.0</small><br>44.5   | <small>&gt;3.0</small><br>15.8 |
| Boron (B), ppm                     | 0.5        | 1.9       | <small>&lt;0.4</small><br>47.2      | <small>0.4-0.5</small><br>24.0   | <small>0.6-1.2</small><br>24.3   | <small>1.3-2.5</small><br>4.1    | <small>&gt;2.5</small><br>0.3  |
| Nitrate (NO <sub>3</sub> -N), ppm  | 22.6       | 31.4      | <small>&lt;5</small><br>5.7         | <small>5-9</small><br>16.8       | <small>10-19</small><br>33.9     | <small>20-39</small><br>31.9     | <small>&gt;39</small><br>11.7  |
| Ammonium (NH <sub>4</sub> -N), ppm | 14.7       | 84.2      | <small>&lt;5</small><br>54.1        | <small>5-9</small><br>31.5       | <small>10-19</small><br>5.5      | <small>20-39</small><br>2.7      | <small>&gt;39</small><br>6.2   |