FishStatJ Manual
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1. Introduction

1.1. What is FishStatJ

FishStatJ is a desktop application to disseminate statistical data to users; in particular FAO Fishery Statistical data.

It started in the early 1990’s, with the first release of FishStatPlus which was designed to run on DOS; used to disseminate Fishery statistical datasets for download and on CD-ROM. At the CWP (Coordinating Working Party on Fishery Statistics) meeting in 2005 the limitations of the DOS-based FishStatPlus were discussed (details: http://www.fao.org/fishery/topic/18238/en).

With the release of Windows Vista; it was clear that an upgrade was needed, and development of the next generation FishStat started in 2008. The name FishStatJ was selected, because FishStatJ is developed using Java technology. At the 23rd CWP meeting (2010) the prototype of FishStatJ was endorsed for full development; and the first release of FishStatJ was delivered in 2011.

FishStatJ was designed to improve on the features of FishStatPlus:

- All Fishery reference data is available (all FAO code lists with all attributes)
- All hierarchies are available (for view, and for filtering/aggregation)
- Graphing and charting functions of FishStatPlus are included
- Calculated columns of FishStatPlus are included
- The software is cross-platform (Windows, Macintosh, LINUX)
- Data (workspaces) of dimensions can be defined as needed (flexible)
- Any data with fixed dimensions and yearly resolution can be loaded

For the creation of workspace files (database files); a separate software called FishStatJ Console was developed.

In order to use the statistical data, the user has to download and install the FishStatJ application on his computer (more details follow).

Workspace files (which contain the database); can contain one or more datasets (more details follow).
1.2. Running on Windows


FishStatJ runs on Windows7, 8 and 10 (both the 32bit and 64bit versions). FishStatJ includes its own Java-runtime; it does not use the Java installed on the PC. It requires at least 4GB of RAM.

To install on Windows, the ZIP-file which was downloded must be extracted into a directory where the user has write permissions. We recommend to unzip the program to the C-disk (C:\FishStatJ) or leave the unzipped FishStatJ folder on the Desktop.

It is very important when extracting to maintain the zipped file structure; with all the required FishStatJ subdirectories!

The first step is to extract (copy) the content of ZIP file onto the Desktop:

Then, run FishStatJ from the extracted folder:
If you receive the message: “The FishStatJ executable launcher was unable to locate its companion shared library”, this happens when FishStatJ was run from inside the ZIP file; the solution is to extract the ZIP file content.

If you receive the message: “Failed to create the Java Virtual Machine”; either the installation is corrupted; or the PC does not have enough RAM available (we assume 4GB). To run it with less RAM you can replace the FishStatJ.ini file (inside the FishStatJ folder) with this one: http://www.fao.org/fishery/static/FishStatJ/FishStatJ.ini. Running with less memory will impact on the number and size of data-sets FishStatJ can process.

To create a shortcut on the Desktop, select FishStatJ.exe and drag it onto the Desktop while holding the [CTRL] and [SHIFT] keys (when simultaneously holding down both keys the mouse pointer changes into shortcut arrow):

Applications can be added to the task-bar (usually on the bottom of the screen); by right-clicking on the icon in the task-bar while the application is running: select “Pin this program to taskbar”.

The next step after expanding the application ZIP file is to download workspaces; please refer to Browse Workspace in this manual.
1.3. Running on MacOS

Download the OSX application http://www.fao.org/fishery/statistics/software/fishstatj/en. After extracting, the FishStatJ application can be directly run from the Desktop, or moved to the Applications folder. It requires at least 4GB of RAM.

FishStatJ runs on OSX 10.9, 10.10 and 10.11. It requires Java 7 or 8 to be already installed on the computer; Java is free downloaded from Oracle: http://www.oracle.com/technetwork/java/javase/downloads/jre7-downloads-1880261.html.

As FishStatJ is an application which is downloaded from the FAO web-site; the OSX security needs to be adjusted in System Preferences -> Security & Privacy in order to allow running applications from identified developers:

![Security & Privacy](Image)

The next step is to download workspaces; please refer to Browse Workspace in this manual.
1.4. Workspaces (statistical data)

Workspace files carry the statistical data. While there is no limit how many workspaces can be installed on a computer, FishStatJ can only work with one workspace at a time.

A workspace can contain one or more datasets. For dissemination of data, workspaces are compressed into workspace files (.wks extension); they can be downloaded from http://www.fao.org/fishery/statistics/software/fishstatj/en.

We currently offers 3 different workspaces files, which contain the following datasets:

- The Global workspace which contains:
  - Global Production
  - Capture Production
  - Aquaculture Production
  - Fisheries Commodities Production and Trade

- The Regional workspace with contains:
  - CECAF (Eastern Central Atlantic)
  - GFCM (Mediterranean and Black Sea)
  - RECOFI capture production
  - Southeast Atlantic Capture Production

- The Food Balance workspace which contains:
  - Food Balance Sheet
  - Population data

Please refer to Browse Workspace (below) for importing workspaces into FishStatJ.
2. Dataset Menu

2.1. Browse Workspace

The browse workspace menu allows to manage the workspaces:

- Open workspaces already installed
- Download and install workspaces (from the FAO web-page)
- Delete workspaces installed on the computer

![Image of FischStatJ workspace menu]
The workspace browser shows two kind of workspaces:

- Workspaces in red color, are **not installed** on the computer (also if there is a new version available)
- Workspaces in blue color are **installed** on the computer

Example of a workspace data version 2016.1.0 installed on the computer

An installed workspace can be opened for viewing the data, or deleted (removed) from the computer.

Manually download workspaces can be imported using the Import button.

Workspaces already installed, are not be shown as available for download.
Example of a new updated version of an already installed workspace is available for download:

Clicking on the download button will open the workspace import wizard:
A progress bar appears during the download
In case an older version of the data is already installed, FishStatJ will ask if the new version should overwrite the old version – or keep both (resulting in two versions of the same data installed).
During the workspace installation progress is shown:

When the installation is complete

After clicking on Finish, the workspace browser opens (refer to “Open dataset…” ) on the next page
2.2. Open Dataset

NOTE: This option is only available if a workspace has already been opened

Selecting this option will present the Dataset selection popup window where datasets may be opened and brought into FishStatJ for analysis.
Once you have opened a dataset, the **Open workspace** menu is disabled (will disappear); until you **Close** the active workspace.

Selecting a dataset with mouse clicks will present the relevant metadata. Select a dataset and the 'OK' button to open the dataset content.
When a dataset is opened, the screen looks like this:

Highlighting a row (as shown above) will present the yearly data values below (as shown under the Measures tab)
2.3. Open workspace – Browse workspaces

This will show the workspace browser dialog; which allows you to manage the workspaces installed on your computer:

Selecting a workspace will show metadata for this particular workspace (Acronym, Version, Name, Description, Provider, and location on disk). The selected workspace is permanently removed from your computer when you click on the Delete button.
2.4. Close workspace

Selecting this option will close the current workspace and all datasets and that are active within this workspace.

**Note:** Close workspace will record all active datasets, so they are automatically re-opened next time you launch FishStatJ. If you don’t want a dataset to be recorded as open, just close it using the close box on the dataset panel:

Note: Filtering and Aggregation settings are also recorded for each dataset; and automatically re-applied when you launch FishStatJ next time.

If 'Save working session on exit' in the **Preferences** (submenu item under **Tools**) is selected, the datasets that were open when the Exit was selected will be automatically reloaded when FishStatJ restarts.
2.5. Exit

Selecting this option will exit the FishStatJ program.
3. Edit Menu

3.1. Copy selection

Selecting this option will copy all selected rows into the clipboard. When the copy of the selected records into the clipboard is complete, a confirmation message such as this will appear:
3.2. Save selection (*.csv file)

Selecting this option will save all selected rows into a *.csv file. A 'Save as' pop-up will appear so that all selected rows may be saved into a *.csv file onto the hard drive where desired.
When the save of the selected records into a *.csv file is complete, a confirmation message such as this will appear:
4. Data Menu
4.1. Filter

Selecting this option will present the Time series filter shown here:
The user may include or exclude key elements such as **Country**, **Species**, **Production Area**, **Measure** or others.

Users may select or deselect entries in the **Include** or **Exclude** windows with the **Shift** or **Ctrl** keys.

As an example, filtering on one key element (i.e. only Afghanistan) such as **Country** will produce a subset - shown below:
4.2. Aggregate

Selecting this option will present the Time series aggregation popup shown here:
On the Time series aggregation popup, data elements such as Country, Species, and Production Area may be grouped or aggregated as desired.

As an example, grouping a data element such as Country within Continent produces the following result:
4.3. Top/Other

Selecting this submenu item presents the Top/Other selection popup window
As an example, selecting the top 15 entries for a year (i.e. 1950) as shown here:

Produces the result shown on the next page
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>Harp seal</td>
<td>Atk.</td>
<td>181377</td>
<td>32758</td>
<td>177071</td>
<td>158966</td>
<td>135720</td>
</tr>
<tr>
<td>Norway</td>
<td>Fin whale</td>
<td>Atk.</td>
<td>112034</td>
<td>9723</td>
<td>16664</td>
<td>9422</td>
<td>12704</td>
</tr>
<tr>
<td>Norway</td>
<td>Harp seal</td>
<td>Atk.</td>
<td>59737</td>
<td>88144</td>
<td>64154</td>
<td>46340</td>
<td>40264</td>
</tr>
<tr>
<td>Norway</td>
<td>Harp seal</td>
<td>Atk.</td>
<td>101705</td>
<td>134004</td>
<td>130037</td>
<td>113920</td>
<td>127696</td>
</tr>
<tr>
<td>Norway</td>
<td>Hooded seal</td>
<td>Atk.</td>
<td>67690</td>
<td>603000</td>
<td>35962</td>
<td>26924</td>
<td>66601</td>
</tr>
<tr>
<td>South Africa</td>
<td>Toothed whales nei</td>
<td>Mat.</td>
<td>2692</td>
<td>2773</td>
<td>2452</td>
<td>1677</td>
<td>1023</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>Fin whale</td>
<td>Mat.</td>
<td>9945</td>
<td>3098</td>
<td>3914</td>
<td>3975</td>
<td>5601</td>
</tr>
<tr>
<td>United States of Am...</td>
<td>Northern fur seal</td>
<td>Pac.</td>
<td>65204</td>
<td>60669</td>
<td>62870</td>
<td>66669</td>
<td>63682</td>
</tr>
<tr>
<td>Others</td>
<td>Others</td>
<td>Oth.</td>
<td>35775</td>
<td>60987</td>
<td>45734</td>
<td>45041</td>
<td>79576</td>
</tr>
</tbody>
</table>

16 filtered records
4.4. Advanced sort

Selecting this submenu item presents the **Advanced sort** popup window where the dataset key elements may be included within the sort or excluded from the sort. Additionally, the sort ordering (i.e. ascending or descending) may be selected for each key dataset element.
For example, sorting the Species element with a descending order produces the following result:

Produces the result shown on the next page
<table>
<thead>
<tr>
<th>Country (Country)</th>
<th>Species (ASFIS species code)</th>
<th>1950</th>
<th>1951</th>
<th>1952</th>
<th>1953</th>
</tr>
</thead>
<tbody>
<tr>
<td>Afghanistan</td>
<td>Freshwater fishes nei</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Albania</td>
<td>Wuchang bream</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Albania</td>
<td>Wreckfish</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Albania</td>
<td>Turbot</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Albania</td>
<td>Swordfish</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Albania</td>
<td>Smuloketii=Red m...</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Albania</td>
<td>Striped venus</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Albania</td>
<td>Stony sea urchin</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Albania</td>
<td>Smooth-hounds nei</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Albania</td>
<td>Smooth hammerhead</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Albania</td>
<td>Silversides=Sand s...</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Albania</td>
<td>Silver scabbardfish</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Albania</td>
<td>Silver carp</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Albania</td>
<td>Shi drum</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Albania</td>
<td>Shads nei</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Albania</td>
<td>Scorpiophisies nei</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Albania</td>
<td>Scomber mackerels nei</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Albania</td>
<td>Sardine Ford</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>1950</th>
<th>1951</th>
<th>1952</th>
<th>1953</th>
<th>1954</th>
<th>1955</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1956</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1952</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1954</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2004</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2005</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

21,023 filtered records
5. View Menu

5.1. Columns

Selecting this option will allow the user to change the columns (attributes) that are displayed of the dataset. When the option is selected, the Preferences popup window is displayed as shown here:
Note: For species, when the common name is not available, the scientific name will be shown instead.

The Dimensions used for the data display can be changed by selecting Concept:
The **Attribute** can be chosen:

### Example: for the Concept **Species**, the common name used for display can be replaced with the **Scientific name**.

The **Periods** displayed may be changed as shown here:
5.2. Calculated columns

Selecting this option will allow the user to create calculated columns that are built from the original dataset columns. When the option is selected, the Preferences popup window where the user can create or edit calculated columns is displayed as shown here:
Calculated columns may be created (**New**) or edited (**Edit**) that produce the **Calculated columns definition** popup
Many statistical functions are available for calculated columns as shown here:
When a calculated column is created, it is shown at the end of the time-series as shown here:
<table>
<thead>
<tr>
<th>Country (Country)</th>
<th>Species (ASFS s)</th>
<th>1950</th>
<th>1951</th>
<th>1952</th>
<th>1953</th>
<th>Arithmetic mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Afghanistan</td>
<td>Freshwater fish</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>665.17</td>
</tr>
<tr>
<td>Albania</td>
<td>Wuchong bream</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1.73</td>
</tr>
<tr>
<td>Albania</td>
<td>Wreckfish</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.3</td>
</tr>
<tr>
<td>Albania</td>
<td>Turbot</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6.7</td>
</tr>
<tr>
<td>Albania</td>
<td>Swordfish</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2.17</td>
</tr>
<tr>
<td>Albania</td>
<td>Sarrudet(s) = Red</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>67.57</td>
</tr>
<tr>
<td>Albania</td>
<td>Striped verus</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>25.73</td>
</tr>
<tr>
<td>Albania</td>
<td>Story sea urchin</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1.27</td>
</tr>
<tr>
<td>Albania</td>
<td>Smooth-hounds n</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5.78</td>
</tr>
<tr>
<td>Albania</td>
<td>Smooth-horned</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.25</td>
</tr>
<tr>
<td>Albania</td>
<td>Silversides = San</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11.43</td>
</tr>
<tr>
<td>Albania</td>
<td>Silver scabbard</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1.57</td>
</tr>
<tr>
<td>Albania</td>
<td>Silver carp</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>147.97</td>
</tr>
<tr>
<td>Albania</td>
<td>Shrimp</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.95</td>
</tr>
<tr>
<td>Albania</td>
<td>Shads n</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6.57</td>
</tr>
<tr>
<td>Albania</td>
<td>Scorpionfishes n</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.07</td>
</tr>
<tr>
<td>Albania</td>
<td>Scomber mackerel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7.75</td>
</tr>
<tr>
<td>Albania</td>
<td>Sardinia corei</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.26</td>
</tr>
<tr>
<td>Albania</td>
<td>Salmonoids n</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>15.83</td>
</tr>
<tr>
<td>Albania</td>
<td>Salmon</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.53</td>
</tr>
<tr>
<td>Albania</td>
<td>Round sardellace</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2.27</td>
</tr>
<tr>
<td>Albania</td>
<td>Rocklings n</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.62</td>
</tr>
<tr>
<td>Albania</td>
<td>Rosches n</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>12.35</td>
</tr>
<tr>
<td>Albania</td>
<td>Rays, stingrays</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>42.03</td>
</tr>
<tr>
<td>Albania</td>
<td>Rainbow trout</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>64.30</td>
</tr>
<tr>
<td>Albania</td>
<td>Porgies, seabream</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>16.88</td>
</tr>
</tbody>
</table>
5.3. Reports

Selecting this option will allow the user to create reports about the dataset that is 'active'. When this option is selected, the Report wizard is presented.
Reports are generated in PDF format.
5.4. Charts

Selecting this option will present the **Chart View** popup where charts may be generated. Users may use the Chart View popup to generate charts.
The save and print functions will be implemented later.
5.5. Show details
Selecting or deselecting this option will turn on or off the detailed information that is displayed at the bottom of the FishStatJ main display. This option allows more or less records of the time-series to be displayed. In the image above, the details are turned on where Measures are presented.

Deselecting this option will remove the ‘details’ shown at the bottom of the FishStatJ main display. In this image, the details are not displayed:
Selecting this option will create 2 (two) additional tabs in the FishStatJ display that show grand totals for the time-series.

One tab will be for **Quantity (tonnes)** as shown here:
The 2nd tab will be for **Quantity (number)** as shown here:
5.7. Show metadata

Selecting this option will display the metadata about the time-series that is selected within FishStatJ.

An example of the metadata presented is:
Metadata

Global production - Quantity (1950 - 2009)

Dataset metadata

- **Name**: Global production
- **Acronym**: PRODUCTION
- **Data source**: FAO
- **Description**: This database contains the volume of aquatic species caught by country or area, by species items, by FAO major fishing areas, and year, for all commercial, industrial, recreational and subsistence purposes. The harvest from mariculture, aquaculture and other kinds of fish farming is also included.

Dimensions

<table>
<thead>
<tr>
<th>Country</th>
<th>Species</th>
<th>Production area</th>
<th>Measure</th>
</tr>
</thead>
</table>

- **Name**: Country
- **Acronym**: COUNTRY
- **Description**: FAO production statistics country or territory

Reference concept

- **Name**: Country
- **Acronym**: COUNTRY
- **Description**: Country or territory for the reporting and dissemination of FAO global and regional fishery and aquaculture statistics

Timeseries

- **Name**: Quantity (1950 - 2009)
- **Time resolution**: YEAR
- **First period**: 1950
- **Series no.**: 21023

- **Source**: FAO
- **Acronym**: QUANTITY
- **Last period**: 2009
- **Observation no.**: 1261380

- **Attributes**:

<table>
<thead>
<tr>
<th>Name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
</table>

OK
6. Tools Menu

6.1. Custom groups

Note: The Custom groups menu is only available when a dataset is open.

Custom groups are pre-defined for some time-series elements. The above screen shows the custom groups for Country while the image below shows custom groups that already defined for Species.
When a new custom group is to be created with the New button, the **New custom group definition** popup is presented.
When an existing custom group requires editing with the **Edit** button, the **New custom group definition** popup is presented with the existing group members listed in the **Include** field.

A “Custom group name” and “Custom group description” can be entered in the dialog box; as a minimum the English fields need to filled.

If the data needs to be filtered – for example only a number of countries or species – then the Filter dialog is the solution (filter settings are saved and can be changed). If the user needs to analyse several groups of countries (or species, or catch areas) repeatedly, then custom groups are useful because they allow selections (custom groups) to be saved and re-used.
6.2. Preferences
Preferences - General preferences

- **Save/Load timeseries settings on exit/open**: If selected, will load previous filter and aggregation (including custom group) settings when opening a timeseries. Saves the settings when exiting the program; or closing a workspace. Please refer to the close Workspace manual section for more details on closing timeseries.

- **Synchronize timeseries within the same dataset**: If selected, any change in filter and aggregation settings is applied to all open timeseries within the same dataset. This setting is only effective for datasets which contain more than one timeseries (e.g. Aquaculture: Quantity and Value). Please refer to the Data menu manual section for more details on possible settings.
Preferences – Data display

- Display the last column on time series loading
- Statistical measures columns width:
  - Dynamic width
  - Fixed width

Buttons:
- OK
- Cancel
- Restore Defaults
- Apply
Preferences – Format highlights

Formatting options control how data symbols are shown (set color and symbol display); the formatting is used for display and when exporting data.
Preferences – Format highlights

Format numbers

### Statistical measures
- **Digits before decimals**: At least 1
- **Digits after decimals**: At most 2

<table>
<thead>
<tr>
<th>12345.3333</th>
<th>0.3333333</th>
<th>12345678</th>
</tr>
</thead>
<tbody>
<tr>
<td>12345.33</td>
<td>0.33</td>
<td>12345678</td>
</tr>
</tbody>
</table>

### Calculated measures
- **Digits before decimals**: At least 1
- **Digits after decimals**: At most 2

<table>
<thead>
<tr>
<th>12345.3333</th>
<th>0.3333333</th>
<th>12345678</th>
</tr>
</thead>
<tbody>
<tr>
<td>12345.33</td>
<td>0.33</td>
<td>12345678</td>
</tr>
</tbody>
</table>
Preferences – Data export

- Export table headers: when selected, headers are exported
- Split values and symbols in two columns
- Don’t export symbols
- Export totals on all rows selected
- Export citation
6.3. Key Assist

Selecting this option will display a popup listing the shortcut keys to maximize efficiency in using FishStatJ. The popup with the key shortcuts is shown here:

<table>
<thead>
<tr>
<th>Function</th>
<th>Shortcut</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activate Editor</td>
<td>F12</td>
</tr>
<tr>
<td>Backward History</td>
<td>Alt+Left</td>
</tr>
<tr>
<td>Close</td>
<td>Ctrl+W</td>
</tr>
<tr>
<td>Close All</td>
<td>Ctrl+Shift+W</td>
</tr>
<tr>
<td>Collapse All</td>
<td>Ctrl+Shift+NumDiv</td>
</tr>
<tr>
<td>Content Assist</td>
<td>Ctrl+Space</td>
</tr>
<tr>
<td>Context Information</td>
<td>Ctrl+Shift+Space</td>
</tr>
<tr>
<td>Copy</td>
<td>Ctrl+C</td>
</tr>
<tr>
<td>Cut</td>
<td>Ctrl+X</td>
</tr>
<tr>
<td>Delete</td>
<td>Delete</td>
</tr>
<tr>
<td>Dynamic Help</td>
<td>F3</td>
</tr>
<tr>
<td>Expand All</td>
<td>Ctrl+Shift+NumMul</td>
</tr>
<tr>
<td>Find and Replace</td>
<td>Ctrl+F</td>
</tr>
<tr>
<td>Forward History</td>
<td>Alt+Right</td>
</tr>
<tr>
<td>Help Contents</td>
<td>F1</td>
</tr>
<tr>
<td>Last Edit Location</td>
<td>Ctrl+Q</td>
</tr>
<tr>
<td>Maximize Active View or Editor</td>
<td>Ctrl+M</td>
</tr>
<tr>
<td>New</td>
<td>Ctrl+N</td>
</tr>
<tr>
<td>Next</td>
<td>Ctrl+PageDown</td>
</tr>
<tr>
<td>Next Editor</td>
<td>Ctrl+F6</td>
</tr>
<tr>
<td>Next Page</td>
<td>Alt+F7</td>
</tr>
<tr>
<td>Next Perspective</td>
<td>Ctrl+F8</td>
</tr>
<tr>
<td>Next Sub-Tab</td>
<td>Alt+PageDown</td>
</tr>
<tr>
<td>Next View</td>
<td>Ctrl+F7</td>
</tr>
<tr>
<td>Paste</td>
<td>Ctrl+V</td>
</tr>
<tr>
<td>Previous</td>
<td>Ctrl+</td>
</tr>
</tbody>
</table>
6.4. About FishStatJ

Selecting this option will present the official FishStatJ information about version, legal use, development team and contacts for assistance. An example is:

![About FishStatJ window](image)

FishStatJ, a tool for fishery statistics analysis
Release: 3.00.0
by Thomas Berger, Fabrizio Sibeni and Francesco Calderini

This product includes software developed and distributed under the EPL, LGPL and Apache licenses.

Please also refer to the Dataset Notes (Menu | View | Show Metadata | Attachments).

Questions and feedback should be addressed to:
FAO
Fishery and Aquaculture Department
Policy and Economics Division
Statistics and Information Branch
Email: Fish-Statistics-Inquiries@fao.org

7. More on FishStatJ

7.1. FishStatJ legal specifications

The FishStatJ software is provided free of charge to member countries of the Food and Agriculture Organization (FAO). It may be installed on personal or company computers without restriction or license. The statistics contained in this package may be used and published freely provided that the source is cited as FAO.

7.2. Bibliographic citation

The bibliographic citation is as follows:

FAO Fisheries and Aquaculture Department, Statistics and Information Service

7.3. Un-installing FishStatJ

FishStatJ is un-installed by deleting the application folder (OSX the application icon).

FishStatJ stores imported workspaces (and application files) in the user home directory:

- For Windows enter %USERPROFILE%/fishstatj_workspace in the Run menu
- For OSX Finder enter ~/fishstatj_workspace in Go->Go to Folder menu
7.4. FishStatJ Auto-update

Starting with version 3.01 FishStatJ has automatic update capability built in. At program launch a very small file (~1KB) is read from the FAO web-site (http://www.fao.org). If there is no internet connection, auto update is disabled gracefully – the notification of a new program version is not available, and no workspaces are shown for automatic download.

If there are updated workspaces available, they will automatically appear; please refer to Open workspace – Browse workspaces.

When we release a new version of FishStatJ, you will see the following message at program startup:

Clicking the Yes button will open the FishStatJ web-page in the web-browser where program updates can be downloaded.

7.5. Assistance and Contact


- New program versions for download
- A quick-start guide for installing the program
- The download link to the updated version of this manual
- Video tutorials
- The e-mail contact for support (Fish-Statistics-Inquiries@fao.org)