Tool Descriptions – Survey Tools (Excel Workbooks)

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**bulk\_analysis.xls**

1. Purpose

An excel version of a standardized chart for recording sieved grain analyses.

1. Usage

Fill out as your normally would. Calculations are performed automatically.

1. Notes

None.

**pebble\_count\_num\_to\_bin.xls**

1. Purpose

Turns a list of pebbles into a binned count.

1. Usage

Enter pebble sizes in the blue boxes. Once complete, click the big button. The binned sizes appear in cells L127:L154.

1. Notes

You must fill every cell; empty cells are assumed to be silt/clay.

**excelerate\_template\_pebble.xlsm**

1. Purpose

Plots and analyzes binned pebble counts.

1. Usage

Enter counts in cells H45:O67 and H69:O72. Click on the colored year box and hit “Set Year” to plot, display and analyze that year’s data.

1. Notes

None.

**excelerate\_template\_pro\_FxlAssessment.xlsm**

1. Purpose

Plots and analyzes functional assessment surveys.

1. Usage

Enter data in the green columns. This data is all given in the output from survey\_cleaner.R (it is also given by survey\_cleaner.py sans compound and simplified morphology). Once the data is entered, click on the graph and hit the “Scale Chart” button. You can view the profile analysis in the Ri-Po tab. Some calculations in this tab require for a riffle bkf width (cell BB16) and average riffle depth (cell BB17) to be specified.

1. Notes

None.

**excelerate\_template\_pro\_MONITORING.xlsm**

1. Purpose

Like excelerate\_template\_pro\_FxlAssessment.xlsm but can plot multiple years of data and has slightly different output.

1. Usage

Do all that you would for excelerate\_template\_pro\_FxlAssessment.xlsm. To change the year of data that is shown and analyzed, click on the cell that contains the year (in the template these are filled with a bold A, B, C, etc.) and the hit “Set Year” button.

1. Notes

None.

**excelerate\_template\_xs\_NC.xlsm** and **excelerate\_template\_xs\_TN.xlsm**

1. Purpose

Plot and analyze multiple years of cross section data. Each template was designed specifically with the standards of each state in mind.

1. Usage

Enter stationing and elevations for each year of data beginning in row 52. All data is displayed by default, but to set the year of data that will be analyzed click the cell in row 50 that corresponds to the data you want to analyze then hit “Set Year”. To scale the chart according to the selected year’s data, click the graph then “Scale Chart”. Data to be displayed in the print area must be manually copied and pasted. In the NC template you can use the “Set Bkf by Area” button macro to do exactly that. The TN template contains additional macros to set the bankfull by flow as well, in additional to an optimization macro. Cells with golden text can be adjusted; cells with blue text should not be changed.

1. Notes

None.