Summarizing Grid Soil Sample Data Using Excel and the PivotTable Function

Note: My tutorial uses Microsoft Excel 2013. Other versions will be similar but will have some differences.

The first step is to get a spreadsheet of the soil test results for each grid sample point. Using a map delineate areas of about 20 acres. Give them a unique identifier (1, 2, 3, 1A, 2A, Field 1, Field 3, etc.) This is a step requiring manual intervention and judgment, but typically only takes a few minutes.

I lack a good visual of a field with sample points and labels to identify the points. However, use this example and forward any questions you have to me.



Figure 1 Digital image of field with grid soil sample points.

In Fig. 1 above, points are not identified. Most grid soil sample service providers include a map with the sample points labeled with an identifier that links a soil test analysis to a specific sample point. Either manually or on a digital map, draw lines that subdivide the field into roughly 20 acre subfields. Try not to exceed 20 acres. Assign a "Field Name" to the new subfields you have drawn. This new Field Name will be the identifying tag by which the soil sample information will be sorted. The decision on exactly where to draw the new field boundaries has to be somewhat arbitrary. If it is pretty square or rectangular, it might make sense to draw straight horizontal boundary lines. If you have other evidence that certain points represent field areas more similar than other, the boundary can be drawn with that information.

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Figure 2 Example ScreenShot of Grid Soil Sample Data in Excel

In Fig. 2 I show where I have assigned new Field Names to each individual point.

Now, in Excel Choose Insert | PivotTable |

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When I selected "Field #" PivotTable placed it into "ROWS." When I selected the other items (OM, CEC, pH, P1, K, Ca, Mg, and NeutraA) it placed them in COLUMNS under " Σ VALUES." Sums of values are clearly not what we want…we are after mean values of these parameters. Click on the down arrow for each of the " Σ VALUES" and select "Value Field Settings."

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Repeat for each of the Column Values.

After completing this step click "Update" and you will see the raw data output:

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You can reformat this Table using the normal Table formatting tools in Excel:

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This gives you the average soil test values for each subfield area (about 20 acres). You can now insert these values into the Recommendations Online tool or into Manure Management Planner to get University of Missouri-Columbia Extension fertilizer recommendations.