

GRIN-Global

“Detailed Structure”

GRIN-Global Components

Accessions
(MCPD)

Searching

Inventory

Requests

Cooperators

Observations

Attachments

Actions

Customization

Taxonomy

Public
Website

Wizards

GG Components

Genebank staff use:

- Curator Tool
- Search Tool
- Public Website



GG administrators also use:

- Admin Tool
- Updater



GG Components

Public Website (only)

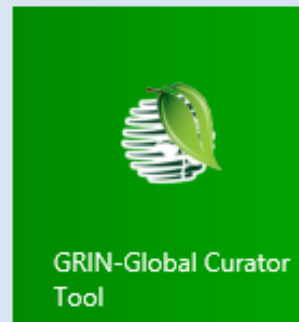
No GG software is installed;
only requires a browser



Curator Tool (& Search Tool)

CT is installed via its self-
installing .exe file

GRIN-Global.Client.Installer...exe



GRIN-Global Network Server

The GG Updater



installs the

Server Components
(Admin Tool, Middle Tier,
IIS-Web server, GG website,
Search Engine, Database Engine)



CT Interface

GRIN-Global v1.22.8.24

File Reports Tools Help

Search... Accession Wizard Attachment Wizard Cooperator Wizard Order Wizard Viability Wizard

Show lists from: Show All
Reisinger Resource Group, Inc. Include Sub-Folders

Demo Demo Root Folder
New List

Your lists & queries

Accessions Inventory Orders Cooperators ...

Genebank data

Column Chooser
Other Options

Next Prev Refresh Data

Data Editing
Edit Data Save Data Cancel

Showing rows: 0 of 0

Connected to: <https://training.ars-grin.gov/GRINGlobal/GUI.aspx>

Dataviews

Site	Accessions	Inventory	W6 Site Inventory	Orders	Order Request Item	Accession Source	Get Geography	Get Crop Trait	Get Crop Trait Observation	...
	Accession ID	Accession Prefix	Accession Number	Accession Suffix	Taxon	Name	Origin	Maintenance Site	Is Cor	
	1964734	MAR	9		Humulus lupulus	Merlot 567	Czech Republic, Central Bohemia	NC7	N	

The diagram below the table illustrates four data views and their connections to the table columns:

- Accession** (light green box): Connected to Accession ID, Accession Prefix, and Accession Number.
- Taxonomy Species** (light grey box): Connected to Taxon.
- Accession Inventory Name** (light grey box): Connected to Name.
- Accession Source** (light grey box): Connected to Origin.

Accessions

- accession records should be created immediately – initially, only a few fields are necessary
- an accession's passport data is stored in multiple tables
- the Accession Wizard facilitates data entry
- one required field is the accession's Taxon - users select the taxon from a list of *accepted* species names

3 ways to add / edit accessions

- one at a time – in the **Accession dataview**
- one at a time – via the **Accession Wizard**
– *Recommended*
- many at a time – dragging data via **a spreadsheet** into the Accession dataview

Updating GG
data via
spreadsheets

column headings' spelling
must match

The image displays two screenshots related to data management. The top screenshot shows an Excel spreadsheet with the following table structure:

Inventory ID	Inventory Prefix	Inventory Number	Inventory Suffix	Inventory Type	Accession Policy	Inventory Maintenance Site	Is Default Inventory?	Is Auto Deducted?	Is Available

The bottom screenshot shows the Curator application interface with a navigation bar containing icons for: Accession Wizard, Attachment Wizard, Cooperator Wizard, Order Wizard, and Viability Wizard. Below the navigation bar is a data table with the following columns:

Inventory ID	Inventory Prefix	Inventory Number	Inventory Suffix	Inventory Type	Accession Policy	Inventory Maintenance Site	Is Default Inventory?

Updating GG data via spreadsheets

- Column order does not matter
- Not all columns are needed

Updating GG Data via spreadsheets

- *Always include the ID column heading – but, when...*
 - **adding new** records:
the spreadsheet **ID cells are empty**
 - **updating existing** records:
the **ID fields must match** existing records' IDs


Demo

Searching

Searching (Public Website)

GRIN-Global U.S. National Plant Germplasm System [Log in](#) [New User](#)

Version: 2.3.1 [Accessions](#) [Descriptors](#) [Reports](#) [GRIN Taxonomy](#) [GRIN](#) [Help](#) [Contact Us](#) [Your Profile](#)



Select the tab for the type of search. Each tab has everything you need to do to perform that type of search.

Return up to

(Results of more than 500 will not return images.)

[Simple Search](#) [List Search](#) [Advanced Search](#) [Results](#)

Search Tool

GRIN-Global Search v1.22.8.24

Basic Query

Search Now!

Find: Default accession

Matching Any Word All Words List of Items

Search Criteria Clear Text

Search Results

Add To Query Clear Query Limit: 1000 Page Size: 1000

Accession Get Inventory Get Order Request Cooperators ...

	Accession ID	Digital Object Identifier	Accession Prefix	Accession Number	Accession Suffix	Taxon
[Empty search results]						

Showing rows: 0 of 0 | Connected to: <https://training.ars-grin.gov/GRINGlobal/GUI.aspx>

Query-by-example

Searching / Dynamic Folders

To create a dynamic folder

The screenshot displays the GRIN-Global v1.22.8.24 interface. On the left, a folder tree is visible under 'Vitis DEMO', showing folders like '00_empty', 'Accessions-H.lupulus', 'Unfilled 2022 Requests', 'New List (2)', 'RRG 3 acc', 'MAR_3_RRG', and 'MAR_8_RRG'. A dashed orange arrow points from the search criteria in the search window to the 'Unfilled 2022 Requests' folder. The search window on the right, titled 'GRIN-Global Search v1.22.8.24', has a 'Basic Query' tab. It includes a 'Search Now!' button, a 'Find:' dropdown set to 'accession', and matching options for 'Any Word', 'All Words' (selected), and 'List of Items'. The search criteria are listed as follows:

```
@order_request.ordered_date LIKE "%2022%"  
AND  
@site.site_short_name = 'NC7'  
AND  
@order_request.order_type_code = 'DI'  
AND  
@order_request.completed_date IS NULL
```

Below the criteria are 'Add To Query' and 'Clear Query' buttons, and a 'Limit: 500' field. At the bottom, there are buttons for 'Accession', 'Get Inventory', 'Get Order Request', 'Cooperators', 'Get Inventory Maint Policy Season', and 'Ge'. A text box on the right side of the search window contains the instruction: 'Drag the search criteria to an empty folder'.

Searching (Public Website)

GRIN-Global U.S. National Plant Germplasm System Log out

Version: 2.3.1 [Accessions](#) [Descriptors](#) [Reports](#) [GRIN Taxonomy](#) [GRIN](#) [Help](#) [Contact Us](#) **Tools** [Your Profile](#)

Enter SQL **Load SQL from file**

Only select queries are allowed

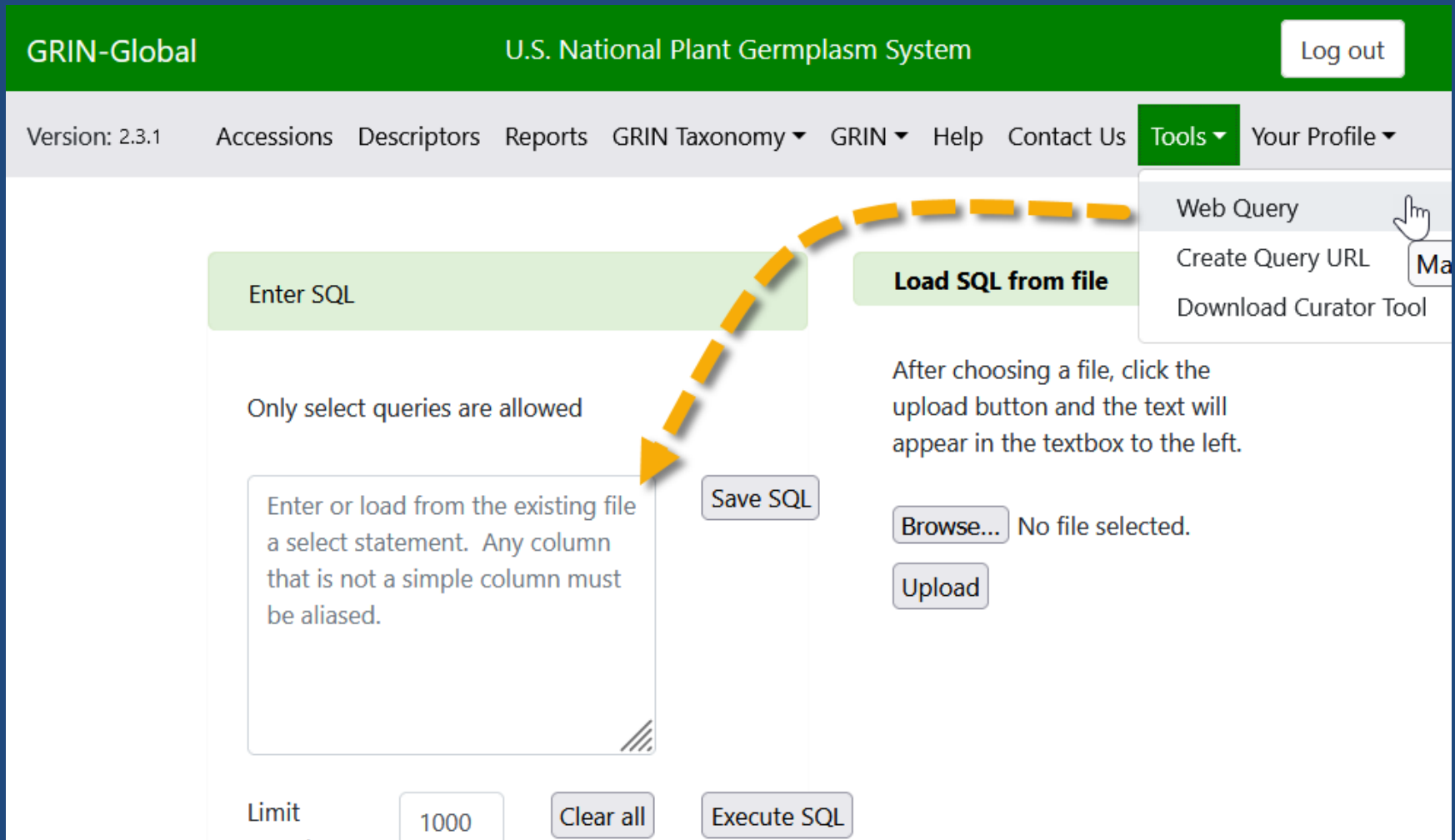
Enter or load from the existing file a select statement. Any column that is not a simple column must be aliased.

No file selected.

After choosing a file, click the upload button and the text will appear in the textbox to the left.

Limit

Web Query
Create Query URL
Download Curator Tool



Demo

Inventory

- Physical germplasm for each accession is considered the “inventory”
- Typically, an accession will have multiple lots – different generations, form types (plants, seeds...)
- Each physical lot should have its own corresponding inventory record

System Inventory Records

- When creating a new accession record, a default inventory record is also created
- “System” inventory records should not be edited
- They do not represent physical inventory

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Inventory ID	Inventory Prefix	Inventory Number	Inventory Suffix	Inventory Type	Accession	Maintenance Policy	Maintenace Site	Inventory ?	Deducted ?	Available ?	Availability Status	Status Note	y Start Date
2	2105481	DJUG	1		PL	DJUG 1	ARCHIVE	DAV	N	N	N	Inventory does not exist		
3	2244790	DJUG	1	0001A	PL	DJUG 1	Walnut	DAV	Y	N	Y	Available		
4	2244791	DJUG	1	0002A	PL	DJUG 1	Walnut	DAV	Y	N	Y	Available		
5	2244792	DJUG	1	0003A	PL	DJUG 1	Walnut	DAV	Y	N	Y	Available		
6	2244793	DJUG	1	0005A	PL	DJUG 1	Walnut	DAV	Y	N	Y	Available		
7	2244794	DJUG	1	0006A	PL	DJUG 1	Walnut	DAV	Y	N	Y	Available		
8	2244795	DJUG	1	0008A	PL	DJUG 1	Walnut	DAV	Y	N	Y	Available		
9	2244796	DJUG	1	0009A	PL	DJUG 1	Walnut	DAV	Y	N	Y	Available		
10	2244797	DJUG	1	0010A	PL	DJUG 1	Walnut	DAV	Y	N	Y	Available		
11	2244798	DJUG	1	0011A	PL	DJUG 1	Walnut	DAV	Y	N	Y	Available		
12	2244800	DJUG	1	0013A	PL	DJUG 1	Walnut	DAV	N	N	N	Available		
13	2244801	DJUG	1	0014A	PL	DJUG 1	Walnut	DAV	N	N	N	Inventory does not exist		
14	2244802	DJUG	1	0015A	PL	DJUG 1	Walnut	DAV	N	N	N	Inventory does not exist		
15	2244803	DJUG	1	0016A	PL	DJUG 1	Walnut	DAV	N	N	N	Inventory does not exist		
16	2244804	DJUG	1	0017A	PL	DJUG 1	Walnut	DAV	N	N	N	Dead	DEAD	
17	2265935	DJUG				DJUG 1	Walnut			N	N	Not to be distr	Loc unknown	
18	4000002	DJUG	**			DJUG 1	SYSTEM			N	N	No value specified		
19	2244802	DJUG				DJUG 1				N	Y	Available		

Inventory Maintenance Policy (IMP)

- Think of an IMP as a template – it fills in *some* fields in a *new inventory record*
- Before creating an inventory record, you must have a relevant IMP record
- If you change the policy later, the data in the *existing inventory records* does not change (other than owner)
- The owner of the IMP record is *always* the owner of the inventory record

Visibility and Availability Fields

Table / Field Name	Field type	Impact / Effect
Acc. / Is Web Visible?	Y / N	Public Website (PW) will display (or not), the accession on the Public Website
Acc. / Status	Coded (Active, Inactive, Backup...)	If the Status Code is neither equal to ACTIVE or INACTIVE, the accession will not be listed in any search results. INACTIVE usually indicates this is a historic record – data exists, but no physical germplasm
Inv. / Availability Status	Coded (Low, Available, Not Available, Dead...)	the value does not determine the availability on the PW. Can be confusing, because some genebanks use “Available” and “Not Available” as possible values. Serves more as documentation to the internal genebank staff.
Inv. / Is Default?	Y / N	Would be better titled as “Is Distributable?” For the inventory to be distributed, this field must be “Y”
Inv. / Is Available?	Y / N	For the inventory to be distributed, this field must be “Y”

Inventory Demo

Requests (Public Website)

U.S. National Plant Germplasm System

Accessions Descriptors Reports GRIN Taxonomy GRIN Help Contact

Review your order. (2 item[s]) [+ Show all](#) [- Hide all](#)

Accession	Name	Taxonomy	Amount	Form	Genebank
1	Himegurumi	<i>Juglans ailantifolia</i> Carrière var. <i>cordiformis</i> (Makino) Rehder	3	Cutting  You will receive Unrooted cuttings not Rooted plants unless specific arrangements	DAV
1741	H. lupulus var. neomexicanus Golden Railroad 3	<i>Humulus lupulus</i> L. var. <i>neomexicanus</i> A. Nelson & Cockerell	25	Seed	COR

Intended use for this germplasm:

Instructions for the order:

Shipping Information:
Reisinger
Blanchon RD
Please ignore State/Zip this is a workaround to submit order, Skåne län 11111 Sweden

- Select -

- Select -

Education

Home Gardening

Other

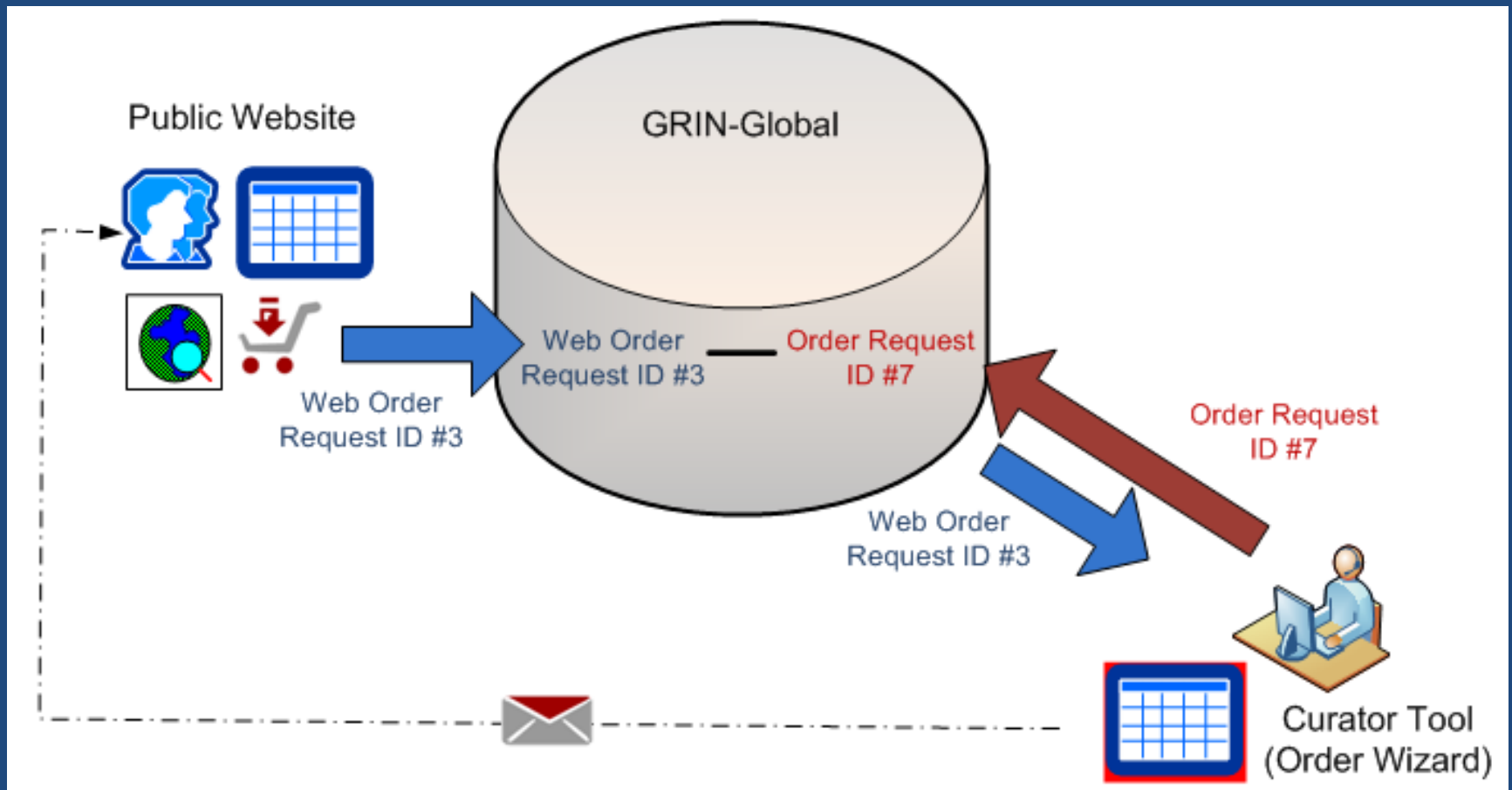
Research

Intended use for this germplasm

Requests

- Two request tables:
 - Web Order Request (WOR)
PW requestors initiate
 - Standard Order Request
genbank staff manage using the Order Wizard
- Emails are sent to the sites where the accessions are maintained

Processing Requests



Order Wizard

- Processes incoming WORs & generates the germplasm orders
- Invokes the Cooperator Wizard to ensure the web cooperator has standard cooperator records

Cooperators

Two types of cooperator records exist in GG:

- “web” cooperators – self enroll on the PW
- “standard” cooperators – can be individuals or organizations

Cooperator Wizard

Cooperator Wizard v1.22.8.24

Save Save and Exit

Cooperator **Web Cooperator** Web Order

Match
 Exact Partial Find Web Coop

Include Shipping Addresses

Search:
Last Name
reisinger

First Name

Web Organization

Web E-Mail

Web Phone Number

Web Cooperator ID

Web Cooperator ID	Last Name	Title	First Name	Job
7	Reisinger	Frau	Martin	
4156	Reisinger	Fraulein	Emma	
4163	Reisinger	Herr	Franz	
8937	Reisinger	Sir	Martin	

Create New Cooperator from Selection

Find Matches Based On:
 Last Name First Name Organization Address Line 1 Geography

Cooperator ID	Status	Last Name	Title	First Name
132983	ACTIVE	Reisinger	Mr.	Martin
148566	ACTIVE	Reisinger	[Null]	Martin A.
161945	ACTIVE	Reisinger	Frau	Martin
175808	ACTIVE	Reisinger	Frau	Martin
184846	ACTIVE	Reisinger	Sir	Martin

Cooperator Records Joined

Sites

In GG, genebanks establish Sites for various reasons

- physical locations
Ex: USDA: “COR” - Corvallis, OR; “W6” Pullman, WA...
- special purposes:
Svalbard used as the backup storage location

Sites & Cooperators

- In GG, every CT user is assigned to a site

Accessions at a site

Show lists from: Show All
Martin A., Reisinger Resource Group, Inc. v

Include Sub-Folders

Testng Tests ...

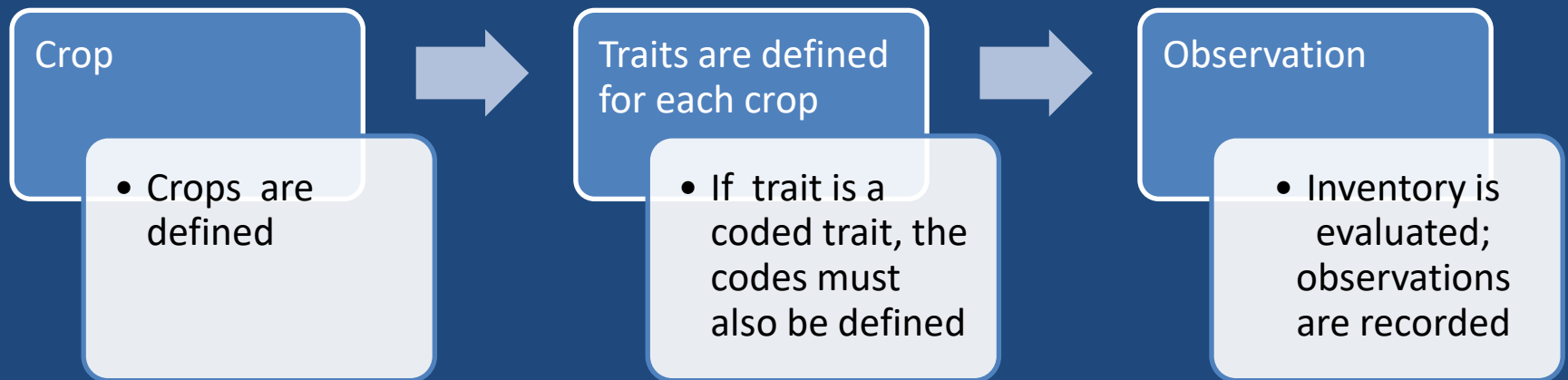
Tests Root Folder
By site
NA - National Arboretum

Get Site Get Order Request **Accessions** Inventory Get Inventory Viability Get Web Order Request Get Web Order Request Item Get Web Cooperator

Accession ID	Accession Prefix	Accession Number	Accession Suffix	Taxon	Name	Origin	Maintenance Site	Is Core
1000013	CCRA	1		Crataegus pinnatifida			NA	N
1000026	CPYA	1		Pyracantha crenulata			NA	N
1000038	CDOC	1		Docynia indica			NA	N
1000043	NA	80505		Sorbus aucuparia subsp. pohuas...	Rufa	Korea, South	NA	N
1000058	PI	635880		Sorbus aucuparia subsp. pohuas...	Rufa	Japan, Hokkaidō	NA	N
1000077	COST	2		Osteomeles subrotunda			NA	N
1000080	CCRA	2		Crataegus pinnatifida			NA	N

Requests Demo

Observations



Observations

Search descriptors

- Step 1: Select crop from dropdown list
- Step 2: Select traits, then click "Select values" button
- Step 3: Choose values for traits, additional criteria (optional), then click "Search" button

Search criteria

Results table

Step 1 – Choose Crop

New Search

AMARANTH
ANNONA
APIUM
APPLE

[Click for crop detail page.](#)

Step 2 – Choose descriptor(s)

Clear All

Select Values

+ Choose all

✕ Remove all

Chemical composition descriptors

pH

TITRATABLE.ACIDITY

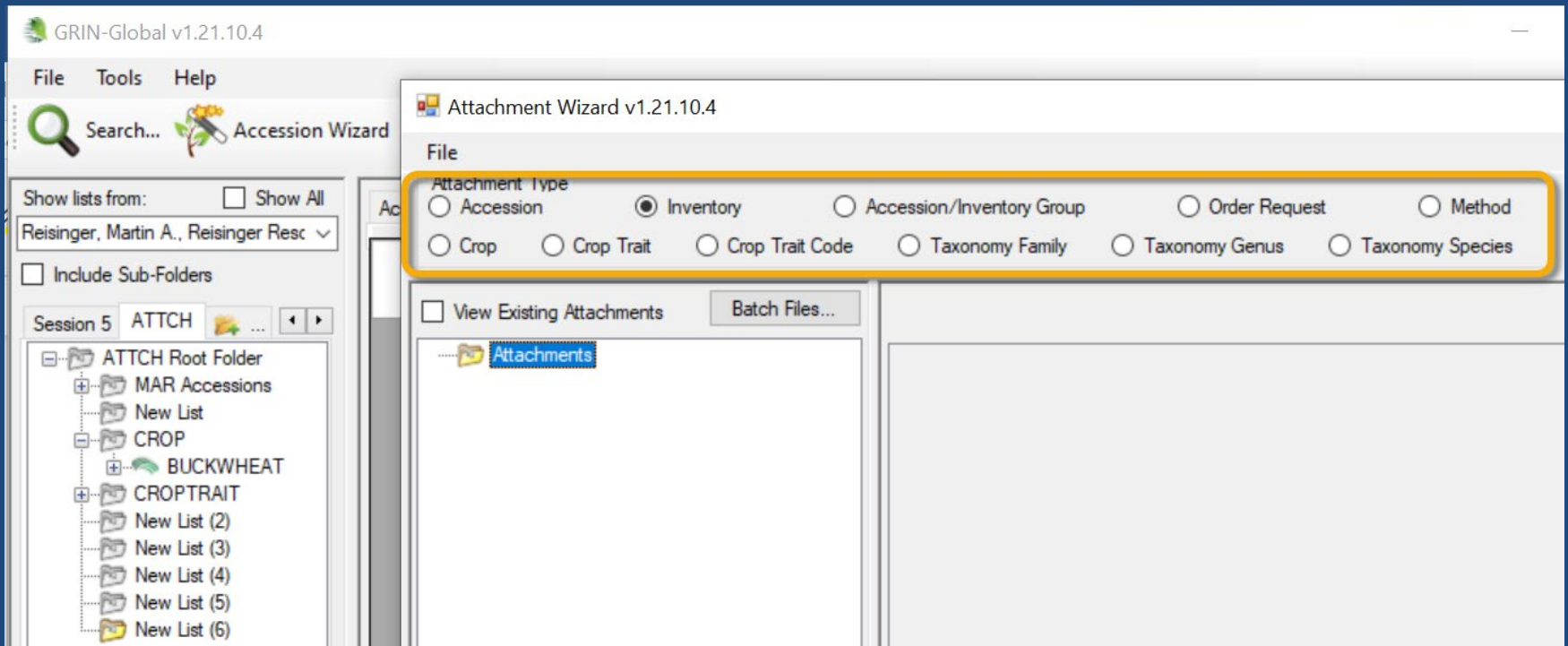
SOLUBLE.SOLIDS

Observations Demo

Attachments

- Any file type can be considered an attachment
- GG has 10 attachment tables
- Attachment Wizard (recently upgraded)
- Web Requestors can add attachments via the PW; genebank staff process these via the Order Wizard

Attachment Wizard



Actions

- GRIN-Global has 3 Action tables
 - Accession
 - Inventory
 - Order Requests
- Actions are genebank specific
 - Coded values
 - The genebank's GG IT mgr. can add / modify the codes

A Request Order's Actions

Orders **Actions** Attachments Phyto Log Web Orders

New Action Alerted Cleared NRR Order Filled

	Order Request Action ID	Order Request	Action Name	Started Date	Started Date Format	Action Information	Completed Date	Completed Date Form
▶	721786	336200 - ...	New Order	05/03/2021	mm/dd/yyyy	Send brochure.	05/03/2021	mm/dd/yyyy
	721796	336200 - ...	Export requirements requested	05/03/2021	mm/dd/yyyy	China Amaranthus. Cucumis sativus.	05/03/2021	mm/dd/yyyy
	721801	336200 - ...	Alerted about order	05/03/2021	mm/dd/yyyy	Request IP. IP to claim	05/03/2021	mm/dd/yyyy
	721823	336200 - ...	Alerted about order	05/03/2021	mm/dd/yyyy	Request IP. IP to claim	05/03/2021	mm/dd/yyyy
	721853	336200 - ...	Import Permit requested	05/03/2021	mm/dd/yyyy	6 mos	12/22/2021 12:0...	[Null]
	742832	336200 - ...	Completed order	11/17/2021	mm/dd/yyyy		11/17/2021	mm/dd/yyyy
	742833	336200 - ...	Cancel Order Item(s)	11/17/2021	mm/dd/yyyy	no IP rec'd	11/17/2021	mm/dd/yyyy
	746506	336200 - ...	Requestor contacted NPGS	12/22/2021	mm/dd/yyyy	Thanks for your previous work for the distribution and plant inspection for	1/4/2022 12:00:...	[Null]
	746507	336200 - ...	Alerted about order	12/22/2021	mm/dd/yyyy	ship w/o IP?	12/22/2021 12:0...	[Null]
	746508	336200 - ...	Alerted about order	12/22/2021	mm/dd/yyyy	ship w/o IP?	12/22/2021 12:0...	[Null]
	746511	336200 - ...	Curator cleared an order	12/22/2021	mm/dd/yyyy	Please proceed with the Cucumis w/o IP.	12/22/2021	mm/dd/yyyy
	746518	336200 - ...	Curator cleared an order	12/22/2021	mm/dd/yyyy	Proceed without the import permit	12/22/2021	mm/dd/yyyy
	747597	336200 - ...	Order pending	01/04/2022	mm/dd/yyyy	4 oz	01/04/2022	mm/dd/yyyy
	748391	336200 - ...	Order filled ready to ship	01/11/2022	mm/dd/yyyy	2: 4 oz	01/11/2022	mm/dd/yyyy
	752890	336200 - ...	Order Sent to APHIS (Phytosanita...	02/11/2022	mm/dd/yyyy	FedEx. 14x14x18. sz2. 17 lbs. Shipped with 336200, 340261, 340265, 340266, 340269, 340299, 340454, 340496	02/11/2022	mm/dd/yyyy
	764617	336200 - ...	Completed order	05/11/2022	mm/dd/yyyy		05/11/2022	mm/dd/yyyy
	764616	336200 - ...	Order shipped	05/11/2022	mm/dd/yyyy		05/11/2022	mm/dd/yyyy

Actions (Searching)

Basic Query

Search Now!

Find: _____

Search Criteria Clear Text

```
@order_request_action.action_name_code = 'IMPORT_PER'  
AND  
@order_request_action.started_date > '01-Jan-2022'
```

Search Results

Add To Query Clear Query Limit: 500 Page Size: 1000

Accession Get Inventory Get Order Request **Get Order Request Action** Cooperators Get Inventory Maint Policy Season Get

>1/1

	Order Request Action ID	Order Request	Action Name	Started Date Format	Started Date
▶	747570	340409 - Tanad...	Import Permit requested	mm/dd/yyyy	1/4/2022 12:45 ...
	747609	340017 - Ali As...	Import Permit requested	mm/dd/yyyy	1/4/2022 3:22 PM
	748486	340491 - Galind...	Import Permit requested	mm/dd/yyyy	1/12/2022 9:40 ...

Showing rows: 64 of 64 | Connected to: <https://training.ars-grin.gov/GRINGlobal/GUI.aspx>

Customization (Codes)

GRIN-Global Admin v 2.0.3.0 - [Code Group - ORDER_REQUEST_ACTION - localhost\sqlexpress]

File View Tools Help

localhost\sqlserver > Maintenance > Code Groups > ORDER_REQUEST_ACTION

Group Name: ORDER_REQUEST_ACTION

Values (35) Referenced By (5 / 3)

Language: English

Value	Title	Description	Last Touched
INSPECT	Order Sent to APHIS (...)	The order has been transferr...	5/28/2020 3:44:04 PM
INSPECTASKED	Export requirements re...	Review applicable export rest...	3/3/2014 9:13:00 AM
INSPECTSITE	Site phyto inspection n...	Distribution of one (or more) o...	3/3/2014 9:13:09 AM
MERGE	Orders Merged	One or more orders merged in...	5/11/2020 1:17:06 PM
NEW	New Order	New Order	4/30/2013 1:25:22 PM
ORDFILLED	Order filled ready to ship	Order items have been picke...	10/5/2011 8:10:17 PM
PENDING	Order pending	Order is under review. This a...	10/5/2011 8:10:17 PM
PSHIP	Partial shipment	One (or more) of the order ite...	10/5/2011 8:10:17 PM
QUALITYTEST	Quality test needed an...	Additional "Phytosanitary Tes...	6/9/2020 8:53:08 AM
READY_FOR_PACKA...	Samples ready for final ...	Samples received in this orde...	8/27/2019 1:57:27 PM

Add...

Save Cancel

121 items | Refreshed Code Groups at 10/2/2022 1:27:41 PM

Customization (Dataviews)

GRIN-Global Admin v 2.0.3.0 - [Dataview - get_nc7_site_inventory - localhost\sqlserver]

GRIN-Global Admin v 2.0.3.0 - [Dataview - web_gry_crop_traits_and_codes - localhost\sqlserver]

Source Tables and Fields

```
SELECT
    ct.crop_trait_id
    ,ct.crop_id
    ,ct.coded_name
    ,ctl.title AS trait_title
    ,ctl.description as trait_description
    ,ct.is_peer_reviewed
    ,ct.category_code
    ,ct.data_type_code
    ,ct.is_coded
```

Dataview Name: web_gry_crop_traits_and_codes

Configuration Options: external

Field Name	Table	Field Name	Required
nc7_site_inventory_id	nc7_site_inventory (nsi)	nc7_site_inventory_id	<input checked="" type="checkbox"/>
inventory_id	nc7_site_inventory (nsi)	inventory_id	<input checked="" type="checkbox"/>

639 items | Refreshed Dataviews at 10/2/2022 1:31:02 PM

Customization (Reports)

The screenshot displays the GRIN-Global Admin v 2.0.3.0 interface. The main window title is "GRIN-Global Admin v 2.0.3.0 - [Dataview - web_qry_crop_traits_and_codes - localhost\sqlexpress]". The interface is divided into several sections:

- Left Panel (Connections):** A tree view showing the server structure. The "Web Reports" folder is highlighted in green and circled in black. It contains several reports, with "web_qry_crop_traits_and_codes" selected.
- Top Panel (Navigation):** Shows the current path: "localhost\sqlexpress - sqlserver > Dataviews > Web Reports > web_qry_crop_traits_and_codes". The "Web Reports" folder is circled in yellow.
- Source Tables and Fields:** A table listing source tables and fields. The "accession" table is selected, and its fields are listed in the "Hierarchy" column.
- SQL Server:** A text area containing the SQL query for the selected report:

```
SELECT
    ct.crop_trait_id
,ct.crop_id
,ct.coded_name
,ctl.title AS trait_title
,ctl.description as trait_description
,ct.is_peer_inv_reviewed
,ct.category_code
,ct.data_type_code
,ct.is_coded
```
- Fields, Parameters, Properties, Titles, Preview:** A set of tabs for configuring the report. The "Properties" tab is active, showing the "Dataview Name" as "web_qry_crop_traits_and_codes".
- Flags and Settings:** A section with checkboxes for "Is Read Only" and "Is Read Only On Insert". The "Category" is set to "Web Reports" and the "Database Area" is set to "Crop".
- Transform Output:** A section with a checkbox for "Transform Output" and three dropdown menus for "Field for Names", "Field for Values", and "Field for Captions".
- Configuration Options:** A section with a dropdown menu for "Configuration Options" set to "external", which is circled in black.

Select a report using either the list of all reports, or find by category.

All Reports

Reports by Category

Reset Reports

Reports by category

Select category

Accession
Cooperator
Crop
Inventory
Method

Select report

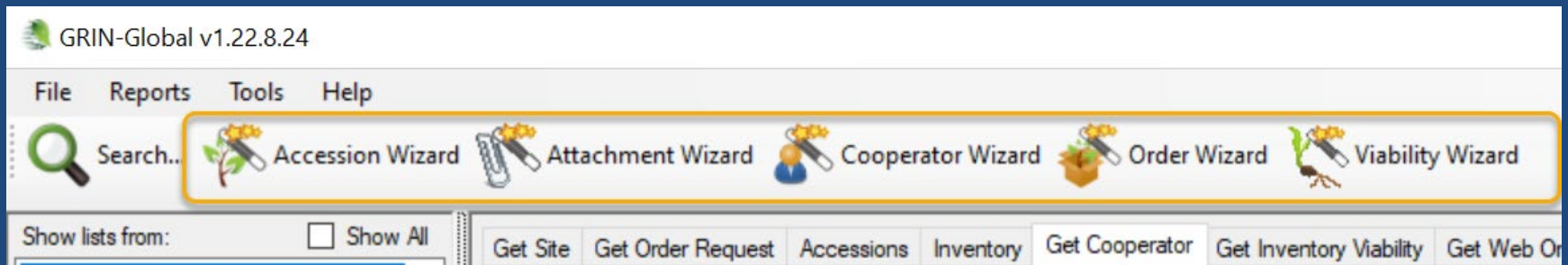
Accessions Available From a Site
Accessions Without a Specific Trait
Fieldbook in CSV Format
Journal of Plant Registrations
Statistics Report (Accessions Count) by Country

Public Website Reports

- External (the public)
- Internal (genebank staff only)

Customization (Wizards)

Some are bundled with the CT,



...but others may be added at will...

Community Wizards

- <https://gitlab.com/GRIN-Global/Wizards>
(also see: <https://gitlab.com/GRIN-Global>)
- Easy-SMTA | GG-Genesys | GLIS-DOI | Print...

The screenshot displays the GRIN-Global Project website. At the top, there is a green navigation bar with links for GRIN-Global, About GRIN-Global, GG Sites, Release Notes, Documentation, Training, and Resources. Below the navigation bar is the GRIN-Global logo and the text "The GRIN-Global Project". A "Google" logo is also visible, indicating an enhanced map. The main content area features a world map with various location markers. A legend at the bottom of the map shows two categories: "Evaluating" (represented by a blue pin) and "Implemented" (represented by a green pin). On the right side of the page, there is a vertical menu with several items, including "NPGS GG Help Desk", "International GG Help Desk", "Crop Trust", "Genebank Terms", "Genesys", "Genesys FAQs", "GRIN", "GRIN-U", "NPGS News & Training Page", "NPGS GRIN-Global Enhancements Re", "Svalbard Global Seed Bank", "Files", "Codes (Values & Descriptions)", "Dynamic Folder Examples", "GitLab Source Files", "SMTA Wizard Files", and "SQL Queries (Resource Page)". The "GitLab Source Files" and "SMTA Wizard Files" items are circled in yellow.

Taxonomy

- GG Taxonomy focuses on economically important plants
- Data actively maintained by USDA taxonomists
- Recommended: use the GRIN Taxonomy

Taxonomy

U.S. National Plant Germplasm System

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Search Taxonomy Data in GRIN-Global

Note: Use the Shift key + b, f, g, s, r or d to navigate between tabs.

Results of 5000 or more will be returned without links.

Browse	Family	Genus	Species	Results	Distribution
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Genus or species name

Specific or infraspecific name

Common name

Exact match

Native distribution

Search by native distribution. Results will be geographically based by country. For full

Required

- When registering accessions, Taxon is required
 - user selects the taxon from a list of accepted species names

The screenshot shows a software interface with a menu bar containing 'Accessions', 'Inventory', 'Get Cooperator', and 'Get Inventory Via'. Below the menu is a table with columns for 'Accession', 'Accession Number', 'Accession Suffix', and 'Taxon'. A green arrow points to the 'Taxon' column. Below the table is a 'Lookup Picker v1.22.8.24' window. The window has a 'Filter ->' field containing 'humul'. A list of species names is displayed, with 'Humularia welwitschii' selected. To the right of the list is a 'Show Only Choices Valid For This:' section with a checked checkbox for 'is_accepted_name'.

Accession	Accession Number	Accession Suffix	Taxon

Lookup Picker v1.22.8.24

HINT: For big lists, use the text filter to shorten the list search.

Filter -> humul

- Humularia welwitschii
- Humulus japonicus
- Humulus lupulus
- Humulus lupulus var. cordifolius
- Humulus lupulus var. lupuloides
- Humulus lupulus var. lupulus
- Humulus lupulus var. neomexicanus
- Humulus lupulus var. pubescens
- Humulus spp.
- Humulus yunnanensis

Show Only Choices Valid For This:

- is_accepted_name