WEB SERVICES at soils.rs.uky.edu

Training for County Extension Offices on UK Soil Laboratory Services

Division of Regulatory Services

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Contacts:

Frank J. Sikora
Coordinator of Soil Testing
Division of Regulatory Services
Lexington, KY
859-257-2785
fsikora@uky.edu

Danny Reid
Lexington Lab Manager
Division of Regulatory Services
Lexington, KY
859-257-2785
dreid@uky.edu

Paula Howe
Princeton Lab Manager
Division of Regulatory Services
Princeton, KY
270-365-7541
phowe@uky.edu

Contents:

County Gate
Forms
SoilData Programs and Training Material
Calculators
Soil Test Summaries
The **mission** of the Soil Testing Laboratories is to help the citizens of Kentucky maintain productive and economical plant growth operations by offering tests on soils, water, greenhouse media, animal waste, and mine spoils; with subsequent fertilizer and lime recommendations.

**Introduction:** Chemical tests are offered on media utilized for plant growth operations such as soils, water for tobacco float-beds, greenhouse media, and animal waste. Chemical analyses and recommendations from the University of Kentucky (UK) Agricultural Testing Labs are specifically made for Kentucky conditions. Nutrient needs and fertilizer responses are determined by research conducted through the UK College of Agriculture on crops and soils in Kentucky.

**Locations:** The University of Kentucky operates agricultural testing labs at Lexington and Princeton. The Lexington lab performs the routine soil test (pH, buffer pH, P, K, Ca, Mg, Zn) and non-routine tests which include boron, organic matter, and triazine residue in soil, pH and nutrients in greenhouse media used for various horticultural crops, pH and nutrients in water used for irrigation and nutrient solution purposes, nutrients in animal waste used for land application, and potential acidity in mine spoil. The Princeton lab performs the routine soil test.
This is the gateway to data specific to each county extension office. Log in to the county data using the county User Name and Password. If you do not know your User Name and Password, email Frank Sikora and he will email you this information.

At this site you will find:

- Your county office contact information on file with the Soils Lab. Please update this information on the web when it changes.
- An order form for ordering soil test supplies and a record of past orders submitted.
- A record of samples received and tested in both Lexington and Princeton Labs.

Soil Home | Email Us | Print
WELCOME, FAYETTE

Lexington Soil Data Information
Order Soil Supplies from Lexington
View Past Soil Supply Orders
Update Address Information

Princeton Soil Data Information
Order Soil Supplier from Princeton
<table>
<thead>
<tr>
<th>DATE_IN</th>
<th>DATE_OUT</th>
<th>FORM</th>
<th>LAB_NUM</th>
<th>CO_SAMNUM</th>
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<th>EluH</th>
<th>P</th>
<th>K</th>
<th>Ca</th>
<th>Mg</th>
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<td></td>
<td>Mailing Cartons, 18 samples per carton</td>
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<td>Animal Waste Sample Bottle (for liquids only) (use plastic bag for solids)</td>
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<tr>
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<td>Water Source &amp; Nutri. Solution Sample Bottle (smaller than bottle for animal waste)</td>
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<td>Agricultural Soil Sample Info. Sheets (Print from web)</td>
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<td>Home Garden, Lawn &amp; Special Turf Info. Sheets (Print from web)</td>
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<tr>
<td></td>
<td>Animal Waste Sample Info. Sheet (Print from web)</td>
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</tr>
<tr>
<td></td>
<td>Water Source &amp; Nutrient Solution Sample Info. Sheet (Print from web)</td>
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We have run out of some sample information forms. You can print these forms from the web by clicking on (Print from web) above or Go to All Forms.
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<th>FAYETTE</th>
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<td>Agent Contact</td>
<td>CANDACE HARKER</td>
</tr>
<tr>
<td>Street (Shipping Address)</td>
<td>1140 RED MILE PLACE</td>
</tr>
<tr>
<td>City</td>
<td>LEXINGTON</td>
</tr>
<tr>
<td>Phone</td>
<td>502-257-5502</td>
</tr>
<tr>
<td>Email for Reports</td>
<td><a href="mailto:jsrsmith@uky.edu">jsrsmith@uky.edu</a></td>
</tr>
<tr>
<td>Email for Billing</td>
<td><a href="mailto:jsrsmith@uky.edu">jsrsmith@uky.edu</a></td>
</tr>
<tr>
<td>Clerical Contact</td>
<td>Suzanne R. Smith</td>
</tr>
<tr>
<td>P. O. Box</td>
<td></td>
</tr>
<tr>
<td>State</td>
<td>KY</td>
</tr>
<tr>
<td>Zip</td>
<td>40504</td>
</tr>
<tr>
<td>Order Form For Supplier</td>
<td></td>
</tr>
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</table>

- Update Changes
- Back to Welcome Page
Sample Forms: Sample information forms for submitting samples to the University of Kentucky laboratories.

SoilData Forms: Useful forms for entering crop information into the SoilData program.

Crop Info Cheat Sheet: A list of required entries for complete fertilizer and lime recommendations from a soil test.
Agricultural Soil Sample (A form)
Home, Lawn and Garden Soil Sample (H form)
Commercial Horticultural Soil Sample (C form)
Animal Waste Sample (AW form)
Greenhouse and Container Nursery Media Soil Sample (G form)
Water and Nutrient Solution (W form)
Mine Spoil Soil Sample (M form)
Research Form (R form)
Crop information normally submitted with soils on the A, H, and C forms (Agriculture, Home Lawn and Garden, Commercial Horticulture) is directly entered in the SoilData program and emailed to the soils lab. Special forms for entering multiple samples for A and H samples are obtained below. Also below is an empty packing slip that can be submitted with samples when crop information is not entered immediately after sample receipt.

Multiple sample form for Agricultural soil samples (A form)
Multiple sample form from Home, Lawn and Garden soil samples (H form)
Empty packing slip
See Also: Fertilizer and Lime Calculators

Agronomic Crops

- Corn, Soybeans, Small Grains, Grain Sorghum
- Forages
- Tobacco
- Turfgrass

Horticultural Crops

- Flowers: Commercial Growers | Home Growers
- Fruits: Commercial Growers | Home Growers
- Nursery/Landscape: Commercial Growers | Home Growers
- Vegetables: Commercial Growers | Home Growers

Recommendations

- AGR-1 - 2004-2005 Lime and Fertilizer Recommendations
- AGR-106 - Determining the Quality of Aglime: Relative Neutralizing Value (RNV)
- AGR-40 - Lime and Fertilizer Recommendations for Reclamation of Surface-Mined Spoils
- ID-128 - Home Vegetable Gardening in Kentucky

Lime Results
(samples collected and analyzed by KDA Division of Regulation and Inspection)

- Fall 2005
- Fall 2004
- Spring 2003
- Fall 2002
- Spring 2002
One Fert: This calculator determines the application rate of one fertilizer given a set of soil test recommendations for nitrogen, phosphate, and potash. The nutrient from which calculations are made is selected and the deficit or surplus of the other nutrients are calculated.

Mult Fert: This calculator determines the application rate of up to three fertilizers given a set of soil test recommendations for nitrogen, phosphate, and potash. The calculator will determine the best rates for the fertilizers selected to match the recommendations entered. Deficits or surpluses from the recommendation rates are reported.

Econ Lime: This is an economic lime calculator that will calculate corrected lime application rates based on lime RNV. Economic factors are also calculated to determine the actual value of the lime.

Econ Lime II: This is a more complex economic lime calculator that allows you to enter hauling, purchase and spreading cost of lime and you can compare up to three lime sources.

AGR1 Calc: The AGR1 Calculator is based on University of Kentucky fertilizer and lime recommendations published in the UK AGR1 publication entitled “2002-2003 Lime and Nutrient Recommendations”. Laboratory data and crop information are entered and recommendations are calculated for the entered data.

Manure: This calculator is an EXCEL file that should be downloaded before operating. The calculator will determine manure application rates to meet nutrient demands of the crop.

How to work offline

The manure calculator is an EXCEL file that should be downloaded before operating. The other calculators are normally operated directly from the internet. You can download the internet calculators to work with them without internet connection. Follow the directions below to get an internet calculator offline.

1. Go to the calculator of interest.
2. Select “File/SaveAs” in the browser menu bar.
3. A “Save Web Page” window appears. Remember the file name given the web page and save the web page to somewhere on your computer.
4. Go to the file and double-click on it.

Saving all calculators

Instructions for downloading all the University of Kentucky Calculators

1. CREATING A FOLDER. Create a folder and name it a title identifying the UK calculators (eg. "UK Soil Fert Calculators").

2. SAVING A READ ME FILE. Go to http://soils.rs.uky.edu/readme.htm. Select “File/Save As”. A “Save Web Page” window should appear. Make sure the file type is *.htm. Save the web page with a file name of “Calculator Descriptions” into the folder created in Step 1. This will be a file identifying the file name and providing descriptions of the calculators.

3. SAVING ONE FERT. Go to http://soils.rs.uky.edu/one_fert.asp. Select “File/Save As”. A “Save Web Page” window should appear. Make sure the file type is *.htm. Make sure the file name is “Fertilizer Rate Calculator” and save the file in the folder created in Step 1.

4. SAVING MULT FERT. Go to http://soils.rs.uky.edu/mult_fert.asp. Select “File/Save As”. A “Save Web Page” window should appear. Make sure the file type is *.htm. Change the file name to “Fertilizer Rate Calculator2” and save the file in the folder created in Step 1.

5. SAVING ECON LIME. Go to http://soils.rs.uky.edu/calculator/limecalc2.htm. Select “File/Save As”. A “Save Web Page” window should appear. Make sure the file type is *.htm. Make sure the file name is “Economic Lime Calculator” and save the file in the folder created in Step 1.
6. SAVING ECON LIME II. Go to http://soils.rs.uky.edu/calculator/limecalc3.htm. Select “File/Save As”. A ”Save Web Page” window should appear. Make sure the file type is *.htm. Change the file name to ”Economic Lime Calculator2” and save the file in the folder created in Step 1.

7. SAVING AGR1 CALC.
   a. Go to http://soils.rs.uky.edu/calculator/agr1calc.htm. Select ”File/Save As”. A ”Save Web Page” window should appear. Make sure the file type is *.htm. Make sure the file name is ”AGR1 Calculator” and save the file in the folder created in Step 1.
   b. Select the Intro button which opens and web page describing an introduction of the calculator. Select ”File/Save As”. A ”Save Web Page” window should appear with a file type of *.htm and a file name of ”agr1into”. Save this file in the folder created in Step 1.
   c. Select the Intro button which opens and web page describing an introduction of the calculator. Select ”File/Save As”. A ”Save Web Page” window should appear with a file type of *.htm and a file name of ”agr1help”. Save this file in the folder created in Step 1.
   d. Select the Intro button which opens and web page describing an introduction of the calculator. Select ”File/Save As”. A ”Save Web Page” window should appear with a file type of *.htm and a file name of ”calcsoilreport”. Save this file in the folder created in Step 1.

8. SAVING MANURE. Go to http://soils.rs.uky.edu/manureprogram.htm. Select the link to the file with the right mouse button and choose to save the file. A ”Save As” window appears with a file name of ”ManureUse1-2.xls”. Save the file in the folder created in Step 1.

Copyright Protection

©Copyright 2002 University of Kentucky Cooperative Extension Service. All rights reserved. THESE CALCULATORS ARE PROVIDED WITH NO WARRANTY, EXPRESS OR IMPLIED. Permission to run these calculators is granted subject to the following condition: the program may not be sold, nor bundled with any other product(s) (such as software, printed information, etc.) for which a user is charged, or for which a user must pay any kind of fee (license fee or otherwise). VIRUS PROTECTION related to the operation of these calculators and/or use of downloaded versions IS THE RESPONSIBILITY OF THE USER.

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Data Input  (One Fert)

Recommendation Rate:

N  P$_2$O$_5$  K$_2$O  Rec. Unit

Fertilizer:

Grade: 34 0 0 lbs/acre

Match:

Calculate

Note:

1. Grade can be modified for Manure or Other only.
2. Click right mouse button in the output frame to print the results.
## Data Input (Mult Fert)

<table>
<thead>
<tr>
<th>Recommendation Unit &amp; Rate</th>
<th>Rec. Unit</th>
<th>N</th>
<th>P₂O₅</th>
<th>K₂O</th>
</tr>
</thead>
<tbody>
<tr>
<td>App. Unit</td>
<td>lbs/acre</td>
<td>0</td>
<td>0</td>
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<tr>
<td>lbs/acre</td>
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<td>lbs/acre</td>
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<td>lbs/acre</td>
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<td>0</td>
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<td>0</td>
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</tbody>
</table>

**Note:**
1. Grade can be modified for Manure or Other only.
2. Click right mouse button in the output frame to print the results.
Economic Lime Calculator

INPUT > ..........................  OUTPUT >

- Lime RNV: %
- UK recommended rate: tons/acre
- Cost: $/ton
- Field size: acres

Adjusted rate: tons/acre
Cost of effective lime: $/ton of effective lime
Lime cost per acre: $/acre
Lime cost for whole field: $
Total lime for whole field: tons

Spring 2003 Table of Lime RNVs
Archived Tables of Lime RNVs
AGR-106: Determining the Quality of Aglime: Relative Neutralizing Value (RNV)
## Economic Lime Calculator

### INPUT >
- **Lime RNV:** %
- **Lime Costs:**
  - **Purchase:** $/ton
  - **Hauling:** $/ton
  - **Spreading:** $/ton
- **UK recommended rate:** tons/acre
- **Field size:** acres

### SOURCE1 | SOURCE2 | SOURCE3

### OUTPUT >
- **Adjusted rate:** tons/acre
- **Cost of effective lime:** $/ton of effective lime
- **Lime cost per acre:** $/acre
- **Lime cost for whole field:** $
- **Total lime for whole field:** tons
- **Cost of effective lime:** $/ton of effective lime
- **Lime cost per acre:** $/acre
- **Lime cost for whole field:** $
- **Total lime for whole field:** tons
- **Cost of effective lime:** $/ton of effective lime
- **Lime cost per acre:** $/acre
- **Lime cost for whole field:** $
- **Total lime for whole field:** tons

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Spring 2003 Table of Lime RNVs
Archived Tables of Lime RNVs
AGR-106: Determining the Quality of Aglime: Relative Neutralizing Value (RNV)
AGR1 CALCULATOR

INPUT >

- Soil pH: 
- SMP Buffer pH: 
- Mehlich 3 P: [ ] lbs/acre
- Mehlich 3 K: [ ] lbs/acre
- Mehlich 3 Ca: [ ] lbs/acre
- Mehlich 3 Mg: [ ] lbs/acre
- Mehlich 3 Zn: [ ] lbs/acre
- Primary crop: corn
- Previous crop: Select One
- Primary management: Select One
- Primary use: Select One
- Drainage: Select One

Solve  Report

Reset Labinfo  Reset All

OUTPUT >

- N rate: [ ] lbs/acre
- K2O rate: [ ] lbs/acre
- Mg rate: [ ] lbs/acre
- P2O5 rate: [ ] lbs/acre
- Lime rate: [ ] tons/acre
- Zn rate: [ ] lbs/acre
1. Background Information
   a. Field ID  
Enter > __________
   b. Field acres  
Enter > __________
   c. Crop to be grown  
Enter > __________
   d. Manure type (Table 1)  
Enter > __________
   e. ...management (Table 2)  
Enter > __________
   f. ...history (Table 3)  
Enter > __________
   g. ...units (Table 5)  
Enter > __________
   h. Basis for calculations  
Enter > __________
   i. Estimated yield per acre  

2. Fertilizer Recom. or Crop Removal
   Fertilizer Recom.
   a. Nitrogen  
Enter > __________ lbs/A
   b. Phosphorus (P2O5)  
Enter > __________ lbs/A
   c. Potassium (K2O)  
Enter > __________ lbs/A

3. Fertilizer Already Applied
   a. N  
Enter > __________ lbs/A
   b. P2O5  
Enter > __________ lbs/A
   c. K2O  
Enter > __________ lbs/A

4. Residual N from Manure
   a. Amount applied/acre last year  
Enter > __________
   b. lbs N/unit  
Enter > __________
   c. availability coefficient (Table 3)  
Enter > __________
   d. Available N(lbs/unit)  
Enter > __________ 0.0

5. Net Nutrient Needs
   a. N (2a - 3a - 4d)  
 Enter > __________ 0 lbs/A
   b. P2O5 (2b - 3b)  
 Enter > __________ 0 lbs/A
   c. K2O (2c - 3c)  
 Enter > __________ 0 lbs/A

6. Available Nutrients in Manure
   (from Table 1 or test results)
   a. N (lbs N/unit)  
Enter > __________
   b. P2O5 (lbs P2O5/unit)  
Enter > __________
   c. K2O (lbs K2O/unit)  
Enter > __________
   d. Available N  
Enter > __________ 0.0
   e. Available P2O5  
Enter > __________ 0.0
   f. Available K2O  
Enter > __________ 0.0

7. Application Rate to Supply Priority Nutrient
   a. Priority Nutrient  
Enter > __________
   b. Priority Nutrient Needed  
Enter > __________ 0.0 lbs/A
   c. Manure Application Rate  
Enter > __________ 0.0
   d. Total Manure Applied (units)  
Enter > __________

8. Nutrients Supplied by Manure
   a. N (7c x 6a)  
Enter > __________ 0 lbs/A
   b. P2O5 (7c x 6b)  
Enter > __________ 0 lbs/A
   c. K2O (7c x 6c)  
Enter > __________ 0 lbs/A

9. Nutrient Balance
   (-) indicates need; (+) indicates excess
   a. N (8a - 5a)  
Enter > __________ 0 lbs/A
   b. P2O5 (8b - 5b)  
Enter > __________ 0 lbs/A
   c. K2O (8c - 5c)  
Enter > __________ 0 lbs/A
SoilData and patches to SoilData can be downloaded here.

Main Programs

- **SoilData 3.0**: 11.6 MB Filesize (.exe); The main program. (installation instructions (.pdf))
- **SoilDataNet**: 8.76 MB Filesize (.exe); To operate SoilData from computers networked to the computer containing SoilData 3.0, download SoilDataNet and install on the networked computer. (installation instructions (.pdf))
- **GetMail**: 13.5 KB Filesize (.exe); Required to properly extract soil data from e-mails received in Pegasus. This file is included with the SoilData 3.0 installation.
- **SoilRepair**: 56.5 KB (.exe); If an error should occur with SoilData, SoilRepair can be used to correct the SoilData.mdb file on the main soil test computer.
- **Crop Information**: 318 KB Filesize (.mdb); Most current crop information file that can be imported into SoilData. This file is included with the SoilData 3.0 installation.

Documents

- **McAfee v8.0 Fix** (.doc): Instructions on setting McAfee v8.0 to allow SoilData to email out crop information.
- **SoilData 3.0.1** (.doc): Instructions for installing which fixes the problem of emailing crop information due to ISP problems. This is not a stand-alone installation. SoilData 3.0 should already be installed.
- **Outlook conversion**: Instructions for setting Outlook to receive soil test data for the SoilData program.
  - **Main Computer Directions**: Installation directions for installing onto main computer with SoilData3.0. (.doc)
  - **Networked Computer Directions**: Installation directions for installing onto computer with SoilDataNet. (.doc)
  - **launcher.dll** (.dll)
  - **GetOMail**: This is the new GetOMail.exe file. (.exe)
  - **regLauncher**: This is a file to set up registry. (.reg)
  - **SoilRule.rwz**: This is a rule file to import into Outlook. This was exported from Sikora's local computer. This was created because sometimes the change button does not open the browser window where GetOMail.exe can be selected. (.rwz)

Training: Material prepared for the training sessions on the SoilData program and the University of Kentucky Soil Testing web site.

- **Crop List** (.pdf): Following is a list of crops that you can choose from in the SoilData program.
- **Crop Info Cheat Sheet** (.doc): A list of required entries for complete fertilizer and lime recommendations from a soil test.
- **Jan 2004: Shipping Samples/Billing Process**: Part 1 handouts for in-service training held in January 2004 on shipping samples and the billing process. (.pdf)
- **Jan 2004: Crop Information and Soil Reports**: Part 2 handouts for in-service training held in January
2004 on Crop Information and Soil Reports with an emphasis on the SoilData program. (.pdf)
- Jan 2004: Web Services: Part 3 handouts for in-service training held in January 2004 on Web Services offered at soils.rs.uky.edu. (.pdf)
- SoilData: Introductory Topics: Installing SoilData, entering crop information, and receiving soil test results. (.pdf)
- SoilData: Advanced Topics: Entering agent comments, filtering data, exporting data, soils web page. (.pdf)

Memos: Memos on SoilData and Soil Test Laboratory operations.
- 8-3-05 Re: A new buffer for determining buffer pH (.doc)
- 1-6-05 Re: End-of-year Directions for the SoilData program (.doc)
- 1-6-05 Re: Alert on Ordering Soil Supplies (.doc)
- 1-6-04 Re: End-of-year Directions for the SoilData program (.doc)
- 12-16-02 Re: Upgrading SoilData and End-of-year Directions (.doc)
- 2-4-02 Re: End-of-year backup of soil test data (.pdf)
- 1-2-02 Re: Required changes for the switch to the new email server (.pdf)
Annual Number of Samples Tested (1995 to present)

Soil Test Data since 1990

99-01 Soil Test Summaries

- Agriculture (A)
- Home Lawn and Garden (H)
- Commercial Horticulture (C)

96-98 Soil Test Summaries

- Agriculture (A)
### Soil test results (99-01) for Agricultural soil samples collected in Kenton Co (104,409 land acres).

<table>
<thead>
<tr>
<th>Soil Component</th>
<th>Median</th>
<th>% v.low (&lt;10)</th>
<th>% low (10-30)</th>
<th>% med (30-60)</th>
<th>% high (60-80, &gt;60)</th>
<th>% v.high (&gt;80)</th>
<th>% &gt;200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil P</td>
<td>78</td>
<td>1</td>
<td>15</td>
<td>23</td>
<td>12</td>
<td>49</td>
<td>9</td>
</tr>
<tr>
<td>Soil K</td>
<td>274</td>
<td>4</td>
<td>19</td>
<td>36</td>
<td>30</td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td>Soil pH</td>
<td>6.3</td>
<td>15</td>
<td>24</td>
<td>18</td>
<td>43</td>
<td>63</td>
<td>4</td>
</tr>
</tbody>
</table>

* Units for Soil P and Soil K are lbs/acre P and lbs/acre K, respectively. For All and Tobacco, % high for Soil P and Soil K are 60-80 and 300-450, respectively. For all other categories, % high for Soil P and Soil K are >60 and >300, respectively.