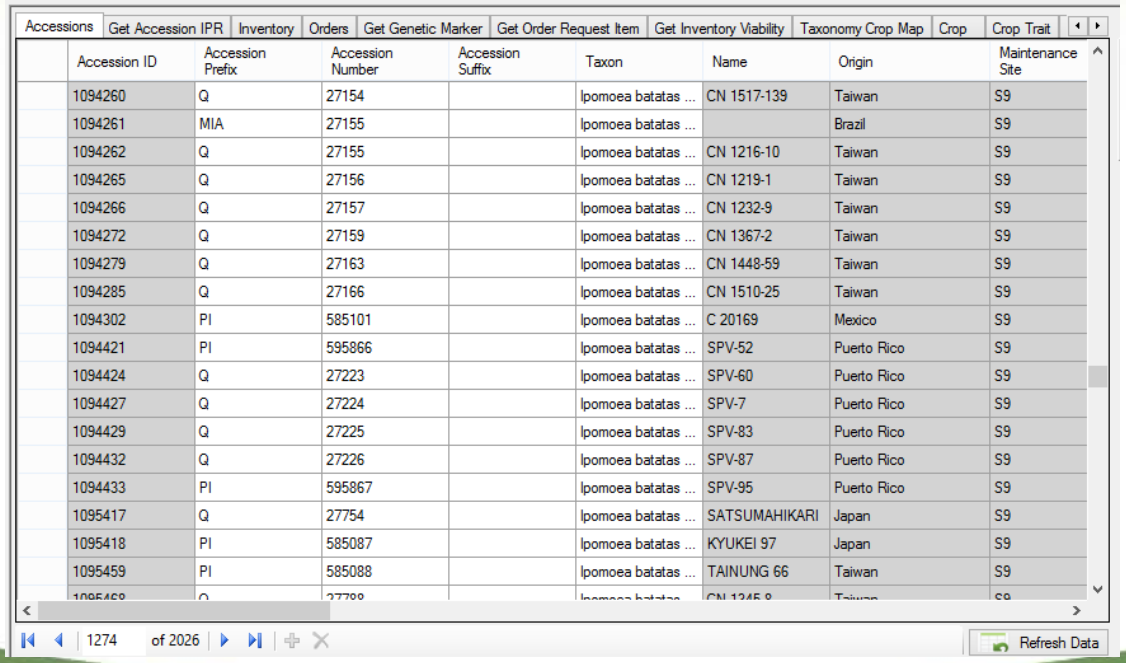
GRIN-Global Project

the global plant genebank
information management system

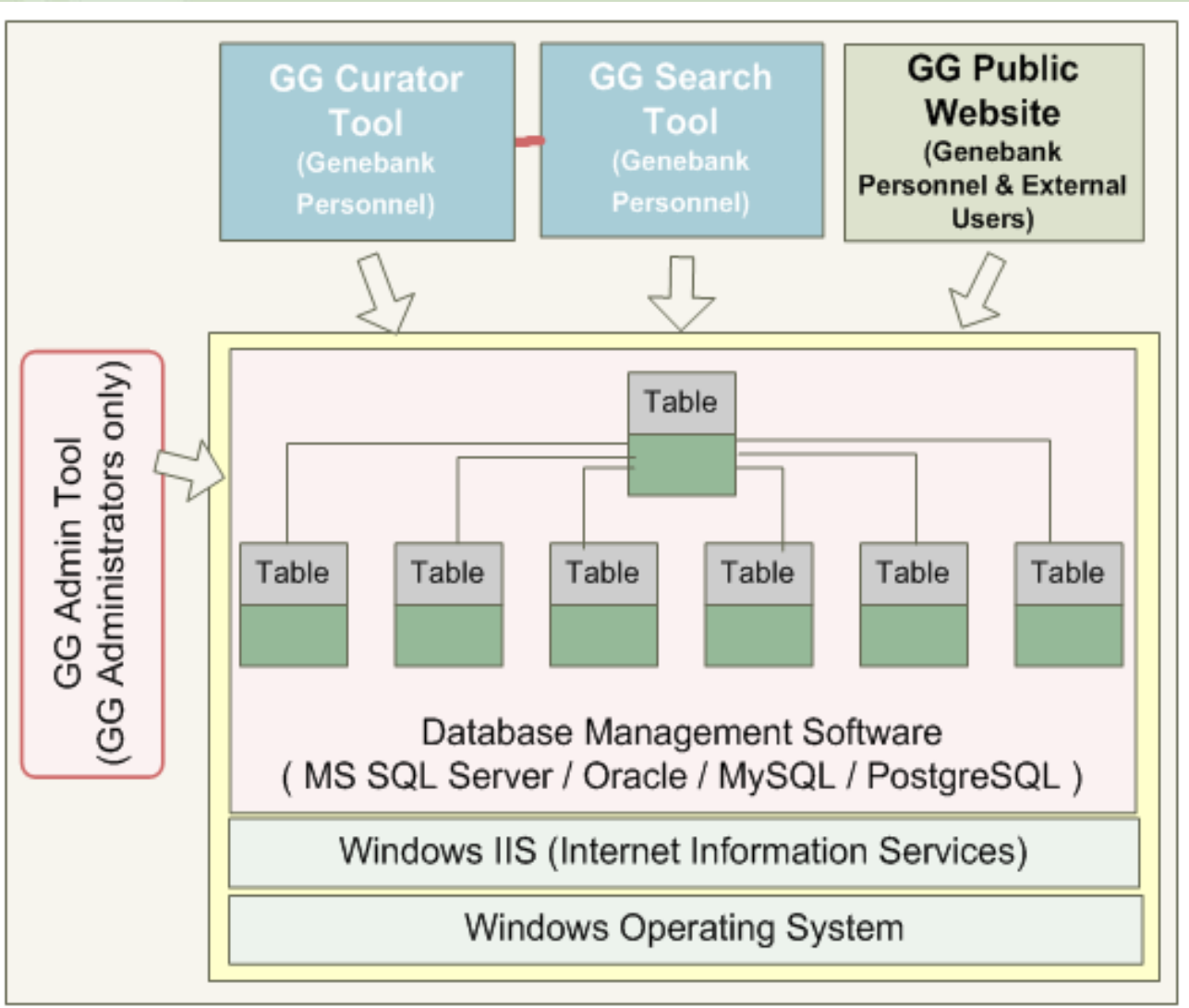
"What is GRIN-Global?"

GRIN-Global (GG) is a database application that enables genebanks to store and manage information associated with plant genetic resources (germplasm) and deliver that information globally.



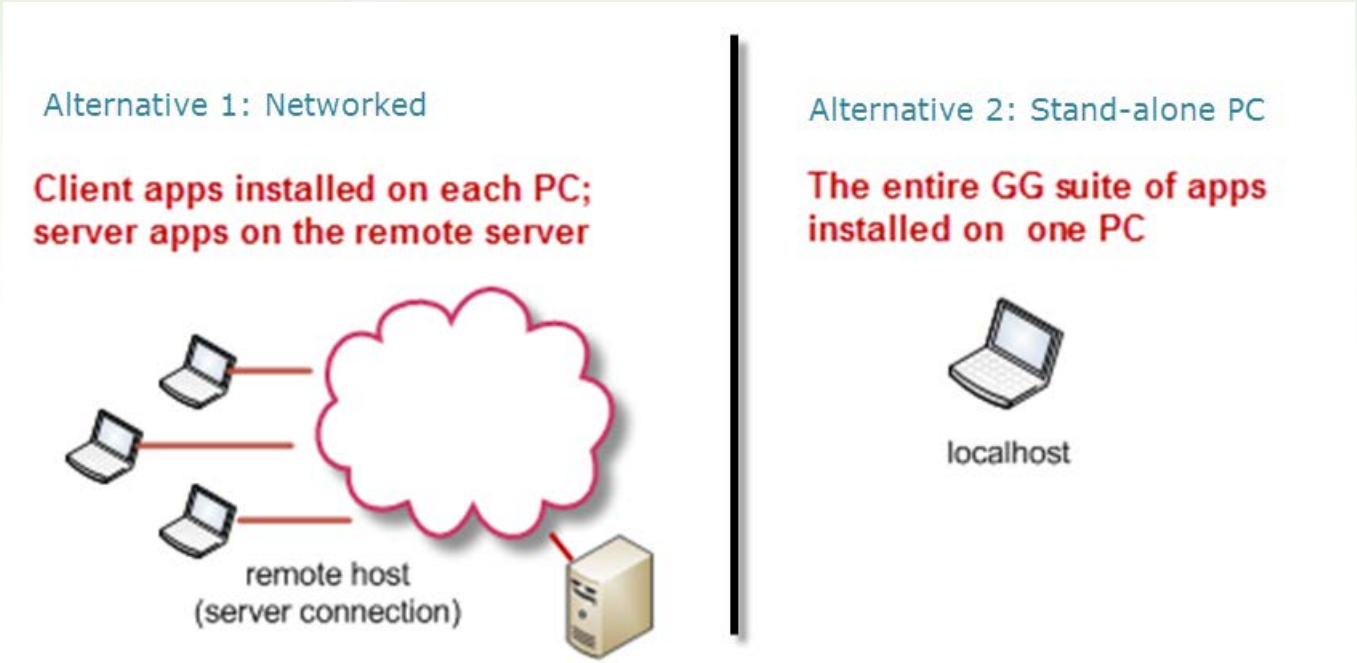
GRIN-Global Environment

The GG database consists of many inter-related tables



Alternative GG Configurations

Typically set up in a networked environment, GG can also run stand-alone on a single PC



GRIN-Global – Open Source

Because GRIN-Global has been developed with open source software and its source code is available, Genebanks can tailor GRIN-Global to meet their specific requirements.

"What is GRIN-Global?"

GRIN-Global (GG) is comprised of a suite of programs:

Curator Tool

SearchTool

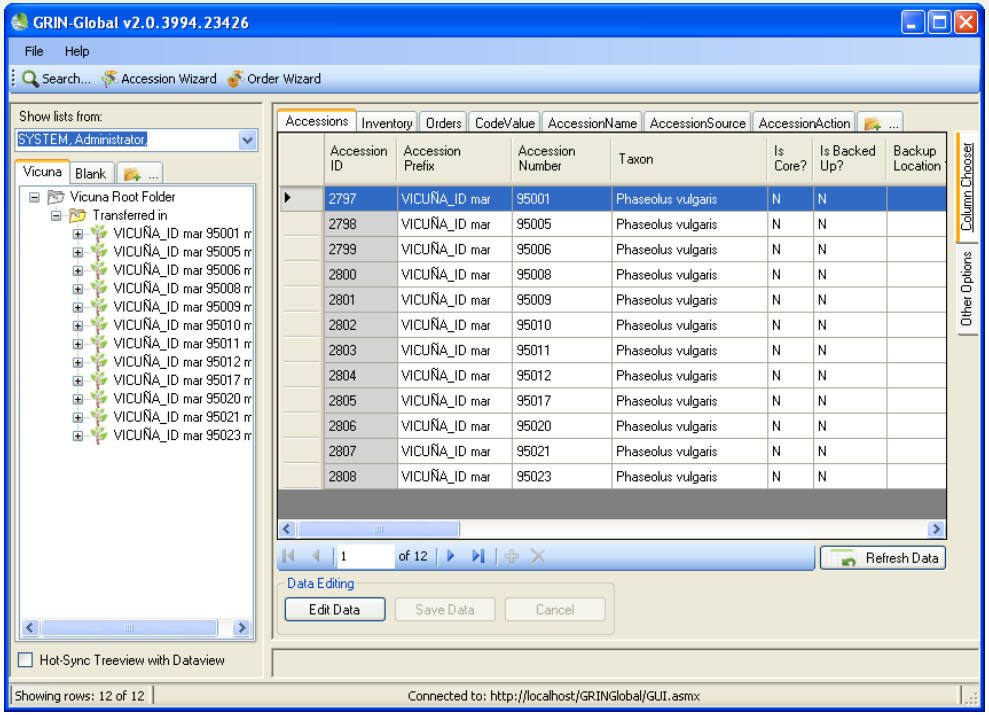
GG Updater

Pubic Website with Shopping Cart

Admin Tool

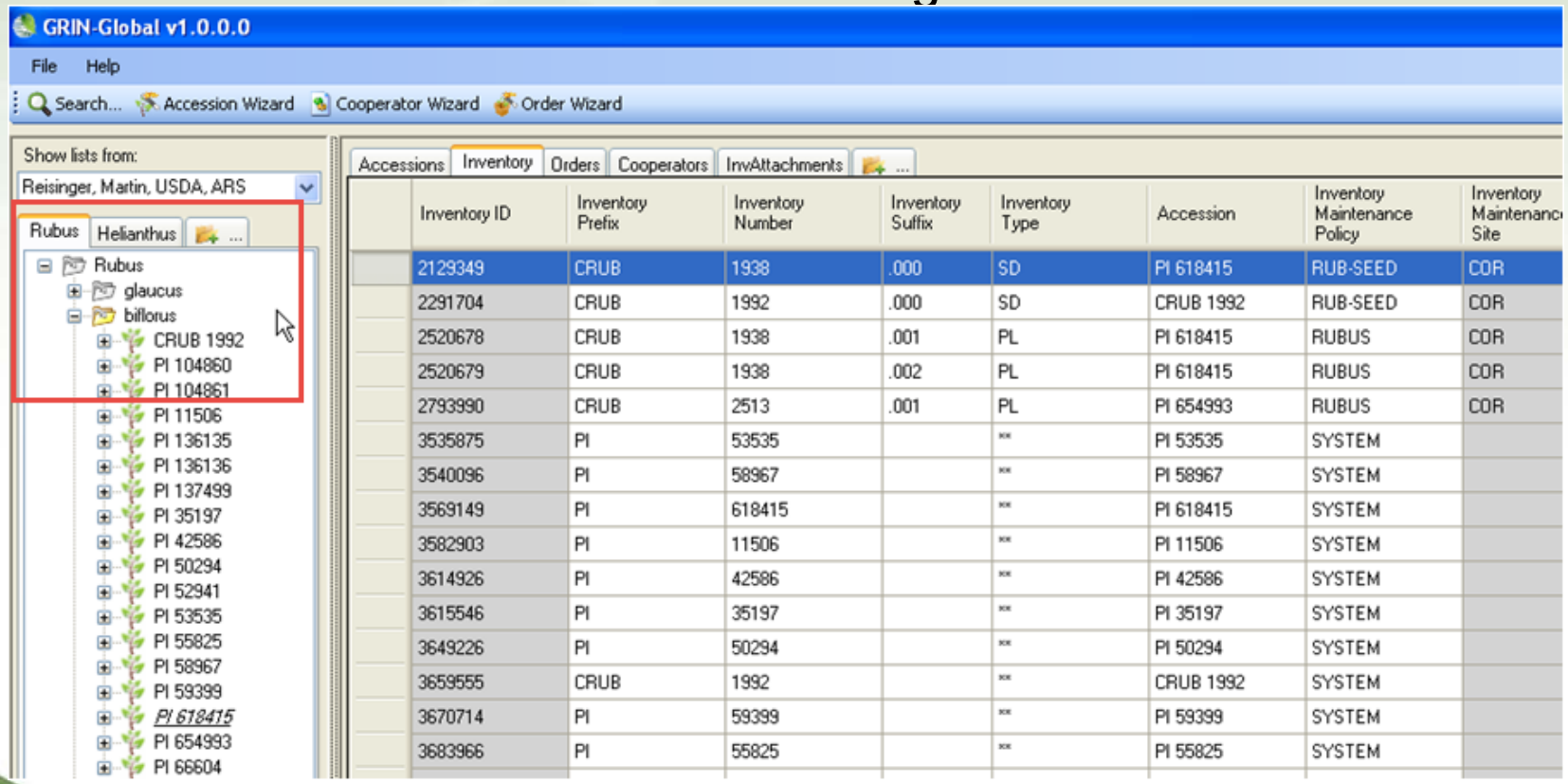
Curator Tool

GRIN-Global application designed primarily for curators and genebank workers who will create and manage their genebank's data



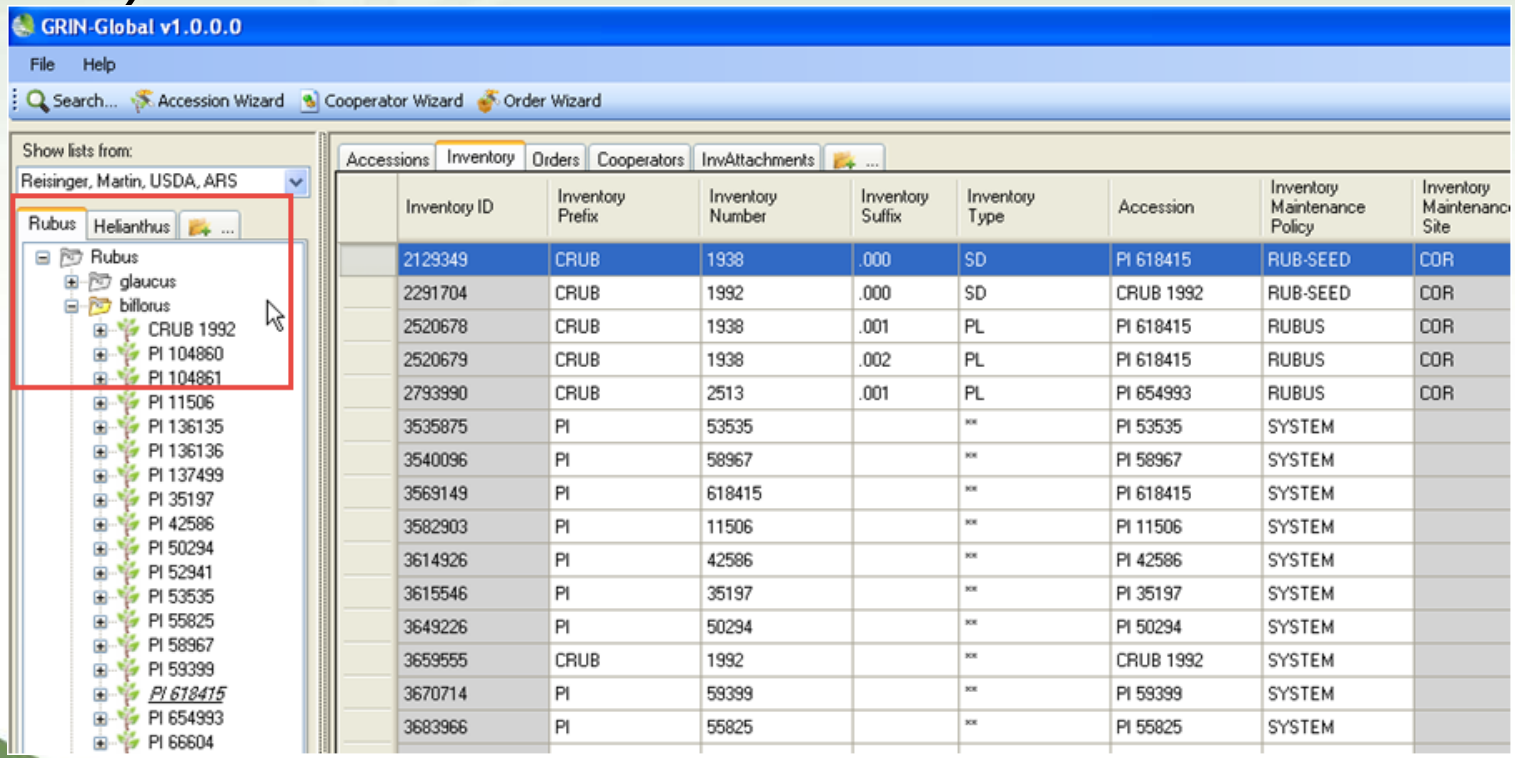
Lists for Managing Your Work

Users create lists as desired to organize database records



Search Tool

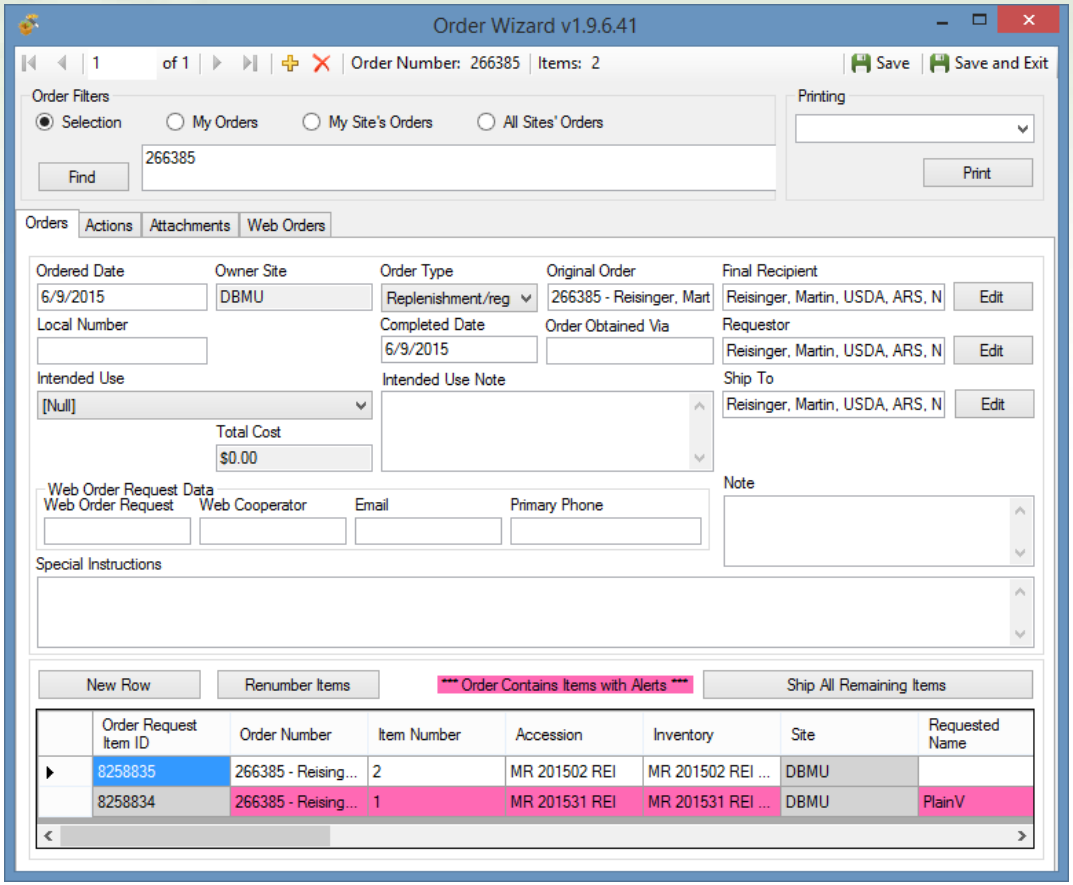
The Search Tool (which can be launched from the Curator Tool) locates & lists the GG database records



Inventory ID	Inventory Prefix	Inventory Number	Inventory Suffix	Inventory Type	Accession	Inventory Maintenance Policy	Inventory Maintenanc Site
2129349	CRUB	1938	.000	SD	PI 618415	RUB-SEED	COR
2291704	CRUB	1992	.000	SD	CRUB 1992	RUB-SEED	COR
2520678	CRUB	1938	.001	PL	PI 618415	RUBUS	COR
2520679	CRUB	1938	.002	PL	PI 618415	RUBUS	COR
2793990	CRUB	2513	.001	PL	PI 654993	RUBUS	COR
3535875	PI	53535		**	PI 53535	SYSTEM	
3540096	PI	58967		**	PI 58967	SYSTEM	
3569149	PI	618415		**	PI 618415	SYSTEM	
3582903	PI	11506		**	PI 11506	SYSTEM	
3614926	PI	42586		**	PI 42586	SYSTEM	
3615546	PI	35197		**	PI 35197	SYSTEM	
3649226	PI	50294		**	PI 50294	SYSTEM	
3659555	CRUB	1992		**	CRUB 1992	SYSTEM	
3670714	PI	59399		**	PI 59399	SYSTEM	
3683966	PI	55825		**	PI 55825	SYSTEM	

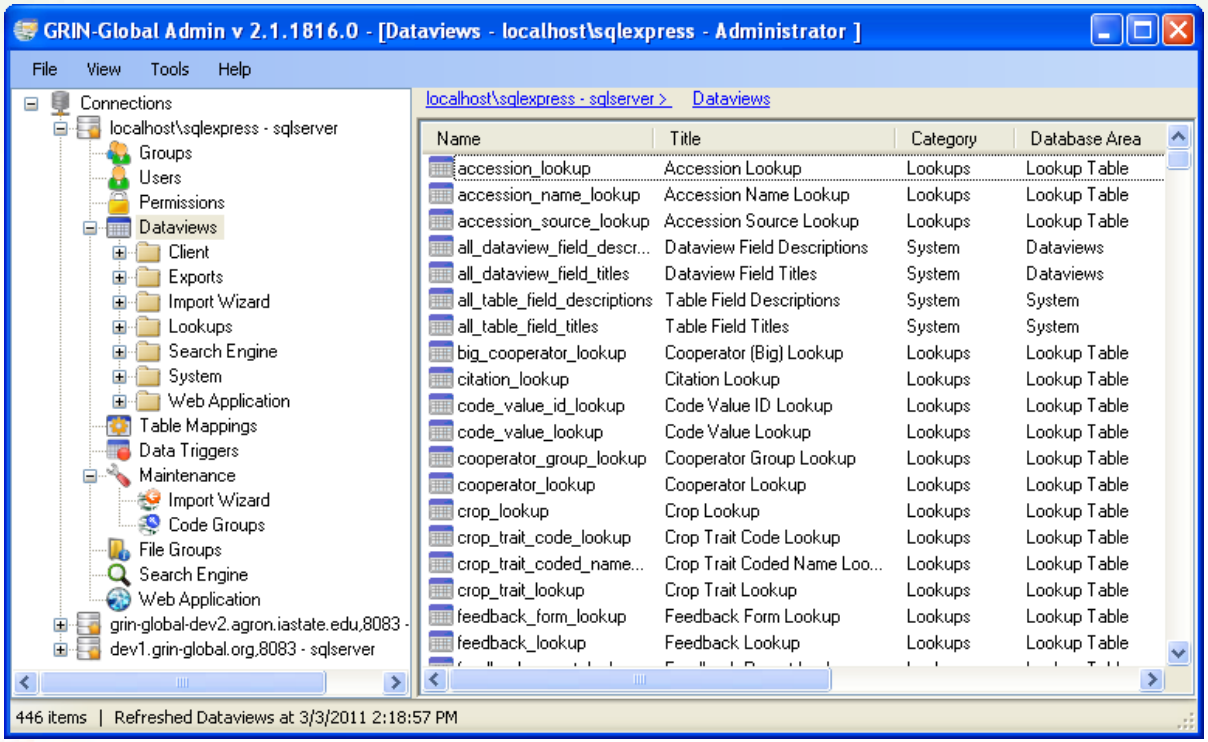
Order Fulfillment & Processing

The CT has an Order Wizard to fulfill & manage germplasm orders



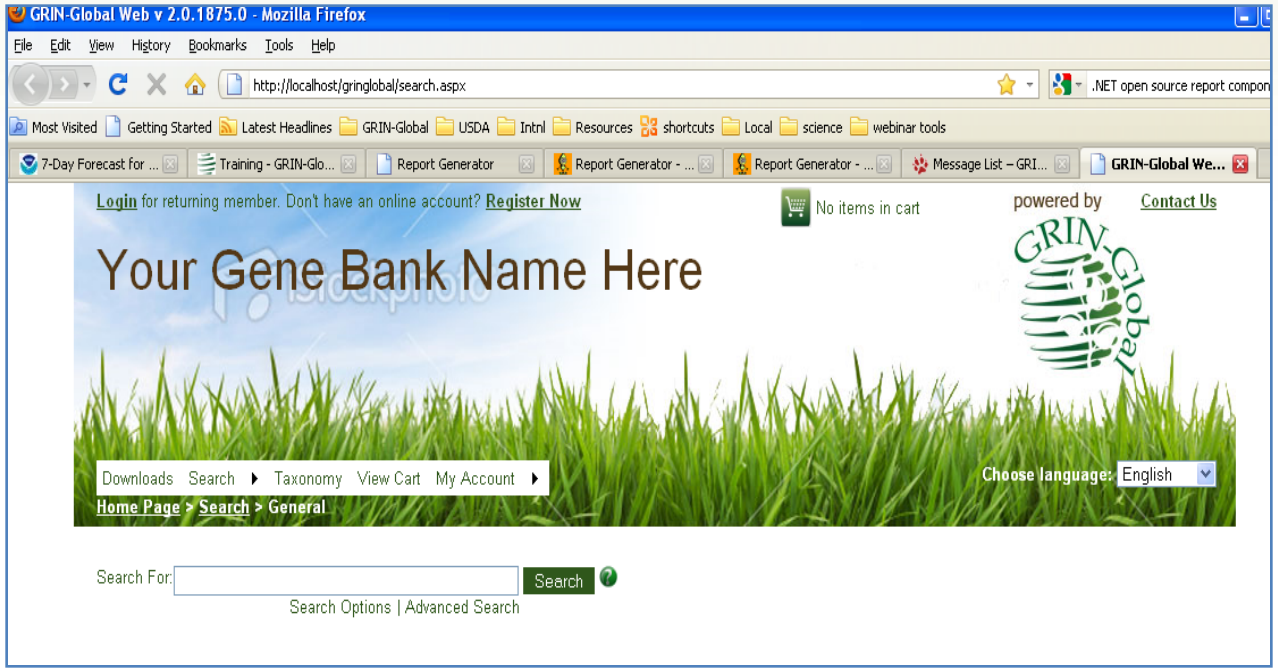
Admin Tool

… handles diverse functions including managing user accounts and permissions; importing data; and creating and editing dataviews used by the Curator Tool and the GG Public Website



Public Website

Through the Public Website, researchers can access germplasm information; search the entire GG database; and order germplasm from the genebank through a "shopping cart facility"



Public Website Accession Details Page

PI 547243

Helianthus tuberosus L.

Status:	Available
Amt Distributed:	100

Remove from Favorites

Add to Order

Collected from:	Indiana United States
Maintained by:	North Central Regional PI Station
NPGS received:	25-Sep-1989
PI assigned:	1989
Inventory volume:	4055
Backup location:	National Center for Genetic Resources Preservation
Life form:	PERENNIAL
Pedigree:	
Improvement status:	WILD
Reproductive uniformity:	
Form received:	Seed

Accession names and identifiers

TUB-2069

Type: COLLECTOR

Ames 13071

Type: SITE
Group: AMES
Comment: NC-7
Cooperator: USDA, ARS, NCRPIS

Tracks Accession Observations

Logout marty.reisinger@ars.usda.gov

GRIN-Global Release 1.0

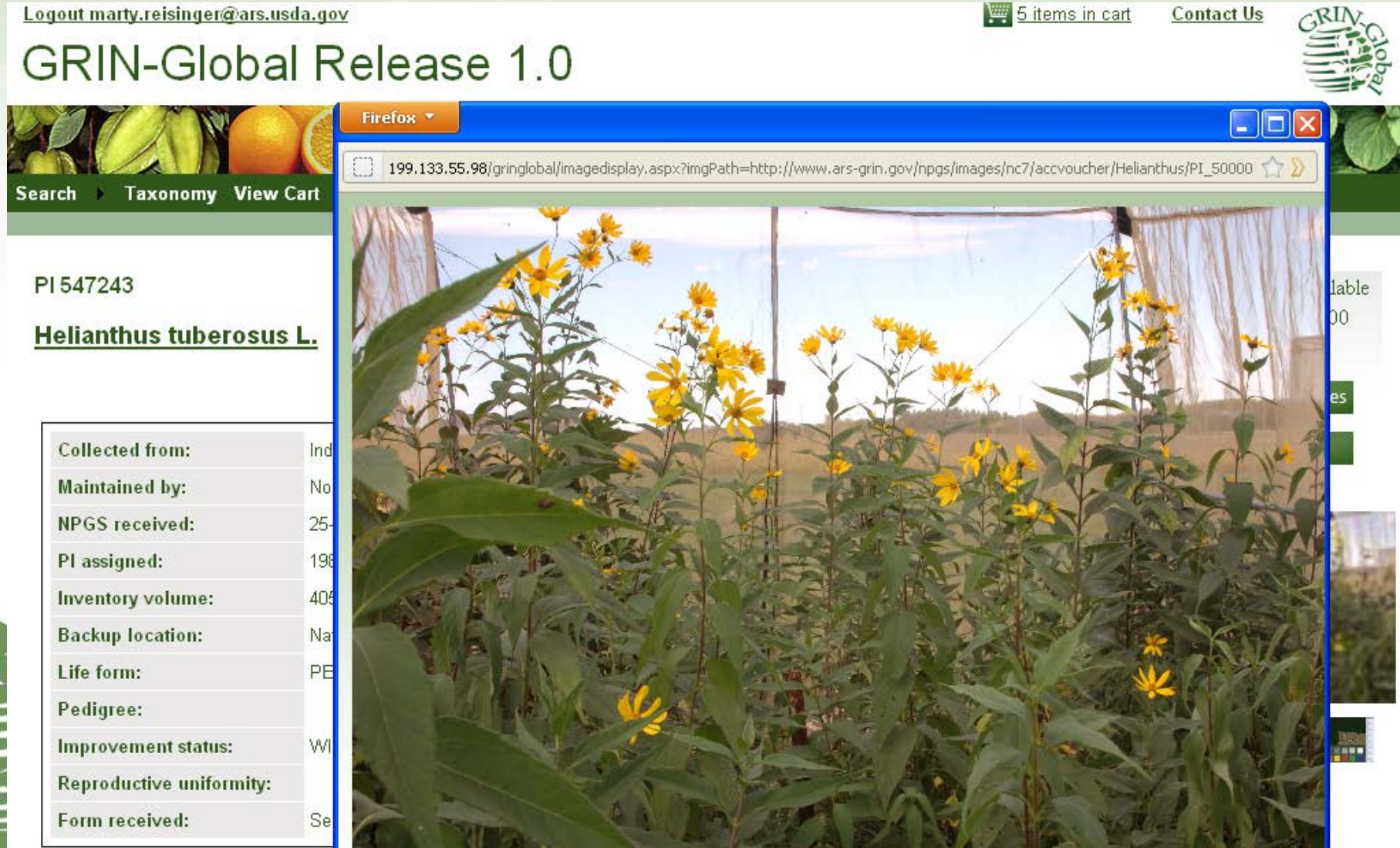
Search ▸ Taxonomy View Cart My Account ▸

Observations for accession PI 547243

Characterization and Evaluation Data:

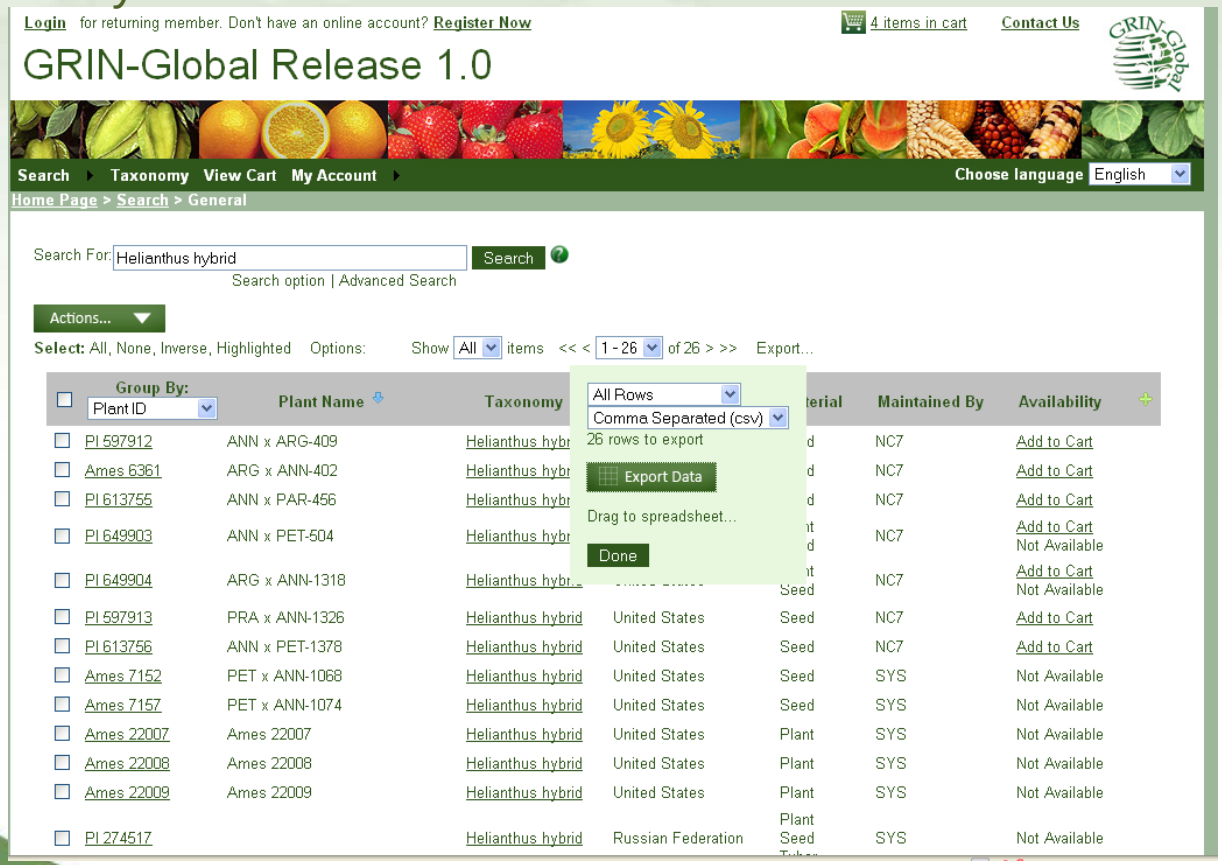
Descriptor	Value	Study/Environment
CHEMICAL Descriptors		
LINOLEIC	67	SUNFLOWER.SUN.FATTYACID.WLD.89
OLEIC	19	SUNFLOWER.SUN.FATTYACID.WLD.89
PALMITIC	6	SUNFLOWER.SUN.FATTYACID.WLD.89
PEROIL	22	SUNFLOWER.SUN.OIL.WLD.89
STEARIC	3	SUNFLOWER.SUN.FATTYACID.WLD.89
MORPHOLOGY Descriptors		
SDMOTTLING	1 - ABSENT	SUNFLOWER.AMES.SUN.INC.05P
SDMOTTLING	1 - ABSENT	SUNFLOWER.AMES.SUN.INC.08H
SDMOTTLING	1 - ABSENT	SUNFLOWER.AMES.SUN.INC.09H
SDMOTTLING	9 - PRESENT	SUNFLOWER.AMES.SUN.INC.05P
SDMOTTLING	9 - PRESENT	SUNFLOWER.AMES.SUN.INC.07P
SDMOTTLING	9 - PRESENT	SUNFLOWER.AMES.SUN.INC.08H
SDMOTTLING	9 - PRESENT	SUNFLOWER.AMES.SUN.INC.09H
SDMOTTLING	9 - PRESENT	SUNFLOWER.AMES.SUN.INC.10H
SDPIGANTH	1 - ABSENT	SUNFLOWER.AMES.SUN.INC.05P
SDPIGANTH	1 - ABSENT	SUNFLOWER.AMES.SUN.INC.07P
SDPIGANTH	1 - ABSENT	SUNFLOWER.AMES.SUN.INC.08H
SDPIGANTH	1 - ABSENT	SUNFLOWER.AMES.SUN.INC.09H
SDPIGANTH	1 - ABSENT	SUNFLOWER.AMES.SUN.INC.10H
SDSTRPCOL	3 - BROWN	SUNFLOWER.AMES.SUN.INC.08H

Manages Stored Images



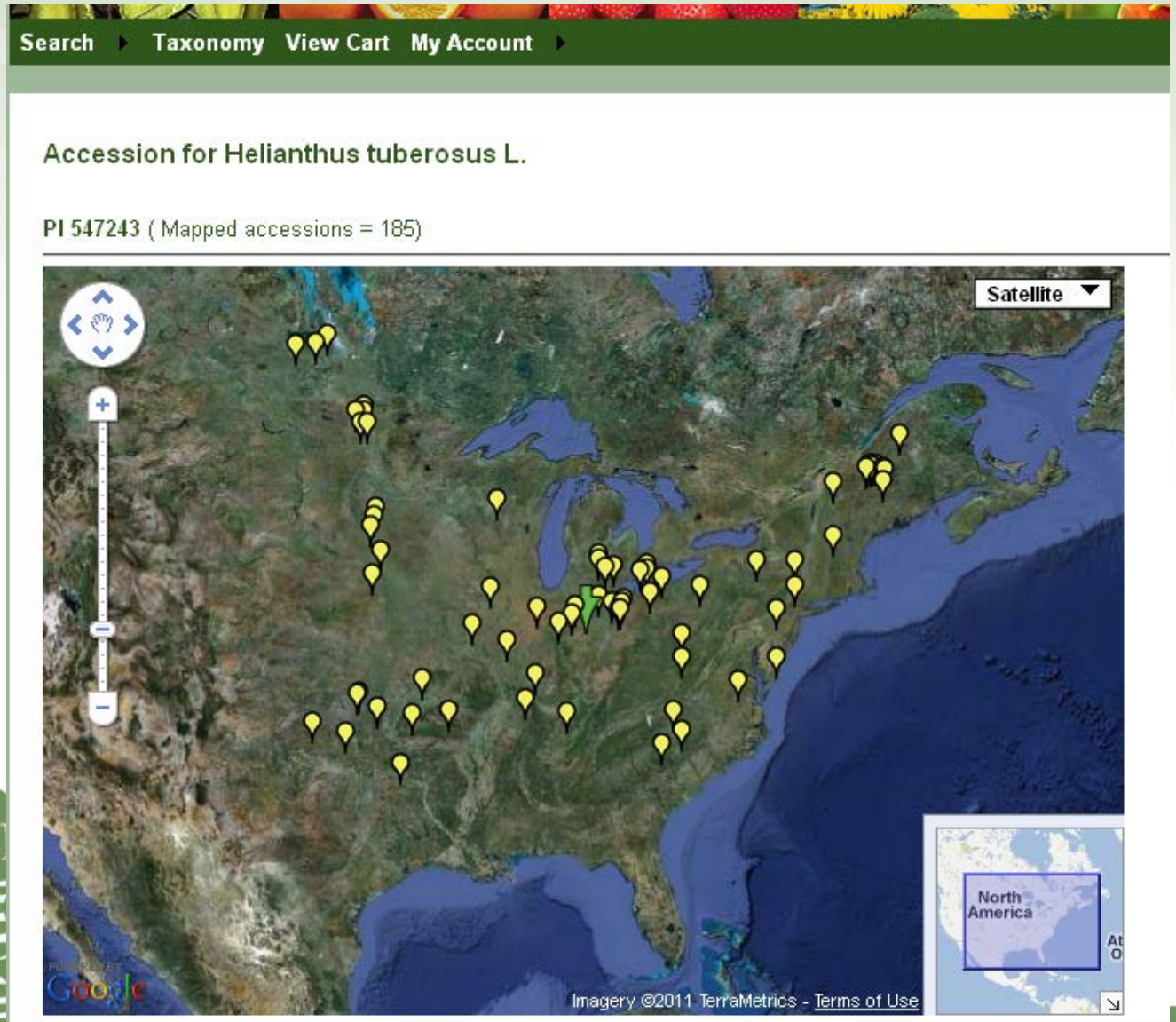
Export Feature

Users can search for records from the Public Website and then easily download the information



Shopping Cart Feature

Associates Data w/ Google Maps



For additional information, please visit:

- www.grin-global.org (project background)
- http://www.ars-grin.gov/npgs/gringlobal/ggwiki/sb/home.html
- (training and documentation references including user guides, videos, exercises, and presentations)