4.01.04. Items - Usage tab

Back to Item Details window

BEWARE! Once set, the options on this page will continue to govern every forecast generated by mSupply for this item in this store until you change it! It can be easy to forget that a particular item has been given different settings for calculationg its AMC.

The Usage tab allows you to view the historic item usage per month in the store that you are logged in to. This information is very useful for quickly spotting a trend in usage for a particular item. You can also change how mSupply makes forecasting calculations about this item when creating automatic tenders, calculated purchase orders or suggested ordering reports.

This is what the tab looks like:



The **Date** field above the table on the right hand side is read only and shows the range of dates covered by the historic usage information in the table. The last date will always be the current date, the first date will be the number of months in the **Months** drop down list before the current date.

The **Months** drop down list alllows you to choose how many months usage data to show in the table, from 1 to 60 (5 years!). After choosing a value, the *Mean usage* (average) and *Standard deviation* figures will be updated to give the figures for the period chosen (the period is from the selected number of months ago to the current day i.e. the period shown in the **Date** field above the right hand side of the table).

Refresh usage button: This button allows you to update the usage with transactions that were added since you opened the window (this applies to multi-user mode). It also allows you to show the usage with or without build transactions included in the totals, depending on whether or not the **Include builds** checkbox is checked.

Include builds checkbox: if checked then mSupply will include confirmed builds (see the 4.07. Building (manufacturing) items page for details) in the usage calculations. If it is not checked (the normal setting) then build will not be included.

If a user has the **View items** permission but not the **Edit items** permission, they are still able to use the functionality described here to investigate the usage of items in the store that they are currently logged in to since this makes no changes to the properties of the item itself.

Show Graph button

Clicking the **Show Graph** button will replace the table with a graph showing the information selected in the drop down list to its right. Here is an example of a *Consumption* graph:



The horizontal (X) axis is the period selected on the **Months** drop down list, the vertical (Y) axis shows the value of the property slected in the drop down list next to the **Show/Hide graph** button for each month.

You can show consumption, mean stock, days out of stock, projection A and projection B on this graph.

Forecasting

This section allows you to set how mSupply calculates future usage of this item when automatically generating tenders, calculating purchase orders or creating a suggested order report. For a more general discussion on forecasting in mSupply, see the 4.21. Forecasting page.

- **Use historical Average Monthly Consumption (AMC):** This is the default option, and is the recommended method. This option tells mSupply to just use the calculated current average monthly consumption for future consumption. Whenever this method is used, there is usually a place to tell mSupply how many months of usage data to use when calculating the current AMC. AMC = sum of consumption over X months divided by X.
- **Use historical AMC increased by a factor of X %:** When this option is selected mSupply will still calculate requirements based on the historical AMC calculation above, but the value will be increased by the percentage you enter. For example, you may know that the population increases by 2% per year, and so you can enter 2% here to account for the probable increase in demand this represents.
- **Use a fixed, estimated AMC of X items/month:** This option allows you to specify a particular, fixed amount that will be consumed in all future months. For example, you might have calculated a target consumption for an oral contraceptive based on fixed population and coverage targets.
- **Use projection (A or B):** This option tells mSupply to use one of the projections you can enter in the projection section (see below). A projection can have different, fixed values for each month and will be useful if you have calculated the future consumption pattern in other software. If you select this option make sure you enter the projection values! If your use of the consumption figures goes beyond the month you have entered the projection values for then 0 consumption will be used for those months.

With this option, mSupply allows you to maintain an **A** and a **B** projection, and easily swap between them. Of course you must enter projections for this to be of any use!

For our worked example, we will use the Historic AMC method, based on 12 months of historic data.

Projections

Projections are used when you want to use a fixed, varying AMC that has typically been calculated

outside mSupply. You can enter two projections, which are useful for capturing minimum and maximum predictions of usage for example. The *Projections* section of the window contains fields for setting projections. You can enter projections in a number of ways:

- **Manually entering projections:** Click *once* on a cell that contains a projection (rather than a cell containing historical data) to select it then click on it once again to edit the cell's value. Don't double-click: you need to click once, wait for a second, then click again. Repeat for each cell you want to enter a value in.

Press the *Tab* key on the keyboard to move from editing once cell to immediately editing another without having to click twice.

- **Copying a projection:** You might want to copy historical data as a starting point for your projection. You can do this by choosing a column in the **from column** and **to column** drop down lists in the *Projections* section, then clicking the **Copy values** button. This will copy the values in the **from column** to the **to column**.
- **Modifying an existing projection:** You can use the **Modify selected cell** button to increase or decrease a column or some cells in a column by a certain percentage. For example, you might have entered values for 2025, and then decide your 2026 values should be the 2025 values plus 8%. To do this:
  - Fill in your 2025 column values
  - Add a column for 2026 if one doesn't already exist
  - Use the **Copy values** button to copy 2025 to 2026
  - Drag to highlight all rows in the 2026 column
  - Enter 8 in the percentage field, then click on the **Modify selected cell** button to increase the 2026 values by 8%.

If you are using projections for a particular order, you only need to fill in future values for the period to be covered by your ordering. **BUT** leaving future projections at zero could have serious consequences when you come to ordering later... 😕

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