Understanding the Search Interface
Navigate to Sample Search under "Search" in the main menu.

Discover and access sample-based data

Samples available in the portal (Aug 2019), collected in Alaska (top left), Continental US (center), and Puerto Rico (bottom right). Colors indicate different collection types. Circle sizes indicate quantity of samples per collection in a given locality.
This is the new search interface.
The criteria are now included inside **accordions** that can be expanded or collapsed by clicking their arrow symbol on the right side of the criterion header (Animated image below).

Sample Search

**TAXONOMY**

- Taxon: Any name
- Type at least 4 characters for quick suggestions. Separate multiple with commas.
- Include Synonyms

**COLLECTIONS**

- All NEON Biorepository Collections
- All Additional NEON Collections
- All Other Collections from NEON sites

Visit the [Collections Information Page](#) for a full list of collections hosted by this portal.

**SAMPLE PROPERTIES**

- Include other catalog numbers and GUIDs
- Limit to specimens with images
- Limit to specimens with genetic data

Separate multiple with commas.
Fields have a short help text below them and will be marked with a red border if an invalid value is filled in.
On the right there is a panel where you will find the action buttons and the selected **criteria chips** are added dynamically.

Sample Search

**TAXONOMY**

- **Taxon**: Algae
- **Any name**

Include Synonyms

**COLLECTIONS**

- **All NEON Biorepository Collections**
- **All Additional NEON Collections**
- **All Other Collections from NEON sites**

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**SAMPLE PROPERTIES**

- **Include other catalog numbers and GUIDs**
- **Limit to specimens with images**
- **Limit to specimens with genetic data**
You can clear/remove a field by clicking the (x) button in the criterion chip or reset the entire form selection by clicking the reset button (Animated image below).

Sample Search

- **TAXONOMY**
  - Taxon: Algae
  - Type at least 4 characters for quick suggestions. Separate multiple with commas.
  - Include Synonyms

- **COLLECTIONS**
  - All NEON Biorepository Collections
  - All Additional NEON Collections
  - All Other Collections from NEON sites

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- **SAMPLE PROPERTIES**
  - Include other catalog numbers and GUIDs
  - Limit to specimens with images
  - Limit to specimens with genetic data
Criteria
A quick suggestion tool is triggered when 4 or more letters are typed in the taxon field, displaying the matching suggestions available in the portal's taxonomic tree.
Collections

Collections can be of 3 types:

1. NEON Biorepository Collections: NEON collections with samples physically hosted at the Biorepository at ASU
2. Additional NEON Collections: NEON collections with samples hosted at partner institutions other than ASU
3. Other Collections from NEON sites: datasets gathered from other biodiversity portals, which were collected in NEON localities
NEON Biorepository Collections

By default only the Biorepository collections are selected. Click the (+) button next to the checkbox to open an overlay window with the full lists of collections.

Visit the Collections Information Page for a full list of collections hosted by this portal.
The modal displays the same collections organized in different tabs, according to different criteria: Taxonomic Group.
Criterion: NEON Theme

Activate a single criterion to filter collections

- Taxonomic Group
- **NEON Theme**
- Sample Type

Select Collections by NEON Theme

- All NEON Biorepository Collections
- Atmosphere
- Atmosphere, Land Cover & Processes
- Biogeochemistry, Land Cover & Processes
- Biogeochemistry, Organisms, Populations, and Communities
- Organisms, Populations, and Communities
Criterion: Sample Type

Activate a single criterion to filter collections

- Taxonomic Group
- NEON Theme
- Sample Type

Select Collections by Sample Type

- All NEON Biorepository Collections
- DNA Sample
- Dry Sample
- Environmental Sample
- Fluid-Preserved Sample
- Frozen Sample
- Slide-Mounted Sample
- Tissue or Fecal Sample

LATITUDE & LONGITUDE

Bounding Box

Polygon (WKT footprint)

Point-Radius
To see each collection profile, click the collection title if it's blue (meaning it's available for loans/requests), or the "More Info" link if it's greyed out (meaning it's NOT available for loans/requests at the moment).
Benthic Macroinvertebrate Collection (DNA Extracts) (NEON-BMIC-DNA)

Please contact the NEON Biorepository for information about when these samples will become available. This collection contains genetic extracts from homogenized benthic macroinvertebrate samples collected during aquatic macroinvertebrate sampling (NEON sample class: inv_dnaExtraction_in.dnaSampleID). Benthic macroinvertebrate metabarcode samples are collected for analysis at wadeable stream, river, and lake sites during the mid-summer aquatic biology bout window, at the same time and location as morphological taxonomy samples. Samples are collected using the most appropriate sampler for the habitat type, including Surber, Hess, hand corer, modified kicknet, D-frame sweep, and petite ponar samplers using field-sterile methods. In wadeable streams, samples are collected in the most dominant habitat type (e.g. riffles, runs, pools, step pools). In lakes and rivers, samples are collected in littoral areas using a D-frame sweep. Samples are preserved in ethanol in the field, returned to the domain support facility for a preservative change prior to shipping to an external facility. The metabarcode samples from bout 2 (summer) are shipped to an external facility for homogenization and high-throughput sequencing (metabarcoding). The unused portion of genetic extracts are archived at the NEON Biorepository in 96-well plates and stored at ~80 degrees Celsius. See related links below for protocols and NEON related data products. The metabarcoding analysis protocol used by Jonah Ventures (external facility) is available in the NEON document library (https://data.neonscience.org/documents). Additional information about Jonah Ventures can be found at https://jonahventures.com/.

Contacts: NEON Biorepository, biorepo@asu.edu

Collection Manager: Azhar Husain

NEON Data Product Description: https://data.neonscience.org/data-products/DP1.20126.001

Collection Type: Preserved Specimens
The search will only use the actively selected collection tab. To accept your selection, click the "Accept and close" button.

Activate a single criterion to filter collections

- Taxonomic Group
- NEON Theme
- Sample Type

Select Collections by Sample Type

- All NEON Biorepository Collections
- DNA Sample
  - Benthic Macroinvertebrate Collection (DNA Extracts) (BMIC-DNA)
  - Benthic Microbe Collection (DNA Extracts) (BEMC-DNA) - Samples Unavailable More Info
- Carabid Collection (DNA Extracts) (CARC-DNA)
- Fish Collection (DNA Extracts) (FISC-DNA)
- Mammal Collection (DNA Extracts) (MAMC-DNA)
- Mosquito Collection (DNA Extracts [Pathogen Extracts]) (MOSC-PE) - Samples Unavailable More Info
- Mosquito Collection (DNA Extracts) (MOSC-DNA) - Samples Unavailable More Info
- Soil Microbe Collection (DNA Extracts) (SOMC-DNA)
- Surface Water Microbe Collection (DNA Extracts) (SWMC-DNA) - Samples Unavailable More Info
- Tick Collection (DNA Extracts [Pathogen Extracts]) (TICC-PE) - Samples Unavailable More Info
- Zooplankton Collection (DNA Extracts) (ZOOC-DNA)
- Dry Sample
- Environmental Sample
- Fluid-Preserved Sample
- Frozen Sample
- Slide-Mounted Sample
- Tissue or Fecal Sample

[Image of a computer screen showing the selection interface]
The selected collections codes are going to appear summarized in the criteria chips in the right panel.

Visit the [Collections Information Page](#) for a full list of collections hosted by this portal.
Note that you must select at least one collection to be able to perform a search. An alert will appear when you click the "Search" button if you fail to do so.

**Sample Search**

**TAXONOMY**

- **Taxon**: Enter taxonomic name
- **Any name**: Select taxonomic name

Type at least 4 characters for quick suggestions. Separate multiple with commas.

- Include Synonyms

**COLLECTIONS**

- **All NEON Biorepository Collections**
- **All Additional NEON Collections**
- **All Other Collections from NEON sites**

Visit the [Collections Information Page](#) for a full list of collections hosted by this portal.

**SAMPLE PROPERTIES**

- **Include other catalog numbers and GUIDs**
- **Limit to specimens with images**
- **Limit to specimens with genetic data**

**LOCALITY**

Please select at least one collection. Click to dismiss.
Sample Properties

By default the search will include all catalog numbers available. You can limit the search by specimens that have images or genetic data (e.g. sequences available in the Barcode of Life Database - BOLD).

Visit the Collections Information Page for a full list of collections hosted by this portal.
Locality

The NEON Domains and Sites have been added as a list of filters to refine searches in the portal.
You can expand a domain to see what sites are included in it.
Bartlett Experimental Forest NEON / BART

Relocatable Terrestrial, NH, D01: Northeast
Click the site(s)/domain(s) desired and note that they will appear summarized as a criterion chip in the right panel.
For the nominal locality criteria note that it is only possible to search localities in the US territories.
Latitude and Longitude criteria can also be applied using a bounding box, spatial polygon, or point-radius area.