GRIN-Global Server Release Notes

Document Revision Date
December 19, 2025

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Archived Versions
Versions 2.0.3.1 – 2.2.2: http://grin-global.org/docs/Server_Release_Notes_archive02.pdf
Versions 1.9.1 – 1.10.6.1: http://grin-global.org/docs/Server_Release_Notes_archive.pdf

Abbreviations Used

- CWR Crop Wild Relative
- CT Curator Tool
- GG GRIN-Global
- PW Public Website
- SE Search Engine
- ST Search Tool
- WEP World Economic Plants

2.3.12

February 24, 2025

This release primarily includes changes that enhanced the taxonomy pages.

Trac Ticket #	Category	Description / Notes
2755	Public Website	In a previous modification, an accession tally (number) was displayed for the number of accessions relevant to the citation. In this enhancement, the number now has a clickable link which invokes the search page using the citation for the search, making it possible to review these citation-related accessions and add to the request cart if desired.
3035	Public Website / Taxonomy	On the World Economic Plants page, corrected the search so that a common name comprised of multiple words will be found.
3036	Public Website / Taxonomy	Modified the Taxonomy Search page to include citation and note fields from the taxonomy_common_name table.
3039	Public Website / Taxonomy	Modified the taxonomy regulation download page to remove the extra space for all methods that formatted taxonomy names. Also commented out unused methods.
3042	Public Website / Taxonomy	Corrected the display in the taxonomy genus (and subdivisions) pages to display the List results tab
3043	Public Website / Taxonomy	On the taxonomy species page, on the Distribution tab, code was changed so that the references associated with the distributions are listed at the page bottom. The exportable format was modified to add the citations for the distribution record (when they have a citation.)
3049	Public Website	The rollover "Main menu" text on the menu items was removed.
3054	Public Website	A bug was corrected so that the family portion of the CWR search will display families.
3060	Public Website	NPGS distribution policy text was added to the order checkout process screens as well as a link to the NPGS distribution policy.
3062	Public Website	Modified the user profile page to consistently display the country in the addresses.

Trac Ticket #	Category	Description / Notes
3063	Public Website	Changed the Taxonomy CWR (Crop Wild Relatives) detail page so the list is sorted and displayed in alphabetical order.

Dataviews Changed in this release (2.3.12)

web_lookup_taxon_family_cwr
web_taxonomyspecies_distribution_2

2.3.11

December 31, 2024

Modifications were made to the Public Website to meet USDA NPGS needs for tracking requests requiring SMTA acceptance by foreign requestors for propagative material. Release 2.3.11 also contains many minor fixes and enhancements.

Trac Ticket #	Category	Description / Notes
2090	Public Website	Added "Distribution Form" on the advanced search option.
2754	Public Website	Modified descriptor so that the method is shown as a link after the frequency.
2939	Public Website / Taxonomy	Changed nodulation logic which now allows the code to include multiple family name and while also maintaining security vulnerability requirements.
2940	Public Website	Added the ability to exclude accessions with existing SMTA or GEO. Also, in the advanced search options, updated the wording associated with search for accessions with genomic data, images and NCBI links.
2942	Public Website / Taxonomy	Corrected the code in taxonomysearch to include is_web_visible in query.
2944	Public Website / Taxonomy	Added options on the Genus tab for limiting results to hybrids only or excluding hybrids from the results. Hybrids are included by default.) On the Results tab, added an "Exclude hybrids" checkbox that filters hybrids for genera or species, depending on the results.
2976	Public Website	Minor wording change when an item is unavailable.
2977	Public Website	Corrected sorting issue with numeric fields on the PW reports.
2980	Public Website / Taxonomy	Enhanced the citation builder to assess differences in the taxonomy_species_ID fields so that taxon names are formatted correctly. Also added code to look for is_accepted_name where the citation taxonomy_species_id is different than the taxonomy_use/common_name ids. When that condition happens, the text "as Genus species" is included in the note field in the taxonomy_use/common_name records.

Trac Ticket #	Category	Description / Notes
2989	Public Website	Corrected issues when cooperator names have a " ' ." Similarly, corrected the non-display when an apostrophe is in the attachment description field.
2990	Public Website	Corrected an issue when previously selected inventory items in the shopping cart are no longer available.
2996	Public Website	Enhanced the PW to display on request history details the order attachments made via the Curator Tool's Order Wizard.
3000	Public Website	Added link on primary GG page pointing international requesters to https://www.fao.org/plant-treaty/en/ for SMTA information.
3004	Public Website / Taxonomy	Changed controls so that the nodulation and the distribution results are sorted alphabetically.
3005	Public Website	Corrected a bug which occurred when a Public Website report was displaying a cryptic error warning when adding a parameter entry resulted in zero records.
3008	Public Website	Updated links for SMTA and for The International Treaty on Plant Genetic Resources for Food and Agriculture on the order page.
3009	Public Website	Corrected an error that occurred when the selected category was changed after having previously run a PW report successfully.
3011	Database	Added SMTA Flag field to Order Request Item and Web Order Request Item tables.
3013	Public Website	Changed a dataview and a .cs file to display (or use) NLGRP, rather than the former acronym, NSSL.
3015	Public Website	Programmed the following logic for NPGS only (not international genebanks… <add key="DefaultCountry" value="United States" />) When the form is propagative and requestors have an international shipping address, the item is flagged as **is_smta_restricted** in the web_order_request_item table. The flag is then used in orderhistorydetail and query/aweborderdetail to determine what items were sent out with the SMTA. (Items received with an attached SMTA attached are also flagged as **is_smta_restricted**.) Changed multiple pages: order, orderhistorydetail, Utils.cs, query/aweborderdetail, web_order_history_detail,

Trac Ticket #	Category	Description / Notes
		web_request_item_display.
3016	Public Website	Changed web_qry_view_new_web_orders dataview to link to the newer aweborderdetail page.
3017	Public Website	Modified code in Utils programming logic to use the code NLGRP (formerly NSSL) in directing emails to the site.
3019	Public Website	Corrected a bug – the web_accessiondetail_annotations_2 dataview now properly uses the group_name ANNOTATION_TYPE.
3020	Order Wizard Dataviews	Dataviews were modified so that the CT/OW can handle the is_smta_restricted field and new fields in web_order_items and order_items. Accessions shipped under SMTA can then be tracked consistently, no longer solely relying on accession IPR records.
3023	Public Website	Changed the web_accessiondetail_observation_phenotype_2 dataview so that when materials_and_methods is null in the methods table, method_name is used to avoid having a null link.
3025	Public Website	Enhanced the contrast for better visibility to the buttons used for column selection.
3026	Public Website	Changed wording on the website saying that "available" will include inventory that may not be seasonally available.
3027	Public Website	In the descriptor search, added a checkbox to limit searches to only those records that have images.
3028	Public Website	Corrected defect so that now is_web_visible is now included in the NCBI searches.
3029	Public Website	Edited the text that explains when items are not available and moved this text above the search results. Also removed the current explanation.
3032	Public Website	Corrected a typo: the accession summary tab displayed “Life Habitat.” The heading was changed to “Life Habit.”
3034	Public Website	Changed the Detail Summary Page dataview to find the top name using the same method as used by the accession search.

Database Changes in this release (2.3.11)

Table Changed	Field	Change
web_order_request_item	is_smta_restricted	field added
order_request_item	is_smta_restricted	field added

Dataviews Changed in this release (2.3.11)

order_wizard_get_order_request_item

order_wizard_get_packet_label

order_wizard_get_web_order_request_item

web_accessiondetail_accessionnames_2

web_accessiondetail_annotations_2

web_accessiondetail_observation_phenotype_2

web_accessiondetail_summary_2

web_citations_multiple_commonnames_2

web_citations_multiple_taxuse_2

web_lookup_acc_distribution_search_types_2

web_order_attachments_CT_2

web_order_history_detail

web_order_request_item_display

web_qry_view_new_web_orders

web_searchcriteria_item_list_2

web_taxonomy_hybrid_fullname_by_taxidlist_2

2.3.10

September 28, 2024

Release 2.3.10 primarily contains minor fixes and enhancements.

Trac Ticket #	Category	Description / Notes
2594	Public Website	Added Improvement Status column to the Search results page. Now displays “Genetically Engineered” when relevant.
2704	Dataview	The **Production Location** field now displays in the **Order Request Item** dataview.
2790	Dataview	The **Production Location** field now displays in the Order Wizard Item grid (**order_wizard_get_order_request_item** dataview).
2955	Public Website	Added a searchable DOI textbox to the Advanced Search options. Also, a key was added to the web.config file, <add key="ShowDOISearch" value="true"/> so that genebanks can decide to include or not.
2956	Public Website	"Donator" was replaced by “Donor” on the accession details and the source history pages.
2968	Public Website	When submitting a request, when the requester has clicked the respective GEO accepted radio button, the “GEO accepted” action lists in the request’s history details.
2970	Public Website	The GEO accepted action is included when relevant in the requester’s history details.
2971	Public Website	Corrected the page to always display the accession’s web_availability_note.
2972	Public Website	Corrected searches to trim trailing space characters. Previously, the search included the space characters produced misleading results.
2974	Public Website	Changed the accession summary and detail pages so that a displayed DOI will act as a link.
2975	Public Website	Modified the crop detail page so that longer method names no longer overlap.
2976	Public Website	Improved wording for the seasonal message when the accession is not available.

Trac Ticket #	Category	Description / Notes
2977	Public Website	Corrected the sorting and alignment of numbers listed on reports.
2978	Public Website Report	The dataview for the internal “Users at a Site” report was edited to properly sort by the site code (:site parameter).
2979	Public Website (software)	Updated jquery datatables (an internal coding improvement).
2984	Public Website	Modified wording in PW SMTA acceptance dialogue box.
2985	Public Website	The site group address is now used when a PW requester attaches files to the request. The wording of the confirmation email was improved and now references the attachment filename(s).

2.3.9

July 27, 2024

In Release 2.3.9, the major change is the move of the SMTA and GEO acceptance to a more prominent position on the requester's page so that this information is more likely to gain the requester's attention. Several changes were made to taxonomy-related website pages – taxonomy downloads consistently include the Species ID and nodulation was enhanced to include multiple family names. The release also includes several minor bug fixes on the GG website.

Trac Ticket #	Category	Description / Notes
2939	Public Website / Taxonomy	Changed nodulation so that each family name is assigned its own DataParameter, which allows the code to include multiple family names and also maintains security vulnerability requirements.
2949	Public Website	Changed controls/viewprofile to limit the number of characters allowed in the address name to 50. Also limited other text inputs to the maximum number of characters as determined by the field in the database tables.
2950	Public Website	It was possible for users to have older items in their cart that did not contain the inventory_id. This caused assorted problems with the cart and order history. Coding was changed to not retrieve records where inventory_id is null.
2951	Public Website	The PW was ignoring a valid date format: ***yyyy*** but was instead displaying the full date. This error was corrected.
2953	Public Website	Corrected the incorrect accession link error on the "Ordered Items" list on the PW Report "A User's Web Request Detail View."
2960	Public Website / Taxonomy	Changed code/controls so that all downloads of taxonomy data include the species ID.
2962	Public Website	Modified the citation builder logic to remove the extraneous word "In" in citations when it should not be. Also corrected a minor spacing issue after reference_title
2963	Public Website	Modified the order page - moved the SMTA/GEO acceptance to display more prominently on the page. Changed processing when either SMTA and/or GEO is declined so that the page refreshes to display the items that were removed from the cart. Also removed formatting that was displaying in the wrong column.

2.3.8

May 11, 2024

Release 2.3.8 consists of many Public Website wording improvements. A requirement has been added (similar to the SMTA) to enforce acknowledgement by the user when the accessions(s) are GEO material.

Trac Ticket #	Category	Description / Notes
1821	Public Website	The doi_reference data is now displayed in the accession's detail page summary area as well as in the search results page.
2526	Public Website	Create a GEO acceptance process in the PW order process (similar to the SMTA acceptance)
2860	Public Website	Corrected an issue where the site links failed on either the Order History Detail page or the Web Order Detail page. Now when clicked, the site's respective page displays properly.
2864	Public Website	Added sample size to the Observation Tab (Results) on the Accession detail page
2873	Public Website / Taxonomy	Changed code in taxonomysearch to correctly search with common name on the Browse tab.
2883	Public Website	Changed the display on the Accessions associated with a cooperator page to include the list as displayed in the accession search results page.
2884	Public Website	Corrected the exporting to Excel of Narrative fields with lengthy text.
2890	Trigger	The inventory trigger was updated to change the accession's backup status The result will be that any status beginning with "BACKUP" will set the accession flag.for and inventory status beginning with BACKUP
2891	Public Website / Taxonomy	taxonomy accepted name filter not working
2893	Public Website	When users click on the Map It link in the accession detail page, the map page displays a button that now includes the species being mapped instead of "Map All."
2894	Public Website	A script was changed to correct the bug where selected accessions found via crops/descriptors were not added correctly to the shopping cart.

Trac Ticket #	Category	Description / Notes
2895	Public Website	Corrected an issue to ensure the designated sort order of images in the descriptor results displayed correctly.
2901	Public Website	Changed several website pages so that the value “0” would display correctly (zeroes were displaying as a blank.)
2904	Public Website	Changed **Contact Us** so that when a user supplies the web request number, the email goes only to the sites to which the request went and not also to GrinGlobal.Orders. Code was added to have this specifically meet USDA’s requirements.
2907	Public Website	Corrected the logic – the cart is now correctly examined for items in the cart.
2908	Public Website / Taxonomy	Corrected the Shenzhen link to display correctly.
2909	Public Website	Changed display of dates so that only one date displays when an action has a start and a completed data. Also corrected a minor bug when the note has a “. “ (period space) – a second period is not displayed.
2910	Public Website	Revised the verbiage on the Create Profile page to “Registration is not required unless you intend to request germplasm. NPGS germplasm is not available for individual, home, or community gardening, or for home schooling or K-12 public or private school projects. Profiles can be updated by the registrant after they are created but cannot be deleted.”
2913	Public Website	Corrected the web order detail page to include the heading text: “Special instructions.”
2914	Public Website	When an advanced search is done on Accession Life Form, Shrub, an error occurs because there are a few plant_names in accession_inv_name that are more than 100 characters. The dataview calls it "Name" and the MT will only allow 100 characters to be in that field.
2918	Public Website	Jquery was updated so that several tables displayed correctly.
2919	Public Website	Corrected the Accession Detail page to display the accession data - Form, Cycle, Habit, or Sex – when this data has been entered.

Trac Ticket #	Category	Description / Notes
2922	Public Website	Added new Web Order Actions to provide improved progress/order status information to the requester.
2924	Public Website / Taxonomy	Changed taxonomysearch to add .Trim() to ensure there is something in the fields being searched. This also prevents a search of all species.
2927	Public Website / Taxonomy	Changed code to ensure that note fields from the CWR map and CWR trait are being displayed on the PW. The CWR map note now displays under a "Comment" column in the table that displays genepool data. Additionally, Breeding Type (reflecting breeding_type_code), Breeding Usage Note (breeding_usage_note), and Breeding Note (CWR_trait.note) from CWR trait appear for each selected map record.
2928	Public Website	Several dataviews were changed to obtain data in the inventory.owned_by field rather than the accession.owned_by field.
2932	Public Website	The frowning face image for server errors was retired / replaced by a different image.
2936	Public Website	Added text: **Curatorial review is required for non-standard distribution amounts or repeated requests for the same accession(s). We attempt to accommodate special requests, as permitted by demand and limited resources. Please explain atypical requests in the "special instructions" field during checkout.**
2938	Public Website	When the Note field was empty on the method accession page, a “0” erroneously displayed – now it does not.
2942	Public Website / Taxonomy	The browse search under taxonomy was corrected to evaluate the is_web_visible flag; when = “N,” the search results will not display the corresponding genus or species records.

13 dataviews were updated in this build:

- web_accession_availability_2_20240208.dataviewxml
- web_accessiondetail_observation_phenotype_2_20240205.dataviewxml
- web_accessiondetail_summary_2_20240228.dataviewxml
- web_cartview_20240320.dataviewxml
- web_cartview_2_20240424.dataviewxml
- web_cooperator_accessionsource_2_20240209.dataviewxml
- web_descriptor_detail_top_image_2_20240112.dataviewxml
- web_order_history_detail_20240424.dataviewxml

- web_order_request_item_display_20240424.dataviewxml
- web_order_request_item_list_20240424.dataviewxml
- web_search_overview_2_20240227.dataviewxml
- web_search_overview_noimages_2_20240227.dataviewxml
- web_taxonomycwr_summary_2_20240429.dataviewxml

2.3.7

December 31, 2023

Trac Ticket #	Category	Description / Notes
2866	Public Website	SMTA Change for International Requests Code was changed in the order page, (for NPGS only). When the shipping address is not USA, and accession's maintenance site is not DLEG,TOB, TGRC, or NTSL, the accession will be marked as subject to SMTA.
2870	Public Website	MAP Changed map page to display only one accession when the page is accessed from the accession detail page. Also, a button was added to map all accessions within that species.
2872	Public Website	Addressed a bug where server errors were being generated on the search results page. The error was related to the availability column links. While fixing this error, it was also determined that the dataview was using the wrong table/fields for determining if the accession was regulated; this error was also corrected.
2873	Public Website	When searching taxonomy for a common name under browse, an error was returned. An IF statement was added in taxonomysearch to determine if hybrid_parentage is returned before trying to add it to the table.
2876	Public Website	Changed the images page to display the image's title when the mouse is hovered over the (small) image.

2.3.6

September 23, 2023

This release primarily includes corrections to reported errors; however several enhancements have been included:

- Added a citation search to the Crop Wild Relatives (CWR) page
- Changed the uploader on the History Detail page to add a "Descriptions" dropdown of common attachment types. Also programmed the title, status, and note to be added to the web_order_request_attach table.

Trac Ticket #	Category	Description / Notes
2797	Public Website	Edited text on pages to be consistent and to differentiate a "Web Request" from an "Order." (Incoming web requests maintain their own numbering series whereas when requests are processed at the sites they are assigned order numbers sequentially (in a different number series.)
2812	Public Website / Taxonomy	Added a citation search to the Crop Wild Relatives (CWR) page. This enables people to search for cited accessions with a PI number, (often recorded in the note field).
2838	Public Website	Enhanced the file uploading in the PW order history to accommodate loading APR data sets, publications, etc. Changed the controls/uploader to add a "Descriptions" dropdown of common attachment types. Programmed title, status, and note to be added to the web_order_request_attach table.
2848	Public Website	Corrected a sorting error by removing the image column from the script that controls the special column sorting.
2850	Public Website	Corrected an error that occurred whenever the taxonomy_name field was greater than 30 characters in the orderhistorydetail, aweborderdetail and dataview web_order_history_detail pages.
2851	Public Website	Corrected the error that occurred on the summary tab of the accession detail page when an accession did not have an accession name. When the user clicked the image thumbnail, rather than the full image being displayed, the page displayed an incorrect message: "No information is available for that accession id."
2852	Public Website	Corrected the error that was occurring for cultivar names. They should have had a pair of single quotes for the accession name in the image display page.

Trac Ticket #	Category	Description / Notes
2853	Public Website	Changed the logic to consistently sort alphabetically when there were two top names with the same lowest rank.
2855	Public Website / Taxonomy	Adjusted the citation builder script so that when literature.standard_abbreviation is null and citation.author is not null, the script now adds "*In: literature.editor_author_name, ed., literature.reference_title*" Example: "In: Smith, C. W. et al., ed., Corn: origin…" for literature_ID 2155.
2856	Public Website	On the wish list page, corrected an invalid link to the accession detail page.
2859	Public Website	Corrected the search logic to also include the is_web_visible = 'y' constraint to the search string in the search.cs script.
2860	Public Website	Changed orderhistorydetail and aweborderdetail so that the link to site now goes to the correct page.
2862	Public Website	Changes made to orderhistorydetail/aweborderdetail were causing an error. Corrected weborderhistory so that FormatTaxa stopped throwing this error.

2.3.5

July 29, 2023

Modifications primarily improved user experience on the GRIN-Global public website. Main changes involved consistent wording or formatting. Also, several bugs were addressed.

Trac Ticket #	Category	Description / Notes
2797	Public Website	Edited text on pages to be consistent and to differentiate a “Web Request” from an “Order” (a web request that has been filled is assigned one or more order numbers, whereas the incoming web requests maintain their own numbering series).
2806	Public Website	Added georeference protocol and controls to the accessiondetail page under the **Passport** tab.
2807	Search Engine	Modified web search criteria to add georeference protocol for the search.
2816	Public Website	Corrected a bug when the PW was looking for author or title. Removed space before trailing % as in “%Dubcovsky %.”
2819	Public Website	Corrected the situation that occurred when downloading observations via a method. Observations that were archived (IS_ARCHIVED = 'Y') were improperly included in the download.
2820	Public Website	Corrected pages when the “Is_web_visible” flag for Accession_Inventory_Names was not working properly.
2821	Public Website	A new dataview, web_method_descriptor_2 was created to get the correct accession counts. The method.aspx and method.cs files were modified to handle the corresponding dataview changes.
2823	Public Website / Taxonomy	Updates the CITES conservation status displayed on the taxonomydetail pages to look for the "CITES Appendices" literature source in the citation table for family, genus, and species records.
2826	Public Website	Changed orderhistorydetail and query/aweborderdetail so that personal staff emails from older requests are translated to the Contact Site links.

Trac Ticket #	Category	Description / Notes
2828	Public Website	Modified several pages: web_accessiondetail_header_2, web_cooperator_accessionsource_2, web_method_download to check that the accession is web visible before displaying information.
2829	Public Website / Taxonomy	Changed scientific name search to look for hybrids. Added "no hybrid symbols" to the text label.
2830	Public Website	Modified search logic so that the Advanced search is properly initialized with dropdowns.
2831	Public Website	When search results tables have more columns than can fit on a page, a javascript error occurs, or the table's column heading overflows the table. Included javascript to allow for the table to be reinitialized and to adjust the columns and to redraw the table upon window.onload().
2836	Public Website	Changes in 2.3.5 cause SYS owned accession not to display for the PW search.

2.3.4.1

June 6, 2023

Three bug fixes were implemented in this minor release.

Trac Ticket #	Category	Description / Notes
2814	Public Website	Fixed a bug that occurred only when Home Gardening web order requests were submitted; all other types were successful.
2815	Public Website	Corrected an error some users were receiving when they attempted to review their order history details. (The same issue occurred for the internal staff's "A web user's detail history report.")
2817	Public Website	Changed a field name – a server error indicated that "repository" was missing from the data source.

2.3.4

Modifications primarily improved user experience with the GRIN-Global public website and in a few cases with the Curator Tool, adding clarity and consistent formatting or wording. Some recent, relatively minor bugs were corrected. Most notable, added a PDF download option for all data reports.

Trac Ticket #	Category	Description / Notes
1415	Public Website	Modified code. Now searches a site's Cooperator record to determine if the availability status should display "CONTACT SITE."
2056	Public Website	Added a hint for selecting a range of values (BETWEEN equivalent).
2066	Public Website	Edited wording on several pages – replaced "repository" with "genebank." Also modified relevant dataviews.
2471	Taxonomy	On the family detail page, a link added under "List of genera records in GRIN" that reads "Genera formerly in family." Link produces a table of genera and their current family assignment of genera formerly in a family.
2565	Taxonomy	Updated the Summary box on the taxonomy family page to hide Alternate Name if not applicable and added "Kind of family:" and

Trac Ticket #	Category	Description / Notes
		displayed the title that corresponds to the correct taxonomy_family_type group code in the code value table.
2580	Schema	Removed **life_form_code** from the **get_taxonomy_species** dataview.
2616	Public Website	Corrected the viewprofile page so that the Cancel button works properly when a new user clicks to edit, then cancels and doesn't fill in information.
2715	Public Website	Added frequency to the accession results observation page in the accession search, similar to the descriptor page.
2720	Dataview	Changed web dataview to use data in the database (cooperator secondary_email field) for web order email address.
2754	Public Website	Modified descriptor so that the method is shown as a link after the frequency.
2764	Public Website	Modified cart view and orders so they both have the same columns and are in the same order. Other minor formatting changes were made.
2765	Public Website	Modified display by adding space after reference_title in Citations.
2768	Public Website	Added script to Script/acctablescript.js, acctablescriptdoi.js, acctablescriptni.js, acctablescriptnidoi.js to replace leading and trailing single quotes with nothing so cultivar names do not have the quotes when exported.
2776	Public Website	Modified the aweborderdetail query (internal “A User’s Web Order Detail View” report) so that the Excel button exports table data.
2777	Public Website	Modified orderhistorydetail to export an Excel spreadsheet that has the same column names and order as the PW, with the addition of the date submitted.
2778	Public Website	Changed the crop detail page to show the materials_and_methods column as a separate column rather than a hover over.
2781	Public Website	Modified ordershistorydetail (and similar query/aweborderhistory) to include a "Contact Site" link. The mouseover shows the site's order email address and when clicked opens the client's email application. The email will use the site's order email address in the

Trac Ticket #	Category	Description / Notes
		To box, the text "Web Request" displays in the Subject line and includes the web request number. The email body begins with "Request information regarding (action title) of order number (order number)."
2782	Public Website	Hid all NRR -related actions from PW history detail.
2785	Dataview	Changed the Curator Tool inventory dataview's friendly heading name from "Availability Status" to "Inventory Status."
2788	Public Website	Added a new method (NPGSOrderEmail) in Utils for obtaining NPGS order email addresses. When the site short name is passed to it, the method formats the email address.
2789	Public Website	The Site Map was updated to include the new GRIN-U link from the menu.
2796	Public Website	Modified the wording in the Contact us form indicating to the requester to supply the web request #. Also, changed the left heading to: "Web request:"
2797	Public Website	Language was changed on multiple web pages to differentiate "Web Request Number" and "Order Number."
2800	Public Website / Taxonomy	Corrected a bug where the species list from a genus page wasn't alphabetized.
2801	Public Website	Changed query/query (reports) to add an option for PDF downloads. Also consistently used the report name as the file name for the downloaded file.
2803	Public Website	Added an .ico image with the GRIN-Global website. (An ico image displays on the browser tab.)
2804	Public Website	Changed a control on the user profile page to catch errors caused by the profile having a country/region no longer considered valid.
2808	Public Website	Modified code to eliminate SMTA showing up for accessions that weren't. Also corrected an error when the submit button became inactive on a page repost; the code was not honoring the 150 characters requirement in the objectives box.
2809	Public Website	Corrected controls with country/state to ensure that only a numeric value can be passed to get the state list.

2.3.3

Requestors will now receive a link to the FAQ document about order processing and shipping in the system-generated acknowledgement email they receive after submitting a request. A second improvement created a field to enter the Web Order Number in the Contact Us form. When this information is entered, the system routes the email directly to the site Outlook box(es). Also in this release, images of plant parts can be selected in the Advanced Search criterion.

Trac Ticket #	Category	Description / Notes
2003	Dataview	Both the CT report and the PW report have been modified to show the same list of active users at the site. Changes were made to the following dataviews: rpt_cooperator_by_site_20230203 web_qry_list_users_at_site_20230203 sys_matrix_input_20230203
2587	Dataview	Enhanced the CT Code Value Language dataview get_code_value_lang to display two additional columns: the group name and the codes.
2611	Public Website	In general, made changes to make the page more user friendly, including moving the order request actions directly below the requestor's address near the screen's top.
2613	Public Website	Corrected an error in the Order form. Now when the requester selects the country name data from the database, the code value is restricted with a WHERE clause so that the selection is made from the GEOGRAPHY_COUNTRY_CODE group.
2625	Public Website	Added a link in the Email that requestors receive that takes them to the Order specific FAQ
2642	Public Website / Taxonomy	Made changes to the taxonomysearch family section to add a dropdown list of values above from family_type_code in the taxonomy_family table.
2648	Public Website / Taxonomy	Added taxonomy_species_ID as a column to all exported Excel or CSV files that generate a list of species from one of the taxonomy searches.
2661	Public Website	Changed controls/accessiondetail/accessiongroup so that when an accession is in more than one group the pages would be able to properly handle multiple groups.
2662	Public Website	Editing / text changes were made to the "new user" profile pages to address a couple of minor issues.
2665	Public Website / Taxonomy	Added code so that if a user looks for hybrid parentage and there aren't any in the species table, it looks for the hybrid in the genus

Trac Ticket #	Category	Description / Notes
		table and displays in the genus results table. If a user exports to CSV, the equal sign in front of the hybrid parentage (the note field in the genus table) will not be displayed to avoid an Excel / CSV issue when the CSV is opened in Excel. Made changes to taxonomysearch and TaxonUtil.
2673	Public Website	Corrected a SQL error on the descriptor search page when the search included the advanced criteria for scientific name.
2676	Public Website	Added the accession Top name to the order item list generated by the order confirmation email.
2677	Public Website	The dropdown was changed to list “Accession Narrative Field” instead of “Note.” This matches the label heading under Passport data. (In the CT, this data comes from the Accession.Note field.)
2678	Public Website	Formatted the emails/Orders.html and put the items into table format for easier reading.
2682	Public Website	Enhanced the search for the plant name by embedding the text within wildcards to widen the search.
2690	Public Website	Editing / text changes were made to the “User Profile Register” pages.
2693	Public Website	Included logic when considering Names to require is_web_visible in PW the search criteria.
2694	Public Website	Duplicated and modified the existing Web Order Detail report so that internal genebank staff could access essentially a clone of the report that external requesters see.
2695	Public Website / Taxonomy	Sorted the World Economic Plants (WEP) subclasses so that items would be listed alphabetically.
2696	Public Website / Taxonomy	Corrected the sorting logic to add a space between species and author for more accurate sorting.
2699	Public Website	Added another option, "Web Order Status Question" to the Contact Us drop down.
2700	Public Website / Taxonomy	Changed taxonomydetail page so that Usage has its own results table; all columns now display.

Trac Ticket #	Category	Description / Notes
2703	Public Website	When the user supplies a valid web request number on the Contact Us form, the resulting email is directed to the sites involved with that WOR.
2706	Public Website	There was a question on leaving the asterisk in for each % frequency value; the asterisk has been removed from % (frequency) values on trait displays.
2708	Dataviews	Enhanced the **get_dataview_list** dataview to include CT Wizard dataviews. This capability is needed for a new Report Manager to be included in a future CT release.
2709	Public Website	Changed the font-family for the text used in creating PW web queries to a monospace font. Also removed the spell check feature from the SQL Query box.
2717	Public Website	Added "image for plant parts" as a new category for advanced accession/descriptor searches. Also changed controls/ adv criteria to use the ATTACH_DESCRIPTION_CODE in the code_value_lang table for possible plant parts.
2718	Public Website	Added a new feature where a link now displays for the total number of accessions referenced by a citation (under the "Other" tab). Also, clicking the link initiates a query of the citation table for all accessions under that literature_id.
2721	Public Website	Changed the text "Order Number" displayed twice on the user's order history details, including the prominent top left corner. Text was changed to "Web Request" to reduce some confusion by differentiating from the final order numbers assigned by the wizard.
2732	Public Website	Corrected the display of criteria that were used when the user had selected multiple values in the "other search criteria" dropdown. Previously, the display only showed the first criteria, even though the search was performing correctly and using all selected criteria.
2733	Search Engine	Corrected the Search Engine to accept Unicode space variants in the query. This eliminates errors occurring when a requester pastes from sources using special formatting.
2741	Middle Tier	Enhanced the server Middle Tier SaveData method to enforce values going into coded *_code fields and the Boolean *is_ * fields (SMALL_SINGLE_SELECT_CONTROL and TOGGLE_CONTROL). Coded fields will now be limited to accepting values from the code_value table for the code group. Boolean fields will be limited to either Y or

Trac Ticket #	Category	Description / Notes
		N. Invalid values will throw an exception back to the CT as with any other error, with the row (record) not going into the database.
2742	Trigger	Corrected the Cooperator trigger so that it will leave null strings null.
2746	Public Website	Made the Order request action comment code web visible so that the external users can see it.
2750	Public Website	Corrected a display - synonyms were showing on homonym pages even when the homonym isn't an accepted name.
2753	Public Website	Addressed a bug that occurred when an accession search returned no results; the search parameters weren't shown. To remedy this, the results panel was moved further down on the page so that the query display is shown even when the search doesn't return any accessions matching the search criteria.
2757	Public Website	Corrected an error when the acceptance of SMTA was blocking the functioning of the Order Submit button.

2.3.2

November 19, 2022

In this server release, many changes were made to web pages to adhere to Web Content Accessibility Guidelines (WCAG). Other enhancements to the GG Public Website were made to improve its usability or and consistency.

Trac Ticket #	Category	Description / Notes
1947	Public Website	In the Advanced Search, the **Accession Narrative** field is now included as a searchable field.
2367	Public Website	Availability of items in the cart is checked now at the time when the user submits the request. This remedies scenarios when a user had previously added items to the cart, but then at the time when the request is submitted, these items are no longer available.
2417	Public Website	Added verbiage on the request form indicating that the intended use needs to be detailed.

Trac Ticket #	Category	Description / Notes
2530	Public Website	Public Website now can display accession inventory group images.
2554	Public Website	Added a search box on the species tab to enable searches using wildcarded text from the new hybrid_parentage field.
2555	Public Website	Added a line for Hybrid parentage to be displayed in the Summary block when the field is not null.
2593	Public Website	Added a character count requirement (150 characters), for the intended use box in the request form.
2598	Public Website	The email subject line on emails generated by the GG Contact Us form now includes “GRIN-Global Help” in the subject line, making it easier to recognize the email’s source.
2606	Public Website	Corrected the parameter display in the World Economic Plant (WEP) taxonomy page to stop retaining information from the previous search.
2608	Public Website	Improved file upload security by adding a new parameter to the web.config that creates a whitelist for the uploader of allowable file extensions that can be uploaded. (The uploader now checks for both a blacklist and the new whitelist.)
2614	Public Website	Added a search box for Crop common name in the Crop Wild Relatives (CWR) page that queries the CWR map table for crop common name as the main search term.
2615	Public Website	Included the taxonomy_species_ID column in downloads resulting from a search on either of the WEP taxonomy or the nodulation pages.
2617	Public Website	Corrected the common name search on the World Economic Plants (WEP) page to return only the common names included by the search term and not common names that only match taxa. Also, modified the text used for the common name heading.
2618	Public Website	Changed the WEP page’s title to “World Economic Plants GRIN-Global.” (The title displays in a browser’s tab.)
2619	Trigger	A trigger (the OrderRequestPhytoLogDataTrigger) was modified to generate Order Request Action records when information is filled in the "Setup Inspection date" and the "Inspected date" columns of the Order Request Phyto Log. The respective (new) codes are used in the action records:

Trac Ticket #	Category	Description / Notes
		ORDER_REQUEST_ACTION.INSPECT_SETUP ORDER_REQUEST_ACTION.INSPECT_DONE
2622	Public Website	Updated the PW user's history page to display the new order request action codes pertaining to the request's phytosanitary inspection status. Codes: ORDER_REQUEST_ACTION.INSPECT_SETUP ORDER_REQUEST_ACTION.INSPECT_DONE
2628	Public Website	Several updates were made to the SMTA related text. Our link was updated to https://www.fao.org/3/bc083e/bc083e.pdf This link will now open the SMTA PDF in a new browser session. Also, the Regex now looks for either http or https url's when converting into a link.
2629	Taxonomy Pages	To calculate the genus and species count throughout the "about taxonomy" page, the SQL was changed to include only accessions that are marked is_web_visible.
2630	Public Website	Corrected the heading font size on all Crop Wild Relatives (CWR) detail pages to be consistent with other pages.
2631	Data Trigger	The cooperator DataTrigger now automatically removes leading and trailing spaces entered by a user in cooperator record text fields.
2632	Public Website	Corrected the operators (> and <) used in the starting and ending date range calculations to be inclusive (>= and <=) when determining seasonal inventory.
2637	Public Website	Changed accession search results header to meet WCAG (accessibility) requirements.
2638	Public Website	Corrected the search result page to not cause a run time error when an accession with multiple available items is active and the user clicks the "Add to Cart" button on the top of the result page.
2639	Search Engine	The Search Engine was modified to support GROUP BY in sub-SELECT SQL queries.
2640	Search Engine	The Search Engine was modified to support UNION in sub-select SQL queries.
2643	Public Website	Corrected a bug that occasionally occurred where an incorrect geography_id was saved in the user's profile when an international

Trac Ticket #	Category	Description / Notes
		address was being updated.
2645	Public Website	A missing arrow.png file was added so that the maps.aspx page properly displayed the accession being mapped.
2652	Public Website	Adjusted the spacing of the checkboxes for the Crop Traits on the Crop Wild Relatives search page.

2.3.1

September 10, 2022

This server release contains many changes to taxonomy and enhancements to the GRIN-Global public website pages. The accessibility of the public website to people with disabilities (Web Content Accessibility Guidelines ("WCAG")) is improved in this version. For example, some color schemes have been changed to improve the experience for color-blind users.

Trac Ticket #	Category	Description / Notes
1679	Taxonomy	Corrected the World Economic Plants Public Website page (https://npgsweb.ars-grin.gov/gringlobal/taxon/taxonomysearcheco.aspx), so that the **Include synonyms** check box functions properly. Corrected how the new World Economic Plants web page includes synonyms by not reusing the code in taxonomysearcheco.
1987	Database	A DOI field was added to the Inventory Table, per the request of various genebanks. The USDA will not be using this field, so the field is not included in the dataview.
2055	Database	Added three new columns to the Accession table to split out accession life form information better. The three new fields maintain lifecycle, lifehabit, and accession_life_sex data. (Note: the original lifeform field remains, to ensure backwards compatibility.)
2130	Public Website	Added **Frequency** to the descriptor search results in the Public Website.
2274	Dataviews	Type_code was removed from the accession IPR citation, accession pedigree, method, and genetic marker dataviews in the CT and ST.
2333	Database	Added an **Origin** field to the **Inventory** table (and dataview) that captures geography (Country, State, etc.) information about where each specific inventory lot was grown, maintained, or produced. This

Trac Ticket #	Category	Description / Notes
		field simplifies identifying where the inventory lot was grown (or for clonal plants, where they are physically being propagated).
2372	Public Website	Added Page title to several taxonomy pages where the title had been omitted in a recent update.
2422	Public Website	Corrected a bug that corrected when invalid links resulted from a missing comma under certain conditions.
2427	Database	Added a field for family_type to the taxonomy_family table and added a code value group for family type.
2428	Database	Modified **get_taxonomy_common_name** dataview, adding **get_taxonomy_common_name_language** field/lookup reference and removed language-related text fields.
2448	Taxonomy	Changed taxonomy family search to return results only for families with TAXONOMY_FAMILY_TYPE code values of FERN, FERNALLY, GYMNO, DICOT, MONOCOT, ANA, or MAGNO.
2468	Taxonomy / Database	Created a new table, taxonomy_synonym_map, to store species synonym relationships. Includes the fields ID (pkey), taxonomy_species_ID fkey, synonym_code, taxonomy_species_ID fkey, and note.
2495	Database	Two new Order Action codes were added to facilitate Phyto request order management.
2528	Public Website / Taxonomy	Included the **Note** field from taxonomy_common_name in the table of results for common names on the PW.
2544	Public Website	Accessibility Compliance: Used the Axe devTools to make the PW as WCAG compliant as possible. Also worked on making the web page presentation more consistent throughout the site.
2545	Public Website	Changed text displayed on several search result pages from "Seasonal Not Available" to "Out of Season." Also made this link to the accession detail page; now displays text "See accession detail."
2546	Public Website	Changed the user profile page so that US state and shipping address state have no state as default. The states must be filled in (selected by the user) to update the record.

Trac Ticket #	Category	Description / Notes
2547	Public Website	Added an **Update Limit** button on the Search Result s page to indicate to the user that more items could have been displayed if the limit had been higher.
2549	Public Website	Added a warning on the **Wish List** page that the Wish List is not monitored; also made some minor edits to the labels on the page; removed “usage” column; added additional fields: taxonomy, origin, and name; made other formatting improvements to the table.
2551	Public Website	Changed the user login page so that the username is checked before the password. If the username is not found, a message indicates that the username is not in the system. If the username is good, but the password is not, the message indicates that an incorrect password was provided.
2552	Database	Added "**Is Web Visible**" fields to Genus and Species tables. The corresponding dataviews have the fields set to a default of "Y."
2559	Taxonomy / Public Website	Corrected the web_taxonomyspecies_summary_2 dataview to compare not only genus_name, but genus authority as well.
2560	Public Website	Corrected some bugs found with the log in page, particularly with forming the URL properly to correctly return to the previous page.
2561	Database	Added **taxonomy_genus_id** to the indexing.
2562	Taxonomy Dataviews	The taxonomy_species dataview was updated to have its columns arranged in a specific order.
2563	Public Website	All the controls used for accession detail, as well as the page itself, were updated to use better error handling. This coding was also used to update some of the taxonomy detail controls.
2567	Public Website	Changed taxonomysearch to include the is_web_visible field while searching. Also changed the web_taxonomyfamily_ view_generalist_2 dataview so that on the family details page, only is_web_visible genus records are returned.
2568	Public Website	Changed taxonomysearch to include is_web_visible while searching. Changed dataview web_taxonomygenus_view_specieslist_2 so that on a genus details page, only is_web_visible species records are returned.
2569	Taxonomy / Database	Two fields were removed from the **taxonomy_author** table since they are not used:

Trac Ticket #	Category	Description / Notes
		1_ short_name_expanded_diacritic 2_ full_name_expanded_diacritic
2570	Taxonomy	Modified the search for a genus match when a species query returns no species results. More of the text string is evaluated.
2573	Dataview	Added friendly names (titles and descriptions) for the four Season Start and End Date fields in **Inventory Maint Season Availability.**
2574	Public Website	A new icon is now used when the accession has multiple available forms/inventories.
2575	Public Website	Added a link to GRIN-U under the GRIN menu item on the GG search main page.
2576	Taxonomy	When a user selects a state and the "Include U.S. and/or Worldwide" option, too many records were returned. Changed the code so that native species are treated correctly.
2578	Public Website	Addressed a defect. The variable "sent" in forgotpw that is no longer needed was removed altogether.
2579	Database	A procedure has been created to verify that the url fields in accession_inv_attach contain valid URLs. Two new fields were added to the table. A Y/N flag field to indicate the URL validity and a validation_date field to record the date on which the validation procedure was run.
2580	Database / Schema change	The **life_form_code** field was removed from the taxonomy_species table (and corresponding dataview)
2581	Public Website	Restored subscription checkbox in the user profile (to be used in future development).
2583	Public Website	Changed reports page to eliminate “uncategorized” and adjusted width of dropdown width for the reports list.

Database changes

Table	Field	trac # / Change
accession		#2055 - Added three additional columns to the Accession table to split out accession life form information better. The three fields maintain lifecycle, lifehabit, and accession_life_sex data.
taxonomy_genus taxonomy_species	is_web_visible?	#2552 - added fields
taxonomy_synonym_map		#2468 - created taxonomy synonym mapping table to store species synonym relationships
inventory	regeneration_locality_geography_id	#2333 - added field to capture geography (Country, State, etc.) data to indicate where each inventory lot was grown, maintained, or produced
taxonomy_family	family_type	#2427 - also added a code value group for the valid types
taxonomy_common_name	geography_id	#2428 – added geography_id as a foreign key in the common name table

2.3.0

May 21, 2022

Release 2.3.0 contains many public website page tweaks, but has two significant changes. Curators can now indicate in a new inventory_maint_policy_season table the date ranges for when a particular inventory distribution form is available. The revised search engine now assigns weights to fields that are more relevant to a search. For example, the Genus field is weighted heavier than the Narrative or Associated Species fields, so that an inputted "Humulus" first looks in the Genus field for Humulus. Lastly, a new Search page for querying taxonomy regulation tables was added under Taxonomy.

Trac Ticket #	Category	Description / Notes
1362 2486	Dataviews	Switched the cooperator lookup used in 20 dataviews to use the more detailed big_cooperator_lookup rather than the simpler cooperator_lookup.
1677	Public Website 2	Created a separate image viewer for taxonomy pages to include the taxonomy names with the images.
2118	Public Website 2	Coding and a new table was added to handle the seasonal availability issue. Curators can now indicate a start date and end date in a new table (dataview) inventory_maint_season_policy. Then each year the accession is available for ordering during the period. Based on the inventory's distribution form.
2119	Database, Schema Changes	Database change – added the inventory_maint_policy_season table for handling the accession seasonal distribution data.
2120	Dataviews	Created new inventory_maint_policy_season dataview to work with data in the new table.
2315	Public Website 2 / Taxonomy	Modified the citation builder so that URLs (from the URL field) show up as either embedded links in the citation title (if there is one) or in the literature source name (if there's no citation title).
2410	Public Website 2	Modified taxonomydetail.cs to use the new taxonomy_regulation_map table to display CITES or FWE/FWT. CITES and federally rare on the taxonomydetail page.
2413	Public Website 2	Corrected the situation when **Historic** accessions were displaying the Add to Wish List button.
2422	Public Website 2	Modified code to properly add a comma after between name and organization for developer, donor, and collector.

Trac Ticket #	Category	Description / Notes
2452	Public Website 2	A Search page for querying taxonomy regulation tables was added under Taxonomy.
2464	Public Website 2	Modified taxonomysearch and taxonomysearchcwr pages to ignore html links when filtering.
2465	Public Website 2	Completely changed how the crop search is done on the **Descriptors** page. The search now filters the dropdown of crops correctly.
2479	Public Website 2	Improved the feedback so that during the log in process, the user doesn't get confused as to whether the process was completed or not.
2483	Other	Corrected a security vulnerability issue regarding the text in a dropdown. (Text is parameterized and integers are confirmed to be integers when used by the SQL.)
2490	Public Website 2	Changed search to include the option "with images" for the advanced search.
2494	Public Website 2	Change the advanced search to search the taxonomy genus.genus_name field rather than taxonomy_species.name to look for genus names and not species names.
2497	Other	Modified the distribution text used in both the profile registration and welcome interface pages.
2498	Public Website 2	Corrected a bug with international shipping addresses so that the address is saved properly.
2499	Public Website 2	When a user selects an accession with multiple forms, the "Add to Cart" button now defaults to “Seed” when seed is one of the options, rather than list the forms alphabetically.
2501	Public Website 2	Corrected the situation when international users were not able to check out because the geography_id was retrieved from the geography table rather than from the web_cooperator table.
2502	Search Engine	Implemented a weighted autosearch so that when doing the Google-like autofield text search, higher weighted hits would be presented first in the search results. For example, the Narrative (Note) is now given a lower weight so that when a genus is specified in the search criteria, the Genus field is weighted higher than the Narrative field.

Trac Ticket #	Category	Description / Notes
2504	Public Website 2	Corrected the text displayed in the PW for the taxonomy_species protologue and note fields so that the intentional double spaces before the year are displayed properly.
2505	Public Website 2	Corrected two broken links on the footer on the NPGS webpages: FOIA and Quality of Information.
2507	Public Website 2	Enhancement to display the taxonomy images for all relevant ranks. For example, Prunus images will display for their respective species, genus, tribe, and subfamily pages, as well as for Rosaceae.
2510	Public Website 2	Removed the image at the top of the CWR pages so that all taxonomy pages are similar.
2512	Public Website 2	Corrected the Comment formatting from taxonomy_attach to remove empty bullets.
2515	Public Website 2	Changed the search pages so the textbox examples in Simple and Advanced search are now more appropriate (PI numbers).
2516	Public Website 2	Fixed the **Clear All** button on **Search** pages so that the page is reset to a completely refreshed page.
2517	Search Engine	Addressed a request to have accession search results list recent PI accessions first. (This is after any weighting by which fields are hit.)
2518	Public Website 2	Altered **Advanced Search** options to be intuitive. Additional search criteria are initially visible on the page: *Scientific name (any part) *Plant name *Repository *Country of origin Also added the ability to limit search to accessions "with images."
2521	Other	On the search results page, added filter boxes below the column headers for the accession, taxonomy, and plant name columns to allow for refined searches.
2522	Other	Occasionally a user's shopping cart has been sitting for some time and items in it are no longer available. Now, when submitting a request, any no-longer-available items will be marked with an orange color. The user cannot proceed to submit until they remove these items from the request.
2523	Public Website 2	When observations are used to select accessions and the observation data is associated with system inventory, if there is only one inventory sample available for the accession, the shopping cart will be provided to the user to add the accession to the cart. If there

Trac Ticket #	Category	Description / Notes
		are multiple available inventories, then by clicking the cart, the user will be directed to the accession summary page where the user can select a specific inventory sample.
2524	Public Website 2	Modified the common name search on the taxonomy species search tab so that the search can evaluate data in the alternate_transcription field. The new WEP common name search can look for Chinese characters. Also added alternate transcription to the species common name display.
2525	Public Website 2	Enhanced the PW pages to display an image's Copyright text.