

Using a Results Template

Results download in .csv format

The procedure for using the LDAT model online is that a user first connects a Case, (a Case is a file containing data relating to a specific application (or configuration) of LDAT), to the website Dashboard. The user can then edit the connected Case to produce a new Case and then save it. The Case is then run to produce a new set of Results.

The user is able to download a comma separated values (.csv) file giving all of the results currently contained in a Case. This file can be opened by Excel. Specific data may then be extracted by the user, and be displayed in Tables or plotted using Excel Charts, to produce analyses and reports of the results data that are tailored to the requirements of the user.

Format of the .csv file ("MergedResults.csv")

The results consist of a set of rows of data. Each row contains data for a particular element at a particular time.

The first item of data in a row is the time of record. The next three items are the i, j, k identifiers for the element. Subsequent items of data are the values of properties, such as the mass of the individual chemical compounds in the element at the time of record. The key to the column header names in the first row of the results .csv file is provide in the Excel file 'MergedResults csv file Header definitions.xlsx'.

Using a Results Template

When a series of similar Cases are being created it is convenient to use a Results Template to process the results data. The similarity between the Cases needs to be that the structure of the element grid is the same in each Case, and that the model time settings that trigger a record of the Results for each element are the same in each Case.

To use a Results Template start by opening a new .xlsx Excel file. Save this using a name such as 'Case_my_results_with_aeration_10_06_17.xlsx'. Select all of the results in the single sheet .csv Excel downloaded results file, and paste them into Sheet1 of the Template. Rename the sheet to something like 'LDAT result'.

Use the Filter tool under the menu item Sort & Filter, to filter out any unwanted data. Copy and Paste the data ranges to be plotted into a new Sheet in the Template. Analyse and plot the data in the new Sheet, and rename the Sheet appropriately e.g. 'Gas in Upper boundary'.

When pasting the data into the new Sheet use the paste option Paste Link.

Typically a user will build up several Sheets of analysis and charts from tables that reference the first sheet derived from the downloaded .csv file, now named 'LDAT result'.

When a new .csv file is downloaded for a new Case with the same element structure and Record trigger times, it can be handled as follows.

Make a copy of the Template file by opening it and saving it with a new name. Select all of the results in the new .csv Excel results file, and paste them into Sheet1 'LDAT result' of the Template. Use the normal paste or Paste Values so that the old results are overwritten. Save the Template.

The links in the Template will automatically transfer the new data into the analysis and charts Sheets, and update them to display the new results.