



National Institute of Food and Agriculture

U.S. DEPARTMENT OF AGRICULTURE

BIOENERGY, CLIMATE, AND ENVIRONMENT
FOOD PRODUCTION AND SUSTAINABILITY
YOUTH, FAMILY, AND COMMUNITY
FOOD SAFETY AND NUTRITION
INTERNATIONAL PROGRAMS

Tuesday, April 16th, 2024

NIFA

Using Ag Data Commons to Share USDA-Funded Work

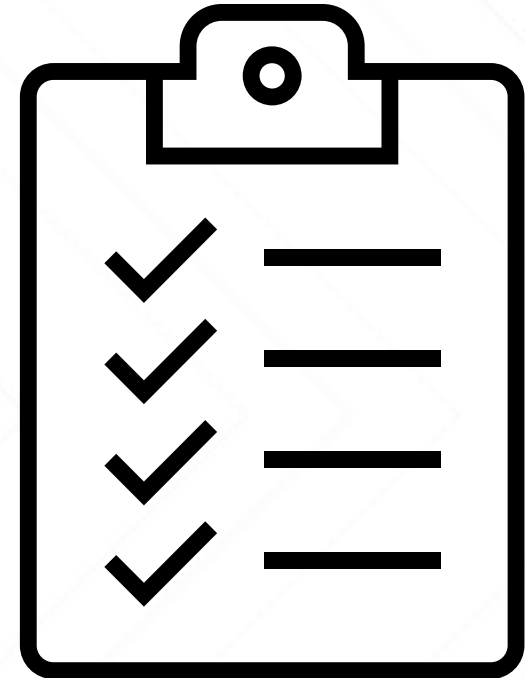
Maggie Foust
Michal McCullough
Nino Chkhenkeli

INVESTING IN SCIENCE | SECURING OUR FUTURE | WWW.NIFA.USDA.GOV

USDA IS AN EQUAL OPPORTUNITY PROVIDER, EMPLOYER, AND LENDER

Agenda

- Public Access Requirements
- Data Management Plans and Data Sharing
- What is Ag Data Commons?
- Ag Data Commons
Catalog Record Creation Instructions
- Question and Answer



Public Access Requirements

All peer-reviewed, scholarly publications and digital scientific research data assets arising from unclassified research and programs funded wholly or in part by the USDA must be made accessible to the public.

- Digital scientific research data assets must be published in a data repository; and
- A standardized metadata catalog record must be submitted to the Ag Data Commons.



The screenshot shows the National Agricultural Library website. At the top left is the USDA logo and the text 'National Agricultural Library U.S. DEPARTMENT OF AGRICULTURE'. To the right are links for 'Ask A Question', 'Contact Us', and 'DigiTop'. A search bar contains the text 'What would you like to find?'. Below the search bar is a navigation menu with 'Home', 'Topics', 'Research Tools', 'Collections', 'Data', 'Services', and 'About Us'. The main content area has a breadcrumb trail 'Home / Services / Public Access and Open Science at USDA' and a heading 'Public Access and Open Science at USDA'. The text below the heading states: 'The USDA is committed to making all peer-reviewed, scholarly publications and digital scientific research data assets arising from unclassified scientific research supported wholly or in part by the USDA accessible to the public, to the extent practicable. Read the [Departmental Regulation \(DR\) 1020-006 \[PDF, 18 pages\]](#) to understand USDA's public access policy. Public Access is a critical part of our support of Open Science.' At the bottom, there is a section titled 'Search for Publications or Data' with two search buttons: 'Search PubAg' (with a flower image) and 'Search Ag Data Commons' (with a sunflower image).

To learn more about public access requirements, follow <https://www.nal.usda.gov/services/public-access>

Data Management Planning and Sharing

- Proper data management starts with the creation of Data Management Plan (DMP) at the stage of project development.
- NIFA, as with many other funders, require a DMP to be an integral part of the project proposal.
- Requirements for the Data Management Plan can be found in the Request for Application (RFA). Applicants should refer to specific instructions in the RFA when applying for NIFA funding opportunities.
- One of the DMP components require identification of a repository (or repositories) where the data will be shared for long-term public access.

Choosing an Appropriate Data Repository

- In many cases the requirements of your community, funder, institution, or publisher will determine your repository selection.
- Primary consideration should be given to discipline or data-type specific repositories as they are best suited for effective data discovery and reuse.
- For data that does not fit into an existing subject-specific repository, there are multiple available "generalist" repositories with broader focus.
- Look for repositories that assign datasets a citable, unique persistent identifier, such as a digital object identifier (DOI) or accession number, to facilitate reporting, findability, and attribution.

To learn more about finding a repository, follow <https://www.nal.usda.gov/data/find-data-repository>



What is Ag Data Commons?

- A research data catalog and generalist repository for public access to data produced during research funded or co-funded by USDA.
- In accordance with the USDA Public Access DR, **all USDA-funded researchers must ensure that a catalog record indicating the point of public access to their data is created in the Ag Data Commons.**

The screenshot shows the top portion of the USDA National Agricultural Library website. At the top left, there is a small American flag icon and the text "An official website of the United States government. Here's how you know." followed by a blue downward arrow. Below this is the USDA logo and the text "National Agricultural Library" and "U.S. DEPARTMENT OF AGRICULTURE". To the right of the logo, there are links for "Ask A Question", "Contact Us", and "DigiTop" with an external link icon. A search bar is located below these links, containing the text "What would you like to find?" and a magnifying glass icon. A dark blue navigation bar contains the following menu items: "Home", "Topics", "Research Tools", "Collections", "Data", "Services", and "About Us", each with a downward arrow. Below the navigation bar, there is a breadcrumb trail: "Home / Services / Ag Data Commons User Guide". The main heading of the page is "Ag Data Commons User Guide" in a large, bold, black font.

Ag Data Commons Scope

1. **USDA-funding.** A submission must satisfy at least one of the two USDA-funding criteria:
 - a. One of the co-authors of the data product is affiliated with USDA, or
 - b. It was produced as a result of a research project funded or co-funded by USDA, for example, through NIFA grant or through an agency-approved research project.
2. **Content type.** The item(s) considered for submission must fall into one of the following types:
 - a. Data (e.g. tabular data, genomic sequences, multimedia materials)
 - b. Data product (e.g., database)*
 - c. Non-executable software created to help users process or model data*.
3. **Level of access - Public.** Your submission must contain only data and/or data products intended for public access. The Ag Data Commons **does not accept** datasets with Personally Identifiable Information (PII).

*See [Ag Data Commons Collection Policy](#) for details about these content types.

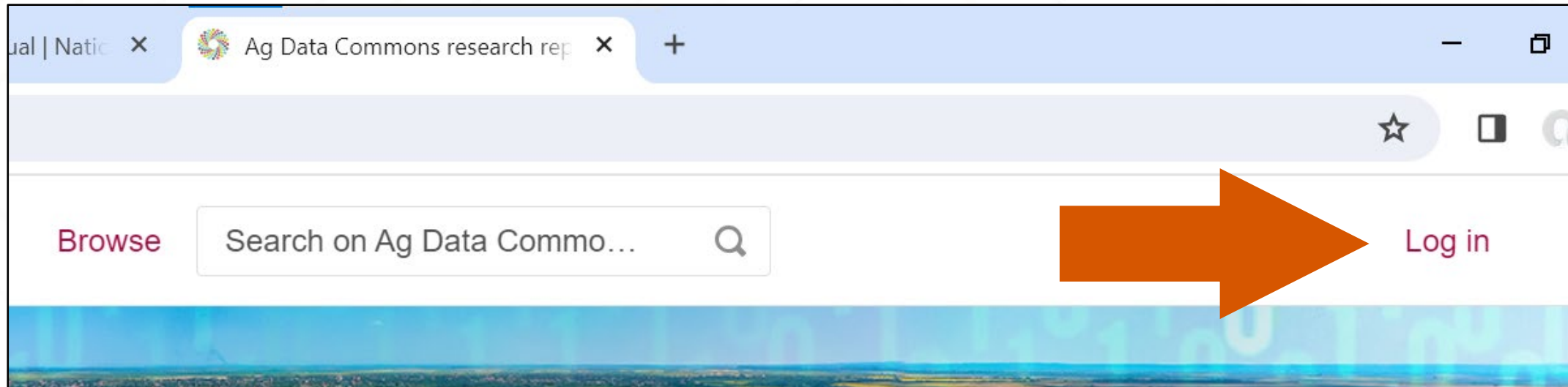


National Institute of Food and Agriculture
U.S. DEPARTMENT OF AGRICULTURE

Ag Data Commons Catalog Record Creation Instructions

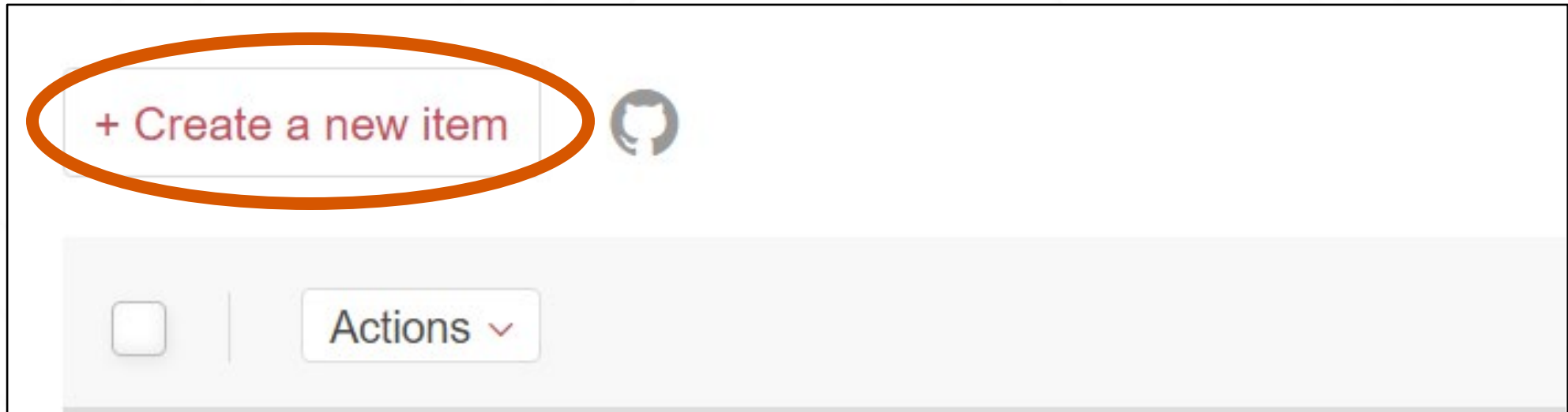
1. Begin Submission

Navigate to <https://agdatacommons.nal.usda.gov/> and log in.



2. Create new item

From the **My Data** page, select the button labeled **+Create a new item**, located to the left and above the list of your datasets.



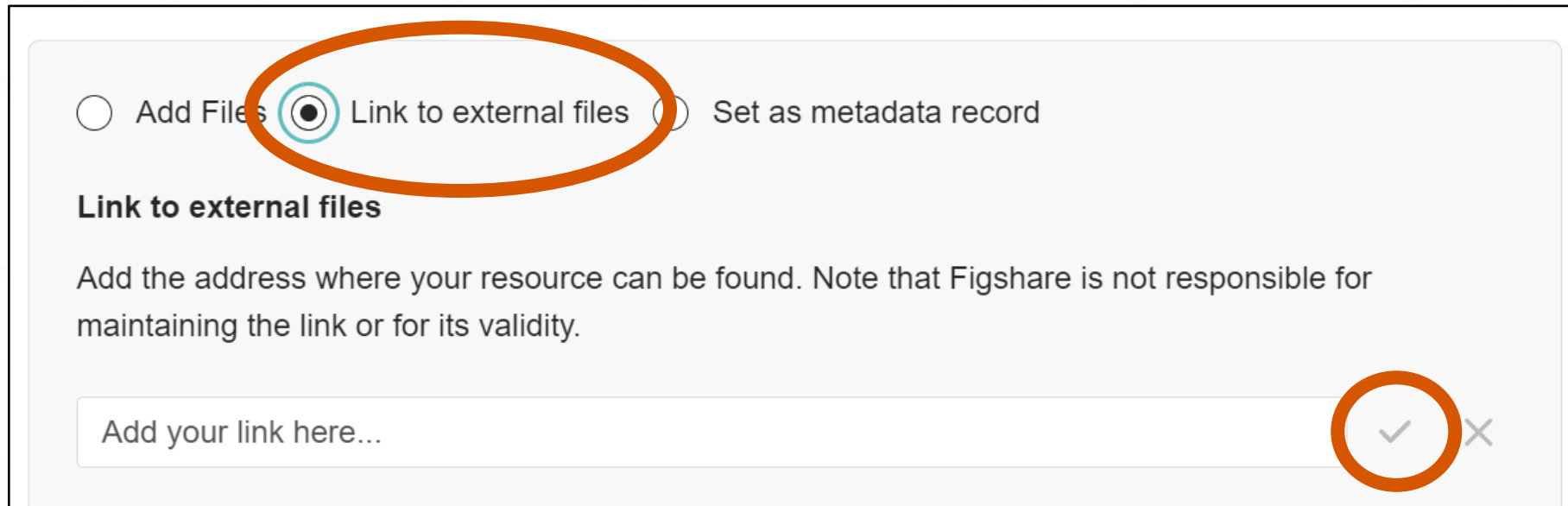
3. Complete the form

- Mandatory fields are indicated with a red asterisk:
 - Title
 - Item type
 - Authors
 - Categories
 - Keywords
 - Description
 - License
 - Data contact name and email
 - Publisher
 - Temporal extent start date
 - Theme
 - ISO topic category
- View the data submission manual at <https://www.nal.usda.gov/services/agdatacommons/data-submission-manual> for a list of fields and instructions on completion

4. Link to external files

Choose the button for **Link to external files**. Add your URL in the box below.

- Make sure to click the checkmark next to the box to save the URL



Add Files Link to external files Set as metadata record

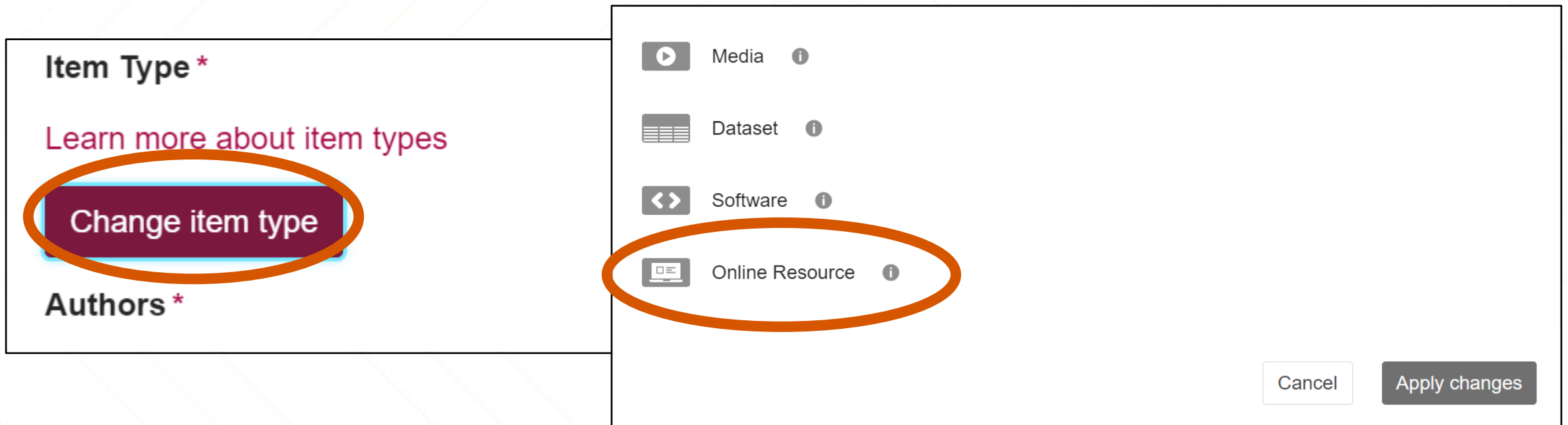
Link to external files

Add the address where your resource can be found. Note that Figshare is not responsible for maintaining the link or for its validity.

Add your link here...

5. Choose item type

Select **Online resource** as the **Item type**.



Item Type *

[Learn more about item types](#)

Change item type

Authors *

- Media ⓘ
- Dataset ⓘ
- Software ⓘ
- Online Resource ⓘ**

Cancel Apply changes

6. Funding

Enter your grant information. Select **Add another** to enter additional grants.

Funding i

+ Add another

6a. Entering funding using Dimensions

- The funding field in Ag Data Commons is connected to Dimensions, which is a comprehensive research grants database that links grants to millions of resulting publications, clinical trials, and patents.
 - Search by project title by typing in the values into the funding box dropdown with type-ahead will show matches in Dimensions, if available
 - Select the matching result in the dropdown menu to populate the field
 - Select **Add another** to enter additional grants





Funding

Maximizing adoption

Maximizing Adoption by Demonstrating the Compatibility of Insecticide Netting with Diverse Pest Management Tactics at Food Facilities

2020-70006-33000 | National Institute of Food and Agriculture

Maximizing Adoption by Demonstrating the Compatibility of Insecticide Netting with Diverse Pest Management Tactics at Food Facilities

N/A | Agricultural Research Service

CC BY 4.0

Data contact name *

LastName, FirstName, M.I.

- Add embargo
- Share with private
- Manage Identifier
- Edit timeline
- Add custom thumb

Preview item

Delete item

Save changes



FUNDING

Arkansas Fertilizer Tonnage Fees administered by the Arkansas Soil Test Review Board

University of Arkansas System Division of Agriculture, Agricultural Experiment Station: State Project 1952

University of Arkansas System Division of Agriculture, Agricultural Experiment Station: State Project 2824

Evaluation of Fertilization Practices, Soil Fertility, and Plant Nutrition for Crops Produced in Arkansas

National Institute of Food and Agriculture

[Find out more...](#)

Evaluation of Soil Nutrient Availability Indices, Fertilization, and Crop Management Practices on Plant Nutrition and Yield of Crops Produced in Arkansas

National Institute of Food and Agriculture

[Find out more...](#)

Development of Crop Nutrient Management Decision Aids Based on Plant and Soil Analyses

National Institute of Food and Agriculture

[Find out more...](#)

Plant, Soil, and Manure Analytical Service Programs

United States Department of Agriculture

[Find out more...](#)

Plant, Soil, and Manure Analytical Service Programs

United States Department of Agriculture

[Find out more...](#)

HISTORY

6b. Format for entering funding values manually

- If your project does not show up in the dropdown menu, you can enter the funding information manually:
 - Type the funder and grant or project number into the field and don't select anything from the dropdown menu
 - Format as Funder: Grant/Project number.
 - USDA agencies should be formatted as USDA-XXXX: Grant/Project number
 - Examples:
 - **USDA-ARS: 3090-13000-015-00D**
 - **USDA-APHIS: AP18PPQS**
 - **National Human Genome Research Institute: U54 HG003273**
 - **National Science Foundation: DEB1916788**

6c. Format for entering NIFA funding manually

To enter funding values for NIFA funds manually, use one the following formats depending on the type of funding:

- For competitive grants: enter the award number, format as USDA-NIFA: Award Number
Example: USDA-NIFA: 2016-68004-24768
- For capacity grants (aka formula grants such as Hatch Funds and Ag Extension Programs at 1890 Institutions) enter the accession number, format as USDA-NIFA: Accession Number
Example: USDA-NIFA: 0087887



FUNDING

Purdue University: Purdue Agricultural Research Programs

USDA-NIFA: 0087887

HISTORY

● **2022-12-28** - First online date, Publication date

6d. Finding your award number for competitive grants

- If you are reporting a publication funded by a NIFA competitive grants program, please provide your 14-digit award number in this format (20XX-XXXXX-XXXXX) in the **Award/Grant Number field**. Your NIFA award number can be found in both your Award Face Sheet (field 1) or in the information at the top of your REEport Project Initiation.

Sample NIFA Award Face Sheet

United States Department of Agriculture National Institute of Food and Agriculture AWARD FACE SHEET				
1. Award No. #####-#####-#####	2. Amendment No. #	3. Proposal Number #####-#####	4. Period of Performance ####/#### through ####/####	5. Type of Instrument Grant
6. Type of Action New	7. CFDA Number ##.###	8. FAIN #####	9. Method of Payment ASAP XXXXXXXXXXXXX	10. CRIS Number #####
11. Authority: XXXXXXXXXXXXXXXX				

6e. Finding your award number for competitive grants

Sample REEport Project Initiation

United States Department of Agriculture			
Project Initiation			
Title: XXXX XXXXXXXX			
Accession No.	#####	Sponsoring Institution	National Institute of Food and Agriculture
Project No.		Project Status	ACTIVE
Funding Source	Non Formula		
Grants.gov No.	GRANT#####	Proposal No.	####-#####
UEI	XXXXXXXXXXXX	DUNS Number	#####
Start Date	####/####/####	End Date	###/###/####
Award Number	####-#####-#####	Award Amount	\$ ###,####
Award Date	#####>000X	Award Fiscal Year	####

6e. Finding your accession number for capacity grants

- If you are reporting a publication funded by a NIFA capacity grant program (e.g. Hatch, McIntire-Stennis), please report your 7-digit accession number (XXXXXXX) in the **Award/Grant Number field**.
 - The NIFA assigned accession number can be found in the NIFA Reporting System entry for your project or program.

Sample NIFA Reporting System Screenshot

The screenshot displays a form for reporting a project. The fields are as follows:

- Title: XXXXXX XXXXXXXXXXX XXXXX XXXXXXX
- XXXXXXXXXX University
- Approved as of: ##/##/####
- Project Director: XXXX XXXXX
- Performing Department Code Name: ### XXXXXX XXXXXXX
- Org Project Number Prefix Number: XXXX ##### ####
- Results: Amount 1, Fiscal Year(s) 2022
- Funding Source: Capacity Grant Program XXXXXXX
- Primary Critical Issue: Not Provided
- Start Date: ##/##/####
- End Date: ##/##/####
- Accession Number: ##### (highlighted in orange)

7. Manage related materials

Link to external content such as articles supported by your dataset, articles or protocols that describe the methods used to generate your data, and software or equipment used to compile the data.

Related Materials

No related materials.

[Manage materials](#)

Licence *

7a. Manage materials

For each item you link to add an **Identifier**. Use the most persistent link possible, DOIs are preferred. Add a **Title** for the material being linked to.

Related Materials

Add a new related material

Related material identifier *

Identifier *

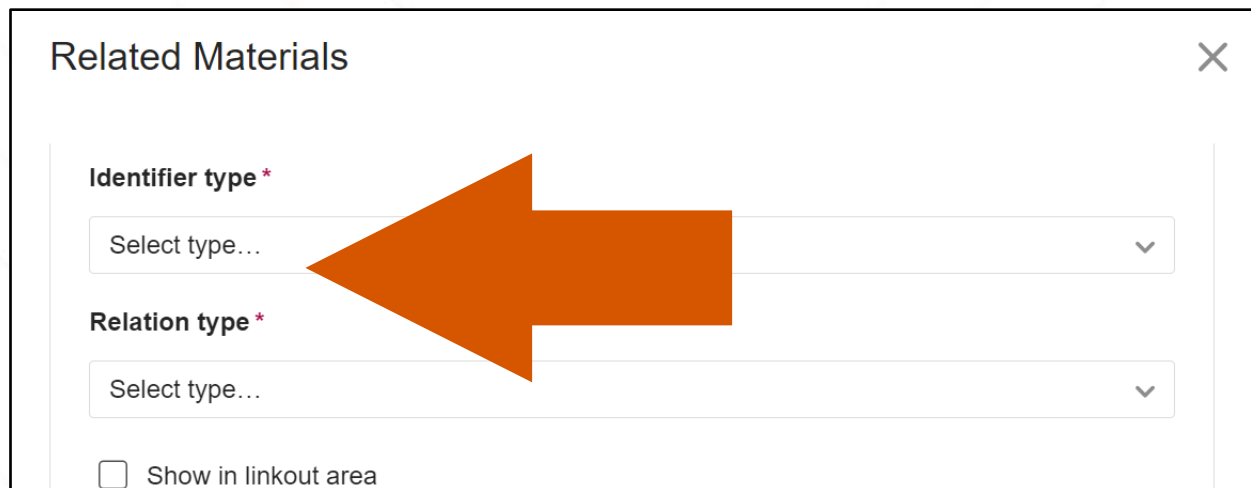
Title (optional)

7b. Identifier type & Relation type

Choose the **Identifier type** of the link that you are using. Most common will be DOI or URL.

Choose the **Relation type** to define the relationship between your data and the content you are linking to. The most common choices are:

- “Is Supplement to” for articles that are supported by your data
- “Is Documented by” for methods, articles, or protocols
- “Compiled by” for software or equipment used to generate your data



Related Materials

Identifier type *

Select type... ▼

Relation type *

Select type... ▼

Show in linkout area

7c. Add materials

Select **Add material** to include items related to your record. You can add multiple items at a time. Select **Done** to finish adding.

Related Materials
✕

Identifier type *

Select type...
▼

Relation type *

Select type...
▼

Show in linkout area

Clear form

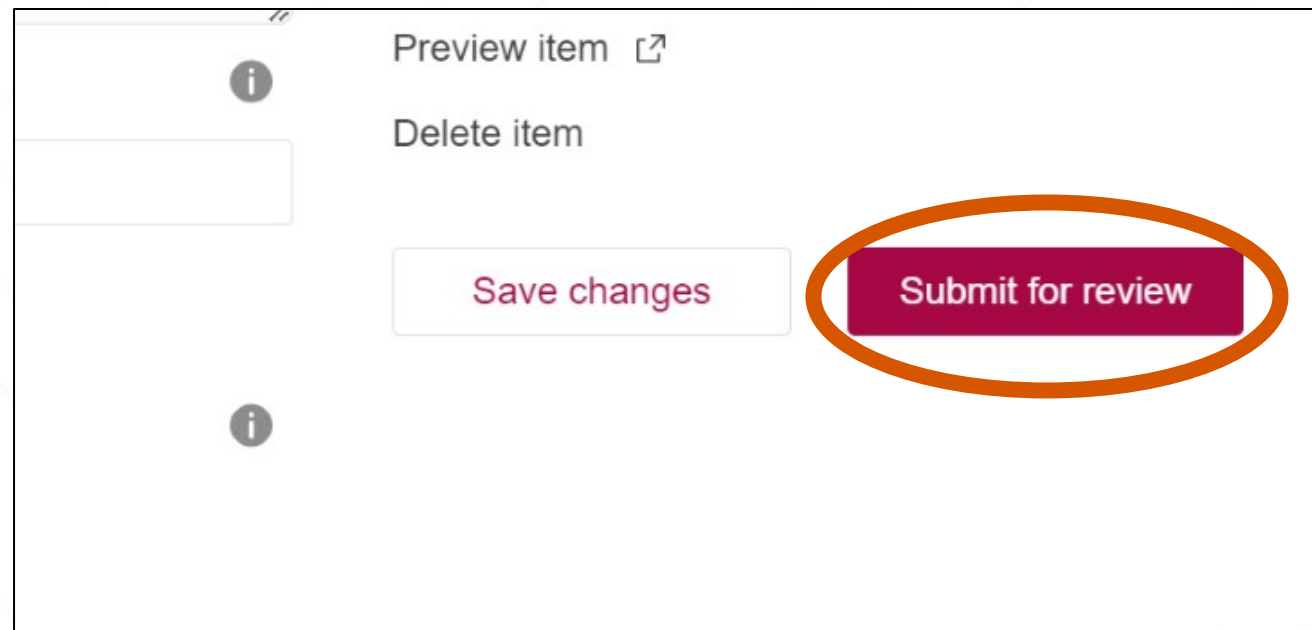
➔

Add material

Close

8. Submit for Review

Select the red button labeled **Submit for review** when you are finished. The record will be reviewed by a curator who may contact you for more information before publishing it.



Programmatic catalog record creation

- Ag Data Commons team developed harvests from selected community-specific data repositories:
 - Forest Service Research Data Archive
 - NCBI's BioProject
 - Jornada LTER data catalog, hosted at EDI
- If you deposit data into one of those repositories, make sure to provide funding information in the format described above and check with ADC curation team if the record will be created with you via a harvest.



Non-Discrimination Statement

<https://www.usda.gov/non-discrimination-statement>

- In accordance with federal civil rights law and U.S. Department of Agriculture (USDA) civil rights regulations and policies, the USDA, its Agencies, offices, and employees, and institutions participating in or administering USDA programs, are prohibited from discriminating based on race, color, national origin, religion, sex, gender identity (including gender expression), sexual orientation, disability, age, marital status, family/parental status, income derived from a public assistance program, political beliefs, or reprisal or retaliation for prior civil rights activity, in any program or activity conducted or funded by USDA (not all bases apply to all programs). Remedies and complaint filing deadlines vary by program or incident.
- Persons with disabilities who require alternative means of communication for program information (e.g., Braille, large print, audiotape, American Sign Language, etc.) should contact the responsible agency or USDA's TARGET Center at (202) 720-2600 (voice and TTY) or contact USDA through the Federal Relay Service at (800) 877-8339. Additionally, program information may be made available in languages other than English.
- To file a program discrimination complaint, complete the USDA Program Discrimination Complaint Form, AD-3027, found online at How to File a Program Discrimination Complaint and at any USDA office or write a letter addressed to USDA and provide in the letter all of the information requested in the form. To request a copy of the complaint form, call (866) 632-9992. Submit your completed form or letter to USDA by: (1) mail: U.S. Department of Agriculture, Office of the Assistant Secretary for Civil Rights, 1400 Independence Avenue, SW, Washington, D.C. 20250-9410; (2) fax (202) 690-7442; or (3) email: program.intake@usda.gov.
- USDA is an equal opportunity provider, employer and lender.

Thank you! Any questions?



National Institute of Food and Agriculture
U.S. DEPARTMENT OF AGRICULTURE

Contact the National Agricultural Library:

<https://www.nal.usda.gov/ask-question>

Email the Ag Data Commons team:

nal-adc-curator@usda.gov