

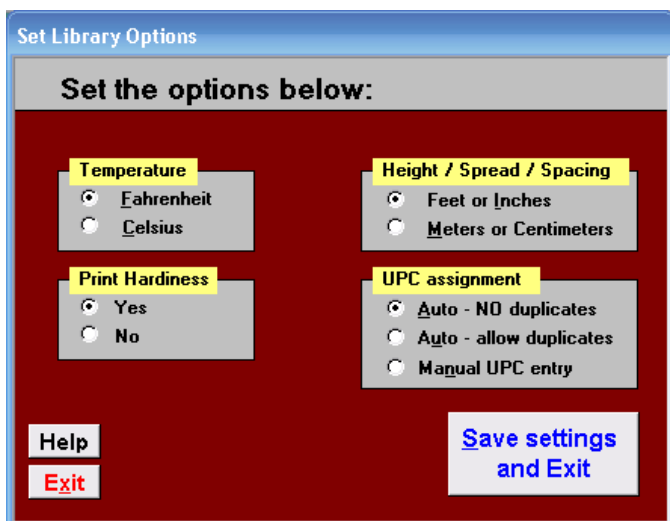
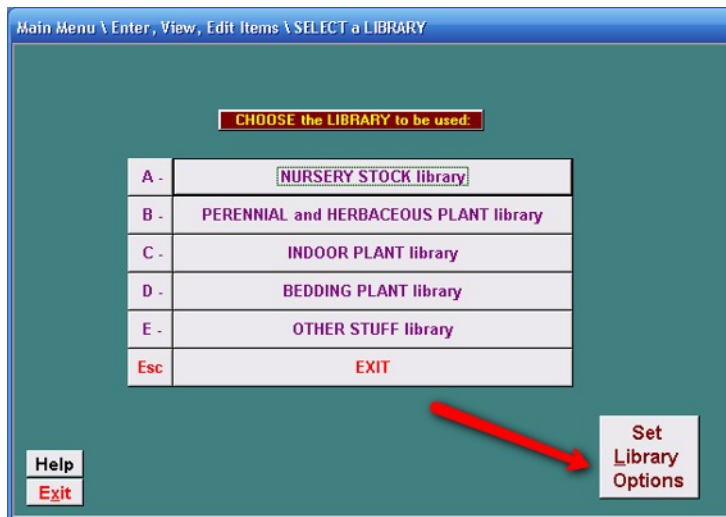
UPC Bar Codes in Gardenware: A Quick Intro and Basic Suggestions

Dennis Saulsbury, Gardenware

The topic of UPC bar codes is probably best handled with a text document rather than a video clip. There are too many words and not enough action.

The path to your UPC options windows varies a little bit depending on the version of Gardenware you're using. Versions 32.123 and earlier are shown here. In Version 10, click on the Library Information and Repair button on the main menu and you'll find your Library Options button almost in the middle of the screen.

Once in that menu, the options are nearly the same as shown below. There are a couple of minor additions to the Version 10 menu.



Three of the choices are obvious. Some of our Canadian customers asked for the option to turn off the printing of Hardiness. Most users find it useful.

The option for UPC assignment is our focus.

We refer repeatedly to UPC Barcodes because there are several barcode systems available. Most are used for parcel tracking, inventory control and other uses. The UPC Barcode is a system devised to identify a specific item or product. Its use is administered by a non-governmental agency. More on that later.

In the discussion we mention Price Lines. A price line is a set of values that the user assigns to a library item. It can include any or all of the following: a Size (Brief Description), a SKU or User Code, a Price and a UPC Bar Code Number. Here is a screen shot of price lines assigned to Abelia 'Edward Goucher' (in my library) so you will know what we are talking about.

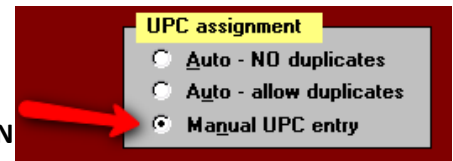
Price Information:			
Brief Description	SKU or User Code	Unit Price	UPC Number
▶ 1 gal	HN95930-01	\$7.99	4-41000-01867-9
5 Gal	AN85421-05	\$27.99	4-10000-01155-3

When the 1 gal Abelia Edward Goucher is selected for printing and printed on a 1" loop lock label, the result looks like this:



FIRST: IF YOU ARE ABSOLUTELY SURE THAT YOU WILL NEVER, NEVER EVER HAVE ANY USE FOR UPC BAR CODES, YOU DO NOT HAVE TO DEAL WITH THEM.

YOU WILL HOWEVER, NEED TO MAKE THE SELECTION FOR MANUAL UPC ENTRY IN ORDER TO PREVENT AUTOMATIC UPC ASSIGNMENT.



Back to Bar Code setup:

The first two choices automatically assign a new UPC Number to each new price line you attach to a library item.

- **Auto - NO Duplicates** automatically assigns a unique Bar Code numbers to each new price line.
- **Auto - allow duplicates** works as above, but allows the user to overwrite with a code previously used.
- **Manual UPC entry** is exactly what it sounds like.

So, how do you determine which method to use?

Most retail outlets that do not already have a Point of Sale System in place select **Auto - No Duplicates**.

If you are a retailer and are not currently using a Point of Sale System, we recommend that you select this item and let the program assign a UPC Bar Code Number for each item. There is no requirement to print them, and there are no penalties for not doing so. It's just a matter of planning ahead.

A few years from now, if you decide to implement a Point of Sale System your items will already have UPC Bar Codes assigned and it can save many hours of entry time. Growers who have been assigned a **Vendor Number** may use this option as well. The Gardenware program has a utility for assigning a beginning UPC Number and will automatically assign a new unique numbers to each price line.

Some retail operations wish to be able to assign the same Bar Code to multiple items. For instance, imagine a business that doesn't care about information about specific 4 inch perennial varieties, but only wants to know how many 4 inch perennial plants were sold at the \$3.49 price point. For this purpose the program allows the same UPC Bar Code to be used for multiple items. Using **Auto - allow duplicates**, the program will remind the user prior to saving the entry that the UPC code just entered is a duplicate.

Users currently using a Point of Sale System who already have UPC Bar Code Numbers for their items will typically enter those UPC numbers manually into the Gardenware Program and, obviously, will select **Manual UPC entry**.

For more detailed information on UPC codes, what they represent and how they're used, please continue to the next pages.

UPC Bar Codes: An Attempt at a Non-Technical Primer

UPC stands for Uniform Product Code. The assignment of UPC vendor numbers used to be handled by an organization known as the Uniform Code Council. Beginning in 1972 the organization has gone through changes and is now part of an international standards organization. The following description of the changes to that organization are described here from the **Simply Barcodes** website:

<http://www.upccode.net/upc-guide/uniform-code-council.html>

The Uniform Code Council then merged with EAN International into GS1, Global Standards One. GS1, thereby, effectively became the single worldwide origination point for UPC and EAN numbers (now known as GTIN-12 and GTIN-13, respectively).

On the 7th of June 2005 the UCC become the official GS1 member organization for the United States of America under the new name of GS1 US.

If your company grows or distributes plants that need UPC Bar Coded labels you will need to contact the agency and apply for a **Vendor Number**. Going on-line will probably reveal a number of entities that offer to supply you with a 'legal' or 'official' bar code number. (Such statements make us wonder if there are scammers issuing 'illegal' vendor numbers.) **We would recommend going to the GS1 US web site.** <http://www.gs1us.org/> There is much more information available as well as an online application initiation form.

The Anatomy of a UPC Barcode



In the case of registered UPC codes, GS1US assigns the first six (or nine, in some cases) digits. These make up the UPC Vendor Prefix. The five (or two) digits following the Vendor Prefix are used by the individual manufacturer, supplier, grower, etc to assign an individual number for each item they offer. The last number is a check digit, and is determined by a formula. Its function is to confirm the accuracy of the order of the preceding digits, catching errors such as transpositions.

You probably know that UPC Bar Codes for the individual products we commonly use are the same everywhere. From Canada through Mexico and beyond, a 12 oz Coca Cola Classic has the same bar code.

Unfortunately, there are no such standards in our industry. A No. 1 Wiltonii Juniper from Monrovia will have a different number than the same item from Hines which is different from Carolina Nurseries which is different from, well, you get the idea. In addition, many good but smaller growers don't even supply products with UPC Bar Codes. (Please tell them about Gardenware – Thanks.)

Good news for retailers:

In their wisdom, the Uniform Code Council reserved the leading digit of 4 for in-house (individual business) use. No Vendor will be assigned a vendor code beginning with a 4! For retail garden centers this makes it easy to assign a single UPC Bar Code for all No. 1 Wiltonii Juniper no matter who delivered them and to deal with them as one item rather than multiple items in their POS System.

When your program was installed, the beginning numbers for each library is set to **4**. We arbitrarily set the second numbers to identify the library. **4-10000** etc indicates the Nursery Library. **4-2000** etc, the Perennial Library, **4-3** etc, the Indoor Plant Library **4-4** the Bedding Plant Library and **4-5** etc, the Other Stuff Library.

You have total freedom to make any changes you like but if you have no specific reason to change, this has worked well for most users. Remember, however that if you are a retail outlet making your own UPC Bar Code Numbers it would be wise to always make the leading digit a **4**.

UPC Bar Codes and the Point of Sale System

If you are using or plan to use a Point of Sale system, most of them have a **look up** capability so you don't have to re-tag similar items. This means that if you assign a UPC Bar Code to No. 1 Wilton Juniper, you can click on the ones supplied by Hines, Monrovia and any other supplier and the system can look up the UPC Bar Code Number you assigned and the price you assigned to it and scan it just as if it were your label. That means that you use the UPC Bar Code labels furnished by multiple suppliers but only need to track one number per item instead of one number for each supplier of every item. *For most users this makes life with a Point of Sale System much more simple.*

Some users wish to track each item from each supplier. That is certainly an option. For most users, however it is simply another layer of complication. Most of us don't need that. The vendors can tell you very quickly how much of each item you purchased from them and generally do when they are trying to get your order.

Important note re: Bar Code Numbers in Gardenware - They cannot be edited.

After a few of our users experienced major problems with employees 'editing' UPC Bar Code Numbers and creating havoc, we changed the program to make it impossible to edit the Bar Code Number. If a Bar Code Number is entered incorrectly the Price Line may simply be deleted and re-entered. It is a little more work but the integrity of the bar code numbers will not be compromised by accident or misuse.

If you have questions, we'll help if we can.

503 717-9295

Info@gardenware.com