



# Southwest Illinois

## 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,%	2.8	1.0	<small>(&lt;1.0)</small> 0.4	<small>(1.0-2.5)</small> 52.5	<small>(2.5-5.0)</small> 42.5	<small>(5.0-7.0)</small> 4.0	<small>(7.0+)</small> 0.6
Phosphorus (P1), ppm	31	24	<small>(&lt;10)</small> 11.2	<small>(10-20)</small> 22.8	<small>(20-30)</small> 22.8	<small>(30-50)</small> 28.8	<small>(50+)</small> 14.4
Phosphorus (P2), ppm	56	24	<small>(&lt;14)</small>	<small>(14-29)</small>	<small>(29-44)</small> 50.0	<small>(44-74)</small>	<small>(74+)</small> 50.0
Potassium (K), ppm	130	70					
K, % Base Saturation	3.1	1.6	<small>(&lt;0.88)</small> 1.0	<small>(0.88-1.73)</small> 15.7	<small>(1.74-3.46)</small> 54.3	<small>(3.47-5.19)</small> 21.6	<small>(5.19+)</small> 7.7
Magnesium (Mg), ppm	222	179					
Mg, % Base Saturation	14.6	5.6	<small>(&lt;5)</small> 0.2	<small>(5-10)</small> 22.3	<small>(10-15)</small> 36.9	<small>(15-25)</small> 35.3	<small>(25+)</small> 5.2
Calcium (Ca), ppm	1565	870					
Ca, % Base Saturation	68.4	12.8	<small>(&lt;45)</small> 4.3	<small>(45-55)</small> 10.3	<small>(55-75)</small> 55.8	<small>(75-85)</small> 17.1	<small>(85+)</small> 12.6
pH (1:1)	6.5	0.6	<small>(&lt;5.1)</small> 1.0	<small>(5.1-5.8)</small> 16.1	<small>(5.9-6.0)</small> 60.0	<small>(7.0-7.5)</small> 18.8	<small>(&gt;7.5)</small> 4.0
CEC, meq/100g	11.6	6.1	<small>(&lt;3.1)</small> 0.1	<small>(3.1-8.0)</small> 32.6	<small>(8.1-15.0)</small> 47.2	<small>(15.1-25.0)</small> 15.7	<small>(&gt;25.0)</small> 4.4
Sulfur (S), ppm	10	89.4	<small>(&lt;4)</small> 2.0	<small>(4-7)</small> 82.3	<small>(8-12)</small> 9.5	<small>(13-17)</small> 2.2	<small>(&gt;17)</small> 3.9
Zinc (Zn), ppm	2.7	2.0	<small>(&lt;1.0)</small>	<small>(1.1-2.9)</small> 72.8	<small>(3.0-4.9)</small> 22.5	<small>(5.0-10.0)</small> 3.9	<small>(&gt;10.0)</small> 0.8
Manganese (Mn), ppm	43	17	<small>(&lt;6)</small> 0.1	<small>(6-14)</small> 1.1	<small>(15-19)</small> 10.9	<small>(20-49)</small> 61.5	<small>(&gt;49)</small> 26.4
Iron (Fe), ppm	46	29		<small>(&lt;5)</small> 0.7	<small>(5-9)</small> 1.9	<small>(10-50)</small> 62.4	<small>(&gt;50)</small> 35.0
Copper (Cu), ppm	1.6	0.6		<small>(&lt;0.4)</small>	<small>(0.4-1.1)</small> 20.4	<small>(1.2-3.0)</small> 77.6	<small>(&gt;3.0)</small> 2.1
Boron (B), ppm	0.5	0.4	<small>(&lt;0.4)</small> 42.3	<small>(0.4-0.5)</small> 30.9	<small>(0.6-1.2)</small> 24.4	<small>(1.3-2.5)</small> 2.0	<small>(&gt;2.5)</small> 0.4
Nitrate (NO <sub>3</sub> -N), ppm	23.6	23.7	<small>(&lt;5)</small> 14.1	<small>(5-9)</small> 18.8	<small>(10-19)</small> 25.0	<small>(20-39)</small> 23.4	<small>(&gt;39)</small> 18.8
Ammonium (NH <sub>4</sub> -N), ppm	3.0	1.5	<small>(&lt;5)</small> 83.9	<small>(5-9)</small> 14.3	<small>(10-19)</small> 1.8	<small>(20-39)</small>	<small>(&gt;39)</small>