

***** Notes for Hb-Pl *****

The program is simple and should be relatively obvious even for the new user. The main steps involved are:

- 1) Create an input file; this may be done with your favourite text editor.
The data file consists of a line of 11 oxides (these and ONLY these 11 are accepted currently by AX, although they can be placed in any order on the first line of the data file - see the example below). Save it with a .txt extension. For ferric iron estimation, you MUST set the initial Fe₂O₃ to 0.0; any other value will be taken as assuming you know the ferric iron and be used as such.

Each analysis is entered as a pair of lines, the first of which gives a brief title. The second line gives the oxide wt% values in the SAME order as the oxide names in the list at the top of the file with the plagioclase composition given as X(ab) as the last item on the line.

Data must now be space-delimited, and the file is terminated with an asterisk.

An example follows:

```
SiO2 TiO2 Al2O3 Cr2O3 Fe2O3 FeO MnO MgO CaO Na2O K2O
amph BINNS 1
44.75 1.77 9.76 0.00 0.00 18.80 0.32 9.42 11.16 1.44 0.42 0.32
amph BINNS 1a
44.75 1.77 9.76 0.00 1.58 17.38 0.32 9.42 11.16 1.44 0.42 0.32
amph BINNS 2
44.76 1.51 9.84 0.00 0.00 20.54 0.25 8.95 11.00 1.37 0.21 0.18
*
```

- 2) Run the program. Double click the Hb-Pl icon, and the opening window panel is displayed, which allows you three options. These are

Run: opens a fileOpen dialog to select an existing datafile which is then run. The resulting output file with a *_o.txt extension

Close: this closes down the application.

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