

# GRIN-GlobalPublic Website

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## **Revision Date**

January 9, 2015

## **Comments/Suggestions:**

This guide provides an overview to the GRIN-Global Curator Tool and provides details on the program's interface.

Please contact [feedback@ars-grin.gov](mailto:feedback@ars-grin.gov) with any suggestions or questions related to this document. This and other GRIN-Global –related documentation can be downloaded from the GRIN-Global [Training page](#).

# Quick Reference – Links & Notes

## Quick List of Topics

Click on any item from the list below to review that topic. Additional topics may be found in the [Table of Contents](#).

### [Search](#)

by [Accession data](#)

by [Taxonomy](#)

by [Observations](#)

[Wildcards](#)

[Advanced Search](#) options

### [Ordering Germplasm](#)

[Accessions](#)

[Observations](#)

[Taxonomy](#)

User Accounts

[Login & Register Now](#)

[Password Requirements](#)

[Editing Your Contact \(& Shipping\) Information](#)

[My Account](#)

[Shipping Address](#)

[Wishlist](#)

[Ordering Germplasm](#)

[View Shopping Cart](#)

[Adding documents](#) with your order

[Choose Language](#)

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# Overview

## Overview

The GRIN-Global Public Website (PW) is designed for users (researchers, curators and other internal genebank technicians) who will:

query the USDA's GRIN-Global database for germplasm and taxonomy information  
order germplasm to meet their research needs

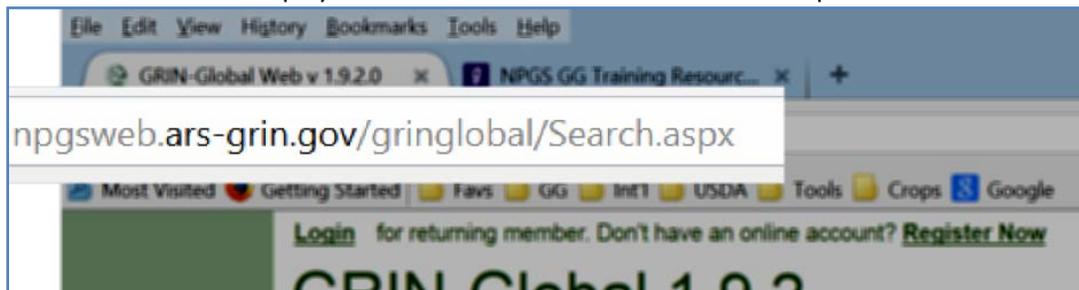
Since the Public Website (PW) requires only a standard browser (Internet Explorer, Firefox, Chrome, etc.), no additional installation is required. The PW incorporates an easy-to-use interface for extracting plant genetic resource information from the GRIN-Global (GG) database. The user documentation for the Public Website is embedded in this help function.

## Ordering Germplasm

After you have searched the database and found accessions in which you are interested, you can select them and add them to a virtual shopping cart. The [shopping cart](#) feature is modeled after many other websites – you can add items in, remove them if you change your mind, save the cart for later review – GRIN-Global even has a [“wishlist.”](#)

## Main Screen

The main window is displayed when the GRIN-Global URL address is provided to a browser:



Each organization running a GRIN-Global database will be running their own server and will have their own unique URL address. The [npgsweb.ars-grin.gov/gringlobal/Search.aspx](http://npgsweb.ars-grin.gov/gringlobal/Search.aspx) is the USDA's National Plant Germplasm System (NPGS) server.

The GG main window displays various links. We recommend logging in via the [Login](#) link if you intend to order germplasm. New users will initially need to use the [Register Now](#) link.

Click on any menu option, or enter search criteria in the **Search For:** box. Also, you can click [Search Options](#) or [Advanced Search](#) for additional options. Click the **Search** button to start the search.

[Login](#) for returning member. Don't have an online account? [Register Now](#)

# GRIN-Global 1.9.2

[Accessions](#) ▶ [Descriptors](#) ▶ [Taxonomy](#) ▶ [View Cart](#) [Reports](#) [My Account](#) ▶ [Help](#) ▶

[Home Page](#) > [Accessions](#) > [General](#)

Search For:  [Search](#)

[Search Options](#) | [Advanced Search](#)

Options for each menu item are displayed when you move the mouse over the item:

[Login](#) for returning member. Don't have an online account? [Register Now](#)  No items in cart

# GRIN-Global Release 1.9.2 (Development)

[Accessions](#) ▶ [Descriptors](#) ▶ [Taxonomy](#) ▶ [View Cart](#) [Reports](#) [My Account](#) ▶ [Help](#) ▶ [Checkout](#)

[Home Page](#) > [Accessions](#) > [General](#)

Search For:  [Search](#)

- Advanced Query of Species Data
- Simple Query Search
- Browse by Taxonomy
- Families and Genera Query
- Search About GRIN Taxonomy for Plants

# Accessions

[Search](#) for Accessions by their names or identifiers (prefix, number, and suffix), or by their descriptors.

Search results are initially displayed in a list with Accession summary information: Plant ID, Plant Name Taxonomy, Origin and so on, as shown below. To display detailed information about a specific accession, click on the respective link in the left column. The second screen below illustrates a partial accession details page. The details page also includes information on Intellectual Property Rights (IPR), Source History, and Pedigree, as well as any associated narrative, images, or observations.

[Login](#) for returning member. Don't have an online account? [Register Now](#) No items in cart [Contact Us](#)

## GRIN-Global 1.9.4 Test only, orders created here will not be filled



Accessions ▸ Descriptors ▸ Taxonomy ▸ View Cart Reports My Account ▸ Help ▸ Choose language [Eng](#)

Home Page > Accessions > General

**Query Criteria:**  
Search String: Vacci%oxy%

Search For:

Search Options | Advanced Search

Actions... ▾

Select: All, None, Inverse, Highlighted Options: Show 25 items << 1 - 25 of 101 >> Export...

| <input type="checkbox"/> | Group By:<br>Plant ID ▾ | Plant Name               | Taxonomy                            | Origin                  | Material            | Maintained By       | Availability                |
|--------------------------|-------------------------|--------------------------|-------------------------------------|-------------------------|---------------------|---------------------|-----------------------------|
| <input type="checkbox"/> | CVAC 484                | S33                      | <a href="#">Vaccinium oxycoccos</a> | Finland                 | Plant               | <a href="#">COR</a> | Not Available               |
| <input type="checkbox"/> | PI 638755               | V. oxycoccos MD Allen 10 | <a href="#">Vaccinium oxycoccos</a> | United States, Maryland | Plant Seed          | <a href="#">COR</a> | <a href="#">Add to Cart</a> |
| <input type="checkbox"/> | PI 618017               | V. oxycoccos MD Allen 13 | <a href="#">Vaccinium oxycoccos</a> | United States, Maryland | In-vitro Plant Seed | <a href="#">COR</a> | <a href="#">Add to Cart</a> |
| <input type="checkbox"/> | PI 618019               | Allen 15                 | <a href="#">Vaccinium oxycoccos</a> | United States, Maryland | Plant Seed          | <a href="#">COR</a> | <a href="#">Add to Cart</a> |

## Accession details page (partial)

Accessions ▸ Descriptors ▸ Taxonomy ▸ View Cart Reports My Account ▸ Help ▸ Choose language [English](#)

**PI 666704**

**Vaccinium oxycoccos L.**

|                          |  |
|--------------------------|--|
| Collected from:          | Hokkaido Japan   |
| Maintained by:           | <a href="#">Natl. Germplasm Repository - Corvallis</a> |
| NPGS received:           | 07-Oct-2009  |
| PI assigned:             | 2012   |
| Inventory volume:        | 221  |
| Backup location:         |  |
| Life form:               | Vine   |
| Pedigree:                | Collected from the wild in Hokkaido, Japan.            |
| Improvement status:      | Wild material  |
| Reproductive uniformity: | Hybrid   |

Status: Available  
Amt Distributed: 2 cuttings  
Type Distributed: Scion





# Searching GRIN-Global

## GRIN-Global Searches Overview

Multiple methods may be used for searching the GG database – by [Accessions](#), [Descriptors](#), or [Taxonomy](#).

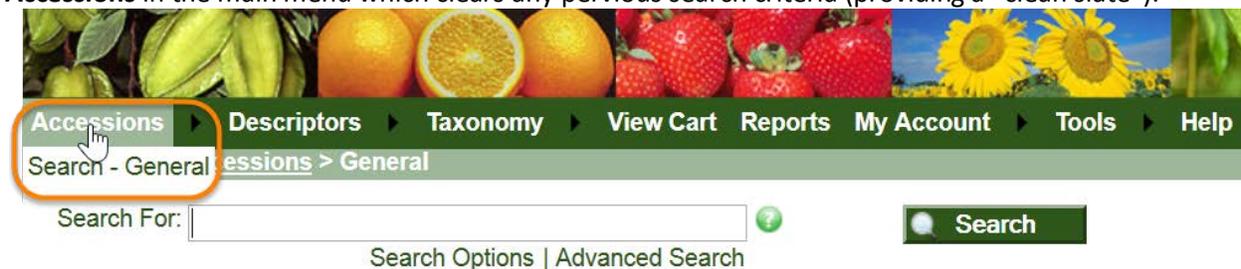
### Clear the Search Page

To start a new search or clear an existing search page, select either [Accessions](#), [Descriptors](#), or [Taxonomy](#) from the main menu – the window is ready for a new search.



### Searching for Accessions

When opening the GG Public Website in a browser, the initial page is the Accession Search page on which you can immediately search for an accession. You can also return to this page later by clicking on [Accessions](#) in the main menu which clears any previous search criteria (providing a “clean slate”):



Either input search text in the displayed “Search For” box or click on the links to use the [Search Options](#) or other options under the [Advanced Search](#) link.

### Wildcards

Enter desired text for your criteria in the Search box. To broaden a search, use wildcards.



GG is similar a “Google” search, but has limitations. Consider using the [Advanced Search](#) options if you do not get expected results from a text search.

- whatever you type in the **Search For:** box (including spaces), becomes part of the search text
- two wild cards: % (percent sign) and \* (asterisk) are essentially equivalent, but for technical reasons the % is recommended) – they are both used to substitute for any number of characters
- the wild card: \_ (underscore) – indicates any *single* character
- multiple wildcards can be used as needed
- currently the search is restricted to [31 fields](#) in the database

The results below illustrate a search using two wildcards: the **\_** and the **%**

**Query Criteria:**  
Search String: Helianthus\_t%

Search For:

Search Options | Advanced Search

Actions... ▾

Select: All, None, Inverse, Highlighted Options: Show  items << < 1 - 25 > >> Export...

| <input type="checkbox"/> | Group By:<br><input type="text" value="Plant ID"/> | Plant Name | Taxonomy                             | Origin                      | Material   | Ma                  |
|--------------------------|--|------------|--------------------------------------|-----------------------------|------------|---------------------|
| <input type="checkbox"/> | <a href="#">PI 650089</a>                          | TUB-1765   | <a href="#">Helianthus tuberosus</a> | United States, South Dakota | Plant Seed | <a href="#">NCI</a> |
| <input type="checkbox"/> | <a href="#">PI 650090</a>                          | TUB-33     | <a href="#">Helianthus tuberosus</a> | United States, South Dakota | Plant Seed | <a href="#">NCI</a> |
| <input type="checkbox"/> | <a href="#">PI 650091</a>                          | TUB-1769   | <a href="#">Helianthus tuberosus</a> | United States, South Dakota | Plant Seed | <a href="#">NCI</a> |

When searching by accession identifiers, the second part of the identifier is numeric. For example, the accession **MR 201501**. The search string **MR 2015%** will not return any records because the **%** does not work with numeric fields. Consider using the **Advanced Search** and then select the **accession identifier range** criterion:

Accessions ▾ Descriptors ▾ Taxonomy ▾ View Cart Reports My Account ▾ Tools ▾

Home Page > Accessions > General

Search For:

Search Options | Advanced Search

Accessions:  Exclude unavailable  With images  With NCBI link  With genomic data

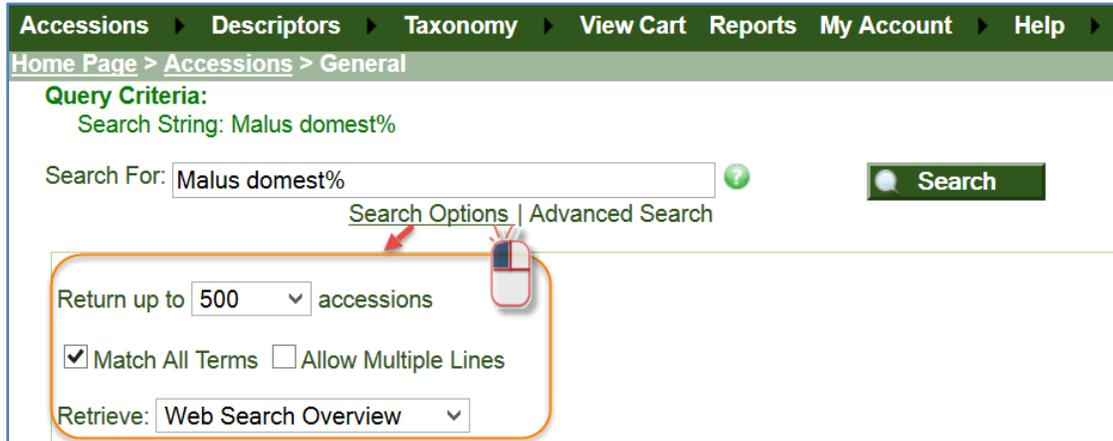
[Accession Collecting Site Search Criteria](#)

Choose Criterion 1:

Individual accession identifier or range of identifiers:  
  to

## Text Search Options

Click on the **Search Options** link to display several text and search options and to select a few basic settings that will guide the search.



The screenshot shows a navigation bar with links: Accessions, Descriptors, Taxonomy, View Cart, Reports, My Account, and Help. Below the navigation bar is a breadcrumb trail: Home Page > Accessions > General. The main content area is titled "Query Criteria:" and shows a search string: "Malus domest%". Below this is a search input field containing "Malus domest%" and a "Search" button. A link for "Search Options | Advanced Search" is visible. A red box highlights the search options section, which includes a dropdown menu for "Return up to" set to "500" accessions, a checked checkbox for "Match All Terms", an unchecked checkbox for "Allow Multiple Lines", and a dropdown menu for "Retrieve" set to "Web Search Overview".

### Indicate the Number of Accessions Returned by a Search

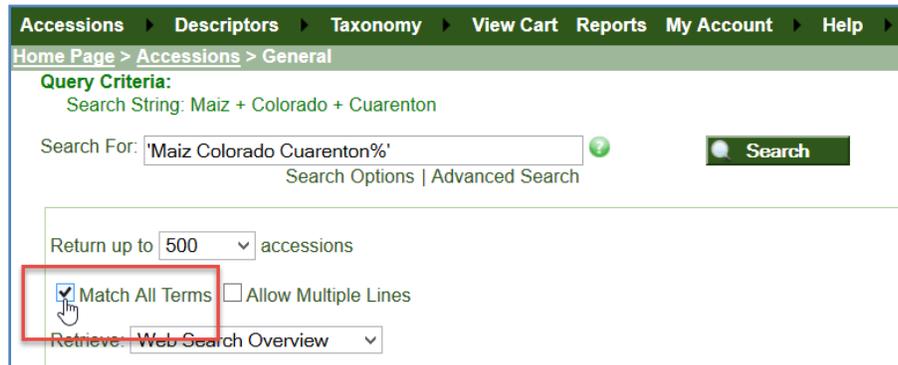
Indicate the maximum number of records to be returned when the search is successful – change the number as needed. Click the dropdown and select a number from the list:



A close-up of the "Return up to" dropdown menu, showing the number "500" selected and the word "accessions" to its right.

### Match All Terms

- when inputting multiple words ...
  - when intended as one complete search term, check the **Match All Terms** checkbox (default)
  - when intended as separate terms, uncheck the **Match All Terms** checkbox
  - In the example below, single quotes enclosed the search string. The trailing % wildcard was also used because of some uncertainty if more text followed the **Cuarenton**



The screenshot shows the same navigation bar and breadcrumb trail as the first image. The main content area is titled "Query Criteria:" and shows a search string: "Maiz + Colorado + Cuarenton". Below this is a search input field containing "'Maiz Colorado Cuarenton%'" and a "Search" button. A link for "Search Options | Advanced Search" is visible. A red box highlights the search options section, which includes a dropdown menu for "Return up to" set to "500" accessions, a checked checkbox for "Match All Terms", an unchecked checkbox for "Allow Multiple Lines", and a dropdown menu for "Retrieve" set to "Web Search Overview".

When **Match All Terms** is not selected (unchecked), records are found because the search is handling each word in the search box using an “OR” condition... “find ‘Andean’ OR ‘blackberry’”

Home Page > Accessions > General

**Query Criteria:**  
Search String: Andean blackberry

Search For:

Return up to 500 accessions

Match All Terms  Allow Multiple Lines

Retrieve:

Actions...

Select: All, None, Inverse, Highlighted Options: Show All items <<< 1 - 181 >>> Export...

| Group By:                          | Plant Name  | Taxonomy                                      | Origin                    | Material                | Maintained By | Availability                |
|------------------------------------|-------------|---|---------------------------|-------------------------|---------------|-----------------------------|
| <input type="checkbox"/> PI 618477 | Snowbank    | <a href="#">Rubus allegheniensis</a>          | United States, California | Plant                   | COR           | Not Available               |
| <input type="checkbox"/> PI 618478 | Phenomenal  | <a href="#">Rubus loganobaccus</a>            | United States, California | In-vitro Plant          | COR           | <a href="#">Add to Cart</a> |
| <input type="checkbox"/> PI 21935  | Andean      | <a href="#">Medicago sativa subsp. sativa</a> | Peru                      |                         | W6            | Not Available               |
| <input type="checkbox"/> PI 22834  | Andean      | <a href="#">Medicago sativa subsp. sativa</a> | Peru                      |                         | W6            | Not Available               |
| <input type="checkbox"/> PI 618403 | Black Butte | <a href="#">Rubus hybr.</a>                   | United States, Oregon     | In-vitro Meristem Plant | COR           | <a href="#">Add to Cart</a> |

If the checkbox “**Match All Terms**” is selected, you are indicating that all the search conditions being invoked must be true, including any additional criteria that have been supplied using the [Advanced Search](#) feature.

When multiple words are inputted in the **Search For:** box, and you want them to be collectively treated as *one term*, embed them in quotes. In the following example, the user also included a trailing wildcard:

**Query Criteria:**  
Search String: 'Maiz Colorado Cuarenton%'

Search For:

Return up to 500 accessions

Match All Terms  Allow Multiple Lines

Retrieve:

Actions...

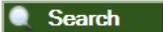
Select: All, None, Inverse, Highlighted Options: Show All items <<< 1 - 2 >>> Export...

| Group By:                          | Plant Name                    | Taxonomy                             | Origin    | Material | Maintained By | Availability                |
|------------------------------------|-------------------------------|--------------------------------------|-----------|----------|---------------|-----------------------------|
| <input type="checkbox"/> PI 162702 | Maiz Colorado Cuarenton Klein | <a href="#">Zea mays subsp. mays</a> | Argentina | Seed     | NC7           | <a href="#">Add to Cart</a> |
| <input type="checkbox"/> PI 139106 | Maiz Colorado Cuarenton Klein | <a href="#">Zea mays</a>             | Argentina |          | NC7           | Not Available               |

Show All items <<< 1 - 2 >>>

Without the wildcard, the following resulted:

**Query Criteria:**  
Search String: 'Maiz Colorado Cuarenton'

Search For:   

[Search Options](#) | [Advanced Search](#)

No data found matching your criteria.

When **Match All Terms** is not selected; the text in the search box is considered as three items. In this example many records are found:

**Query Criteria:**  
Search String: Maiz Colorado Cuarenton

Search For:   

[Search Options](#) | [Advanced Search](#)

Return up to  accessions

Match All Terms  Allow Multiple Lines

Retrieve:

**Actions...**

Select: All, None, Inverse, Highlighted Options: Show  items <<  of  >> Export...

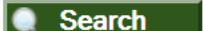
| Group By:                          | Plant Name | Taxonomy                             | Origin                  | Material | Maintained By        | Availability  |
|------------------------------------|------------|--------------------------------------|-------------------------|----------|----------------------|---------------|
| <input type="checkbox"/> Plant ID  |            |                                      |                         |          |                      |               |
| <input type="checkbox"/> MGS 13898 | 101A       | <a href="#">Zea mays subsp. mays</a> | United States, Illinois | Seed     | <a href="#">GSZE</a> | Not Available |
| <input type="checkbox"/> MGS 13899 | 101B       | <a href="#">Zea mays subsp. mays</a> | United States, Illinois | Seed     | <a href="#">GSZE</a> | Not Available |
| <input type="checkbox"/> Clze 3    | Cl 3       | <a href="#">Zea mays subsp. mays</a> | United States           | Seed     | <a href="#">NCZ</a>  | Not Available |
| <input type="checkbox"/> MGS 13900 | 101C       | <a href="#">Zea mays subsp. mays</a> | United States, Illinois | Seed     | <a href="#">GSZE</a> | Not Available |

### Allow Multiple Lines

You can paste multiple criteria into the box. For example, if you have a spreadsheet with a list of Accessions, drag or copy the cells with the Accession IDs into the Search box:

**Accessions** ▶ **Descriptors** ▶ **Taxonomy** ▶ **View Cart** **Reports** **My Account** ▶ **Help** ▶

[Home Page](#) > [Accessions](#) > [General](#)

Search For:   

[Search Options](#) | [Advanced Search](#)

Return up to  accessions

Match All Terms  Allow Multiple Lines

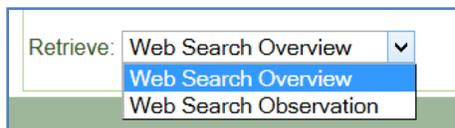
Retrieve:

When using this “Allow Multiple Lines” option, the Search Engine is restricted to finding matches in these columns:

- accession\_number\_part1, accession\_number\_part2, accession\_number\_part3 (Accessions Prefix, Number, Suffix)
- inventory\_number\_part1, inventory\_number\_part2, inventory\_number\_part3, form\_type\_code (Inventory Prefix, Number, Suffix, Germplasm Form)
- plant\_name (Plant Name)
- order\_request\_id (Order Request Numbers)

### Retrieve (Dropdown)

The default is set to **Web Search Overview**. The successful search will return information such as the accession’s taxonomy, origin, plant name, and site where it is stored. If you select **Web Search Observation**, the search results display the observations for the accessions meeting the criteria.

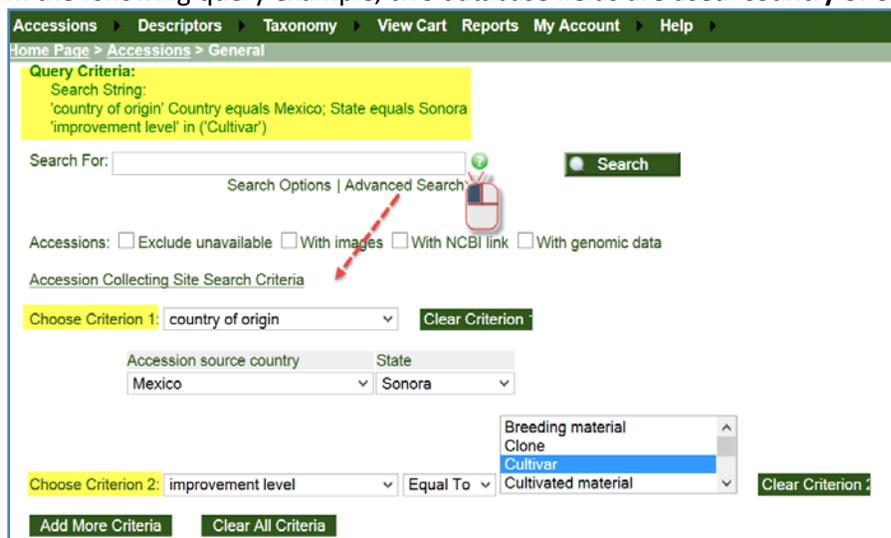


## Advanced Search

The Advanced Search link facilitates more “focused” searches. Under the **Advanced Search** link, you can create complex query criteria consisting of virtually unlimited combinations of certain database fields. In building an advanced query, you can search against specific data that exists in the database. When completing each criterion, select a comparison operator and existing data from which a comparison can be made.



In the following query example, two database fields are used: **country of origin** and **improvement level**.



## Operators in the Advanced Search

| Operator     | Description  |
|--------------|--|
| Equal To     | The search will look for an exact match  |
| Like         | The LIKE operator allows basic pattern-matching using wildcard characters. The wild-card characters for LIKE are percent -- '%' and underscore -- '_'. Underscore matches any single character. Percent matches zero or more characters. |
| In           | When there are three, four, or more values to compare against, use the IN operator to test against the set of values.  |
| Contains     | the specified text can be anywhere in the value (see the “diamond” example below)  |
| Not Equal To | Excludes the specific item from the search   |

## Contains

**Query Criteria:**  
Search String:  
'accession plant name' contains 'diamond'

Search For:

Search Options | Advanced Search

Actions... ▾

Select: All, None, Inverse, Highlighted Options: Show 25 items << 1 - 25 of 61 >>

| <input type="checkbox"/> | Group By:<br>Plant ID | Plant Name      | Taxonomy                       | Ori                         |
|--------------------------|-----------------------|-----------------|--------------------------------|-----------------------------|
| <input type="checkbox"/> | DPRU 71               | Black Diamond   | Prunus avium                   | United States<br>New York   |
| <input type="checkbox"/> | PL588120              | Diamond         | Vitis hybr.                    | United States<br>New York   |
| <input type="checkbox"/> | DVIT 391              | Diamond Jubilee | Vitis vinifera subsp. vinifera | United States<br>California |

## Not equal to

You can combine criteria to fine tune your search. For instance, the genus *Helianthus* has 6320 records in the database. When one species of a genus (*annuus*) was eliminated from the search, 2086 records were found.

Accessions ▶ Descriptors ▶ Taxonomy ▶ View Cart Reports My Account ▶ Tools ▶ Help ▶

Home Page > Accessions > General

**Query Criteria:**  
Search String:  
'taxonomy genus name' equal to 'Helianthus'  
'taxonomy species name' not equal to 'annuus'

Search For:

Search Options | Advanced Search

Actions... ▾

Select: All, None, Inverse, Highlighted Options: Show 25 items << 1 - 25 of 2086 >> Export...

## In

To choose multiple selections, use the "In" operator and hold the Ctrl key and click to select the additional data values.

Home Page > Search Accessions > General

Search For:

Search option | Advanced Search

Choose Query 1:  In

## How Can I...

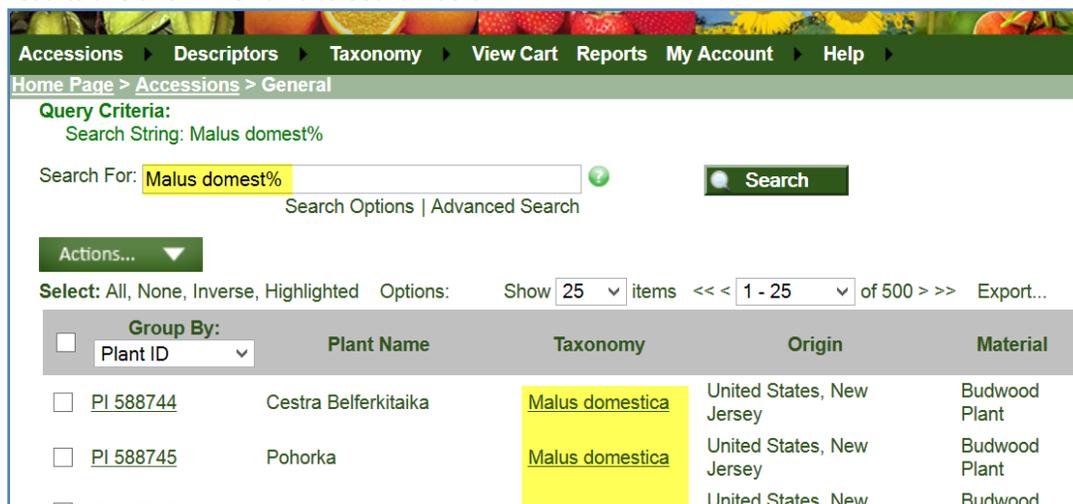
This section summarizes some of the main features available via the GG Public Website.

### Order Germplasm?

Typically the first step in ordering germplasm is to [search](#) the database and determine accessions of interest. You can search for accessions that meet certain criteria such as name, country of origin, habitat characteristics, and so on, or you can also search for accessions based on the results of tests and observations. In either case, before requesting germplasm, we recommend that you [register](#) on the site – that way you can maintain a history of your orders for reference. If you have previously registered, then login before ordering.

### Find Accessions with Specific Characteristics?

In a simple search, search criteria is entered in the box; frequently wildcards ( % \* \_ ) are used. Partial results are shown for a valid search below:



The screenshot shows the search interface of the GG Public Website. At the top, there is a navigation menu with links for Accessions, Descriptors, Taxonomy, View Cart, Reports, My Account, and Help. Below the menu, the breadcrumb trail reads 'Home Page > Accessions > General'. The 'Query Criteria' section shows a search string of 'Malus domestica%' entered into a search box, with a 'Search' button to the right. Below the search box, there are links for 'Search Options' and 'Advanced Search'. A 'Select' dropdown menu is set to 'All', and there are options to show 25 items per page, with the current page being 1 of 25. The search results are displayed in a table with columns for Plant ID, Plant Name, Taxonomy, Origin, and Material. The first two results are highlighted in yellow.

| Group By:                          | Plant Name           | Taxonomy        | Origin                    | Material      |
|------------------------------------|----------------------|-----------------|---------------------------|---------------|
| <input type="checkbox"/> Plant ID  |                      |                 |                           |               |
| <input type="checkbox"/> PI 588744 | Cestra Belferkitaika | Malus domestica | United States, New Jersey | Budwood Plant |
| <input type="checkbox"/> PI 588745 | Pohorka              | Malus domestica | United States, New Jersey | Budwood Plant |
| <input type="checkbox"/> PI 588746 | Milinka              | Malus domestica | United States, New Jersey | Budwood Plant |

See [Searching for Accessions](#) for details.

### Find Accessions that Have Been Evaluated for Certain Characteristics?

Many of the accessions in the collection will have been evaluated for certain characteristics – to look for accessions by evaluation data, you need to know the crop in which the accessions will be included. (Descriptors are organized in GG by Crops. Taxonomy species records in the database are assigned to one or more crops.) See [Observations](#) for details.

## Export Lists of Accessions?

Export with Options

Export Fieldbooks

Choose Crop: ALLIUM

ALLIUM

Choose descriptor(s):

Select descriptor values:

Results:

Select: All, None, Inverse, Highlighted Options: Show  items << <  of 1 > >> Export...

| <input type="checkbox"/> | Group By: <input type="text" value="Plant ID"/> | DAY LENGTH REQUIREMENT FOR BUL | PLANT VIGOR <input style="float: right;" type="button" value="+"/> |
|--------------------------|---|--------------------------------|--|
|--------------------------|---|--------------------------------|--|

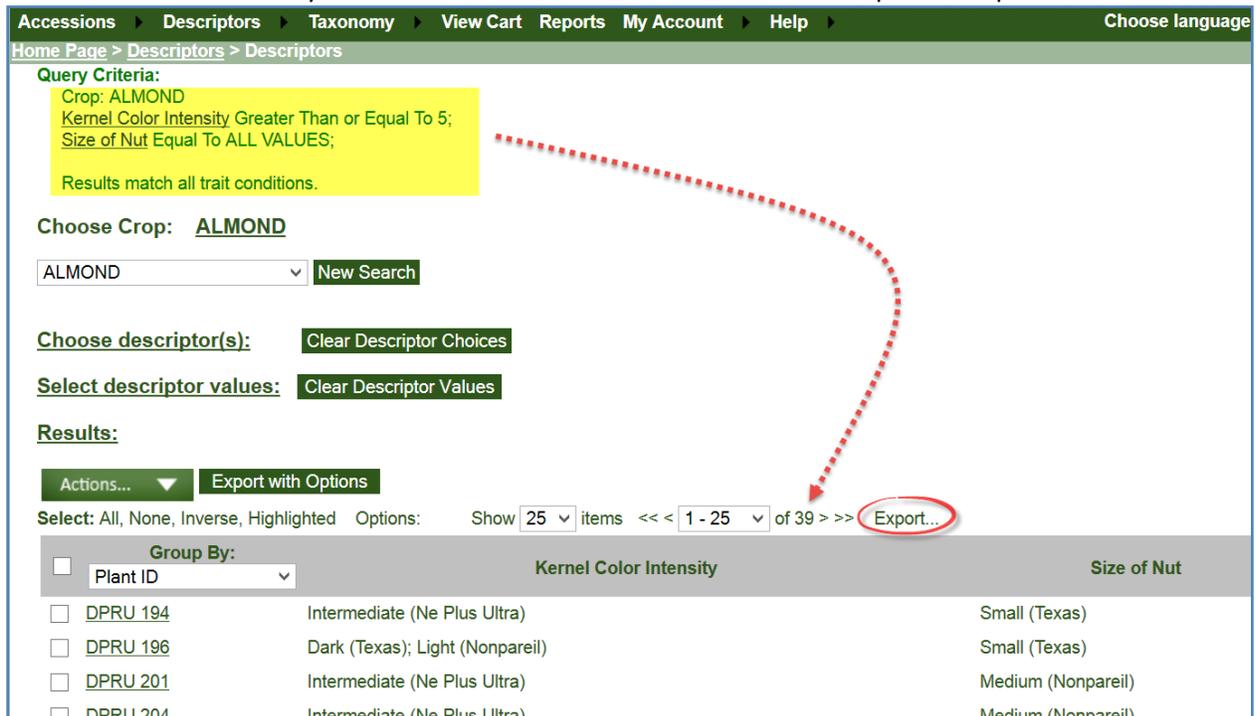
|                          |           |           |                        |
|--------------------------|-----------|-----------|------------------------|
| <input type="checkbox"/> | PI 251021 | SHORT DAY | 3 (1 = POOR, 9 = MOST) |
|--------------------------|-----------|-----------|------------------------|

Show  items << <  of 1 > >>

## Observations (Traits / Descriptors)

The trait observation tables hold the crop-specific characteristic/evaluation data for all accessions and inventory. To display observations, click the Descriptors option; select a crop in the dropdown. (In the GG database, every species is mapped to one or more crops.) If the crop has any recorded observations, the descriptors (traits) which have recorded observations will display. Selecting the descriptors and then providing search criteria will enable you to locate accessions having specific attributes.

After a successful search, GG will display a list of accessions which have observations matching the selection criteria. You may then further review the accession details or export to a spreadsheet.



The screenshot shows the GG database interface for searching observations. The top navigation bar includes links for Accessions, Descriptors, Taxonomy, View Cart, Reports, My Account, and Help, along with a language selection option. The breadcrumb trail is Home Page > Descriptors > Descriptors. The Query Criteria section is highlighted in yellow and contains: Crop: ALMOND, Kernel Color Intensity Greater Than or Equal To 5; Size of Nut Equal To ALL VALUES; and Results match all trait conditions. Below this, the 'Choose Crop' dropdown is set to ALMOND with a 'New Search' button. The 'Choose descriptor(s):' section has a 'Clear Descriptor Choices' button, and the 'Select descriptor values:' section has a 'Clear Descriptor Values' button. The Results section shows an 'Actions...' dropdown and an 'Export with Options' button. The search results are displayed in a table with columns for Plant ID, Kernel Color Intensity, and Size of Nut. The table shows four rows of data for accessions DPRU 194, 196, 201, and 204. A red dotted arrow points from the 'Export...' button in the search results to the 'Export...' button in the table's pagination area.

Accessions ▶ Descriptors ▶ Taxonomy ▶ View Cart Reports My Account ▶ Help ▶ Choose language

Home Page > Descriptors > Descriptors

**Query Criteria:**  
Crop: ALMOND  
Kernel Color Intensity Greater Than or Equal To 5;  
Size of Nut Equal To ALL VALUES;  
Results match all trait conditions.

**Choose Crop:** ALMOND  
ALMOND ▼ New Search

**Choose descriptor(s):** Clear Descriptor Choices

**Select descriptor values:** Clear Descriptor Values

**Results:**  
Actions... ▼ Export with Options

Select: All, None, Inverse, Highlighted Options: Show 25 ▼ items << < 1 - 25 ▼ of 39 >> Export...

| Group By:                           | Kernel Color Intensity          | Size of Nut        |
|-------------------------------------|---------------------------------|--------------------|
| <input type="checkbox"/> Plant ID ▼ |                                 |                    |
| <input type="checkbox"/> DPRU 194   | Intermediate (Ne Plus Ultra)    | Small (Texas)      |
| <input type="checkbox"/> DPRU 196   | Dark (Texas); Light (Nonpareil) | Small (Texas)      |
| <input type="checkbox"/> DPRU 201   | Intermediate (Ne Plus Ultra)    | Medium (Nonpareil) |
| <input type="checkbox"/> DPRU 204   | Intermediate (Ne Plus Ultra)    | Medium (Nonpareil) |

## Observations

You can work with accessions and their observations by coming from two different directions:

1. you can start with an accession, (or group of accessions), and use them to display their related observations  
or
2. select traits (characteristics) for a specific crop, and then set up search criteria using the recorded values of specific traits

## By Accession (1<sup>st</sup> Alternative)

# GRIN-Global 1.9.2

**Test only, orders created here will not be filled**



Accessions ▶ Descriptors ▶ Taxonomy ▶ View Cart Reports My Account ▶ Tools ▶ Help

Home Page > Accessions > General

Search For:  ?

[Search Options](#) | [Advanced Search](#)

Return up to  accessions

Match All Terms  Allow Multiple Lines

Retrieve:  ▼

- Web Search Overview
- Web Search Observation

1

2

Accessions ▶ Descriptors ▶ Taxonomy ▶ View Cart Reports My Account ▶ Help ▶ Choose language

Home Page > Accessions > General

**Query Criteria:**  
Search String: pi 500000

Search For: pi 500000 ?

[Search Options](#) | [Advanced Search](#)

Return up to  accessions

Match All Terms  Allow Multiple Lines

Retrieve:  ▼

- Web Search Observation
- Web Search Overview
- Web Search Observation

Actions...

Select: All, None, Inverse, Highlighted [Options](#): Show  items << < 1 - 1 > of 1 >> [Export...](#)

| Group By:                                 | Growth Habit    | 1000 Kernel Weight | Straw Color | Kernel Color | Soil-Borne Mosaic Virus              |
|---|-----------------|--------------------|-------------|--------------|--------------------------------------|
| <input type="checkbox"/> Plant ID         |                 |                    |             |              |                                      |
| <input type="checkbox"/> <u>PI 500000</u> | F - FACULTATIVE | 29.70000           | 5 - PURPLE  | 7 - TAN      | 3 - (1 = RESISTANT, 9 = SUSCEPTIBLE) |

Show  items << < 1 - 1 > of 1 >>

## By Descriptor (2<sup>nd</sup> Alternative)

When using this approach, you select a crop, and then for the crop you select from the various descriptors. For each descriptor, you select a value (or values), and the comparison parameters: (Any), Equal To, Greater Than or Equal To, Not Equal To, or Less Than or Equal To.

The screenshot shows a web application interface for searching crop descriptors. At the top, there is a navigation bar with links: Accessions, Descriptors, Taxonomy, View Cart, Reports, My Account, and Help. Below this is a breadcrumb trail: Home Page > Descriptors > Descriptors. The main content area is titled "Choose Crop: WHEAT" and includes a dropdown menu for "WHEAT" and a "New Search" button. Below this, there are sections for "Choose descriptor(s):" with a "Clear Descriptor Choices" button, and "Select descriptor values:" with a "Clear Descriptor Values" button. There are also radio buttons for "Results Match:" with options: "All Conditions" (selected), "Any Condition", and "Results have observation data for all selected descriptors". The interface is divided into four panels for different descriptors: "1000 Kernel Weight (52915)", "Kernel Color (53347)", "Growth Habit (56153)", and "Straw Color (24332)". Each panel has a comparison dropdown set to "Equal To" and a list of values. In the "Kernel Color" panel, values 5=PURPLE, 6=RED, 7=TAN, and 8=WHITE/AMBER are visible. In the "Growth Habit" panel, values F=FACULTATIVE, F-S=FACULTATIVE TYPE MIXED WITH SOME SPRING TYPES, F-W=FACULTATIVE TYPE MIXED WITH SOME WINTER TYPES, and S=SPRING are visible. In the "Straw Color" panel, values 2=BLUE, 3=BROWN, 4=GREY, and 5=PURPLE are visible.

When selecting multiple values, hold the Ctrl or Shift keys and click on multiple values:

This close-up shows the "Kernel Color (53347)" descriptor selection interface. It features a comparison dropdown set to "Equal To" and a list of values: 1=BLACK, 2=BLUE, 3=BROWN, and 4=GREY. A mouse cursor is shown clicking on the 2=BLUE value, and the 2=BLUE, 3=BROWN, and 4=GREY values are highlighted in blue, indicating that multiple values are being selected.

Accessions > Descriptors > Taxonomy > View Cart Reports My Account > Help >  
 Home Page > Descriptors > Descriptors

Choose Crop: **WHEAT**  
 WHEAT [v] New Search

Choose descriptor(s): Clear Descriptor Choices

Select descriptor values: Clear Descriptor Values

Results Match:  All Conditions  Any Condition  Results have observation data for all selected descriptors

|   |   |
|---|---|
| <p><b>1000 Kernel Weight (52915)</b></p> <p>Equal To [v]</p> <p>29.7 [^]<br/>       29.8<br/>       29.9<br/>       30 [v]</p>  | <p><b>Kernel Color (53347)</b></p> <p>Equal To [v]</p> <p>5=PURPLE [^]<br/>       6=RED<br/>       7=TAN [v]<br/>       8=WHITE/AMBER [v]</p> |
| <p><b>Growth Habit (56153)</b></p> <p>Equal To [v]</p> <p>F=FACULTATIVE [^]<br/>       F-S=FACULTATIVE TYPE MIXED WITH SOME SPRING TYPES<br/>       F-W=FACULTATIVE TYPE MIXED WITH SOME WINTER TYPES<br/>       S=SPRING [v]</p> | <p><b>Straw Color (24332)</b></p> <p>Equal To [v]</p> <p>2=BLUE [^]<br/>       3=BROWN<br/>       4=GREY<br/>       5=PURPLE [v]</p>          |

Accessions > **Descriptors** > Taxonomy > View Cart Reports My Account > Help >  
 Home Page > Descriptors > Descriptors

**Query Criteria:**  
 Crop: WHEAT  
 1000 Kernel Weight Equal To 29.7;  
 Growth Habit Equal To F;  
 Kernel Color Equal To 7;  
 Straw Color Equal To 5;

Results match all trait conditions.

Choose Crop: **WHEAT**  
 WHEAT [v] New Search

Choose descriptor(s): Clear Descriptor Choices

Select descriptor values: Clear Descriptor Values

**Results:**

Actions... [v] Export with Options

Select: All, None, Inverse, Highlighted Options: Show All [v] items << 1 - 1 [v] of 1 >> Export...

| Group By:                             | 1000 Kernel Weight | Growth Habit | Kernel Color | Straw Color |
|---------------------------------------|--------------------|--------------|--------------|-------------|
| <input type="checkbox"/> Plant ID [v] |                    |              |              |             |
| <input type="checkbox"/> PI 500000    | 29.7               | FACULTATIVE  | TAN          | PURPLE      |

Show All [v] items << 1 - 1 [v] of 1 >>

## Descriptors (Observations)

### Observations Overview

The trait observation tables hold the crop-specific characteristic/evaluation data for all accessions and inventory. Crops are determined by taxonomy – in GRIN-Global species are aggregated under a “crop.” (It is possible for a species to be included in multiple crops.)

To display observations, click the **Descriptors** option; select a crop in the dropdown. (In the GG database, every species is mapped to one or more crops.) If the crop has any recorded observations, the descriptors (traits) which have recorded observations will display. Selecting the descriptors and then providing search criteria will enable you to locate accessions having specific attributes.

### Determine Which Species are in the Crop

You can display a list of species in a crop – click the **Descriptors** option; select a crop in the dropdown:

GRIN-Global 1.9.2 Test only, orders created here will not be filled

Accessions ▶ Descriptors **1** Taxonomy ▶ View Cart Reports My Account ▶ Tools ▶ Help

Home Page > Descriptors > Descriptors

Choose Crop:

-- Select One -- **2** Search

**3** AMARANTH  
APIUM  
APPLE  
APRICOT  
ARRACACHA  
ARTICHOKE  
ASPARAGUS

GLOBAL CROP DIVERSITY TRUST  
A FOUNDATION FOR FOOD SECURITY

Bioversity International

das

USDA

Click the **Crop** link:

Accessions ▶ Descriptors ▶ Taxonomy ▶ View Cart Reports

Home Page > Descriptors > Descriptors

Choose Crop: **4** APPLE

APPLE Go to crop page Search

Click **List of Species**:

Accessions ▶ Descriptors ▶ Taxonomy ▶ View Cart Reports My Account ▶ Tools ▶ Help ▶

**APPLE**

Contains characteristic data on Apple (Malus) accessions as proposed by the Apple Crop Germplasm Committee (CGC). contact the Plant Genetic Resources Unit, Geneva, NY 14456-0462, 315-787-2390.

[List of Descriptors](#) [List of Genetic Markers](#) [List of Species](#) **5** [List of Citations](#) (containing accessions in crop)

## Selecting Descriptors

Select **Descriptors** from the main menu. Select a crop from the dropdown – if the crop has accessions with recorded observations, the descriptors will be listed. At that point, select the desired evaluations and characterizations. Click in any checkbox to select the corresponding descriptor; select multiple descriptors as desired.

Accessions > **Descriptors** 1 > Taxonomy > View Cart Reports My Account > Tools >  
Home Page > Descriptors > Descriptors

Choose Crop: **PHASEOLUS**

PHASEOLUS 2 New Search

Choose descriptor(s): Clear Descriptor Choices

Disease descriptors (DISEASE)  
Choose All Disease Descriptors Clear All Disease Descriptors

ANTHRACDIF  BCMVDIFF  FUSDIFF  HALOBL\_R4  RUST  
 BACTBLIGHT  DISREACT  HALOBL\_R1  HALOBL\_R6  RUSTDIFF  
 BACWT\_B528  FUSARIUM1  HALOBL\_R2  HALODIFF9  WHITEMOLD  
 BACWT\_B557  FUSARIUM4  HALOBL\_R3  PATHTEST  WHITEMOLD2  
 BACWT\_B597  FUSARIUM5



Roll the mouse over the descriptor name to display its description:

Disease descriptors (DISEASE)  
Choose All Disease Descriptors Clear All Disease Descriptors

ANTHRACDIF  BCMVDIFF  FUSDIFF  HALOBL\_R4  RUST  
 BACTBLIGHT  DISREACT  HALOBL\_R1  HALOBL\_R6  RUSTDIFF  
 BACWT\_B528  FUSARIUM1  HALOBL\_R2  HALODIFF9  WHITEMOLD  
 BACWT\_B557  FUSARIUM4  HALOBL\_R3  PATHTEST  WHITEMOLD2  
 BACWT\_B597  FUSARIUM5

Bacterial wilt (Curtobacterium flaccumfaciens pv. flaccumfaciens) resistance, using yellow isolate(B528)

## Search Options

In the example below, two descriptors, **Budbreak** and **Fruit Texture** were selected. In their respective boxes, you can see how many accessions have an observation for that description. In the example, there are 114 **Budbreak** observations and 3255 accession records observed for **Fruit Texture**.

(Notice that the descriptor names are underlined. When clicked, these links display the trait's detailed description page. (example in the second screen below) The description page in turn also has additional links.)

APPLE

**Choose descriptor(s):**

**Select descriptor values:**

Results Match:  All Conditions  Any Condition  Results have observation data for all selected descriptors

|  |   |
|--|---|
| <p><b>BUDBREAK (114)</b></p> <p>(Any)</p> <p>1=Dormant<br/>2=Firstswell<br/>3=Fullswell<br/>4=Budburst</p> | <p><b>FRUIT TEXTURE (3255)</b></p> <p>(Any)</p> <p>1=FINE<br/>2=MEDIUM<br/>3=COARSE</p> |
|--|---|

**Descriptor: BUDBREAK (BUDBREAK)**

|                    |   |
|--------------------|---|
| <b>Definition:</b> | TIME OF BUDBREAK RELATIVE TO STD BASED ON SCALE 1-4; 1-DORMANT; 2-FIRSTSWELL, 3-FULLSWELL; 4-BUDBURST. READ 3xS AT WEEKLY INTERVALS IN SPRING TO DEVELOP 4 POINT SCALE. |
| <b>Crop:</b>       | APPLE   |
| <b>Category:</b>   | Phenological descriptors  |
| <b>Status:</b>     | Crop Germplasm Committee approved   |

### *Using Multiple Conditions to Filter Descriptors*

You can indicate if all or any of the conditions must be met in order that the accessions are listed. An additional option can be used to specify that all of the descriptors must have data that match all of the multiple criteria, typically producing a highly filtered subset

### All Conditions with “Results have observation data for all selected descriptors”

In the following example, only 14 accessions have both of the conditions met (Budbreak = 2 (Firstswell) and Fruit Texture = 2 (Medium)).

**Choose Crop:** APPLE

APPLE

**Choose descriptor(s):**

**Select descriptor values:**

Results Match:  All Conditions  Any Condition  Results have observation data for all selected descriptors

|   |   |
|---|---|
| <b>BUDBREAK (114)</b><br>Equal To<br>1=Dormant<br>2=Firstswell<br>3=Fullswell<br>4=Budburst | <b>FRUIT TEXTURE (3255)</b><br>Equal To<br>1=FINE<br>2=MEDIUM<br>3=COARSE |
|---|---|

**Results:**

Select: All, None, Inverse, Highlighted Options: Show 10 items << < 1 - 14 > of 14 >> Export...

| <input type="checkbox"/> | Group By: Plant ID | BUDBREAK   | FRUIT TEXTURE | <input type="button" value="+"/> |
|--------------------------|--------------------|------------|---------------|----------------------------------|
| <input type="checkbox"/> | PI 588782          | Firstswell | MEDIUM        |                                  |
| <input type="checkbox"/> | PI 588823          | Firstswell | MEDIUM        |                                  |
| <input type="checkbox"/> | PI 588852          | Firstswell | MEDIUM        |                                  |
| <input type="checkbox"/> | PI 588869          | Firstswell | MEDIUM        |                                  |
| <input type="checkbox"/> | PI 588876          | Firstswell | MEDIUM        |                                  |
| <input type="checkbox"/> | PI 588974          | Firstswell | MEDIUM        |                                  |

**Any Condition with “Results have observation data for all selected descriptors”**

In the following example, 64 accessions have values for both descriptors, but they at least one of descriptors conditions must be met (Budbreak = 2 (Firstswell) or Fruit Texture = 2 (Medium)).

**Choose Crop:** APPLE

APPLE

**Choose descriptor(s):**

**Select descriptor values:**

Results Match:  All Conditions  Any Condition  Results have observation data for all selected descriptors

|   |   |
|---|---|
| <b>BUDBREAK (114)</b><br>Equal To <input type="text"/><br>1=Dormant<br><b>2=Firstswell</b><br>3=Fullswell<br>4=Budburst | <b>FRUIT TEXTURE (3255)</b><br>Equal To <input type="text"/><br>1=FINE<br><b>2=MEDIUM</b><br>3=COARSE |
|---|---|

**Results:**

Select: All, None, Inverse, Highlighted Options: Show  items << <  of **64** >

| <input type="checkbox"/> | Group By: <input type="text" value="Plant ID"/> | BUDBREAK          | FRUIT TEXTURE | <input type="button" value="+"/> |
|--------------------------|---|-------------------|---------------|----------------------------------|
| <input type="checkbox"/> | <a href="#">PI 588774</a>                       | <b>Firstswell</b> |               |                                  |
| <input type="checkbox"/> | <a href="#">PI 588782</a>                       | Firstswell        | <b>MEDIUM</b> |                                  |
| <input type="checkbox"/> | <a href="#">PI 588786</a>                       | Firstswell        |               |                                  |
| <input type="checkbox"/> | <a href="#">PI 588787</a>                       | Firstswell        |               |                                  |
| <input type="checkbox"/> | <a href="#">PI 588809</a>                       | Firstswell        |               |                                  |
| <input type="checkbox"/> | <a href="#">PI 588822</a>                       | Firstswell        |               |                                  |
| <input type="checkbox"/> | <a href="#">PI 588823</a>                       | Firstswell        | MEDIUM        |                                  |
| <input type="checkbox"/> | <a href="#">PI 588824</a>                       | Firstswell        |               |                                  |
| <input type="checkbox"/> | <a href="#">PI 588852</a>                       | Firstswell        | MEDIUM        |                                  |

**Any Condition** (but “**Results have observation data for all selected descriptors**” is not selected)  
 In the following example, the accessions have *either* condition met (Budbreak = 2 (Firstswell) and Fruit Texture = 2 (Medium), but they do not need to have a value for both conditions.

**Choose Crop:** APPLE

APPLE

**Choose descriptor(s):**

**Select descriptor values:**

Results Match:  All Conditions  Any Condition  Results have observation data for all selected descriptors

**BUDBREAK (114)**

Equal To

1=Dormant   
 2=Firstswell   
 3=Fullswell  
 4=Budburst

**FRUIT TEXTURE (3255)**

Equal To

1=FINE   
 2=MEDIUM   
 3=COARSE

**Results:**

Select: All, None, Inverse, Highlighted Options: Show  items << <  of  > >>

| Group By:                |   | FRUIT TEXTURE | BUDBREAK                         |
|--------------------------|---|---------------|----------------------------------|
| <input type="checkbox"/> | Plant ID <input type="button" value="v"/> |               | <input type="button" value="+"/> |
| <input type="checkbox"/> | PI 588745                                 | MEDIUM        |                                  |
| <input type="checkbox"/> | PI 588746                                 | MEDIUM        |                                  |
| <input type="checkbox"/> | PI 588748                                 | MEDIUM        |                                  |
| <input type="checkbox"/> | PI 588750                                 | MEDIUM        |                                  |
| <input type="checkbox"/> | PI 588751                                 | MEDIUM        |                                  |
| <input type="checkbox"/> | PI 588755                                 | MEDIUM        |                                  |
| <input type="checkbox"/> | PI 588756                                 | MEDIUM        |                                  |

# Taxonomy

The options for searching for accessions using taxonomy criteria are varied. For example, you can search by species, genera, or families; by world economic data; or by crop wild relatives.

You can also click on the Taxonomy link on the search results page to launch a Taxonomy summary page related to the accession. The Taxonomy page includes a summary of related taxonomic information, the number of accessions in the GG database, common names, economic importance information, and links to other related pages.



On the public website pages, as with most internet pages, underlined text indicates a link that can be clicked to display a related page.

| Group By:  | Plant Name               | Taxonomy                            | Origin                  | Material               | Main                |
|--|--------------------------|-------------------------------------|-------------------------|------------------------|---------------------|
| <input type="checkbox"/> Plant ID                  |                          |                                     |                         |                        |                     |
| <input type="checkbox"/> <a href="#">PI 638755</a> | V. oxycoccus MD Allen 10 | <a href="#">Vaccinium oxycoccus</a> | United States, Maryland | Plant Seed<br>In vitro | <a href="#">COR</a> |



[Accessions](#) ▶ [Descriptors](#) ▶ [Taxonomy](#) ▶ [View Cart](#) [Reports](#) [My Account](#) ▶ [Help](#) ▶

### Taxon: *Vaccinium oxycoccus* L.

|                           |  |
|---------------------------|--|
| Genus:                    | <a href="#">Vaccinium</a>  |
| Section:                  | <a href="#">Oxycoccus</a>  |
| Family:                   | <a href="#">Ericaceae</a>  |
| Subfamily:                | <a href="#">Vaccinioideae</a>  |
| Tribe:                    | <a href="#">Vaccinieae</a>   |
| Nomen number:             | 41047  |
| Place of publication:     | Sp. pl. 1:351. 1753  |
| Name Verified on:         | 14-Jan-2010 by ARS Systematic Botanists. Last Changed: 14-Jan-2010   |
| Species priority site is: | Natl. Germplasm Repository - Corvallis ( <a href="#">COR</a> )       |
| Accessions:               | 101 in National Plant Germplasm System ( <a href="#">GoogleMap</a> ) |

### Common names:

- **cranberry** (Source: [Herbs Commerce ed2](#)) - English

## Advanced Query of Species Data

The Advanced Query of Species Data option provides a window of options in which you can indicate the family, genus, or species, as well as other conditions.



Accessions ▶ Descriptors ▶ Taxonomy ▶ View Cart Reports My Account ▶ Tools ▶ Help ▶

Home Page > Taxonomy > Advanced Query of Species Data

- Simple Query Species Data
- Families and Genera Query
- World Economic Plants in GRIN
- Crop Wild Relative Data in GRIN
- About GRIN Taxonomy for Plants

Advanced Query of GRIN TAXONOMY Species Data

Any or all fields can be searched. The values could be selected from list boxes by using shift or control key.

Accessions ▶ Descriptors ▶ Taxonomy ▶ View Cart Reports My Account ▶ Tools ▶ Help ▶

Home Page > Taxonomy > Advanced Query of Species Data

### Advanced Query of GRIN TAXONOMY Species Data

Any or all fields can be searched. Wild cards (\*) are accepted. Multiple values could be selected from list boxes by using shift or control key.

Genus or species name:  (e.g. *Arachis* or *Zea Mays* [without author])

Family(ies):  ALL FAMILIES  
all pteridophytes  
all gymnosperms  
all angiosperms  
plant pathogens  
Abaminaceae

Common name:  (e.g. maize [no diacritics])

Native distribution: Continent: ALL CONTINENTS ▼ Region: ALL REGIONS ▼

ALL COUNTRIES  
Afghanistan  
Albania

## Simple Query Species Data

The series of windows below illustrate a search by species (using a wildcard):



Accessions ▶ Descriptors ▶ Taxonomy ▶ View Cart Reports My Account ▶ Tools ▶ Help

Home Page > Taxonomy

**Browse By Taxonomy**

- Advanced Query of Species Data
- Simple Query Species Data
- Families and Genera Query
- World Economic Plants in GRIN
- Crop Wild Relative Data in GRIN
- About GRIN Taxonomy for Plants

Restrict to Genus that exactly



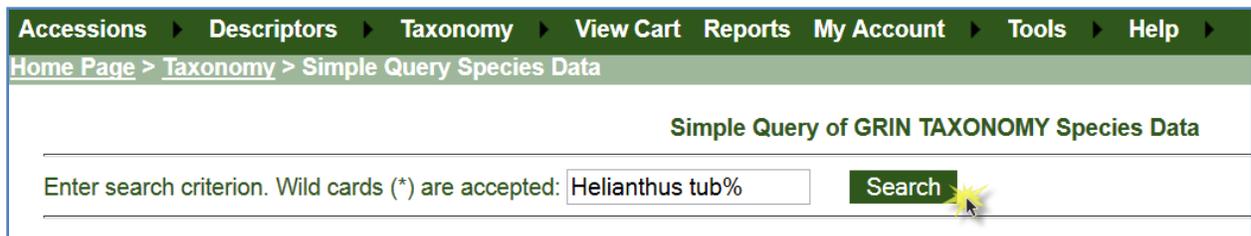
Accessions ▶ Descriptors ▶ Taxonomy ▶ View Cart Reports My Account ▶ Tools ▶ Help

Home Page > Taxonomy > Simple Query Species Data

- Advanced Query of Species Data
- Simple Query Species Data
- Families and Genera Query
- World Economic Plants in GRIN
- Crop Wild Relative Data in GRIN
- About GRIN Taxonomy for Plants

Enter search criterion. Wild cards

Search



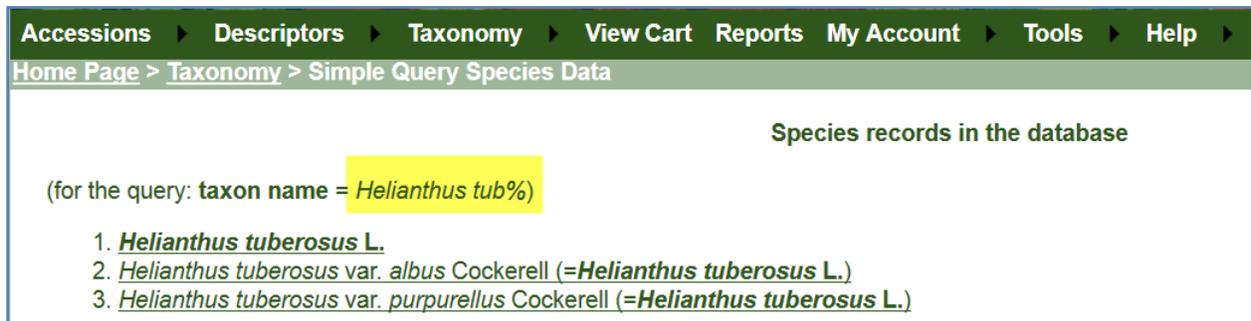
Accessions ▶ Descriptors ▶ Taxonomy ▶ View Cart Reports My Account ▶ Tools ▶ Help

Home Page > Taxonomy > Simple Query Species Data

Simple Query of GRIN TAXONOMY Species Data

Enter search criterion. Wild cards (\*) are accepted: Helianthus tub% Search

Results:



Accessions ▶ Descriptors ▶ Taxonomy ▶ View Cart Reports My Account ▶ Tools ▶ Help

Home Page > Taxonomy > Simple Query Species Data

Species records in the database

(for the query: taxon name = Helianthus tub%)

1. *Helianthus tuberosus* L.
2. *Helianthus tuberosus* var. *albus* Cockerell (= *Helianthus tuberosus* L.)
3. *Helianthus tuberosus* var. *purpurellus* Cockerell (= *Helianthus tuberosus* L.)

## Families and Genera Query

**Accessions** ▶ **Descriptors** ▶ **Taxonomy** ▶ **View Cart** **Reports** **My Account** ▶ **Tools** ▶ **Help** ▶

[Home Page](#) > [Taxonomy](#) > [Families and Genera Query](#)

Advanced Query of Species Data  
Simple Query Species Data  
**Families and Genera Query** **Families and Genera in GRIN TAXONOMY**  
World Economic Plants in GRIN  
Crop Wild Relative Data in GRIN  
GRIN Taxonomy for Plants Family/Genus Query  
About GRIN Taxonomy for Plants

Any or all fields can be searched.

**Accessions** ▶ **Descriptors** ▶ **Taxonomy** ▶ **View Cart** **Reports** **My Account** ▶ **Tools** ▶ **Help** ▶

[Home Page](#) > [Taxonomy](#) > [Families and Genera Query](#)

### Families and Genera in GRIN TAXONOMY

Any or all fields can be searched. Wild cards (\*) are accepted.

Include miscellaneous pathogens  
 Include pteridophytes  
 Include gymnosperms  
 Include angiosperms

Family name:  ( Family list:  )  
 Exclude infrafamilial names

Genus name:  (e.g. *Zizania* )  
 Exclude infrageneric names

Restrict to just accepted names

## World Economic Plants

You can select accessions based on how Taxonomy has been associated with economic classes.

Accessions ▸ Descriptors ▸ Taxonomy ▸ View Cart Reports My Account ▸ Tools ▸ Help ▸

Home Page > Taxonomy > World Economic Plants

- Advanced Query of Species Data
- Simple Query Species Data
- Families and Genera Query
- World Economic Plants in GRIN**
- World Economic Plants in GRIN (World Economic Plants: A Standard Reference)
- Crop Wild Relative Data in GRIN
- About GRIN Taxonomy for Plants

Any or all fields can be searched. The values could be selected from list boxes by using shift or control key.

Common name:  (e.g. maize [no diacritics])

Native distribution:

Country(ies):  State/Province:  (e.g. Alabama)

Include synonyms  
 Restrict to native

Select economic class(es):  
Selections will be made on the basis of the following criteria:  
Use the less restrictive criteria first.  
 "OR" Class(es):

Choose Class 1:  Choose Subclass 1:

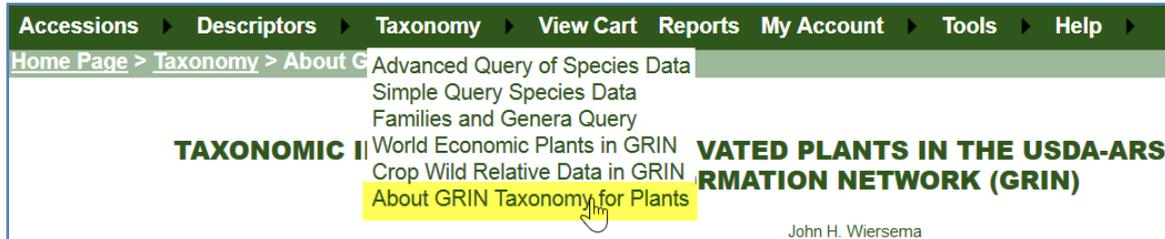
Active "AND" (both 1st [Sub]Class AND 2nd [Sub]Class).  
OR 2nd [Sub]Class by checking the appropriate box(es) immediately below.

- All Classes
- Animal food
- Bee plants
- Environmental
- Food additives
- Fuels
- Gene sources
- Harmful organism host
- Human food
- Invertebrate food
- Materials
- Medicines
- Non-vertebrate poisons
- Rare or Endangered (CITES)
- Social
- Vertebrate poisons
- Weed



## About GRIN

The information provided in these pages was originally included in the USDA GRIN database. "...The taxonomic portion of GRIN provides the classification and nomenclature for these genetic resources and many other economic plants on a worldwide basis." Use the links as shown in the second window below to pursue more details about the taxonomy data.



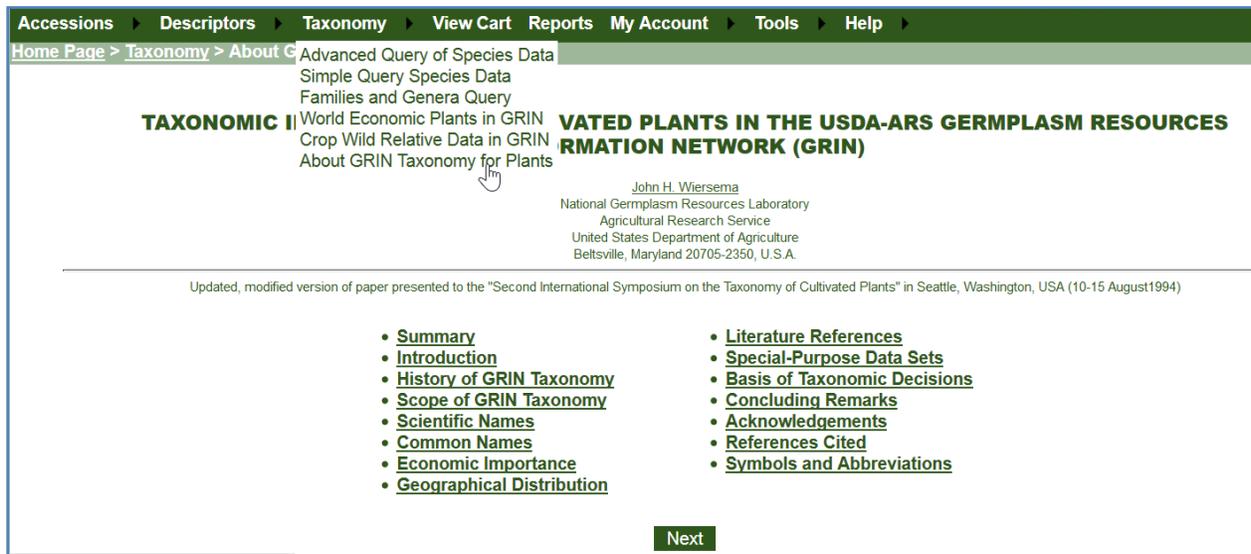
Accessions ▶ Descriptors ▶ Taxonomy ▶ View Cart Reports My Account ▶ Tools ▶ Help ▶

Home Page > Taxonomy > About GRIN

- Advanced Query of Species Data
- Simple Query Species Data
- Families and Genera Query
- World Economic Plants in GRIN
- Crop Wild Relative Data in GRIN
- About GRIN Taxonomy for Plants

**TAXONOMIC II CULTIVATED PLANTS IN THE USDA-ARS GERmplasm RESOURCES INFORMATION NETWORK (GRIN)**

John H. Wiersema



Accessions ▶ Descriptors ▶ Taxonomy ▶ View Cart Reports My Account ▶ Tools ▶ Help ▶

Home Page > Taxonomy > About GRIN

- Advanced Query of Species Data
- Simple Query Species Data
- Families and Genera Query
- World Economic Plants in GRIN
- Crop Wild Relative Data in GRIN
- About GRIN Taxonomy for Plants

**TAXONOMIC II CULTIVATED PLANTS IN THE USDA-ARS GERmplasm RESOURCES INFORMATION NETWORK (GRIN)**

John H. Wiersema  
National Germplasm Resources Laboratory  
Agricultural Research Service  
United States Department of Agriculture  
Beltsville, Maryland 20705-2350, U.S.A.

Updated, modified version of paper presented to the "Second International Symposium on the Taxonomy of Cultivated Plants" in Seattle, Washington, USA (10-15 August 1994)

- [Summary](#)
- [Introduction](#)
- [History of GRIN Taxonomy](#)
- [Scope of GRIN Taxonomy](#)
- [Scientific Names](#)
- [Common Names](#)
- [Economic Importance](#)
- [Geographical Distribution](#)
- [Literature References](#)
- [Special-Purpose Data Sets](#)
- [Basis of Taxonomic Decisions](#)
- [Concluding Remarks](#)
- [Acknowledgements](#)
- [References Cited](#)
- [Symbols and Abbreviations](#)

Next

# Register

## Register Now

A Public Website user does not need to Login in order to search the GG database. However, we recommend that you register if you will be ordering germplasm. When registering, you will designate a **GRIN-Global User Name** and **Password** and some basic information. When you order, GG will use your shipping information (which you can adjust/modify at the time of the order).

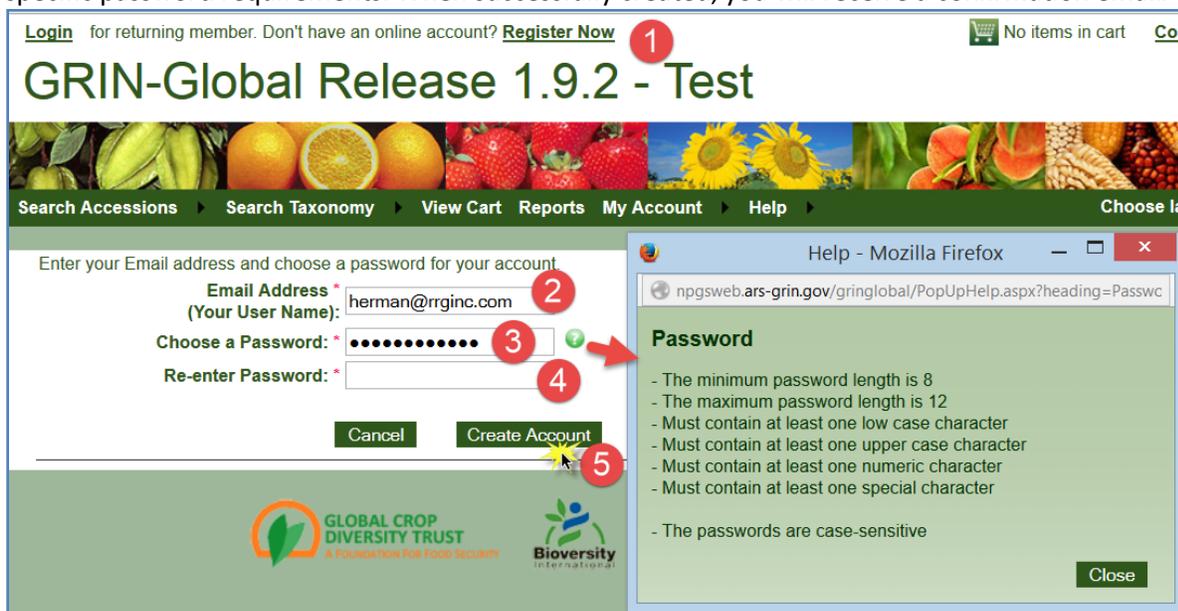


Genebank personnel using an internal application such as the Curator Tool need to have a separate PW account. Two accounts because these programs are distinct applications.

To register, click the **Register Now** link on the main window. Complete the email address and password information. (Your email address will become your **User Name**.)



The small green Help icon next to the first password field will launch a help window which details the specific password requirements. When successfully created, you will receive a confirmation email.



## Log-In Information Page

On the registration page, complete your contact information. Click the checkbox to copy the information to the respective shipping address:

Logout herman@rrginc.com No items in cart Contact Us

# GRIN-Global Release 1.9.2 - Test

Search Accessions Search Taxonomy View Cart Reports My Account Help

### Log-in Information [Edit](#)

Login User Name: herman@rrginc.com  
Password: \*\*\*\*

Please enter your information

Title:

\*First Name:

\*Last Name:

Organization:

\*Address Line 1:

Address Line 2:

Address Line 3:

\*Country:

\*City:

Shipping Address:

Shipping Address is same

\*Address Name:

\*Shipping Address Line 1:

Shipping Address Line 2:

Shipping Address Line 3:

\*Shipping Country:

\*Shipping City:

## My Account

### Editing Your Contact Information

Whenever you are logged in, you can update your contact information – click on **My Account** on the menu. Click the respective **Edit** button to update your password or your contact information:

# GRIN-Global Release 1.9.2 (Development)

Accessions Descriptors Taxonomy View Cart Reports My Account Tools Help

Home Page > My Account

[My Order History](#) [My Preference](#) [My Address Book](#) [My Favorites](#)

### Log-in Information [Edit](#)

Login User Name: mar@ars.usda.gov  
Password: \*\*\*\*

Please review your information below. Make any changes by clicking "Edit" link if necessary.

### Requestor Information [Edit](#)

Title: Mr.  
First Name: Martin  
Last Name: Re

Organization:

Name: ARS / NPGS / DBMU

Address Line 1: 10300 Baltimore Avenue

Address Line 2: Bldg 002

Shipping Address:

Shipping Address Line 1: 10300 Baltimore Avenue

Shipping Address Line 2: Bldg 002

## Login

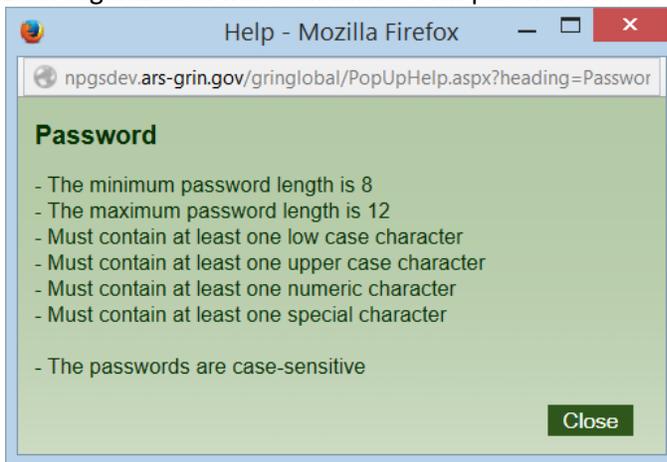
A Public Website user does not need to Login in order to search the GG database. However, we recommend that you [register](#) if you will be ordering germplasm. When registering, you will designate a **GRIN-Global User Name** and **Password** and some basic information. When you order, GG will use your shipping information (which you can adjust/modify at the time of the order).

### *User Name*

Input your email address, since this will be used by GG to send you confirmations or orders.

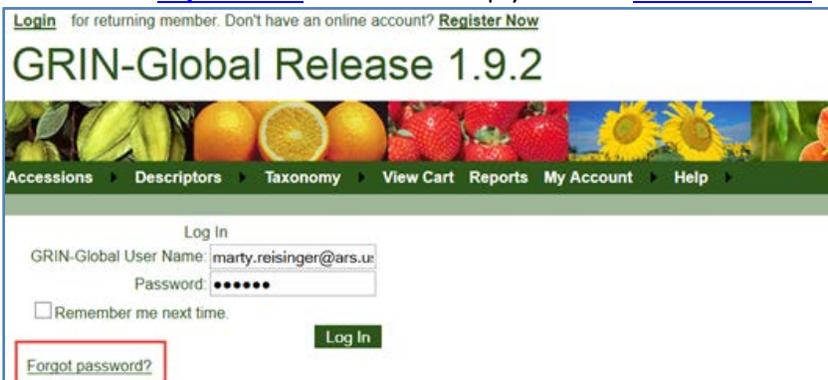
### *Password Rules*

Each organization will establish its own password rules. The rules for the USDA are as follows:



## Forgot password?

If you forget your password, at the Login window, the **Forgot password?** link will prompt you for your email address; you will immediately receive an email with a temporary password. Login using that, and then click on [My Account](#). You must comply with the [Password rules](#).



### Remember me next time

When this option is selected (checked), a cookie is set so that your computer will stay connected to GG longer than the default 20 minutes. It also will remember you throughout the browser session.

[Login](#) for returning member. Don't have an online account? [Register Now](#)

## GRIN-Global Release 1.9.2

Accessions > Descriptors > Taxonomy > View Cart Reports My Account > Help >

Log In

GRIN-Global User Name:

Password:

Remember me next time.

[Forgot password?](#)

## My Order History

A history of your orders is maintained by GRIN-Global assuming you were logged in when you made the order. To display your order history and to review a previous order, select **My Account | My Order History**. Click on the “view detail” link for an order to display its details.

[Logout marty.reisinger@ars.usda.gov](#)

# GRIN-Global 1.9.4

**Test only, orders created here will not be filled**



[Accessions](#) ▶ [Descriptors](#) ▶ [Taxonomy](#) ▶ [View Cart](#) [Reports](#) [My Account](#) ▶ [Tools](#) ▶ [Help](#) ▶

Home Page > [My Account](#) > [My Order History](#)

You have submitted 28 germplasm order(s).

- order placed on: **December 29, 2014**  
[view detail](#)  
 Order Request Number: 2229
- order placed on: **December 29, 2014**  
[view detail](#)  
 Order Request Number: 2225
- order placed on: **December 2, 2014**

[My Order History](#)  
[My Preference](#)  
[My Address Book](#)  
[My Favorites](#)

[Accessions](#) ▶ [Descriptors](#) ▶ [Taxonomy](#) ▶ [View Cart](#) [Reports](#) [My Account](#) ▶ [Tools](#) ▶ [Help](#) ▶

**Order Detail Number: 2229** **Order Status: SUBMITTED**

**Requestor:**  
 Martin Reisinger  
 ARS / NPGS / DBMU  
 PHONE: 410 666 0100  
 FAX:

**Ship To:**  
 201 Main Street  
 Bldg 003  
 Rm 329  
 Bville, Maryland 20705, United States

**Ordered Items (7 items):**

| ID        | Plant Name                    | Taxonomy                           | Form Distributed | Item Status | Maintained by       |
|-----------|-------------------------------|------------------------------------|------------------|-------------|---------------------|
| PI 617687 | Friedl                        | <a href="#">Ribes uva-crispa</a>   | Cutting          | NEW         | <a href="#">COR</a> |
| PI 617694 | R. fasciculatum               | <a href="#">Ribes fasciculatum</a> | Cutting          | NEW         | <a href="#">COR</a> |
| PI 617695 | R. sanguineum                 | <a href="#">Ribes sanguineum</a>   | Cutting          | NEW         | <a href="#">COR</a> |
| PI 617696 | R. cereum var. inebrins 61219 | <a href="#">Ribes cereum</a>       | Seed             | NEW         | <a href="#">COR</a> |
| PI 617704 | R. aureum                     | <a href="#">Ribes aureum</a>       | Seed             | NEW         | <a href="#">COR</a> |

## Language and Email Settings (My Preference)

### Language

The user can select which language the database fieldnames will be displayed when the database includes other languages, Currently, the US GRIN-Global system is restricted to English.



The screenshot shows the 'My Preference' page with a navigation bar at the top containing 'Accessions', 'Descriptors', 'Taxonomy', 'View Cart', 'Reports', 'My Account', 'Tools', and 'Help'. Below the navigation bar is a breadcrumb trail: 'Home Page > My Account > My Preference'. The 'My Account' menu is open, showing options: 'My Order History', 'My Preference', 'My Address Book', and 'My Favorites'. A red dashed arrow points from the 'My Preference' menu item to the 'Select Language' dropdown menu. The 'Select Language' dropdown is set to 'English'. Below the dropdown are two checked checkboxes: 'Email me a copy of my orders when placed' and 'Email me news & information about new features of GRIN-Global'. A 'Save' button is located at the bottom left of the form.

### Email Settings

The two email settings are selected by default – they may be deselected if desired.



This screenshot is identical to the one above, but with a red dashed arrow pointing from the 'My Preference' menu item to the two checked email settings checkboxes. The 'Select Language' dropdown is still set to 'English'. The 'Save' button remains at the bottom left.

## Shipping Address (My Address Book)

If you are [logged in](#), under **My Account, My Address Book**, you can edit your shipping address(es). You can establish multiple shipping addresses, and you can indicate which is to be the default account.

Logout [marty.reisinger@ars.usda.gov](#)

# GRIN-Global 1.9.2

Accessions > Descriptors > Taxonomy > View Cart > Reports > My Account > Tools > Help >

Home Page > My Account > My Address Book

Click the Edit button next to the information below to make the change.

Click here to add a new shipping address [Add a new address](#)

- My Order History
- My Preference
- My Address Book
- My Favorites

### My Address Book

|  |   |   |
|--|---|---|
| <input checked="" type="checkbox"/> <b>Default Address</b> | <b>Organization Address</b><br>201 Main Street<br>Bldg 003<br>Rm 329<br>Bville, Maryland 20705<br>United States | <a href="#">Edit</a> <a href="#">Set Default</a> <a href="#">Delete</a> |
| <input type="checkbox"/>                                   | <b>Winter Office</b><br>100 Key Largo Blvd.<br>Suite 201<br>Pensacola, Florida 20002<br>United States           | <a href="#">Edit</a> <a href="#">Set Default</a> <a href="#">Delete</a> |
| <input type="checkbox"/>                                   | <b>Summer Address</b>   | <a href="#">Edit</a> <a href="#">Set Default</a> <a href="#">Delete</a> |

## My Favorites (“Wishlist”)

As you use the GRIN-Global database, for whatever reason, you may store accession items in a “**My Favorites**” list and at a later date send some (or all) of these items to your shopping cart. You must be logged in to access **My Account**.

In the third step shown below, you can either click an an individual Item’s **Add to Order** link, or select items by their checkbox and then click the **Add Selected** link.

Logout [marty.reisinger@ars.usda.gov](mailto:marty.reisinger@ars.usda.gov) 6 items in cart [Contact Us](#) 

# GRIN-Global 1.9.2



[Accessions](#) > [Descriptors](#) > [Taxonomy](#) > [View Cart](#) [Reports](#) [My Account](#) > [Tools](#) > [Help](#)

Home Page > My Account > My Favorites

My Favorites (16 items) [Export My Favorites to](#)

My Order History (1)   
 My Preference   
 My Address Book   
 My Favorites (2)   
 Display/Manage My Favoirtes

| Select                              | ID        | Usage              | Comment | Edit                 | Remove                          |                              |
|-------------------------------------|-----------|--------------------|---------|----------------------|---------------------------------|------------------------------|
| <input type="checkbox"/>            | PI 652777 | Add to my wishlist |         | <a href="#">Edit</a> | <a href="#">Remove</a>          | Not Available                |
| <input type="checkbox"/>            | PI 652779 |                    |         | <a href="#">Edit</a> | <a href="#">Remove</a>          | Not Available                |
| <input type="checkbox"/>            | PI 667043 |                    |         | <a href="#">Edit</a> | <a href="#">Remove</a>          | Not Available                |
| <input type="checkbox"/>            | PI 652782 |                    |         | <a href="#">Edit</a> | <a href="#">Remove</a>          | Not Available                |
| <input type="checkbox"/>            | PI 652783 |                    |         | <a href="#">Edit</a> | <a href="#">Remove</a>          | Not Available                |
| <input type="checkbox"/>            | PI 647037 |                    |         | <a href="#">Edit</a> | <a href="#">Remove</a>          | Not Available                |
| <input checked="" type="checkbox"/> | PI 652052 |                    |         | <a href="#">Edit</a> | <a href="#">Remove</a>          | <a href="#">Add To Order</a> |
| <input type="checkbox"/>            | PI 652053 |                    |         | <a href="#">Edit</a> | <a href="#">Remove</a>          | <a href="#">Add To Order</a> |
| <input type="checkbox"/>            | PI 652070 |                    |         | <a href="#">Edit</a> | <a href="#">Remove</a>          | <a href="#">Add To Order</a> |
| <input type="checkbox"/>            | PI 652054 |                    |         | <a href="#">Edit</a> | <a href="#">Remove</a>          | <a href="#">Add To Order</a> |
| <input type="checkbox"/>            | Ames 2/58 |                    |         | <a href="#">Edit</a> | <a href="#">Remove</a>          | <a href="#">Add To Order</a> |
| <input type="checkbox"/>            | Ames 3209 |                    |         | <a href="#">Edit</a> | <a href="#">Remove</a>          | Not Available                |
| <a href="#">Select All</a>          |           |                    |         |                      | <a href="#">Remove Selected</a> | <a href="#">Add Selected</a> |
|                                     |           |                    |         |                      | <a href="#">Remove All</a>      |                              |

# Ordering Germplasm / Shopping Cart

## Ordering

To order germplasm, select accessions and add them to the shopping cart.

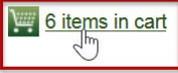
Search For:   [Search Options](#) | [Advanced Search](#)

Actions...   Options: Show  items << 1 - 25 of 25 >> Export...

| Plant ID                                      | Plant Name               | Taxonomy                            | Origin                       | Material            | Maintained By | Availability                |
|---|--------------------------|-------------------------------------|------------------------------|---------------------|---------------|-----------------------------|
| <input checked="" type="checkbox"/> PI 638755 | V. oxycoccos MD Allen 10 | <a href="#">Vaccinium oxycoccos</a> | United States, Maryland      | Plant Seed          | COR           | <a href="#">Add to Cart</a> |
| <input type="checkbox"/> PI 618017            | V. oxycoccos MD Allen 13 |                                     |                              | In-vitro Plant Seed | COR           | <a href="#">Add to Cart</a> |
| <input type="checkbox"/> PI 555018            | V. oxycoccos 90-06 NH1   | <a href="#">Vaccinium oxycoccos</a> | United States, New Hampshire | In-vitro Plant      | COR           | Not Available               |

Select the checkboxes on the left or click on the Add to Cart links

As you do so, the cart icon link near the top of the window will indicate the number of items in the cart:

 [Contact Us](#) 



## View Shopping Cart

When you click on the cart link and the cart contains items, the Shopping Cart window will display the items in a table. Some of the cells contain links so that you can further review the accession, its taxonomy, or the site information for the site where the accession is stored. If desired, you can remove items from the cart. If you still need to search for additional accessions you can, or you can proceed to the “checkout” to place your order.

Accessions > Descriptors > Taxonomy > **View Cart** Reports My Account > Tools > Help >

Home Page > View Cart

**Shopping Cart (6 Items)**

| Select                   | ID                        | Plant Name                    | Taxonomy   | Distribution Amt | Distribution Unit | Form Distributed | Maintained by |                                 |
|--------------------------|---------------------------|-------------------------------|--|------------------|-------------------|------------------|---------------|---------------------------------|
| <input type="checkbox"/> | <a href="#">PI 617687</a> | Friedl                        | <a href="#">Ribes uva-crispa</a>                 |                  |                   | Cutting          | COR           | <a href="#">Remove</a>          |
| <input type="checkbox"/> | <a href="#">PI 617694</a> | R. fasciculatum               | <a href="#">Ribes fasciculatum var. chinense</a> |                  |                   | Cutting          | COR           | <a href="#">Remove</a>          |
| <input type="checkbox"/> | <a href="#">PI 617695</a> | R. sanguineum                 | <a href="#">Ribes sanguineum</a>                 |                  |                   | Cutting          | COR           | <a href="#">Remove</a>          |
| <input type="checkbox"/> | <a href="#">PI 617696</a> | R. cereum var. inebrins 61219 | <a href="#">Ribes cereum var. cereum</a>         |                  |                   | Seed             | COR           | <a href="#">Remove</a>          |
| <input type="checkbox"/> | <a href="#">PI 617704</a> | R. aureum                     | <a href="#">Ribes aureum var. aureum</a>         |                  |                   | Seed             | COR           | <a href="#">Remove</a>          |
| <input type="checkbox"/> | <a href="#">PI 123434</a> | Hatif de Cologne              | <a href="#">Solanum lycopersicum</a>             | 50               | count             | Seed             | NE9           | <a href="#">Remove</a>          |
|                          |                           |                               |  |                  |                   |                  |               | <a href="#">Remove Selected</a> |
|                          |                           |                               |  |                  |                   |                  |               | <a href="#">Remove All</a>      |

## Adding Documents to an Order

In order to associate (“attach”) a document with an order, you must first submit the order and then review it from your Order History.

Check the order's status first before attempting to attach documents. If the order has a "SHIPPED" status, you cannot attach documents.



Accessions ▶ Descriptors ▶ Taxonomy ▶ View Cart Reports My Account ▶ Tools ▶ Help ▶

Home Page > My Account > My Order History

You have submitted 28 germplasm order(s).

order placed on:  
**December 29, 2014**  
[view detail](#)  
Order Request Number: 2229

order placed on:  
**December 29, 2014**  
[view detail](#)  
Order Request Number: 2225

My Order History  
My Preference  
My Address Book  
My Favorites

Order History

On the Order Detail page, scroll to the bottom to the “**Upload File**” section. You need to complete two steps to upload a file – first locate it on your drive or network, and then upload it.



[Accessions](#) ▶ [Descriptors](#) ▶ [Taxonomy](#) ▶ [View Cart](#) [Reports](#) [My Account](#) ▶ [Tools](#) ▶ [Help](#) ▶

---

**Order Detail Number:** 2229      **Order Status:** SUBMITTED

**Requestor:**  
 Martin Reisinger  
 ARS / NPGS / DBMU  
 PHONE: 410 666 0100  
 FAX:

**Ship To:**  
 201 Main Street  
 Bldg 003  
 Rm 329  
 Bville, Maryland 20705, United States

**Ordered Items (7 items):**

| ID        | Plant Name                    | Taxonomy                             | Form Distributed | Item Status | Maintained by        | Comments |
|-----------|-------------------------------|--------------------------------------|------------------|-------------|----------------------|----------|
| PI 617687 | Friedl                        | <a href="#">Ribes uva-crispa</a>     | Cutting          | NEW         | <a href="#">COR</a>  |          |
| PI 617694 | R. fasciculatum               | <a href="#">Ribes fasciculatum</a>   | Cutting          | NEW         | <a href="#">COR</a>  |          |
| PI 617695 | R. sanguineum                 | <a href="#">Ribes sanguineum</a>     | Cutting          | NEW         | <a href="#">COR</a>  |          |
| PI 617696 | R. cereum var. inebrins 61219 | <a href="#">Ribes cereum</a>         | Seed             | NEW         | <a href="#">COR</a>  |          |
| PI 617704 | R. aureum                     | <a href="#">Ribes aureum</a>         | Seed             | NEW         | <a href="#">COR</a>  |          |
| PI 123434 | Hatif de Cologne              | <a href="#">Solanum lycopersicum</a> | Seed             | NEW         | <a href="#">NE9</a>  |          |
| PI 500000 | Purplestraw                   | <a href="#">Triticum aestivum</a>    | Seed             | NEW         | <a href="#">NSGC</a> |          |

**Intended use for this germplasm:**  
 RESEARCH:Plant Pathological investigations. Research use notes - testing4bugs

**Special instructions for the order:**

You may have ordered accessions from more than one NPGS site and your order maybe split between sites and may be handled in different ways  
 You may receive your material in several shipments.

**Order Request Actions:**  
 No order action found.

Upload File

Browse... No file selected.

Upload 2 Note: To save and upload a document, the upload button must be pressed.

There are currently no uploaded files for this order request.