a&lgreatlakes LABORATORIES
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Southern Illinois

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	1.0	(<1.0) 0.1	(1.0-2.5) 44.3	(2.5-5.0) 51.5	(5.0-7.0) 4.0	(7.0+) 0.1
Phosphorus (P1), ppm	29	28	(<10) 9.1	(10-20) 32.2	(20-30) 24.6	(30-50) 22.7	(50+) 11.4
Phosphorus (P2), ppm	50	34	(<14) 2.4	(14-29) 23.1	(29-44) 26.1	(44-74) 35.0	(74+) 13.3
Potassium (K), ppm	129	58					
K, % Base Saturation	2.8	1.3	(<0.83) 2.3	(0.83-1.65) 8.8	(1.66-3.29) 67.2	(3.30-4.94) 19.7	(>4.94) 4.2
Magnesium (Mg), ppm	220	150					
Mg, % Base Saturation	13.9	5.1	(<5) 0.3	(5-10) 23.9	(10-15) 41.1	(15-25) 31.3	(25+) 3.4
Calcium (Ca), ppm	1669	674					
Ca, % Base Saturation	68.4	11.2	(<45) 2.4	(45-55) 8.5	(55-75) 62.8	(75-85) 18.0	(85+) 8.3
pH (1:1)	6.4	0.5	(<5.1) 0.6	(5.1-5.8) 15.4	(5.9-6.0) 68.8	(7.0-7.5) 13.4	(>7.5) 1.9
CEC, meq/100g	12.4	5.1	(<3.1)	(3.1-8.0) 18.9	(8.1-15.0) 55.6	(15.1-25.0) 23.6	(>25.0) 1.8
Sulfur (S), ppm	7	5.6	(<4) 1.6	(4-7) 56.1	(8-12) 40.0	(13-17) 1.4	(>17) 0.9
Zinc (Zn), ppm	2.7	3.0	(<1.0) 0.1	(1.1-2.9) 75.3	(3.0-4.9) 18.6	(5.0-10.0) 4.7	(>10.0) 1.2
Manganese (Mn), ppm	43	19	(<6) 0.1	(6-14) 3.1	(15-19) 15.6	(20-49) 53.3	(>49) 28.0
Iron (Fe), ppm	38	23		(<5) 0.7	(5-9) 1.2	(10-50) 76.7	(>50) 21.3
Copper (Cu), ppm	1.6	0.6		(<0.4)	(0.4-1.1) 24.5	(1.2-3.0) 74.7	(>3.0) 0.8
Boron (B), ppm	0.5	0.3	(<0.4) 38.8	(0.4-0.5) 30.3	(0.6-1.2) 29.4	(1.3-2.5) 1.4	(>2.5) 0.1
Nitrate (NO_3-N), ppm	17.9	14.9	(<5) 6.7	(5-9) 22.2	(10-19) 36.5	(20-39) 27.3	(>39) 7.3
Ammonium (NH_4-N), ppm	10.7	72.7	(<5) 30.0	(5-9) 48.6	(10-19) 15.6	(20-39) 4.6	(>39) 1.2