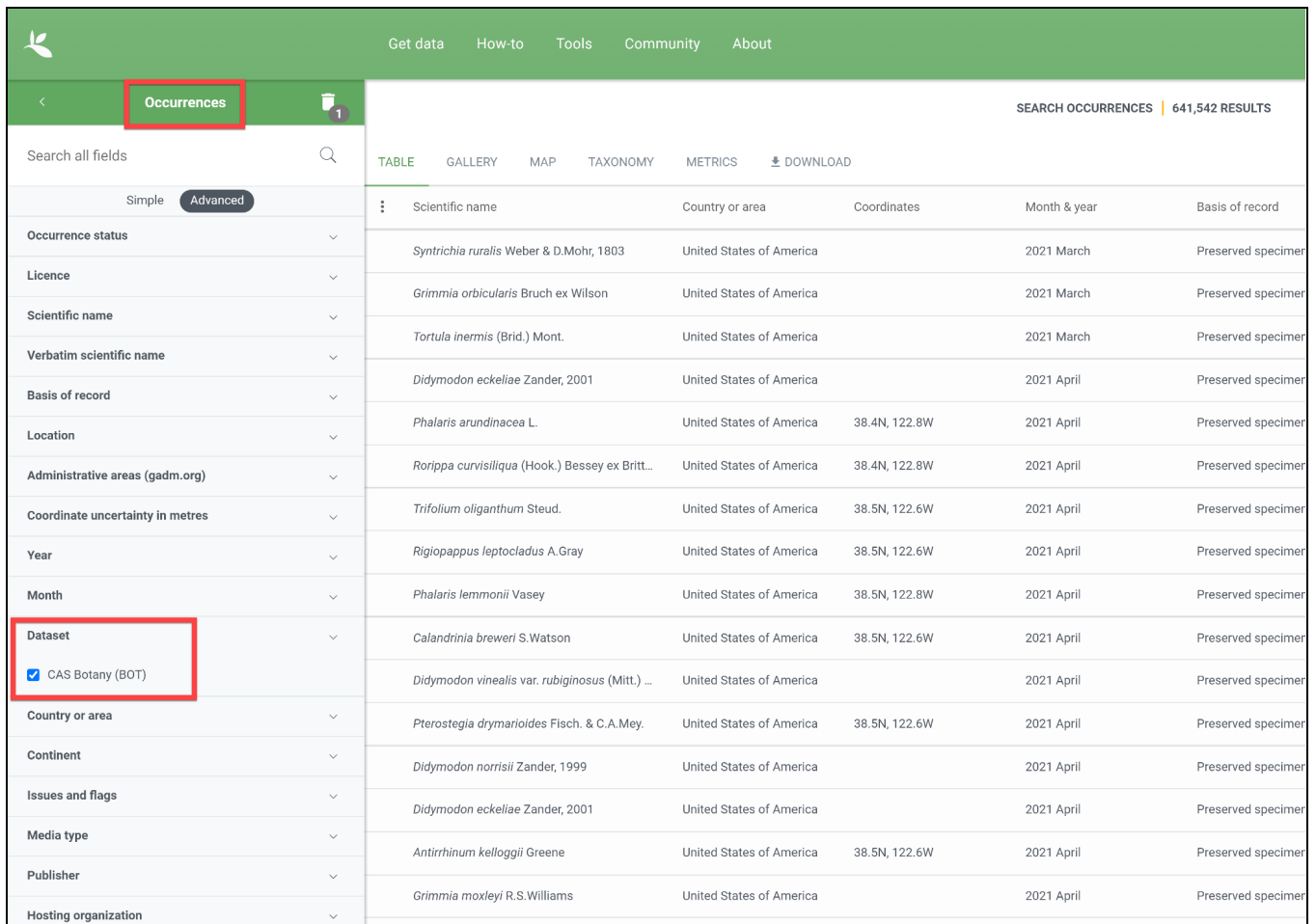


Basic GBIF Search Instructions

Accessing GBIF's Search Page

To access GBIF please click the following link: [GBIF CAS Botany Collections](https://gbif.org/cas-botany). This link will take you directly to the **CAS Botany dataset**.

Alternatively, you can navigate to the GBIF home page, at gbif.org, and click on **Occurrences**. From search filters on the left of the screen scroll down and click **Dataset**. Type **CAS Botany** into the search field and press enter. The dataset has now been filtered to only show CAS Botany collections.



The screenshot shows the GBIF search interface. The top navigation bar includes 'Get data', 'How-to', 'Tools', 'Community', and 'About'. The main header shows 'Occurrences' with a search icon and 'SEARCH OCCURRENCES | 641,542 RESULTS'. Below the header, there are tabs for 'TABLE', 'GALLERY', 'MAP', 'TAXONOMY', 'METRICS', and 'DOWNLOAD'. The left sidebar contains various search filters, with 'Dataset' selected and 'CAS Botany (BOT)' checked. The main table displays search results with columns for Scientific name, Country or area, Coordinates, Month & year, and Basis of record.

Scientific name	Country or area	Coordinates	Month & year	Basis of record
<i>Syntrichia ruralis</i> Weber & D.Mohr, 1803	United States of America		2021 March	Preserved specimen
<i>Grimmia orbicularis</i> Bruch ex Wilson	United States of America		2021 March	Preserved specimen
<i>Tortula inermis</i> (Brid.) Mont.	United States of America		2021 March	Preserved specimen
<i>Didymodon eckeliae</i> Zander, 2001	United States of America		2021 April	Preserved specimen
<i>Phalaris arundinacea</i> L.	United States of America	38.4N, 122.8W	2021 April	Preserved specimen
<i>Rorippa curvisiliqua</i> (Hook.) Bessey ex Britt...	United States of America	38.4N, 122.8W	2021 April	Preserved specimen
<i>Trifolium oliganthum</i> Steud.	United States of America	38.5N, 122.6W	2021 April	Preserved specimen
<i>Rigiopappus leptocladus</i> A.Gray	United States of America	38.5N, 122.6W	2021 April	Preserved specimen
<i>Phalaris lemmonii</i> Vasey	United States of America	38.5N, 122.8W	2021 April	Preserved specimen
<i>Calandrinia breweri</i> S.Watson	United States of America	38.5N, 122.6W	2021 April	Preserved specimen
<i>Didymodon vinealis</i> var. <i>rubiginosus</i> (Mitt.) ...	United States of America		2021 April	Preserved specimen
<i>Pterostegia drymarioides</i> Fisch. & C.A.Mey.	United States of America	38.5N, 122.6W	2021 April	Preserved specimen
<i>Didymodon norrisii</i> Zander, 1999	United States of America		2021 April	Preserved specimen
<i>Didymodon eckeliae</i> Zander, 2001	United States of America		2021 April	Preserved specimen
<i>Antirrhinum kelloggii</i> Greene	United States of America	38.5N, 122.6W	2021 April	Preserved specimen
<i>Grimmia moxleyi</i> R.S.Williams	United States of America		2021 April	Preserved specimen

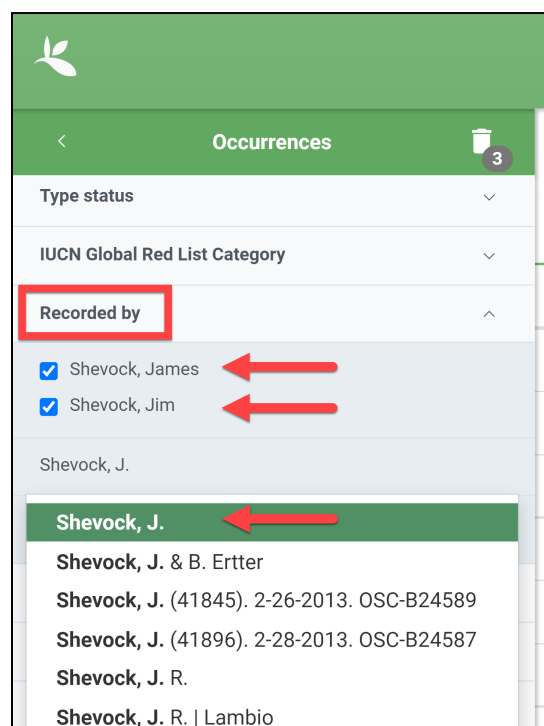
Understanding Some of the Search Fields

The below table lists some of the most commonly used fields from GBIF and their equivalent CAS fields.

GBIF Field	CAS Field
Catalogue Number	Barcode Number
Institution Code	Herbarium Code (= cas)
Other Catalogue Numbers	May include a string with Herbarium + Accession Number
Record Number	Collector Number
Recorded by	Collector

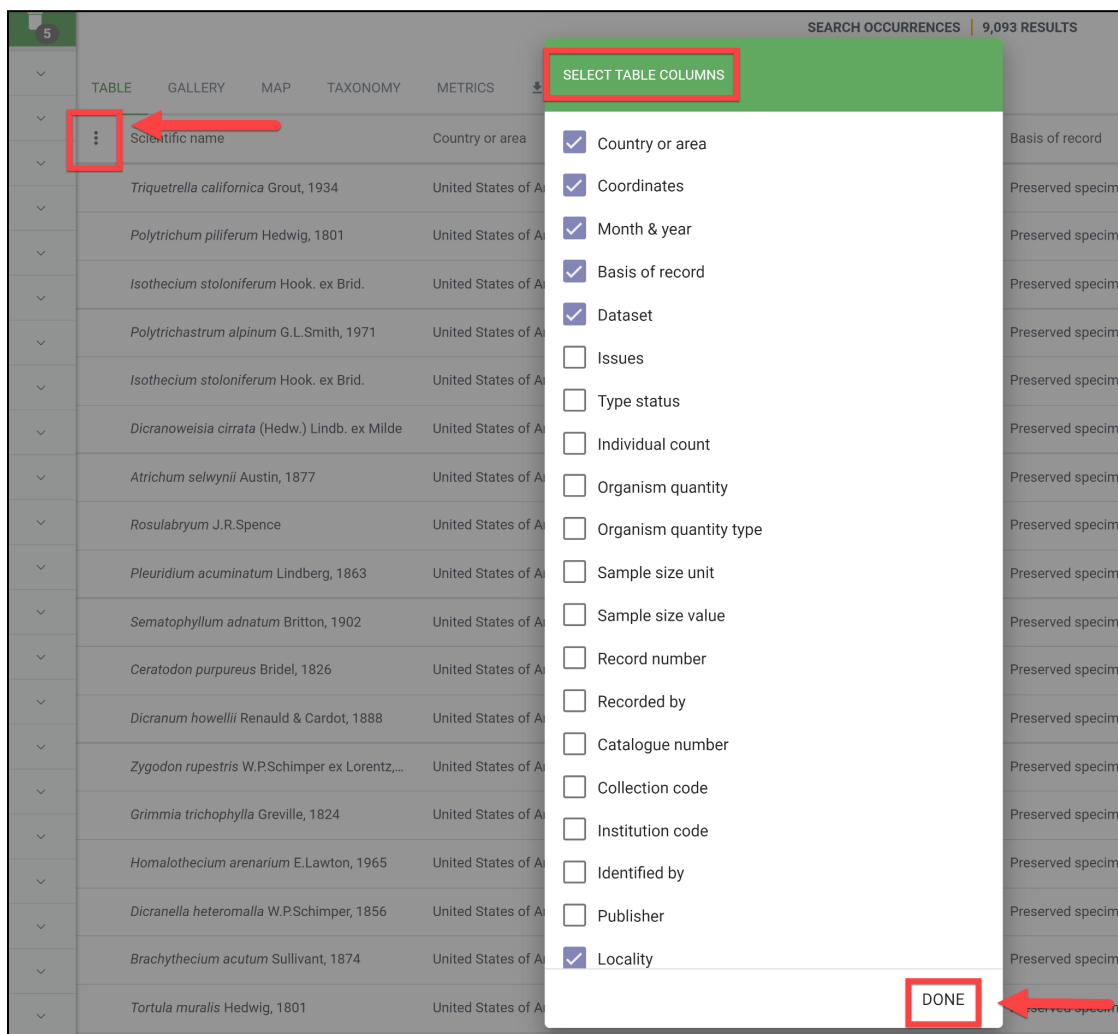
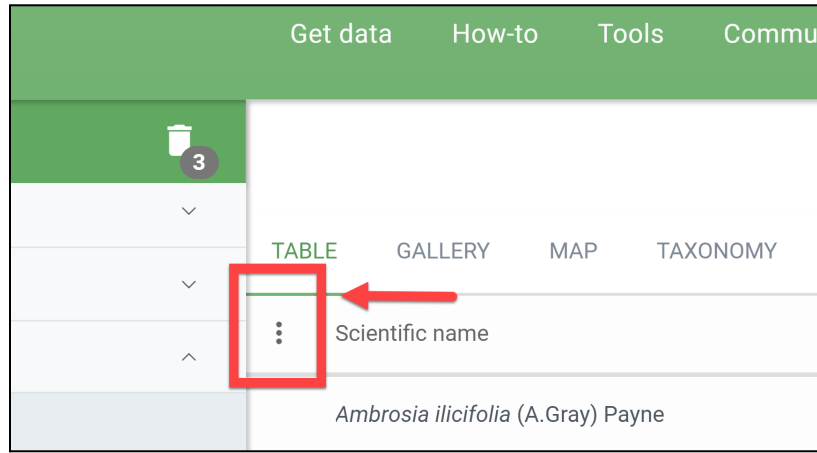
Searching GBIF

- There is a **Simple** search and an **Advanced** search. The Advanced search contains more fields (like Recorded by and Record Number).
- Currently, there are no search operators that function as “like”, “contains” or “not equal to”.
- Also, there are no search wildcards such as * or %.
- When entering terms into the search fields, the filter will provide suggestions and you can choose from that list of suggestions.
- For example, when searching collector names choose all of the possible name variations. See image below.



Customizing the Search Results Window

To change the columns in the search results window located on the right side of the screen, click the three vertical dots. Choose the table columns needed and click **Done**.



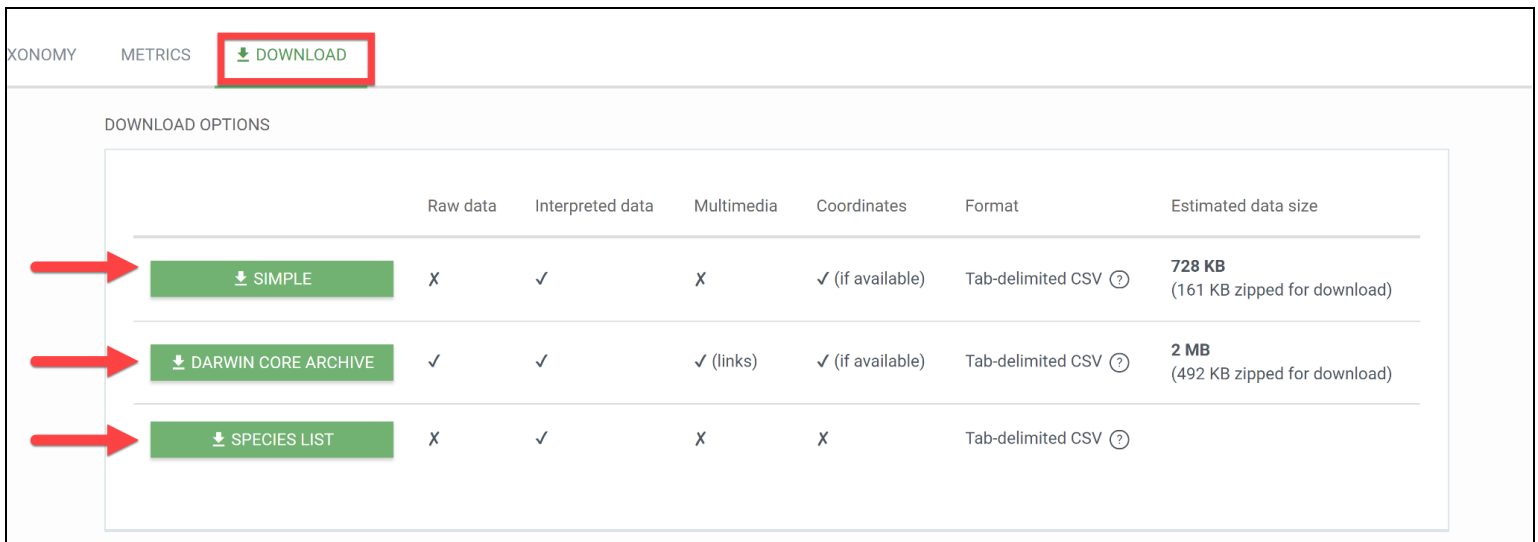
Downloading the Search Results

To download search results **you must have an account and be signed in.**

There are a few download options available. Those options are:

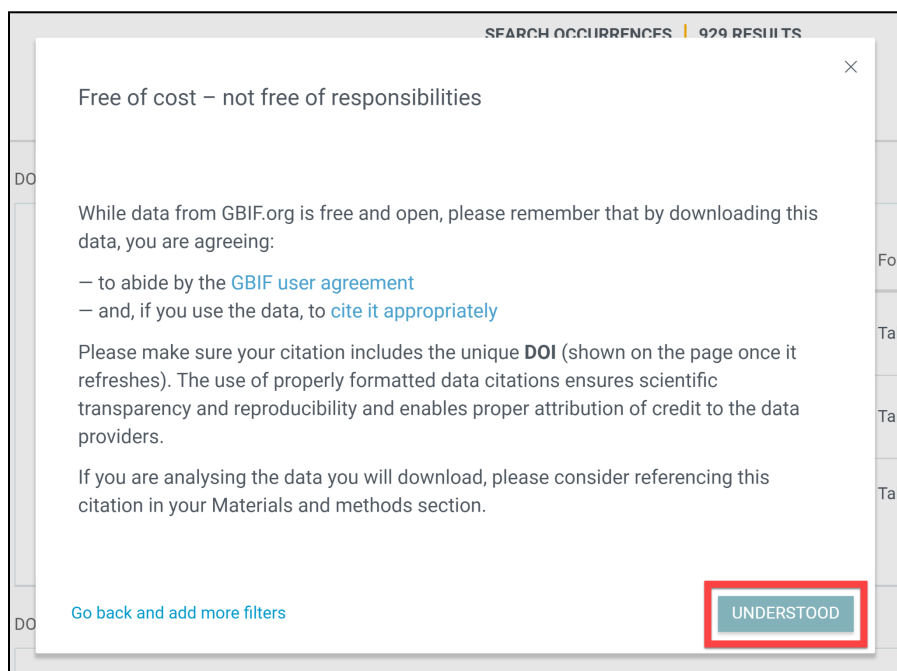
- SIMPLE
- DARWIN CORE ARCHIVE
- SPECIES LIST

Please note the differences between each download option. The Darwin Core Archive option will have more data and is, therefore, a larger file size.



	Raw data	Interpreted data	Multimedia	Coordinates	Format	Estimated data size
↓ SIMPLE	X	✓	X	✓ (if available)	Tab-delimited CSV ?	728 KB (161 KB zipped for download)
↓ DARWIN CORE ARCHIVE	✓	✓	✓ (links)	✓ (if available)	Tab-delimited CSV ?	2 MB (492 KB zipped for download)
↓ SPECIES LIST	X	✓	X	X	Tab-delimited CSV ?	

After choosing one of the download options above, a prompt will appear. Read the prompt and click **Understood** to continue the download.



SEARCH OCCURRENCES | 929 RESULTS

Free of cost – not free of responsibilities

While data from GBIF.org is free and open, please remember that by downloading this data, you are agreeing:

- to abide by the [GBIF user agreement](#)
- and, if you use the data, to [cite it appropriately](#)

Please make sure your citation includes the unique **DOI** (shown on the page once it refreshes). The use of properly formatted data citations ensures scientific transparency and reproducibility and enables proper attribution of credit to the data providers.

If you are analysing the data you will download, please consider referencing this citation in your Materials and methods section.

[Go back and add more filters](#)

UNDERSTOOD

Click **Download** to begin downloading the dataset.

Please note that GBIF provides a citation to use in publications.

The download may take a few minutes depending on the size of the file.

929 occurrences included in download

DOI [10.15468/dl.8y3h4n](https://doi.org/10.15468/dl.8y3h4n)

DOWNLOAD

PLEASE USE THIS CITATION IN PUBLICATIONS

GBIF.org (22 April 2022) GBIF Occurrence Download <https://doi.org/10.15468/dl.8y3h4n>

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[TELL US ABOUT USAGE](#)

Viewing Images

After applying your search filters (i.e. Scientific Name, Location, etc.), you can view the images by clicking **Gallery** at the top of the search results window. Records that have images will be displayed.

Occurrences 3

SEARCH OCCURRENCES | 653 WITH IMAGES

Papaver L.

Basis of record ▼

Location ▼

Including coordinates

POLYGON((-127.98633 42.65981,-120.25195 33.02...

Administrative areas (gadm.org) ▼

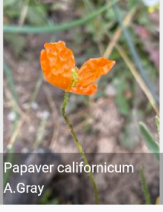




Coordinate uncertainty in metres ▼

Year ▼

TABLE

GALLERY

MAP
TAXONOMY
METRICS
↓ DOWNLOAD

Alternatively, you can view images individually. Go to **Table** and click on a record. The image (if available) can be found within the record.

TABLE	GALLERY	MAP	TAXONOMY	METRICS	DOWNLOAD
⋮	Scientific name	Country or area	Coordinates	Month & year	
	<i>Papaver californicum</i> A.Gray	United States of America	36.6N, 121.7W	2022 Februar	
	<i>Papaver californicum</i> A.Gray	United States of America	36.6N, 121.7W	2022 Februar	
	<i>Papaver californicum</i> A.Gray	United States of America	36.6N, 121.7W	2022 Februar	

OCCURRENCE | 26 FEBRUARY 2022

Papaver californicum A.Gray

Fire poppy In English Observed in United States of America

Plantae > Tracheophyta > Magnoliopsida > Ranunculales > Papaveraceae > *Papaver*

DETAILS

Species: [Papaver californicum A.Gray](#) Dataset: [iNaturalist Research-grade Observations](#)
 Location: United States of America Publisher: [iNaturalist.org](#)
 Basis of record: Human observation Reference: <https://www.inaturalist.org/observations/100000000>

