



Guide to BGCI's PlantSearch

About PlantSearch

BGCI's PlantSearch is a globally unique tool for sharing and accessing information about living botanical collections maintained by botanic gardens and similar organisations. PlantSearch connects collections directly to conservationists, educators, horticulturists, researchers, policy makers and many others who are working to save and understand plant diversity.

PlantSearch, which functions in combination with <u>BGCI's GardenSearch</u>, can be used to locate plants in botanic garden collections around the world and connect to staff who maintain those collections.

Search by scientific name, country of *ex situ* collection, conservation status, or other parameters including threat, crop wild relative, exceptional species, and tree statuses.

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Background

Suggested Citation

BGCI. [YEAR ACCESSED]. PlantSearch. Botanic Gardens Conservation International. Richmond, U.K. Available at <u>https://plantsearch.bgci.org/</u> Accessed on DD/MM/YYYY.

BGCI PlantSearch Data

Note that PlantSearch uses and aligns with these datasets:

- **Family** information is based on the APG IV system in the <u>Angiosperm Phylogeny Website</u> which was last updated in July 2023. These data align taxa reported to PlantSearch within plant families. Changes to APG IV family assignments are updated periodically in PlantSearch.
- Name Status is based on static copies of the <u>World Flora Online (WFO)</u> (last updated in March 2023), the <u>World Checklist of Vascular Plants (WCVP</u>) (last update in May 2020), and/or the <u>International Plant Names Index (IPNI)</u> (last updated in October 2020). These data indicate if a taxon listed in PlantSearch is an accepted name, a synonym, or unchecked according to the name reference data source(s), and is assigned in PlantSearch through consensus matching when possible. Name status is intended as guidance, PlantSearch will not dictate a particular taxonomy. Changes to name status assignments in each of these data sources are updated periodically in PlantSearch.
 - Name references are also based on these data sources. These data indicate the authorship of a taxon listed in PlantSearch, and is assigned in PlantSearch through consensus matching when possible. Changes to authorities in each of these data sources are updated periodically in PlantSearch.
- **ThreatSearch Status** is based on a live link to the <u>BGCI ThreatSearch</u>. These data identify whether a taxon listed in PlantSearch is considered threatened or not, based on the most recent global or regional assessment for a taxon.
- **IUCN Red List Status** is based on a live link to the <u>IUCN Red List of Threatened Species</u>. These data identify an assessment rank for taxa listed in Plantsearch if they have are listed in the IUCN Red List.
- **CITES Appendix** data are taken from <u>Species+</u> and was last updated in July 2023. These data identify taxa listed in one of the three CITES appendices, to indicate CITES restrictions in international transfer of material.
- **Crop Wild Relative** data are taken from the <u>USDA</u>, <u>Agricultural Research Service</u>, <u>National Plant</u> <u>Germplasm System</u> and identify wild relatives of major crops around the world. These data were last updated in July 2023.
- **Exceptional Species Status** is taken from <u>Global Working List of Exceptional Plants</u>. These data identify whether a taxon is known to survive seed banking (non-exceptional) or not (exceptional). Exceptional species status data were last updated in February 2022.
- **Tree** data are based on a live link to the <u>BGCI GlobalTreeSearch</u>. These data indicate if a taxon listed in PlantSearch is considered a tree.

Data User and Provider Agreement

PlantSearch data download, use, and provision is guided by the terms and conditions of the <u>BGCI Data User</u> and <u>Provider Agreements</u>.





PlantSearch Data Requests

BGCI will make summary data available and provide request capabilities via PlantSearch in future releases.

Much of the data BGCI stores and curates are available through BGCI's online <u>Data Tools</u>, however, if you require information which is not available through the online downloads, please fill out this <u>Data Request</u> <u>Form</u>. The information required in the form enables BGCI to provide advice and determine what data will be most useful to you and your work. Once submitted, a member of BGCI will review a request and follow up via email.

Additional Resources

- 1. PlantSearch overview of quick search and filtering VIDEO LINK
- 2. How to upload taxa onto PlantSearch VIDEO LINK
- 3. How to manage your taxa list VIDEO LINK

Acknowledgements

The development of this version of BGCI's PlantSearch was made possible with the support of the following organisations:



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Data in BGCI's PlantSearch is made possible by valuable data contributions by thousands of botanic garden staff around the world. BGCI is also grateful to Keith Damiani for designing and building the PlantSearch system and web app.

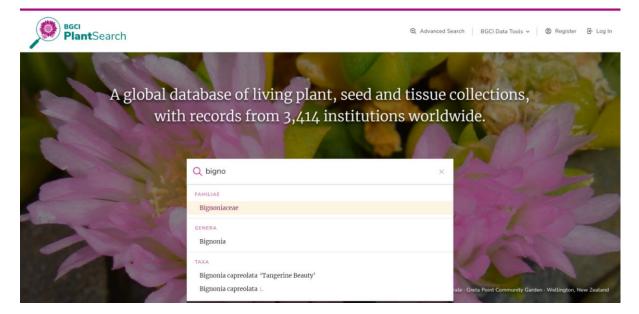






Help video

To perform a quick search, enter a taxon name (family, genus, species, etc.) in the search box (e.g., Bignoniaceae).



Search results will include all relevant taxa based on the search criteria entered, along with family name, nomenclatural status, and the number of botanic gardens (ex situ sites) which report each taxon in their collections.

579 Taxa Found (Showing 500 Results)			🔟 Columns 👻 🛓 Download 🔹
Filtered by Family: Bignoniaceae × Reset All Filters ×			
Taxon Name 트카	Family	Name Status 📵	# of Ex Situ Sites
Amphilophium buccinatorium (DC.) LGLohmann	Bignoniaceae	Accepted	3
Amphilophium carolinae (Lindt.) L.G.Lohmann	Bignoniaceae	Accepted	1
Amphilophium crucigerum (L) L.G.Lohmann	Bignoniaceae	Accepted	7
Amphilophium cv. Kunth 'Rivers'	Bignoniaceae	Accepted	1
Amphilophium cynanchoides (DC.) L.G.Lohmann	Bignoniaceae	Accepted	2
Amphilophium lactiflorum (Vahl) L.G.Lohmann	Bignoniaceae	Accepted	1
Amphilophium laxiflorum (DC.) L.G.Lohmann	Bignoniaceae	Accepted	1
			3
Amphilophium paniculatum (L.) Kunth	Bignoniaceae	Accepted	з
	Filtered by Family: Bignoniaceae X Reset All Filters X Taxon Name LT Amphilophium buccinatorium (DC) LGLohmann Amphilophium carolinae (Lind) LGLohmann Amphilophium crucigerum (L) LGLohmann Amphilophium crucigerum (L) LGLohmann Amphilophium cynanchoides (DC) LGLohmann Amphilophium cynanchoides (DC) LGLohmann Amphilophium lactiflorum (Vahl) LGLohmann	Filtered by Family: Bignoniaceae X Taxen Name 1:1 Family: Taxen Name 1:1 Family Amphilophium buccinatorium (DC) LGLohmann Bignoniaceae Amphilophium carolinae (Lindt) LGLohmann Bignoniaceae Amphilophium crucigerum (L) LGLohmann Bignoniaceae Amphilophium lactiflorum (Vahl) LGLohmann Bignoniaceae Amphilophium lactiflorum (Vahl) LGLohmann Bignoniaceae Amphilophium lactiflorum (Vahl) LGLohmann Bignoniaceae	Filtered by Family: Bignoniaccea Reset All Filters × Taxon Name Est Family: Bignoniaccea Name Soctus ● Amphilophium buccinatorium (DC) LGLohmann Bignoniaccea Accepted Amphilophium carolinae (Linds) LGLohmann Bignoniaccea Accepted Amphilophium crucigerum (L) LGLohmann Bignoniaccea Accepted Amphilophium crucigerum (L) LGLohmann Bignoniaccea Accepted Amphilophium crucigerum (L) LGLohmann Bignoniaccea Accepted Amphilophium ignanchoides (DC) LGLohmann Bignoniaccea Accepted Amphilophium lactiflorum (Vahly LGLohmann Bignoniaccea Accepted Amphilophium lactiflorum (Vahly LGLohmann Bignoniaccea Accepted Amphilophium lactiflorum (DC) LGLohmann Bignoniaccea Accepted

Use the search results page to:

- sort search results by each column
- use the advanced search features and filters on the left to refine search results
- login to view additional data columns and/or download search results

Click on any row in the search results to view summary information for a single taxon, with onward links to Name Status data sources. BGCI Members can login to also view the names and locations of botanic gardens which report each taxon.





PlantSearch		×	Adenocalymma n	narginatum (Cham.) DC.
⊕ Advanced Search	551 Taxa Found (Showing 500 Results)		Family	Bignoniaceae
Taxon ^	Filtered by Family: Bignoniaceae × Hybrid Status: exclude × Reset All Filters ×		Name Status	Accepted
Genus	Taxon Name ≞↑	Family		WCVP: 108139-1 IPNI: 30005618-2
Specific Epithet	Adenocalymma alliaceum (Lam.) Miers	Bigno		
Infraspecific Epithet	Adenocalymma comosum (Cham.) DC.	Bigno	Ex Situ Sites	Found at 2 gardens BGCI members can view ex situ sites
	Adenocalymma comosum var. nitidum (Mart. ex DC.) Bureau & K.Schum.	Bigno		that include this taxon in their collections.
Family	Adenocalymma inundatum Mart. ex DC.	Bigno	Tree	
Bignoniaceae ×	Adenocalymma marginatum (Cham.) DC.	Bigno		
Synonyms Exclude synonyms	Adenocalymma paulistarum Bureau ex K.Schum.	Bigno	ThreatSearch Status	
Hybrids	Amphilophium bauhinioides (Bureau ex Baill.) L.G.Lohmann	Bigno	IUCN Red List Status	
Exclude hybrids Show only hybrids	Amphilophium buccinatorium (DC.) L.G.Lohmann	Bigno		
Cultivars	Amphilophium carolinae (LindL) L.G.Lohmann	Bigno	Exceptional Species Status	
Exclude cultivars Show only cultivars	Amphilophium crucigerum (L.) L.G.Lohmann	Bigno	Crop Wild Relative	
Cultivar Name	Amphilophium cv. Kunth 'Rivers'	Bigno		
	Amphilophium cynanchoides (DC) L.G.Lohmann	Bigno	CITES Appendix	
Grex	Amphilophium lactiflorum (Vahl) L.G.Lohmann	Bigno		

Non-member view of individual taxon

			×	Astianthus viminalis (Kunth) Baill.				
419 Taxa Found				Family	Bignoniaceae			
Filtered by Family: Bignoniaceae × Reset	All Filters \times			Name Status	Accepted			
Taxon Name ≞†	Family	Name Status 🔞	# of Ex Sites		WCVP: 24373-2			
Arrabidaea corymbifera (Vahl) Bureau ex K.Schum.	Bignoniaceae	Unchecked	1	Ex Situ Sites	Found at 2 gardens			
Arrabidaea patellifera (Schitdl.) Sandwith	Bignoniaceae	Synonym	1		Garden	Germplasm Types		
Arrabidaea pulchella (Cham.) Bureau	Bignoniaceae	Synonym	1		Banco de Semillas de la FES Iztacala Tlalnepantla, Estado de Mexico, Mexico	Plant		
Arrabidaea selloi (Spreng.) Sandwith	Bignoniaceae	Synonym	1		Jardín Etnobotánico de Oaxaca	Plant		
Astianthus viminalis (Kunth) Baill.	Bignoniaceae	Accepted	2		Oaxaca, Oaxaca, Mexico			
Bignonia argyrea André	Bignoniaceae	Unchecked	1					
Bignonia binata Thunb.	Bignoniaceae	Accepted	2	Tree	Yes			
Bignonia callistegioides Cham.	Bignoniaceae	Accepted	4	ThreatSearch Status	Not Threatened			
Bignonia capreolata L.	Bignoniaceae	Accepted	48					

Member view of individual taxon





Advanced Search

The top column headings and advanced search filters in the left panel can be used to sort and refine search results.

Taxon A	The <i>Taxon</i> filters refine search results further by genus, specific and infraspecific epithets, family, cultivar name, and/or grex. Synonyms can be excluded from search results; and hybrids and cultivars can be excluded or included as well.
Taxon Status & Conservation	 The <i>Taxon Status and Conservation</i> filters identify if a taxon is: Considered a tree according to <u>GlobalTreeSearch</u>. Threatened according to <u>ThreatSearch</u>. Considered an exceptional taxon (taxa that cannot be stored long term in a conventional seed bank) according to <u>Global Working List of Exceptional Plants</u>. Considered a Crop Wild relative according to <u>USDA</u>, <u>Agricultural Research Service</u>, <u>National Plant Germplasm System</u>. Listed in an CITES Appendix according to <u>Species+</u>.
Exceptional Species Status Exceptional Probably Non-exceptional Non-exceptional Insufficient Data Crop Wild Relative CITES Listed	Garden Location Image: Continent Continent Image: Country Country Image: Country Country Image: Country Image: Country Image: Country </td
Germplasm Type	 The <i>Germplasm Type</i> filter can refine search results by germplasm type: Plant: plants growing in a living collection (whole plants) Seed: seeds stored in a long-term seed bank Pollen: pollen stored in a long-term pollen bank Explant: tissues stored in tissue culture or cryopreserved collection (parts of plants)





Data Downloads

Search results can be downloaded by logging into PlantSearch. Columns can be added or hidden for the download file.

After logging in and agreeing to BGCI's Privacy and Data User Terms & Conditions:

- 1. Logged in (non-BGCI member) can view up to 500 records and download up to 100 records. Download does not include *ex situ* locations.
- 2. Logged in (BGCI member linked to a GardenSearch garden) can view and download up to 1,000 records.
 - a. By logging in and clicking on a single taxon record, BGCI members can also view the *ex situ* collection name(s) and location(s) which report each taxon. Download does not yet include a listing of botanic garden (*ex situ*) locations (planned for future release).

Users can also fill out a <u>Data Request Form</u> to request bulk datasets over the maximum allowed for download. BGCI will respond via email to these requests.





Data Contributions

To contribute data to PlantSearch, the following steps are required:

- 1. **GardenSearch profile**: A garden first needs to be listed in <u>GardenSearch</u>. See the <u>GardenSearch</u>. Instructions & FAQ for details on adding and managing garden profiles.
- 2. Editor registration: Any number of users at a single organisation can register an account (SheepApp). Please use the same (preferably work or non-personal) email address to access all BGCI tools and services.
- 3. Link to GardenSearch profile: Users need to be linked to their organisation in GardenSearch.
- 4. **PlantSearch data contribution**: Upon login, users can manage and upload a taxa list or contribute other data on behalf of their garden.

Preparing Data Contributions

Click on the 'Log In' button in the top right and use your SheepApp credentials to login. Then, click 'My Garden' to view your garden's current PlantSearch data.

BGCI PlantSearch						Q Quick Search @	Advanced Search BC	GCI Data Tools 👻	會 My Garden ⑧	Patricia Malcolr	m v
🏦 Sample Botanic Garden										≣ Tax	a List
≢ Filters		1,944 Taxa Found					Columns 👻 🕹 Dow	mload 1,944 Taxa 🔊	1 Upload Taxa	+ Add Ta	axon
Taxon Name	~	Taxon Name ≞†	Family	Name Status 🔞	Listed in PlantSearch	Name Reference 🔞	Date Added	# of Ex Situ Sites	Germplasm Type	Tree 🚯	The
Listed in PlantSearch	^	× Brassolaeliocattleya g petite stars			√ Yes	Unverified	October 3, 2023	1	Plant		
 ✓ Listed in PlantSearch A Not listed in PlantSearch 		× Bratonia g shelob 'Tolkien'			√ Yes	Unverified	October 3, 2023	1	Plant		
Name Reference	^	× Heucherella H.R.Wehrh. 'Pink Fizz'	Saxifragaceae	Unchecked	√ Yes	Selected Author auto-assigned	October 3, 2023	1	Plant		
○ Taxa with a selected reference ✓ Listed in PlantSearch		× Heucherella alba (Lemoine) Stearn 'Bridget Bloom'	Saxifragaceae	Unchecked	√ Yes	Selected	October 3, 2023	3	Plant		

If previously submitted, any recorded taxa can be viewed using the column headings and toggles, and filters in the left panel. More detailed information can be viewed by clicking on each taxon record.

Important notes as you prepare your data contributions:

- All users which are linked to the same garden have the same permissions and can manage and contribute data. Please **coordinate with your colleagues** on data contributions to PlantSearch.
- PlantSearch accommodates multiple germplasm types (e.g., plants, seeds, pollen, etc.) per organisational profile, though **each germplasm type needs to be uploaded separately**, as germplasm type is assigned at the upload file level. Please coordinate with collection managers at your garden to ensure all viable germplasm types (plants, seeds, pollen, explants) are reported to PlantSearch. And use caution when overwriting data to **replace or add to only the germplasm type relevant to the list being uploaded**.
- PlantSearch specifies authorities for plant names when possible, based on consensus matching among the name reference data sources described in the Background section above. For greatest accuracy, please **include authors** when submitting taxa.
- Past data contributions were migrated from the legacy PlantSearch system to the newly launched PlantSearch in 2023. Please see the Legacy Data section for more details.





Add or Delete a single Taxon

To add an individual taxon to a garden's taxa list recorded in PlantSearch, click the green 'Add Taxon' button.

C	olumns 🗸	↓ Download 1,944 Taxa ∨	🖞 Upload Taxa	+ Add Taxon

As the scientific name of the taxon is typed, any matching name references will appear on the right. Click the 'Edit' button in Name Details to specify if the taxon includes a hybrid, cultivar, grex, and/or infraspecific epithets.

Add Taxon				
Germplasm Type	🗹 Plant 🗌 Seed 🗌 Pollen	Explant		
Taxon	Scientific Name Acer campestre Author L.			ame Reference Accer campestre L. Included in 292 ex situ collections Accepted name Of WF0-wk=0000514040
	Name Details		🖉 Edit	රී <u>WCVP: 781250-1</u> රී IPN: 781250-1
	Genus Specific Epithet Rank Infraspecific Epithet	Acer campestre		
		L.		
	Grex			
	Family	Sapindaceae		





xon	Scientific Name	🖉 Edit	Name Reference
	Acer campestre ∟ 'Blanca'		Acer campestre L. Im Included in 292 ex situ collections Accepted name
	Name Details		G' WFC: wto-0000514040 G' WCVP. 781250-1 G' IFNI: 781250-1
	Taxon is a Hybrid		
	Genus Sp	ecific Epithet	
	Acer	campestre	
	Rank Infraspecific Epithet		
	~		
	Author	Family	
	L	Sapindaceae	
	Secondary Infraspecific		
	Grex		
	Cultivar		
	Blanca		

Fill out the taxon name and select the appropriate germplasm type and name reference, and click 'Save Taxon'.

A taxon name can be edited or deleted at any time by clicking a single taxon record. If a proposed name change duplicates a taxon already in a garden's list, a warning will appear and the likely solution is to delete this now-duplicate taxon.

← Cancel 👔 Delete Taxon	△ Another taxon with this name already exists in your garden's taxa list. Save Changes
	Specific Cancel





Upload a Taxa List

Help video

To upload more than one taxon at a time via file upload, click on 'Upload Taxa' in the upper right corner of the screen.



The list of possible components for plant names in PlantSearch is shown on the left. PlantSearch will accept taxa names split into separate columns, but it will also allow a combination of fields in a single column. The use of column headings is recommended. Acceptable file formats include Comma Separated Value (CSV) files.

Important notes as taxa lists are prepared:

- All users which are linked to the same garden have the same permissions and can manage and contribute data. Please **coordinate with your colleagues** on data contributions to PlantSearch.
- PlantSearch accommodates multiple germplasm types (e.g., plants, seeds, pollen, etc.) per organisational profile, though **each germplasm type needs to be uploaded separately**, as germplasm type is assigned at the list level. Please coordinate with collection managers at your garden to ensure all viable germplasm types (plants, seeds, pollen, explants) are reported to PlantSearch. And use caution when overwriting data to **replace or add to only the germplasm type relevant to the list being uploaded**.
- PlantSearch specifies authorities for plant names when possible, based on consensus matching among the name reference data sources described in the Background section. For greatest accuracy, please **include authors** when submitting taxa.
- Past data contributions were migrated from the legacy PlantSearch system to the newly launched PlantSearch in 2023. Please see the Legacy Data section for more details.

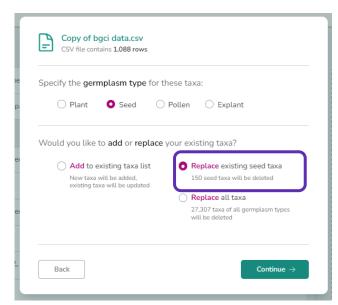
Once prepared, select or drag and drop the upload file in the box on the right, and the file will begin processing.

Upload Taxa		Select a File	Assign Fields	Process Upload	Upload Complete
Your uploaded CSV file can contain the follow	wing columns, in any order:				
Name	If a complete scientific name is specified, PlantSearch will automatically parse the name into the appropriate fields.				
	– OR –				
Hybrid Generic Symbol	"x" is acceptable, and will be converted to the cross symbol "x" $\hfill \hfill \hfil$				
Genus					
Hybrid Specific Symbol	$"\varkappa"$ is acceptable, and will be converted to the cross symbol " $\varkappa"$		∴ Select a C	SV file to upload	
Species			or drag and dr	op your file here.	
Infraspecific Rank	POSSIBLE VALUES: f., sf., nothof., var., subvar., nothovar., subgen., subsp., nothosubsp.		\square		
Infraspecific Epithet					
Secondary Infraspecific Rank	POSSIBLE VALUES: f., sf., nothof., var., subvar., nothovar., subgen., subsp., nothosubsp.				
Secondary Infraspecific Epithet					





To complete the upload process:



- Select the germplasm type for the taxa list being uploaded (plant, seed, pollen, explant). Note, if a taxon is uploaded as more than one germplasm type, it will be recorded as such.
- 2. Choose how the data will be treated in relation to existing data recorded for your garden (see below).
- 3. Select 'Continue' to proceed to the next step in the Upload process.

(RECOMMENDED) Select **Replace existing (plant, seed, etc.) taxa** to replace only the records relevant to the germplasm type being uploaded. This is recommended if you are submitting a full taxa list of a specific collection type (e.g., plants) and would like to reflect all changes to this collection since the last upload. Select **Add to existing taxa list** to combine an upload file with a list of taxa already recorded for the garden. New taxa will be added that have not already been uploaded, and duplicate records will be ignored. This option can be useful for submitting new taxa that have been recently added to a collection.

Select **Replace all taxa to** overwrite the whole taxon list for your garden with this new dataset, including ALL germplasm types. This option should be used with caution.

Assign each column f	from	your uploaded file	to a n	natching field belo	w:	
Name	\$	Author	٥	Skip Column	\$	Skip Column
Scientific Name		Author		Accession Number		Plant Family
Acanthus mollis		L.		2001 202		Acanthaceae
Barleria cristata		L.		2001 177		Acanthaceae
Barleria repens		Nees		2011 228		Acanthaceae
Dicliptera sericea		Nees		2021 111		Acanthaceae
Graptophyllum pictum		Griff.		2010 096		Acanthaceae
Justicia adhatoda		L.		2011 198		Acanthaceae
Justicia ovata		(Walter) Lindau		2004 004		Acanthaceae
Justicia spicigera		Schltdl		2004 002		Acanthaceae
Pachystachys coccinea		(Aubl.) Nees.		1996008-86		Acanthaceae
Ruellia angustifolia		Sessé et Moc.		2012 109		Acanthaceae
Thunbergia alata cv. Blushing		Bojer ex Sims		2023 002		Acanthaceae

The data being uploaded will display on the next screen to confirm the column headings and data types.

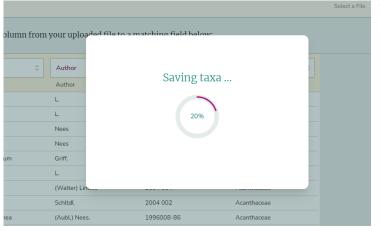
PlantSearch will assign column headings based on the data and column headings submitted in the upload file. Adjust column headings to match the type of data being uploaded in each column to ensure a taxa list is processed as accurately as possible.

Click 'Save Taxa' when the columns have been assigned appropriately.

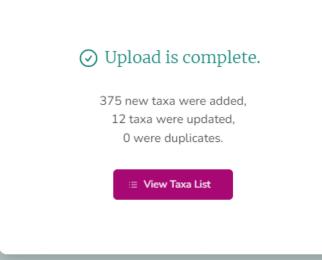
Save 415 Taxa







The upload process will check taxa against the name reference data sources (see 'Background' for details on name references), and it will omit duplicate records in the upload file.



Once the upload checks are complete, a summary of results will appear:

- the number of taxa that have been added to your garden's taxa list;
- the number of taxa in your list that were updated with data from the name reference data sources (i.e., author information); and
- The number of duplicate records that were found in the uploaded list.









Once the upload process is complete, use the column headings and filters in the left panel to review and manage your garden's taxa list in the following recommended ways:

- Filter by 'Taxa listed in PlantSearch' to review and manage all taxa that were successfully assigned a name status and name reference using consensus matching. Authors can be reassigned manually as desired.
- Filter by 'Taxa not listed in PlantSearch' to review and resolve taxa that were not successfully assigned a name status or author. Update your garden's records as appropriate.
- Use the 'Germplasm Type' filter to review results of a recently uploaded taxa list for a specific collection type.
- Filter by 'Taxon' or 'Taxon Status & Conservation' to review other groups of taxa.

命 Sample Botanic Garden						
≢ Filters	873 Taxa Found					
Taxon ~	Taxon Name ≞↑	Family	Name Status 🚯	Listed in PlantSearch		
Listed in PlantSearch	Abies concolor (Gordon & Glend.) Lindl. ex Hildebr.	Pinaceae	Accepted	√ Yes		
With a selected name reference	Abies grandis	Pinaceae		A No		
 With a selected name reference and auto-assigned author 	Abutilon theophrasti Medik.	Malvaceae	Accepted	√ Yes		
 Hybrids, cultivars, or orchids that are unverified 	Acacia farnesiana (L.) Willd.	Fabaceae	Synonym	√ Yes		
A Taxa not listed in PlantSearch	Acacia horrida (L.) Willd.	Fabaceae	Synonym	√ Yes		
With possible name references With no name reference	Acacia terminalis (Salisb.) J.F.Macbr.	Fabaceae	Accepted	√ Yes		
	Acalypha hispida	Euphorbiaceae		A No		
Germplasm Type V	Acanthus mollis L.	Acanthaceae	Accepted	√ Yes		
Taxon Status & Conservation	Acer circinatum Pursh	Sapindaceae	Accepted	√ Yes		

A garden's taxa list can be downloaded at any time, which includes useful data aligned with a taxa list, including threat, crop wild relative, exceptional species, and tree statuses.





Taxa listed in PlantSearch – Examples

Taxa that are successfully added to PlantSearch during the upload process include:

• **Exact name match**: the taxon epithets and author(s) provided match exactly to the name reference data sources used in PlantSearch, or there is only one name reference to select for that taxon.

Example: Allium commutatum Guss. was successfully added to PlantSearch and the name status and reference were assigned during the upload process. This means the name matches completely to the epithets and author(s) provided, or no author(s) were provided and there is only one name status and reference option for that taxon.

Taxon Name ≞↑	Family	Name Status 🚯	Listed in PlantSearch	Name Reference 🕕
Allium commutatum Guss.	Amaryllidaceae	Accepted	√ Yes	Selected

• Auto-assigned name match: the taxon epithet and author(s) were assigned with confidence based on consensus matching, or there was only one name reference option for that taxon.

Example: Acer tataricum L. was successfully added to PlantSearch and the name status and reference(s) were auto-assigned during the upload process. This is most commonly because author(s) were not provided in the upload file and there is only one name status and reference option for that taxon.

Taxon Name Ξ↑	Family	Name Status 🚯	Listed in PlantSearch	Name Reference 🐧
Acer tataricum L.	Sapindaceae	Accepted	√ Yes	Selected Author auto-assigned

• **Hybrid name**: The name status is left blank and name reference is 'Unverified'. Hybrid taxa do not require matching during the upload process, but are matched when possible in PlantSearch.

Example: *Spiraea* x *bumalda* was successfully added to PlantSearch but the name status is blank and the name reference is listed as Unverified because hybrid taxa do not require matches but are matched when possible in PlantSearch.

Taxon Name ≘↑	Family	Name Status 🚯	Listed in PlantSearch	Name Reference 🚯
Spiraea × bumalda	Rosaceae		√ Yes	Unverified

• **Cultivar name**: The name status and name reference could be matched or unmatched based on the epithets provided. Cultivar epithets are excluded from matching, and do not require matches to be listed in PlantSearch.

Example: Arctostaphulos auriculata Eastw. 'Knobcone Point' was successfully added to PlantSearch, and the binomial was checked with the author auto-assigned, but the cultivar portion of the name was not checked against references.

Taxon Name ≞↑	Family	Name Status 🚯	Listed in PlantSearch	Name Reference 🚯
Arctostaphylos auriculata Eastw. 'Knobcone Point'	Ericaceae	Accepted	√ Yes	Selected Author auto-assigned





Taxa not listed in PlantSearch – Examples

Taxa that are not listed in PlantSearch during the upload process include:

• Multiple matched name references: the upload process matched a taxon with multiple name references that are deemed distinct, and a single reference needs to be chosen. Click on a taxon record to review and select which name reference matches your taxon. Click 'Save Taxon' and it will be listed in PlantSearch on behalf of your garden.

Example: *Cyperrus alternifolius* matched with three possible name references so is NOT listed in PlantSearch until a single name reference is chosen.

Taxon Name ≞↑		Family	Name Status 🐧	Listed in PlantSearch	Name Reference 🕚
Cyperus alternifolius		Cyperaceae		🛕 No	3 possible
	Scientific Name Cyperus alternifolius				isted in PlantSearch until you've nce from the options below: nifolius L
	Name Details Genus Specific Epithet Rank Infraspecific Epithet Author Grex Cuttvar Family	Cyperus alternifolius Cyperaceae	C Edit	@ WCV-803728. @ IPNE 3033913 @ IPNE 3033913 @ IPNE 303729-1 @ IPNE 303729-1 @ Cyperus alter Synonym @ WF0.wf0-0000 @ WF0.wf0-0000 @ WF	2 nifolius Steud. 367584 1 nifolius Willd. ex Kunth
				2 IPNI: 303730-1	

No matched name reference: the upload process did not find a name reference match for the taxon.

Example: *Fritillaria michailovckyi* is NOT listed in PlantSearch and there are no possible name references that the system is providing you with. This can be due to an upload error such as misaligned data (as in this case), the taxon name is new or not yet recorded by the name references used in PlantSearch, or the taxon name is erroneous. Click on the taxon and try to fix the name provided. Make sure the epithets are in the appropriate fields, and double-check the taxon name in your plant records.







Legacy Data

If you have contributed data in the past to PlantSearch, we have migrated these data to the new system. You will need to review your data or replace with a new list and then review, as some of your collection might not have passed the new PlantSearch checks.

Two options for past data contributors:

- 1. (RECOMMENDED) Upload an updated taxa list and replace your legacy data:
 - a. Include authors for each taxon for greatest accuracy.
 - b. Upload different germplasm types separately and replace only the taxa relevant to the germplasm type being uploaded (see Data Contributions section for details).
- 2. Review your garden's migrated data from legacy PlantSearch, review and fix names that are not marked as 'Listed in PlantSearch'. For gardens that have uploaded multiple germplasm types in the past (ex: plants and seeds), we have migrated all lists associated with your garden.

Future PlantSearch

- Messaging system: Users will be able to login to send requests to collection managers about taxa of interest.
- Ex situ location download: BGCI Members will be able to login to download data including botanic garden (*ex situ*) locations per taxon.
- Pedigree data: Users will be able to share and access accession- and plant-level data about taxa in their collections, to support gap analysis and metacollection management.