



1.1 Dam information module

Purpose

This module manages and archives dam information time series data including:

- Dam capacities
- Water levels
- Volumes
- Dam surface areas
- Evaporation
- Rainfall
- Inflows
- Outflows
- Spillage

Where possible, all values can be displayed on a graph. There is no limitation to the number of dams that can be captured and monitored.

Use the *Dam info-button* to open the *Dams* form from the WAS main form as shown in Figure 1.1.

Buttons

- **Insert:** Insert a new record.
- **Edit:** Edit the current record.
- **Delete:** Delete the current record.
- **Find:** Find a record using the Dam field.
- **Print:** Print the dams table.

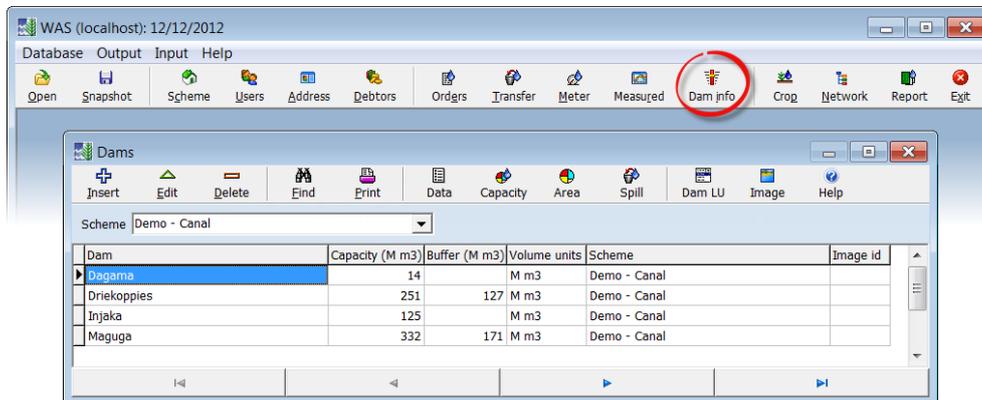


Figure 1.1: Dam information



- **Data:** Open the *Dam levels & Capacities table*.
- **Capacity:** Open the *Dam capacity table*.
- **Area:** Open the *Dam surface area table*.
- **Spill:** Open the *Dam spillway table*.
- **Dam LU:** Open the *Dam lookup table*.
- **Image:** Open the *Images form*. Any number of images can be linked to a dam record.
- **Help:** Open a drop-down menu with the following options:
 - Dam information
 - Dam levels and related data
 - Dam capacity table
 - Dam surface area table
 - Dam spillway table

Fields

Click on the *Insert-* or *Edit-buttons* to insert a new record or to update an existing record. The dialog box shown in Figure 1.2 will open.

- **Dam:** Name of the dam.

Figure 1.2: Dam information capturing screen

- **Capacity (M m³):** Dam capacity in million m³.
- **Buffer (M m³):** Buffer storage in million m³.
- **Scheme:** Name of the scheme.
- **Image id:** Image id linked to the current record.

The *Dam capacity table* is opened using the *Capacity-button* on the *Dams* form as shown in Figure 1.3.

The *Dam surface area table* is opened using the *Area-button* on the *Dams* form as shown in Figure 1.4.

The *Dam spillway table* is opened using the *Spill-button* on the *Dams* form as shown in Figure 1.5.

The *Dam levels & Capacities table* is opened using the *Data-button* on the *Dams* form as shown in Figure 1.6. The user can also double-click on the specific dam record to open the form.

Use the *Graph-button*, where available, to draw the respective graph on the different forms. The Dam capacity graph is shown in Figure 1.7.

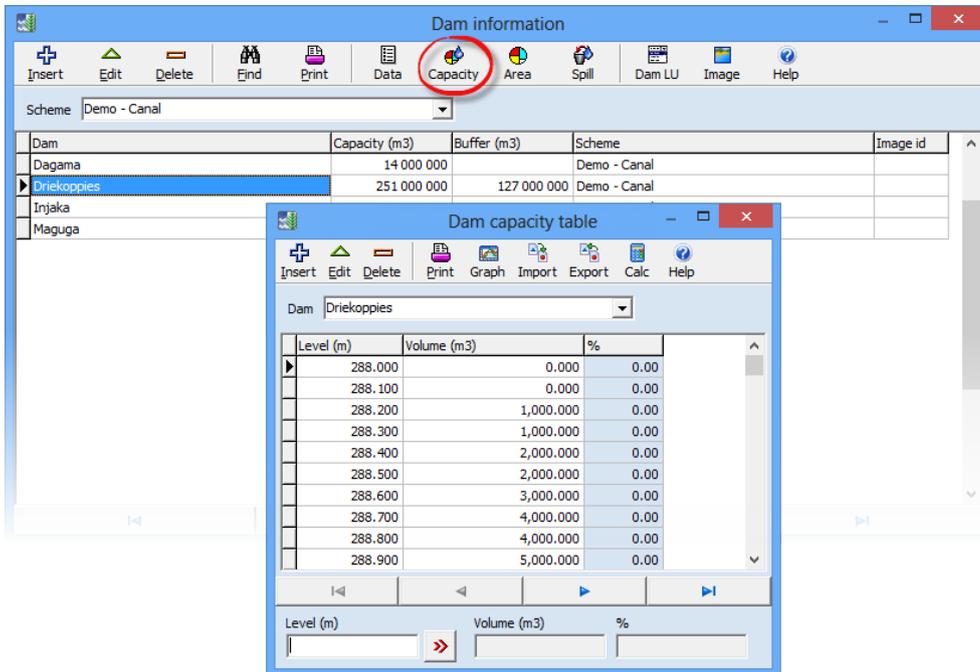


Figure 1.3: Dam capacity table

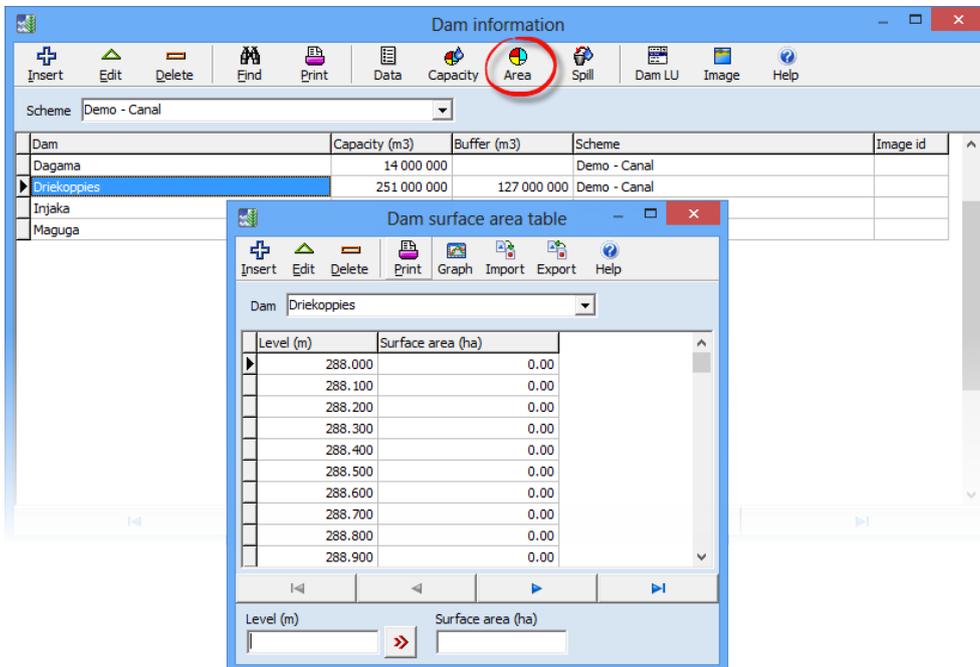


Figure 1.4: Dam surface area table

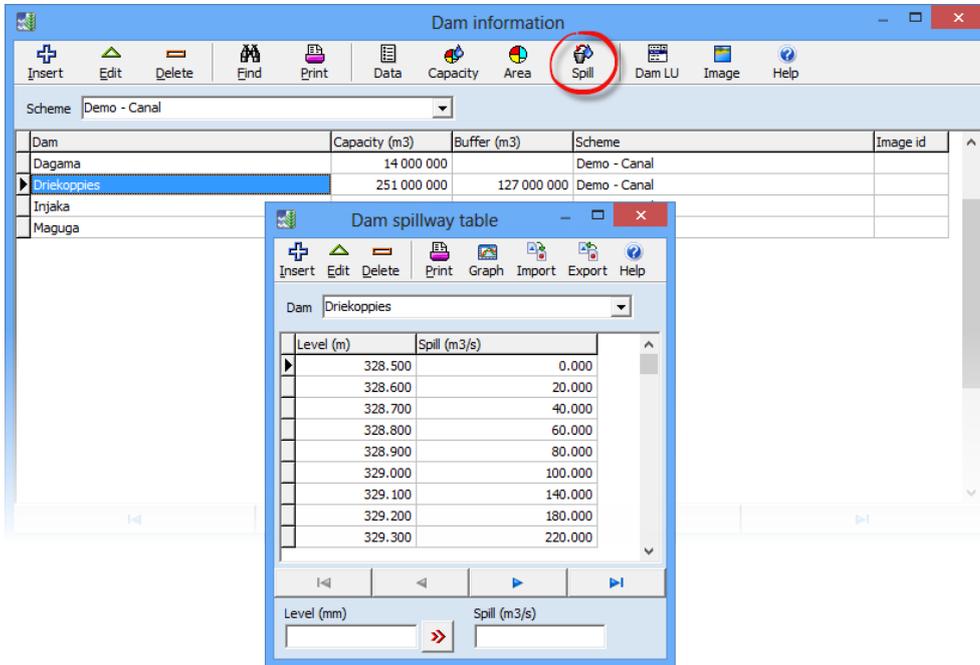


Figure 1.5: Dam spillway table

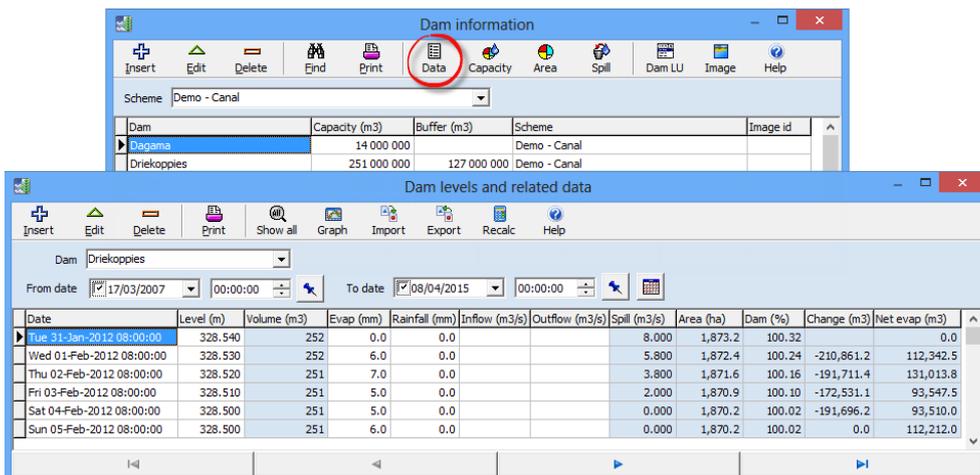


Figure 1.6: Dam levels & Capacities table

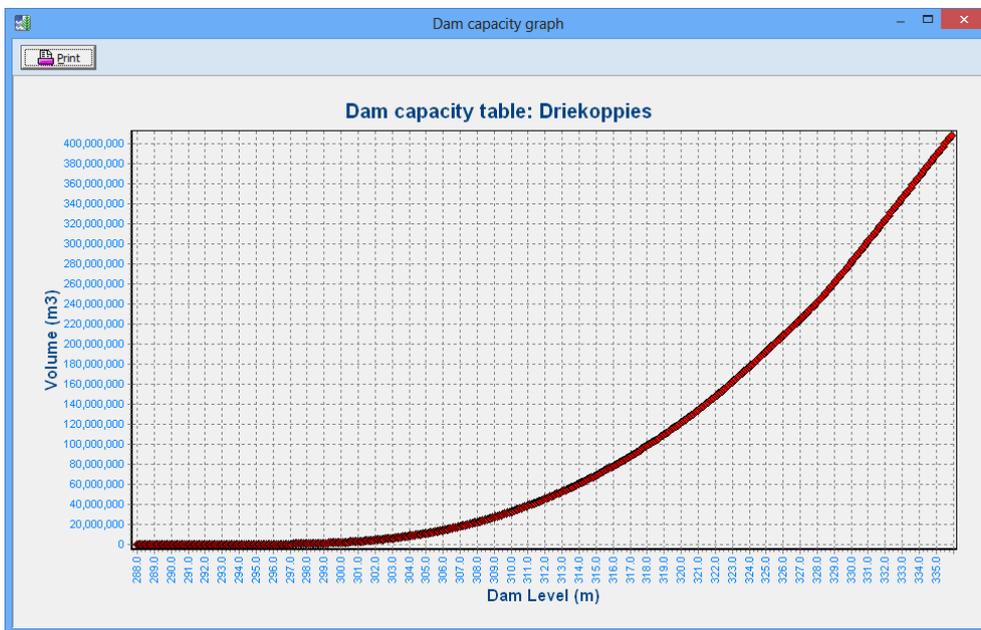


Figure 1.7: Dam capacity graph