Mapping Files

Optional Data · https://dev.forecastpro.com/documentation/forecast-pro-trac/optional-data/mapping-files/

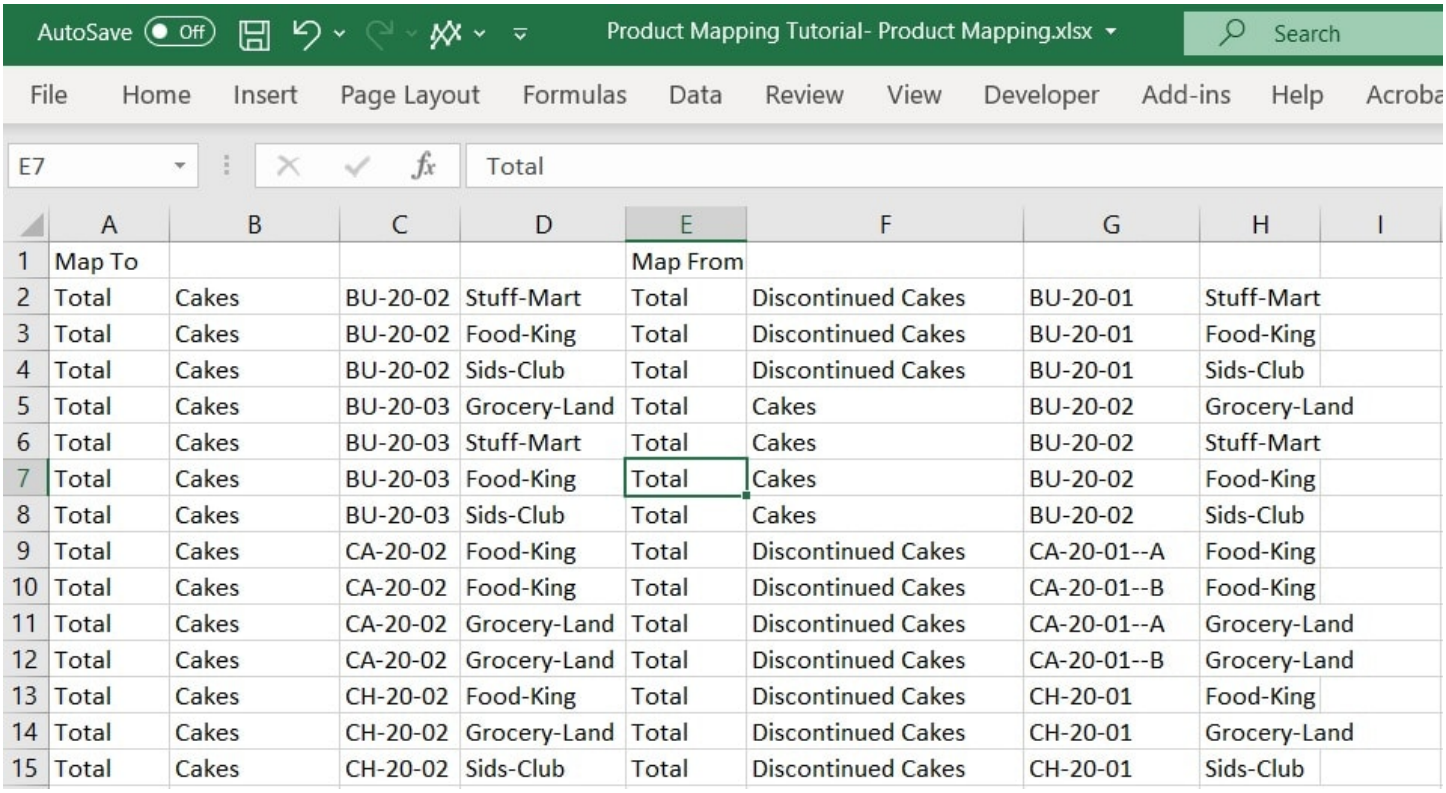
> Forecast Pro TRAC only

Product Mapping Files

In addition to interactive product mapping, Forecast Pro supports file-based product mapping, allowing you to map the history from one item in your historic data (the *Map from* item) to another (the *Map to* item).

When you map the history from one item to another, the history used to generate the *Map to* item's forecast (the *forecast history*) is the actual history for the *Map to* item plus the forecast history for the *Map from* item. In other words, the *Map to* item's history is incremented by the *Map from* item's history to generate a forecast history for the *Map to* item. Please see Working with Product Mapping and Mapped History for more details.

Product Mapping Tutorial- Product Mapping.xlsx, shown below, is installed in the Forecast Pro input directory.



	A	B	C	D	E	F	G	H	I
1	Map To				Map From				
2	Total	Cakes	BU-20-02	Stuff-Mart	Total	Discontinued Cakes	BU-20-01	Stuff-Mart	
3	Total	Cakes	BU-20-02	Food-King	Total	Discontinued Cakes	BU-20-01	Food-King	
4	Total	Cakes	BU-20-02	Sids-Club	Total	Discontinued Cakes	BU-20-01	Sids-Club	
5	Total	Cakes	BU-20-03	Grocery-Land	Total	Cakes	BU-20-02	Grocery-Land	
6	Total	Cakes	BU-20-03	Stuff-Mart	Total	Cakes	BU-20-02	Stuff-Mart	
7	Total	Cakes	BU-20-03	Food-King	Total	Cakes	BU-20-02	Food-King	
8	Total	Cakes	BU-20-03	Sids-Club	Total	Cakes	BU-20-02	Sids-Club	
9	Total	Cakes	CA-20-02	Food-King	Total	Discontinued Cakes	CA-20-01--A	Food-King	
10	Total	Cakes	CA-20-02	Food-King	Total	Discontinued Cakes	CA-20-01--B	Food-King	
11	Total	Cakes	CA-20-02	Grocery-Land	Total	Discontinued Cakes	CA-20-01--A	Grocery-Land	
12	Total	Cakes	CA-20-02	Grocery-Land	Total	Discontinued Cakes	CA-20-01--B	Grocery-Land	
13	Total	Cakes	CH-20-02	Food-King	Total	Discontinued Cakes	CH-20-01	Food-King	
14	Total	Cakes	CH-20-02	Grocery-Land	Total	Discontinued Cakes	CH-20-01	Grocery-Land	
15	Total	Cakes	CH-20-02	Sids-Club	Total	Discontinued Cakes	CH-20-01	Sids-Club	

In the example above, a 4-level hierarchy is used. The first columns (A through D in our example) define the attributes and name of the *Map to* item. The next columns (E through H in our example) show the attributes for the *Map from* item. For group levels, all attributes still need to be included in the row with “NULL” filled in for lower attribute levels (see the second example below). Assigning forecast histories at a group level requires being in *All Levels* Product mapping mode.

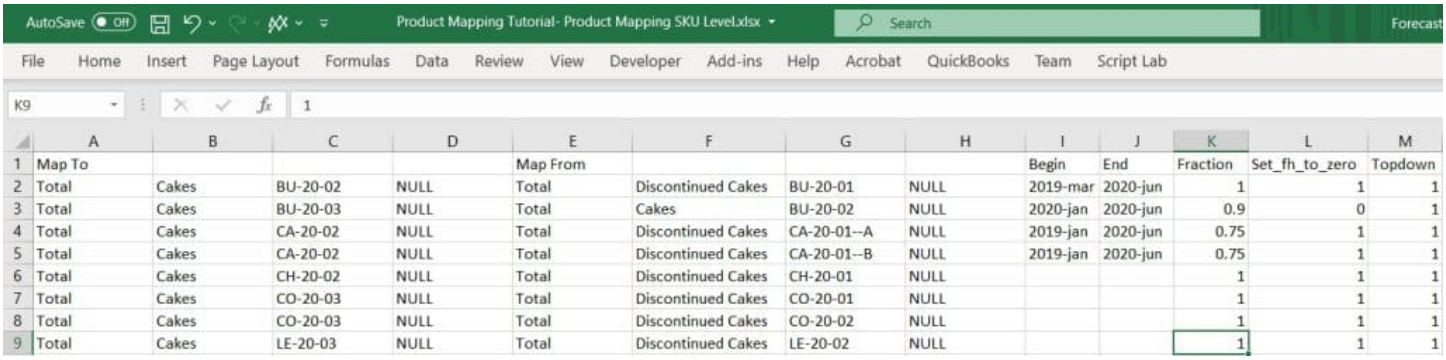
Formatting rules

The attributes for the *Map to* and *Map from* items are the only required columns in a product mapping file. The following optional columns may be included in the file as well:

Begin	Indicates the first *Map from* historic period to map. If missing, the first period with history for the *Map from* item is used. Use date formats as shown in the Override grid.
End	Indicates the last *Map from* historic period to map. If missing, the last period with history for the *Map from* item is used. Use date formats as shown in the Override grid.
Allocation	Indicates the proportion of the *Map from* volume to map. The allocation should be greater than 0. If missing, it is assumed to be 1.

Set_FH_to_zero	Indicates if a \SET_FH_TO_ZERO modifier should be applied to the *Map from* item. Applying this modifier effectively removes the item from group level Forecast Histories and sets the forecast (if any) to zero.
Topdown	Indicates if a \TOPDOWN modifier should be applied to the *Map to* item. This is only applicable when using the “All levels” product mapping mode.

Below is an example of a group-level product mapping file which includes all optional columns. Note that the optional columns must be after the *Map to* and *Map from* attribute columns but may be included in any order.

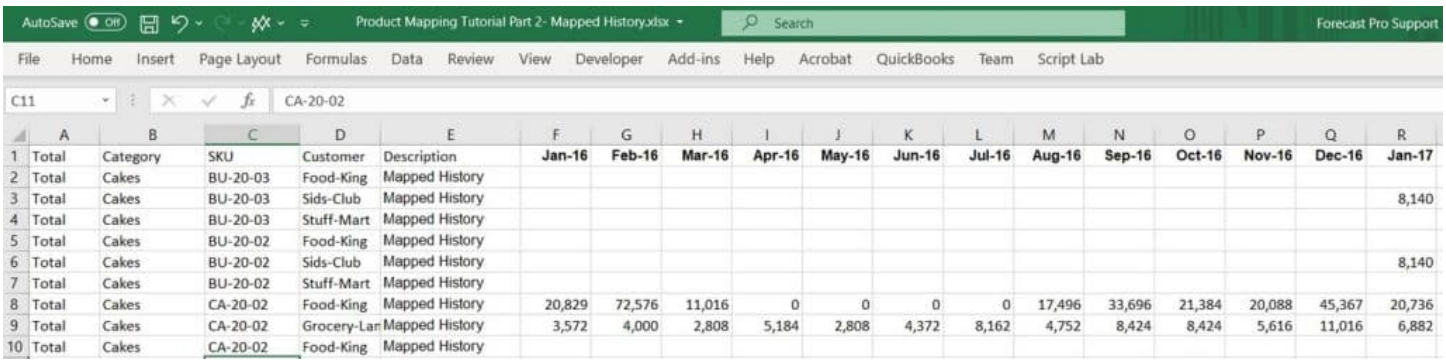


	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Map To				Map From				Begin	End	Fraction	Set_fh_to_zero	Topdown
2	Total	Cakes	BU-20-02	NULL	Total	Discontinued Cakes	BU-20-01	NULL	2019-mar	2020-jun	1	1	1
3	Total	Cakes	BU-20-03	NULL	Total	Cakes	BU-20-02	NULL	2020-jan	2020-jun	0.9	0	1
4	Total	Cakes	CA-20-02	NULL	Total	Discontinued Cakes	CA-20-01--A	NULL	2019-jan	2020-jun	0.75	1	1
5	Total	Cakes	CA-20-02	NULL	Total	Discontinued Cakes	CA-20-01--B	NULL	2019-jan	2020-jun	0.75	1	1
6	Total	Cakes	CH-20-02	NULL	Total	Discontinued Cakes	CH-20-01	NULL			1	1	1
7	Total	Cakes	CO-20-03	NULL	Total	Discontinued Cakes	CO-20-01	NULL			1	1	1
8	Total	Cakes	CO-20-03	NULL	Total	Discontinued Cakes	CO-20-02	NULL			1	1	1
9	Total	Cakes	LE-20-03	NULL	Total	Discontinued Cakes	LE-20-02	NULL			1	1	1

Mapped History Files

At times, you may find that the item that you want to *Map from* is not in your historic data. If so, you may use a mapped history file to import values that you want to map to an item in your historic data. The forecast history for the *Map to* item will equal the values assigned to that item in the mapped history file plus the item’s history in the historic data file.

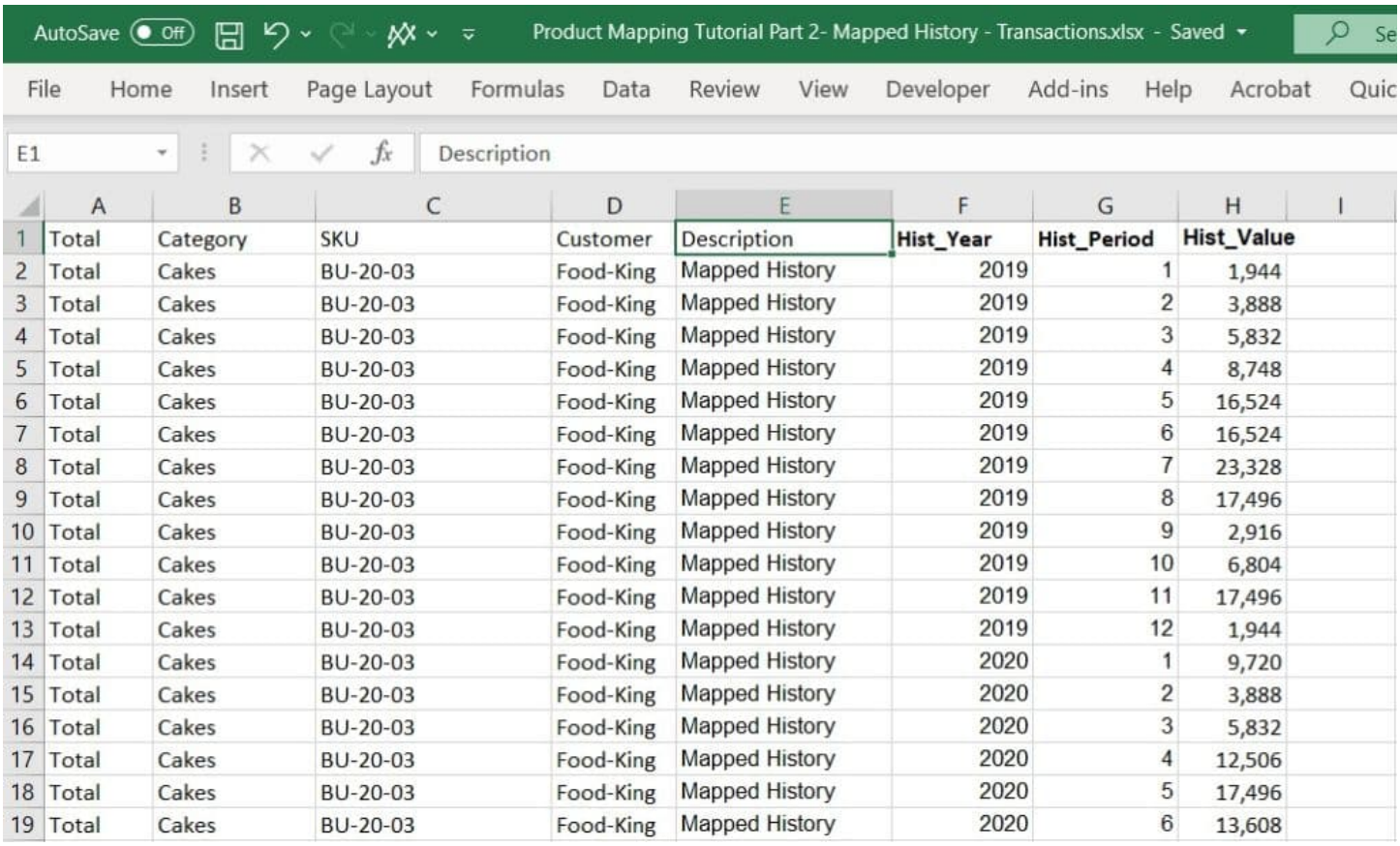
The mapped history file is very similar to the external data file structure. The sample file shown below is installed into the Forecast Pro input directory and is named *Product Mapping Tutorial Part 2- Mapped History.xlsx.*



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Total	Category	SKU	Customer	Description	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17
2	Total	Cakes	BU-20-03	Food-King	Mapped History													
3	Total	Cakes	BU-20-03	Sids-Club	Mapped History													8,140
4	Total	Cakes	BU-20-03	Stuff-Mart	Mapped History													
5	Total	Cakes	BU-20-02	Food-King	Mapped History													
6	Total	Cakes	BU-20-02	Sids-Club	Mapped History													8,140
7	Total	Cakes	BU-20-02	Stuff-Mart	Mapped History													
8	Total	Cakes	CA-20-02	Food-King	Mapped History	20,829	72,576	11,016	0	0	0	0	17,496	33,696	21,384	20,088	45,367	20,736
9	Total	Cakes	CA-20-02	Grocery-Lan	Mapped History	3,572	4,000	2,808	5,184	2,808	4,372	8,162	4,752	8,424	8,424	5,616	11,016	6,882
10	Total	Cakes	CA-20-02	Food-King	Mapped History													

The first columns (A through D in our example) define the attributes and name of the *Map to* item (i.e., the hierarchy information). The next column (E in our example) is labeled Description and should read “Mapped History” for all rows in the file. The remaining columns are labeled with dates and contain the data values.

If you plan to import your mapped history using a transaction style spreadsheet, examine the sample file *Product Mapping Tutorial Part 2- Mapped History – Transactions.xlsx* located in the Forecast Pro input directory. You may also read in data through ODBC using the same transaction style layout shown below.



	A	B	C	D	E	F	G	H	I
1	Total	Category	SKU	Customer	Description	Hist_Year	Hist_Period	Hist_Value	
2	Total	Cakes	BU-20-03	Food-King	Mapped History	2019	1	1,944	
3	Total	Cakes	BU-20-03	Food-King	Mapped History	2019	2	3,888	
4	Total	Cakes	BU-20-03	Food-King	Mapped History	2019	3	5,832	
5	Total	Cakes	BU-20-03	Food-King	Mapped History	2019	4	8,748	
6	Total	Cakes	BU-20-03	Food-King	Mapped History	2019	5	16,524	
7	Total	Cakes	BU-20-03	Food-King	Mapped History	2019	6	16,524	
8	Total	Cakes	BU-20-03	Food-King	Mapped History	2019	7	23,328	
9	Total	Cakes	BU-20-03	Food-King	Mapped History	2019	8	17,496	
10	Total	Cakes	BU-20-03	Food-King	Mapped History	2019	9	2,916	
11	Total	Cakes	BU-20-03	Food-King	Mapped History	2019	10	6,804	
12	Total	Cakes	BU-20-03	Food-King	Mapped History	2019	11	17,496	
13	Total	Cakes	BU-20-03	Food-King	Mapped History	2019	12	1,944	
14	Total	Cakes	BU-20-03	Food-King	Mapped History	2020	1	9,720	
15	Total	Cakes	BU-20-03	Food-King	Mapped History	2020	2	3,888	
16	Total	Cakes	BU-20-03	Food-King	Mapped History	2020	3	5,832	
17	Total	Cakes	BU-20-03	Food-King	Mapped History	2020	4	12,506	
18	Total	Cakes	BU-20-03	Food-King	Mapped History	2020	5	17,496	
19	Total	Cakes	BU-20-03	Food-King	Mapped History	2020	6	13,608	

The format is very similar to the format for historic demand. Notice that the attribute fields are present. *Description* must be present and read “Mapped History” for all rows. *Hist_Year*, *Hist_Period* and *Hist_Value* are number fields identifying the year, period and values, respectively.

Formatting rules

In a spreadsheet, a header row is required. The Description and date fields must also be present and labeled accordingly. The dates in the header row need to be either in an Excel format or in a Year-

Period format (for example, 2019-July or 2019-52).

A mapped history file may contain mapped history for end-items or group levels, if you are working in the *All levels* Product mapping mode. For group levels, all attributes still need to be included in the header row with “NULL” filled in for lower group and item levels.