

# A & L GREAT LAKES LABORATORIES, INC.

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## Southeast Illinois 2011 SOIL TEST DATA SUMMARY

| Soil Test                   | Soil Test Result |         |         |           | Percent of Samples by Soil Test Rating |      |        |      |           |
|-----------------------------|------------------|---------|---------|-----------|--|------|--------|------|-----------|
|                             | Average          | Minimum | Maximum | Std. Dev. | Very Low                               | Low  | Medium | High | Very High |
| Organic Matter, %           | 2.5              | 0.4     | 9.0     | 0.7       | 0.6                                    | 61.0 | 37.9   | 0.4  | 0.1       |
| Phosphorus (P1), ppm        | 34               | 1       | 512     | 30        | 6.6                                    | 21.7 | 26.3   | 28.4 | 17.0      |
| Phosphorus (P2), ppm        | 55               | 9       | 373     | 38        | 3.1                                    | 18.3 | 29.9   | 27.0 | 21.8      |
| Potassium (K), ppm          | 100              | 19      | 566     | 46        |  |      |        |      |           |
| Potassium (K), % Base Sat.  | 3.2              | 0.5     | 19.0    | 1.5       | 0.8                                    | 21.3 | 63.2   | 12.3 | 2.4       |
| Magnesium (Mg), ppm         | 139              | 20      | 630     | 80        |  |      |        |      |           |
| Magnesium (Mg), % Base Sat. | 13.6             | 3.6     | 39.7    | 5.2       | 0.2                                    | 25.8 | 43.3   | 26.4 | 4.2       |
| Calcium (Ca), ppm           | 1139             | 200     | 5550    | 375       |  |      |        |      |           |
| Calcium (Ca), % Base Sat.   | 68.9             | 13.4    | 93.0    | 12.1      | 4.0                                    | 9.2  | 58.0   | 20.0 | 8.8       |
| pH                          | 6.5              | 4.0     | 8.2     | 0.6       | 1.4                                    | 14.8 | 64.6   | 16.0 | 3.1       |
| CEC, meq/100g               | 8.3              | 1.7     | 30.5    | 2.3       | 0.4                                    | 54.3 | 43.4   | 1.9  |           |
| Sulfur (S), ppm             | 10               | 2       | 344     | 15.4      | 0.5                                    | 38.1 | 51.0   | 8.3  | 2.1       |
| Zinc (Zn), ppm              | 3.0              | 1.0     | 24.6    | 2.4       |  | 69.4 | 18.1   | 10.7 | 1.8       |
| Manganese (Mn), ppm         | 45               | 9       | 80      | 12        |  | 1.1  | 3.4    | 67.1 | 28.4      |
| Iron (Fe), ppm              | 31               | 1       | 152     | 19        |  | 0.8  | 1.2    | 86.4 | 11.6      |
| Copper (Cu), ppm            | 1.5              | 0.6     | 3.5     | 0.6       |  |      | 38.4   | 59.5 | 2.1       |
| Boron (B), ppm              | 0.4              | 0.2     | 1.8     | 0.2       | 59.4                                   | 21.8 | 17.5   | 1.3  |           |