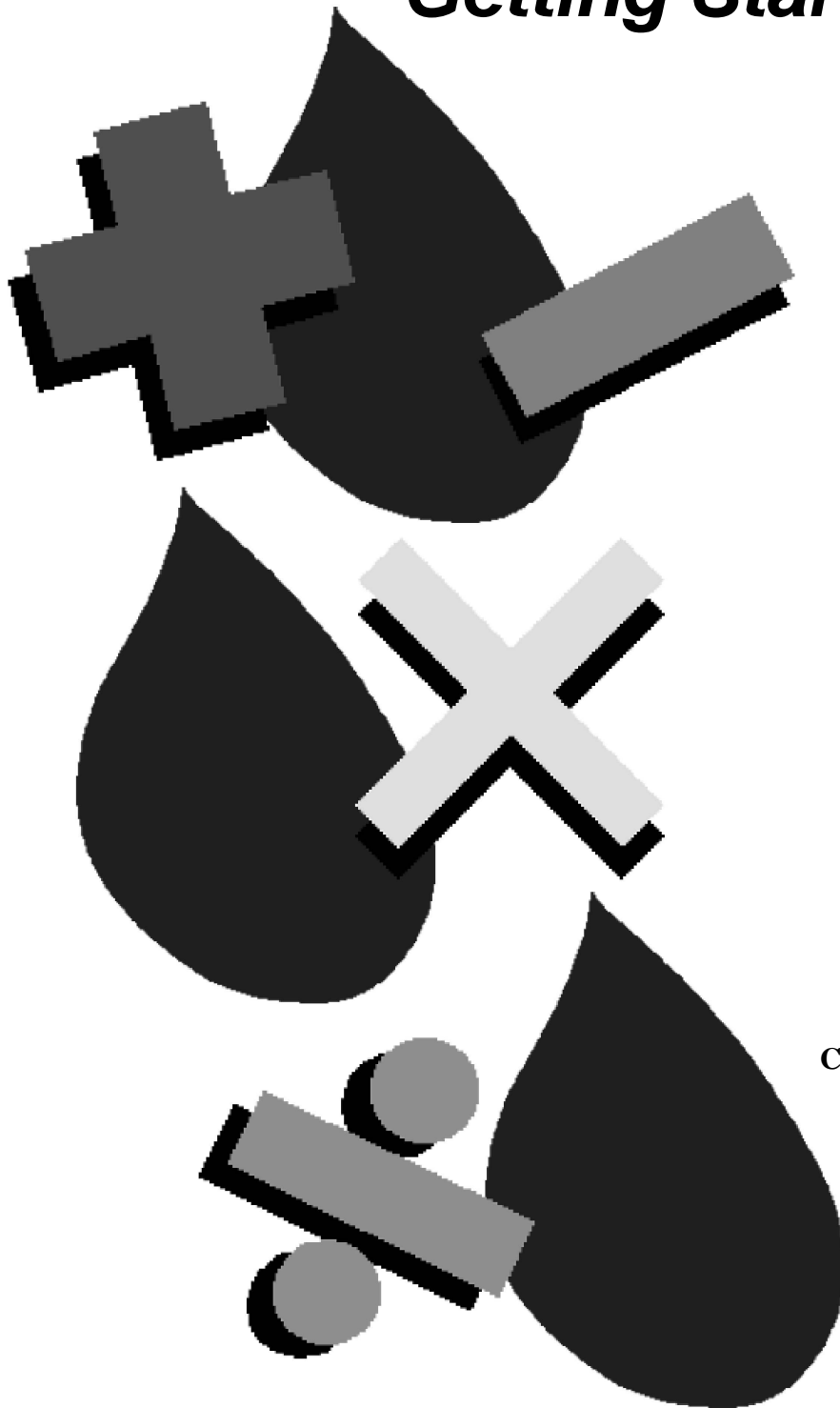


WaterCalc™ 1.0

Getting Started Guide



Bradley B Bean PE
419 East Columbia Street
Colorado Springs, Colorado
80907 USA
Telephone: (719) 578-9391
1-800-391-9391
Fax: (719) 578-9394
www.b3pe.com

**© 2016 Bradley B Bean PE - All rights reserved.
Revision 001**

**WaterCalc and the “B-Cubed” logo are trademarks of Bradley B Bean PE.
Windows is a trademark of Microsoft Corporation.**

Getting Help - Contact Us.	1
Hardware/Software Requirements.	1
Installing WaterCalc.	1
Starting WaterCalc - The First Time.	2
User Count.	3
Using The Menus.	3
Negotiating The Screens.	4
Executing Commands & Functions.	5
Notes On Dimensional Units.	5
Notes For International Users.	6
Using The Help System.	6
Uninstalling WaterCalc.	6





Getting Help - Contact Us

Hours - Our normal work hours are 8:00 A.M. to 5:00 P.M. Mountain Time, Monday through Friday. However if you have a problem, please try at any time, we may be in.

By Telephone - Telephone: (719) 578-9391

Toll Free (US Only): 1-800-391-9391

By Email - help@b3pe.com

By Website - www.b3pe.com

Hardware/Software Requirements

WaterCalc will operate on any personal computer (PC) configured to run a Windows XP or newer operating system. The WaterCalc software will require a minimum of 7 MB of free hard disk space when installed with full documentation. Requires Microsoft .NET Framework 4.0 or newer - will be installed if not present.

Installing WaterCalc

An appropriate version of Windows must be running in order to install WaterCalc. If it is not, start Windows now.

Note...

- On Windows Vista and newer machines, you will need to be logged on as the Full Administrator or use the “*Run as administrator*” option when executing the installation file.
- It is assumed that an email containing the link to the WaterCalc “setup” file has already been received. If it has not, please contact us at sales@b3pe.com.

! In the WaterCalc Software email, click on the WaterCalc Download zip file link.

! The machine’s default internet browser will be opened, and the zip file will be downloaded.

! Find the location where the downloaded folder is saved on the machine. Open the folder using Windows File Explorer.

! Double-click on the executable setup file contained in the compressed folder. If a Windows Security warning appears, allow the machine to install the file.

! The main WaterCalc Setup screen will be displayed. Several screens will be displayed during the installation process. Read the contents of each screen carefully and respond appropriately.



Note...

On the License Agreement screen, read the terms of the License carefully and select the “*Agree to*” option. If you do not wish to accept the License Agreement, you will not be able to continue with the installation process.

! A message will be displayed when the installation process is complete. The message will indicate whether the installation was successful or whether it failed. Select the appropriate option to clear the message.

Starting WaterCalc - The First Time

Note...

- An appropriate version of Windows must be running before WaterCalc may be executed. If Windows is not running, begin its execution now.
- On Windows Vista and newer machines, you will need to be logged on as the Full Administrator or use the “*Run as administrator*” option the first time you execute the WaterCalc software.

! From the Windows Desktop select the *WaterCalc 1.0* shortcut icon.

! The Registration screen will be displayed. This displays the Serial Number associated with the license and will prompt for a Registration Number. To request the Registration Number, either select the *Request Registration Number* command button, or manually request the registration number by sending an email (including the Company Name and the Serial Number) to registration@b3pe.com. Once the Registration Number has been received, enter the Registration Number at the prompt, then select the *Continue* command button. You will **not** be able to fully use the software until it has been registered.

Registration...

This Software Is Not Registered...

Licensed To: b3pe

Serial Number: 61272

Registration Number:

Use One Of The Following Methods To Register The Software..

For A Local License Installation:
Click Below Or Contact The Vendor To Obtain A Registration Number.
Enter The Number In The Data Field Above. Then Click Continue To Register The Software.

For A Network License Installation:
Click Below Or Contact Your Network Administrator To Register The Software.



Note...

If the registration number needs to be entered at a later time, select the *Cancel* command button to close the Registration screen. After the Registration Number is received, restart the WaterCalc software and enter the Registration Number at the prompt.

! After the software has been loaded into memory, the WaterCalc Welcome screen will be displayed. Select the *Continue* command button.

Once installed and executed, the use of WaterCalc is virtually self explanatory. To perform a calculation, choose the appropriate calculation routine from one of the menu lists, on the calculation screen click a red label for the item to be calculated so that it is underlined, enter the desired values in the various data fields, then select the *Calculate* command button.



User Count

The number of Users that can simultaneously run the WaterCalc software is dependent on the license style purchased. This number is referred to as the User Count. A Single-User License allows only one User at a time. A Limited Network License allows for a fixed number of Users, which is dependent upon the purchase agreement. Licenses with an unlimited number of Users are also available.

When WaterCalc is executed, it checks the number of Users currently using the software. If the User Count is not exceeded, the WaterCalc software will be started. If the User Count is exceeded, a message will be displayed.

If WaterCalc is abnormally terminated, the User Count may become corrupt and WaterCalc may erroneously report the number of current Users. If this occurs, select the *Reset User Count* menu item from the *Technical Support* submenu of the *Help* menu list.

Using The Menus

The various routines and features associated with the WaterCalc software are accessed through pull-down menus. The menus are grouped under headings by functionality. The menu headings are displayed near the top of the main WaterCalc screen.

Menu items are accessed by selecting an item from a menu list. The menu lists are activated by selecting the appropriate menu heading. Menu headings and menu items may be selected by clicking on the menu heading or menu item. A menu list may be deactivated by pressing the *Esc* key or selecting another menu heading.



Some menu items have submenus associated with them, these are accessed through submenu “headers”. Submenu headers are followed by “...” and a “right arrow” symbol. Rest or click the mouse on the header title to access the submenu. Multiple submenus may exist.

Negotiating The Screens

WaterCalc provides numerous data screens for entering, editing, viewing, and managing the data it requires. Generally, a data screen will contain various controls including data fields for entering individual data values, drop-down lists for selecting predefined data, option buttons and check-boxes for selecting specific options, data tabs for displaying specific data groups, and command buttons and icons for executing various functions. The *Tab* or *Enter* keys, or the mouse may be used to move between the controls contained on all screens.

Calculated Value - Data fields or display panels highlighted with a yellow background represent calculated data values. In general, they cannot be directly edited by the User - these values change when one of the editable values are changed and a calculation is successfully executed.

Checkbox - On some screens, options are presented using checkboxes. Where a checkbox is used, a check mark (✓) will appear in the box when the option is selected. The status of a checkbox may be changed by clicking in the box, or by pressing the *Space Bar* while the cursor is in the box.

Data Field - Data fields are provided for items where the value must be entered by typing. To enter a value in a data field, position the cursor in the appropriate data field, then type the desired value. When entering numbers in a data field, do not include the digit grouping identifier (thousands identifier). For example, enter ten thousand as “10000” not as “10,000”.

Drop-Down List - Some items are supported by drop-down data lists. For example, dimensional units are associated with a drop-down list of available values. To activate a drop-down data list, click on the arrow symbol next to the right side of the data field. Select an item from the list by clicking on the item.

Icon - An icon is a small image which represents the function that the command performs. Icons can only be selected using the mouse. An example of an icon, is the printer symbol icon found on many report screens.

Option Button - On some screens, “either-or” options are presented using an option button. When option buttons are used, a dot inside the option circle indicates that the option is selected. Option buttons are usually found in groups. Only one option may be selected at a time. To change the status of an option button, click on the desired button, or use the *Arrow* keys to move between options.



Scroll Bar - The horizontal scroll bar (the bar directly beneath the viewing screen) is used to move the screen right and left. If the screen contents are wider than the display window, the horizontal scroll bar allows viewing of the off-display portions of the screen. The vertical scroll bar (the bar directly to the right of the viewing screen) is used to move up and down in the screen. The vertical bar allows the screen to be browsed by adjusting the bar's slider. The scroll bars may be adjusted by moving the bar's "slider" with the mouse, or by clicking on the arrow symbols associated with the specific bar. Large changes in the display can be made by clicking on the desired bar, either before or after the slider's position.

Tab - On some screens, data items are grouped and displayed on data tabs. To access the data contained on a tab, click on the tab's heading, use the *Arrow* keys when the tab heading is highlighted, or hold down the *Alt* key while pressing the key associated with the underlined letter displayed in the tab's heading.

Executing Commands & Functions

Many screens and message boxes contain command buttons. These buttons may be used to access a specific function or to perform a specific action. The *Close* or *Cancel* command buttons found on many of the data screens are examples of command buttons. When a command button is selected, the function associated with that command button is executed. Command buttons may be selected by one of the following methods:

- ! Left-click on the command button.
- ! Use the *Tab* key to position the cursor on the desired command button, then press the *Enter* key.
- ! Press and hold down the *Alt* key while pressing the key corresponding to the underlined letter of the desired command button.

Notes On Dimensional Units

When WaterCalc first starts, the example calculations use standard US dimensional units (Feet, Inches, Psi, Fahrenheit). "Metric" versions of most calculation samples are also included when the software is installed. To view these calculations, select the *Open* command button on the associated calculation screen. Other dimensional units may be used by selecting the desired unit value from the dimensional unit list for each data item.

As used in WaterCalc, unless otherwise specified, all pressure units represent "gauge" units. Within the documentation, gauge pressure units are generally shown without a suffix, absolute pressure units are shown with an "a" or "(Abs)" suffix.



Notes For International Users

WaterCalc attempts to accommodate the needs of International Users by providing a robust set of dimensional units. These units can be selected as appropriate for the User's particular needs.

WaterCalc does have a particular weakness when it comes to the various Property Tables that contain predefined Fitting and Pipe data. These lists are primarily oriented towards US manufacturers and sizes. These Property Tables can be easily modified by the User to more specifically meet the particular needs of each User. The Property Tables provided with the software are intended to provide a starting point to allow the User to create their own custom Property Tables.

WaterCalc can accommodate either a comma (,) or a dot (.) as the decimal identifier, or a comma (,) or a dot (.) as the digit grouping identifier depending on the associated Windows setting. For example, ten thousand and one tenth can be displayed as "10,000.10" or as "10.000,10" depending on the Windows setting.

Use the Regional and Language options found in the Windows Control Panel to change the digit grouping and decimal identification settings.

Using The Help System

The WaterCalc "Help System" consists of various Portable Document Format (PDF) documents. A suitable PDF document viewer or reader is required to view and print the documents. When associated with a calculation screen, the associated help file is referred to as a "calculation reference".

The calculation references may be accessed from the individual calculation screens. To view a calculation reference from a calculation screen, open the desired calculation screen by selecting the appropriate menu item. When opened, select the *Help* command button or icon on the associated calculation screen.

Generally, the help documents are not installed when the software is installed. The help files are located online. Internet access is required to access most help documents. If one or more of the documents are missing, they are available for download from our website, www.b3pe.com.

Uninstalling WaterCalc

If after using the WaterCalc software you wish to remove it, select the *Uninstall WaterCalc 1.0* menu item from the *WaterCalc* menu list. In Windows 8, right-click on the *WaterCalc 1.0* tile on the start screen, then select the Uninstall option.



! After the Uninstall Program has been started, read the contents of each screen carefully and respond appropriately.

Note... If the *Uninstall Program* asks to remove any shared system files, select the *No* command button.

! A message will be displayed when the Uninstall routine is complete. The message will indicate whether the uninstall process was successful or whether it failed. Select the appropriate option to clear the message.

Note... On some machines, the uninstall routine will not be able to remove any directory or file that has been created after the initial installation.

! Some of the files and/or folders created by WaterCalc after the installation may include files in the initialization directory (ini), files in the default calculation file directory (files), and/or files in the application directory (app).

! To remove these files and/or folders, use *Windows File Explorer* to find and delete the remaining files and folders. An example of the path for the initialization folder is shown below. The other folders have similar path locations.

- 32-bit machines - **C:\Program Files\WaterCalc 1\ini**
- 64-bit machines - **C:\Program Files (x86)\WaterCalc 1\ini**



