

Lime Guidelines for Field Crops

Nutrient Management Tools and Curriculum

Tool

Lime Guidelines for Field Crops is a Microsoft Excel-based calculator that incorporates multiple Cornell guides for:

- Determining when lime is needed.
- Determining the total quantity of lime needed for a certain crop rotation.
- Guidelines for application timing and amounts.

The tool was designed to be used at the farm to analyze farm specific pH and lime management alternatives or in the classroom with a producer, extension or student audience to teach concepts associated with pH management. This tool can be used as an extension tool on its own and/or integrated into a complete 4-hour nutrient management curriculum (1-hour lecture, 2-hour engaged activities and 1-hour advanced concepts). All components can be downloaded.

Curriculum

The nutrient management curriculum *Lime Guidelines for Field Crops* includes the following downloadable parts:

Teaching Guides

1. Background Lecture (1 hour)
2. Tutorial Workbook Teaching Guide
 - Software Demonstration (1 hour)
 - Instructional Examples (1 hour)
 - Advanced Exercises (1 hour)

Materials

3. Tool (Software and Data Collection Sheet)
4. User Manual
5. Tutorial Workbook
 - Software Demonstration (1 hour)
 - Instructional Examples (1 hour)
 - Advanced Exercises (1 hour)
6. Glossary

Fact Sheets and Extension Material

- Lime Guidelines for Field Crops in New York
- Agronomy Fact Sheet # 5: Soil pH for Field Crops
- Agronomy Fact Sheet # 6: Lime Recommendations
- Agronomy Fact Sheet # 7: Liming Materials
- Agronomy Fact Sheet # 48: Buffer pH to Derive Lime Guidelines
- Agronomy Fact Sheet # 54: Timing of Lime Applications for Field Crops

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