

EMINERS Release Notes

The information provided here is intended to make you aware of modifications and bug fixes to the program. The information is provided in an inverse order with respect to versions and bug fixes.

Version 3.0

This version of EMINERS is intended to go onto the Web.

The program no longer needs to be installed but can be executed from EMINERS.exe.

The economic filters have been disabled and can no longer be used.

This program now only calculates metal endowment and mean number of undiscovered deposits.

New output templates for graphics and tables have been added.

New and upgraded grade and tonnage models have been added.

References to grade and tonnage models have been updated.

Users of operating systems newer than Windows XP must install WinHlp32.exe (not included) in order to use Help files provided with this version. See <http://support.microsoft.com/kb/917607> (accessed March 27, 2012).

Version 2.0.0.8

Bug Fix 0011

For certain commodities, the option to write the special formatted information caused the dimensions of an array to be exceeded with unpredictable results.

Bug Fix 0010

The option to save the initialization file was causing corruption in the data and resulted in incorrect definition of the normal distribution function that is critical to program operation.

Version 2.0.0.7

Bug Fix 0009

The implicit ability to choose any of the three available mining methods was not working correctly and produced apparent economic results of zero. The actual economic results were generally not zero, and the error occurred because of indexing problems associated with the array of economic results.

Version 2.0.0.6

Bug Fix 0008

The option to add a commodity to a mill model was not working correctly because it failed to actually insert the commodity number into the appropriate array. This error was corrected and the option now works correctly.

Version 2.0.0.5

New Feature 0006

Added a new feature that allows the user to generate tables of undiscovered deposits with the expected mean number of deposits and the probabilities of specific numbers of deposits. These distributions are the ones used by EMINERS during the simulation process. These values are the theoretical ones and the Monte Carlo process only approximates them.

Version 2.0.0.4

Bug Fix 0007

Encountered a problem with the specification of mine and mill models when making or replacing a deposit model. Fixed the problem and added error messages via dialog boxes to notify the user. Note that adding mining methods and mills must be done with care. Existing methods should only be modified using the program itself. Adding new methods requires manual modification of the initialization file. A new feature to generate new mining methods or mills would be a good thing.

Bug Fix 0006

Corrected some minor errors and updated the help file.

New Feature 0005

Added a feature to generate special comma-separated-value (CSV) text information with the results of simulation calculations. The information provided included the distribution of undiscovered deposits, the mean number of deposits, followed by the unconditional mean value, the probability of the unconditional mean (or greater), the conditional mean value, and the probability of the conditional mean for each commodity and the tonnage.

Version 2.0.0.3

Bug Fix 0005

Selection of tract total and model output resulted in duplication when only one model per tract. Eliminated the writing of tract total files in that case. Similarly ensured that grand total option did not generate duplicate output with only one model.

Bug Fix 0004

Array of tract names was not being filled properly.

New Feature 0004

The mean number of deposits for single-deposit models has been added to the special-format files. The value is located in cell B28 after import into Excel. Because averaging the mean number of deposits for different deposit types is not meaningful, no such value is calculated for either tract totals or grand totals. Templates have been modified with a conditional equation to include the information in the tables if it is non-zero.

Version 2.0.0.2

Bug Fix 0003

The number of models defined for a calculation was being incorrectly modified to a value of 9 following a calculation.

New Feature 0003

Special-format CSV files now have names that reflect whether the file contains deposit-model, tract-total, or grand-total information.

New Feature 0002

The Excel templates provided for use with special-format files were modified to make the present-value graphs consistent with the tonnage curves and were redesigned to be used with a specific number of commodities. The files were named 1metal.xlt, 2metal.xlt, etc., up to seven metals. Note that the templates are NOT designed to work with the tract totals or the grand totals. The issue is that the templates label graphs and tables with the model name, which will not be correct for the aggregated cases (unless there is only one model). The templates could be easily modified if desired. Specialized templates such as those previously defined for the combined porphyry copper model and sediment-hosted-copper model have been deleted, and users should use the new templates according to the number of commodities.

Bug Fix 0002

The grand-total mode failed under some conditions and did not include aggregation of the economic results. All of the results are now aggregated for however many models there are up to the program maximum that is presently set at 30. The aggregation does work for models with different commodities although aggregating the tonnage for such a case makes little sense. Such a situation might, however, be useful for looking at the total economic picture. Note that the program was only tested up to 15 different commodities.

New Feature 0001

A new variable has been added to control whether special-format CSV files are written for each deposit model. The standard format always includes output for each model, and the previous behavior was to automatically provide special format for each model. The new variable allows the user to not include the files for each model in either tract-total mode or grand-total mode. Because this new variable is written to the parameter and read from it, the program will generate a non-fatal error when

reading parameter files written by an earlier version. To avoid getting the error, the user should rewrite the parameter file.

Bug Fix 0001

Tract totals and tract behavior were not correct and the aggregation of results did not include the economic results. The program now aggregates results on a tract-by-tract basis if tract totals are selected.