

# What's at the National Agricultural Library?

**Presenter:**

Jill R. James

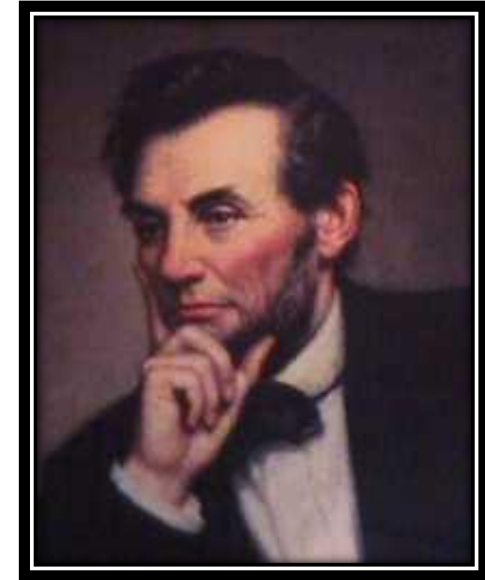
Associate Director for Information Products

National Agricultural Library

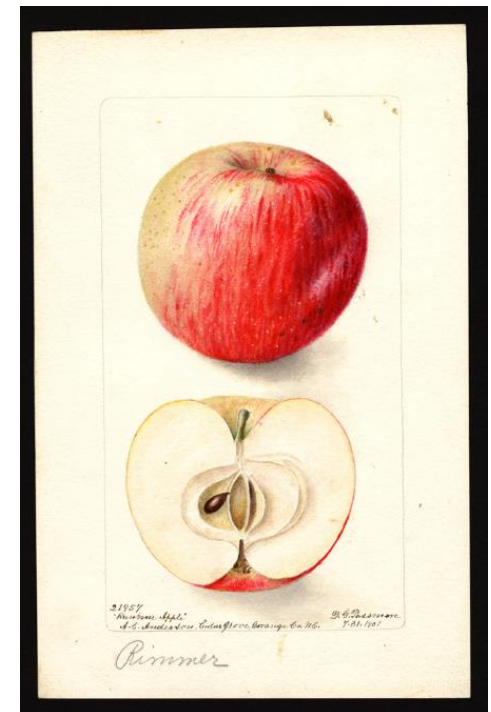
October 22, 2018



- ❖ The National Agricultural Library (NAL) is one of five national libraries of the United States and houses one of the world's largest collections devoted to agriculture and its related sciences.
- ❖ Established in 1862 by President Lincoln with the signing of the Organic Act which created the U.S. Department of Agriculture.
- ❖ NAL serves employees of the U.S. Department of Agriculture, researchers and organizations in the United States, and the international community.



The National Agricultural Library facilitates the creation of agricultural knowledge through the acquisition, curation, and dissemination of the information needed to solve agricultural challenges today and in the future.



The National Agricultural Library will be known as the world's leading agricultural knowledge management organization and will ensure that American agriculture has the information resources it needs to address current questions and solve tomorrow's agricultural challenges. NAL sustains the American agricultural enterprise through public access and effective stewardship of agricultural data, literature, and other information resources.



To accomplish this vision, NAL will:

- ❖ Collaborate within NAL and with the communities we serve.
- ❖ Innovate new approaches to the knowledge management challenges facing the agricultural enterprise today and in the future.
- ❖ Deliver effective products and services that meet the continuously evolving needs of our immediate customers and the research communities we serve.



# Introduction: NAL History



- ❖ Originated as part of the Secretary's Office in 1862 with 1,000 volumes
- ❖ 1920 – 150,000 volumes
- ❖ 1956 – 1.05 million volumes
- ❖ 1982 – 1.7 million volumes
- ❖ 2016 – 2.5 million volumes
- ❖ Designated a National Library in 1962
- ❖ Re-located to Beltsville in 1969
- ❖ 2017 - 50<sup>th</sup> anniversary of the laying of the cornerstone



Search Articles Books  
Search the NAL website ... Search

Also try: Digital Collections  
Popular Topics

- Agricultural Law
- Animal Welfare Act Workshops
- Funding for Rural Communities
- Nutrient Data for Foods
- Obesity Prevention

USDA Employees

- DigiTop
- Navigator
- Borrow Materials
- Submit Articles
- USDA Agency Field Libraries

USDA  
United States Department of Agriculture  
**Research, Education, & Economics**  
**Mission Area Leadership\***

*Oral History Series*

\* Interviewees were members of USDA-REE leadership at the time of recording.

Special Collections: Oral histories with USDA-REE leadership



USDA VIVO

Nutrition.gov

AgNIC

National Invasive Species Information Center

Rural Development Programs and Services

NAL's Internet Archive Collection

**PubAg**

Search Engine for Published Agricultural Research.  
How to use the PubAg API.

Stay Connected

- ❖ PubAg
- ❖ AGRICOLA
- ❖ NAL Digital Collections (NALDC)
- ❖ National Agricultural Library Thesaurus (NALT)

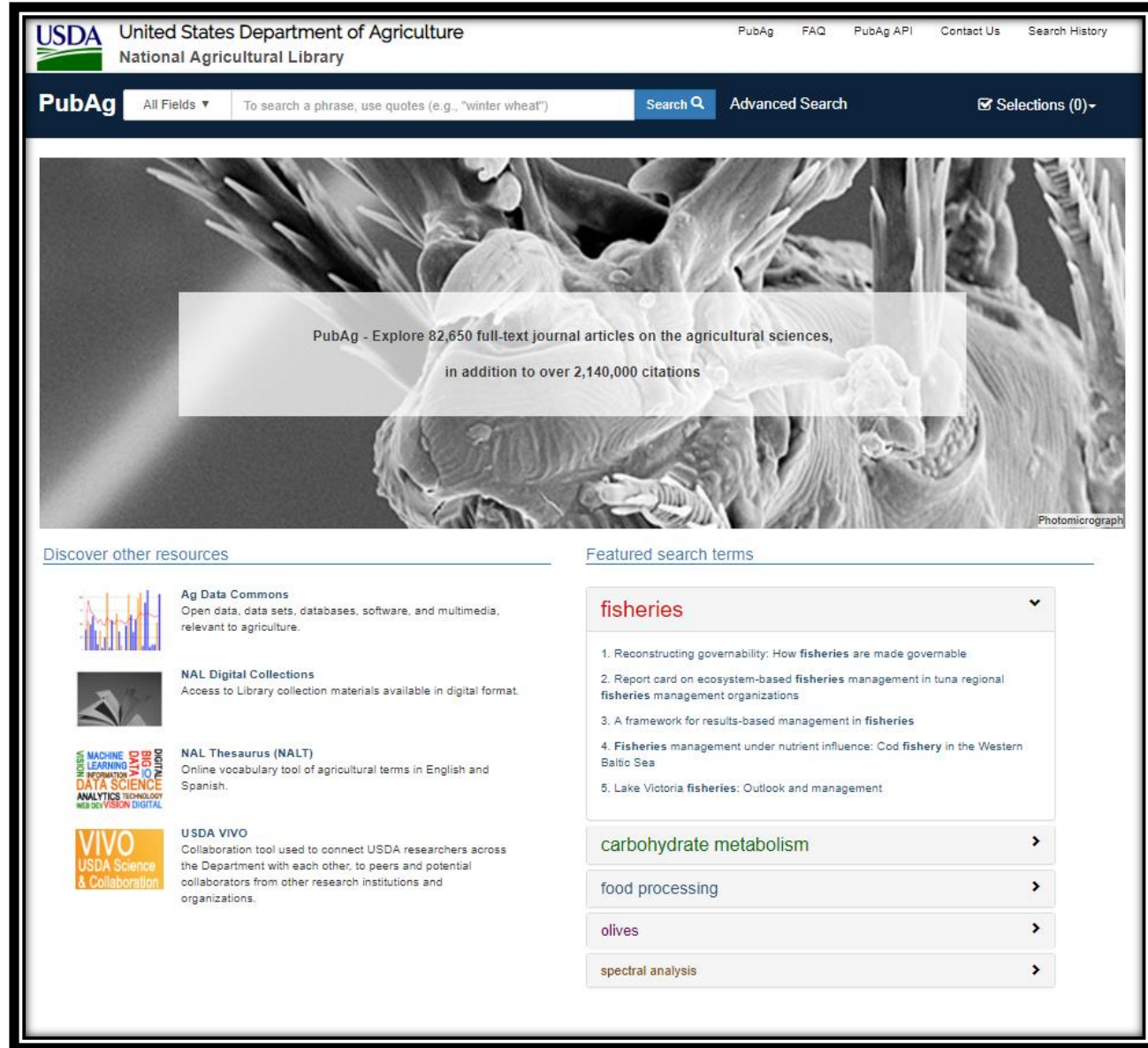




- ❖ Ag Data Commons
  - ❖ Dr. Duke's Phytochemical and Ethnobotanical Databases
  
- ❖ Information Centers
  - ❖ Brand Foods Database
  
- ❖ Special Collections



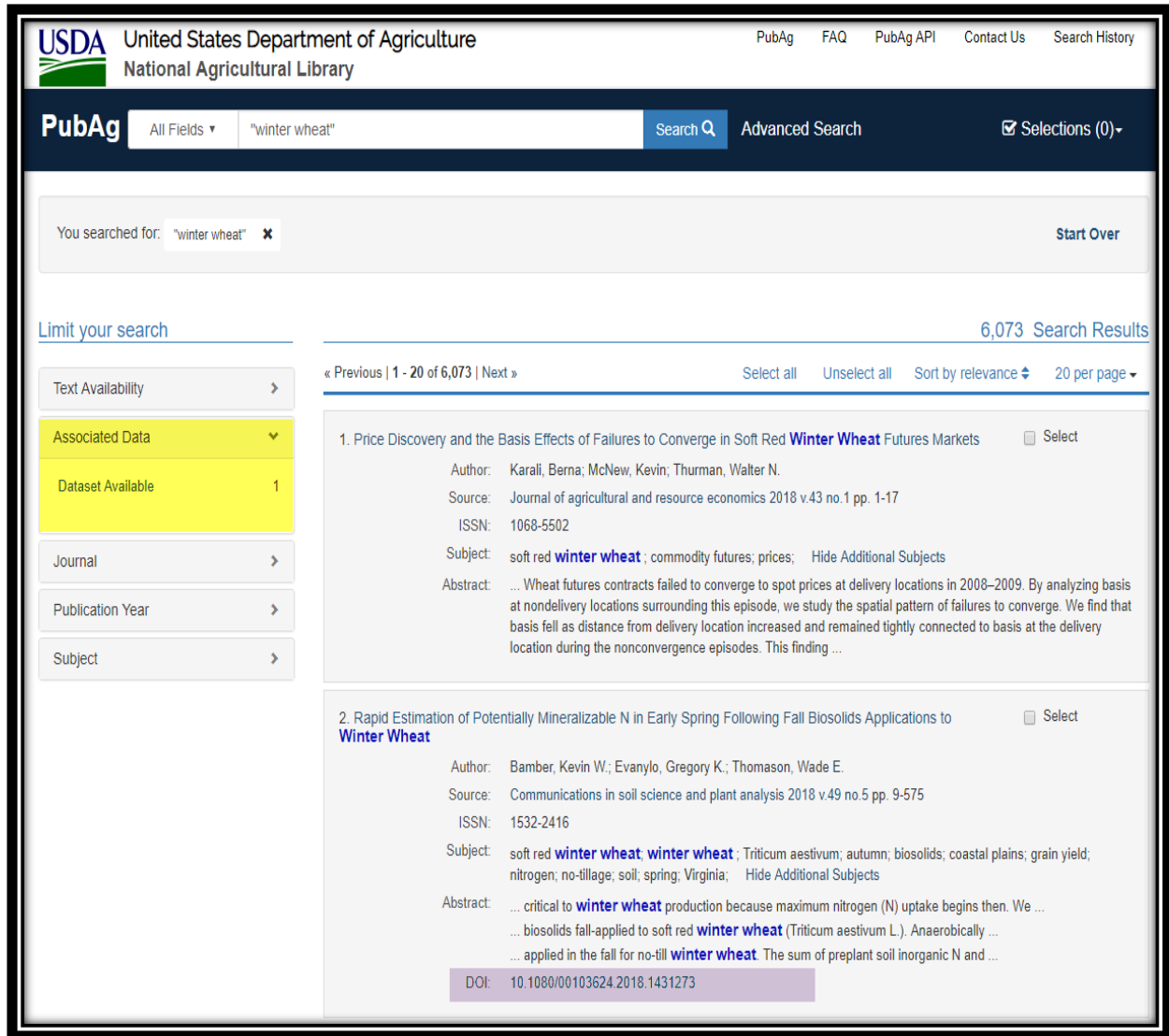
- ❖ Full-text articles relevant to the agricultural sciences.
- ❖ Citations enhanced by descriptors from the National Agricultural Library Thesaurus (NALT).



The screenshot shows the PubAg website interface. At the top, it features the USDA logo and the text "United States Department of Agriculture National Agricultural Library". Navigation links include "PubAg", "FAQ", "PubAg API", "Contact Us", and "Search History". A search bar is present with the text "To search a phrase, use quotes (e.g., 'winter wheat')" and a "Search" button. Below the search bar, there is a large banner image of a plant with a semi-transparent text box that reads: "PubAg - Explore 82,650 full-text journal articles on the agricultural sciences, in addition to over 2,140,000 citations". Below the banner, there are two columns of content. The left column is titled "Discover other resources" and lists: "Ag Data Commons" (Open data, data sets, databases, software, and multimedia, relevant to agriculture.), "NAL Digital Collections" (Access to Library collection materials available in digital format.), "NAL Thesaurus (NALT)" (Online vocabulary tool of agricultural terms in English and Spanish.), and "USDA VIVO" (Collaboration tool used to connect USDA researchers across the Department with each other, to peers and potential collaborators from other research institutions and organizations.). The right column is titled "Featured search terms" and lists: "fisheries" (with a dropdown arrow), "carbohydrate metabolism" (with a right arrow), "food processing" (with a right arrow), "olives" (with a right arrow), and "spectral analysis" (with a right arrow).

❖ Access to datasets, when available

❖ Links to full-text are included in the citation



The screenshot shows the PubAg search results page for the query "winter wheat". The page header includes the USDA logo, "United States Department of Agriculture National Agricultural Library", and navigation links for "PubAg", "FAQ", "PubAg API", "Contact Us", and "Search History". The search bar shows "All Fields" and the query "winter wheat" with a "Search Q" button and an "Advanced Search" link. A "Selections (0)" dropdown is visible. Below the search bar, it states "You searched for: 'winter wheat' x" with a "Start Over" link. A "Limit your search" section on the left includes filters for "Text Availability", "Associated Data", "Dataset Available" (with a count of 1), "Journal", "Publication Year", and "Subject". The main results area shows 6,073 search results. The first result is titled "1. Price Discovery and the Basis Effects of Failures to Converge in Soft Red Winter Wheat Futures Markets" with a "Select" checkbox. It lists the author as Karali, Berna; McNew, Kevin; Thurman, Walter N., the source as "Journal of agricultural and resource economics 2018 v.43 no.1 pp. 1-17", and the ISSN as 1068-5502. The abstract discusses wheat futures contracts failing to converge to spot prices. The second result is titled "2. Rapid Estimation of Potentially Mineralizable N in Early Spring Following Fall Biosolids Applications to Winter Wheat" with a "Select" checkbox. It lists the author as Bamber, Kevin W.; Evanylo, Gregory K.; Thomason, Wade E., the source as "Communications in soil science and plant analysis 2018 v.49 no.5 pp. 9-575", and the ISSN as 1532-2416. The abstract discusses nitrogen uptake in winter wheat. A DOI link is provided for the second result: 10.1080/00103624.2018.1431273.



❖ Citations have been enriched through subject analysis and application of terms from the National Agricultural Library Thesaurus (NALT)

« Previous | 4 of 6,073 | Next » [Back to Search](#) [Start Over](#)

Links to Text  
[DOI](#) (10.1080/17538947.2017.1366388)

Actions on this item  
 Select  
[Email](#)  
[Cite](#)  
[Find in a library](#)  
[Download RIS File](#)  
[Export to Zotero](#)  
[Export to Refworks](#)  
[Export to EndNote](#)

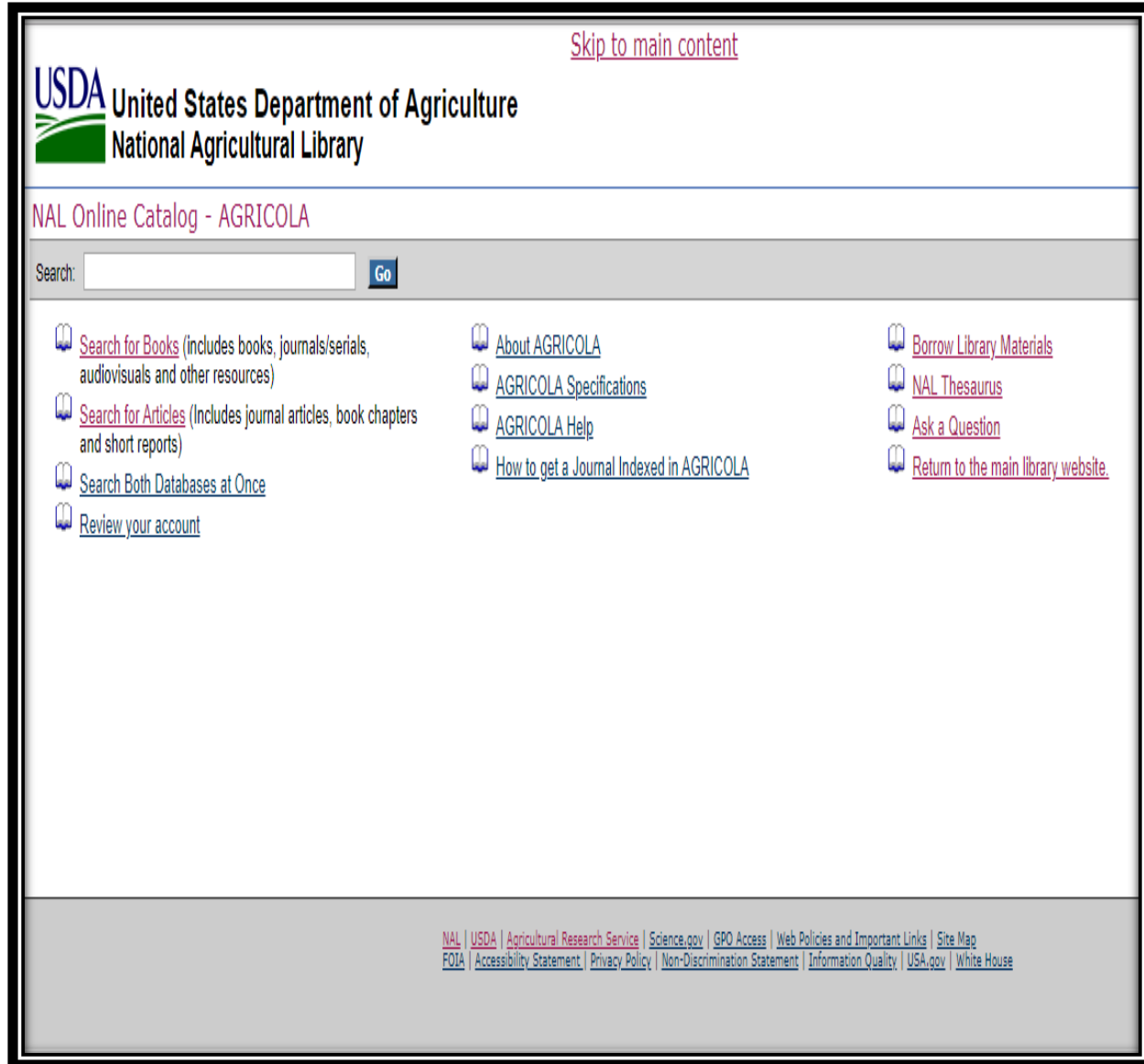
Winter wheat mapping using a random forest classifier combined with multi-temporal and multi-sensor data

Author: Liu, Jiantao, Feng, Quanlong, Gong, Jianhua, Zhou, Jieping, Liang, Jianming, Li, Yi  
Source: International journal of digital earth 2018 v.11 no.8 pp. 20-802  
ISSN: 1753-8955  
Subject: Triticum aestivum, acreage, cost effectiveness, developmental stages, food production, staple crops, winter, winter wheat, China  
Abstract: Wheat is a major staple food crop in China. Accurate and cost-effective wheat mapping is exceedingly critical for food production management, food security warnings, and food trade policy-making in China. To reduce confusion between wheat and non-wheat crops for accurate growth stage wheat mapping, we present a novel approach that combines a random forest (RF) classifier with multi-sensor and multi-temporal image data. This study aims to (1) determine whether an RF combined with multi-sensor and multi-temporal imagery can achieve accurate winter wheat mapping, (2) to find out whether the proposed approach can provide improved performance over the traditional classifiers, and (3) examine the feasibility of deriving reliable estimates of winter wheat-growing areas from medium-resolution remotely sensed data. Winter wheat mapping experiments were conducted in Boxing County. The experimental results suggest that the proposed method can achieve good performance, with an overall accuracy of 92.9% and a kappa coefficient ( $\kappa$ ) of 0.858. The winter wheat acreage was estimated at 33,895.71 ha with a relative error of only 9.3%. The effectiveness and feasibility of the proposed approach has been evaluated through comparison with other image classification methods. We conclude that the proposed approach can provide accurate delineation of winter wheat areas.



<https://usdawatercolors.nal.usda.gov/download/POM00003237/screen>

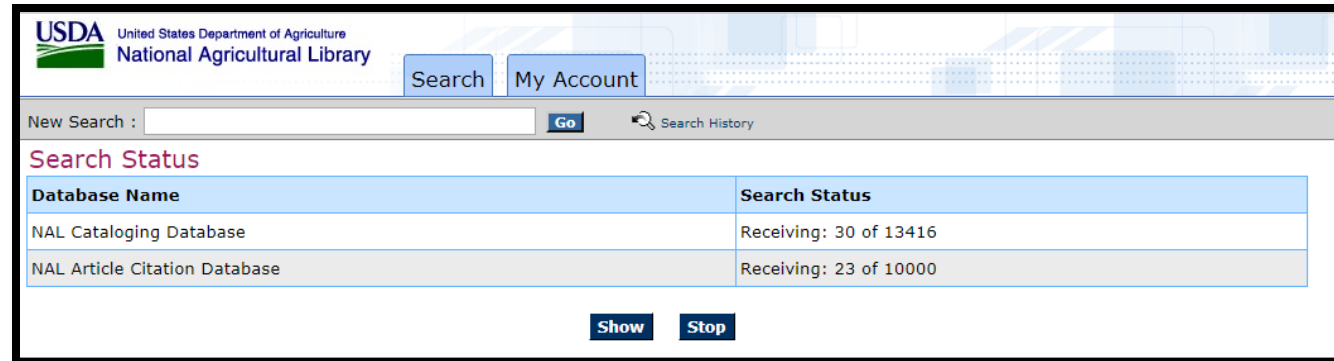
- ❖ Two databases:
  - Online catalog
  - Article citation index
- ❖ Search for books, articles, reports, videos, proceedings and more.
- ❖ Includes links to full-text when available.



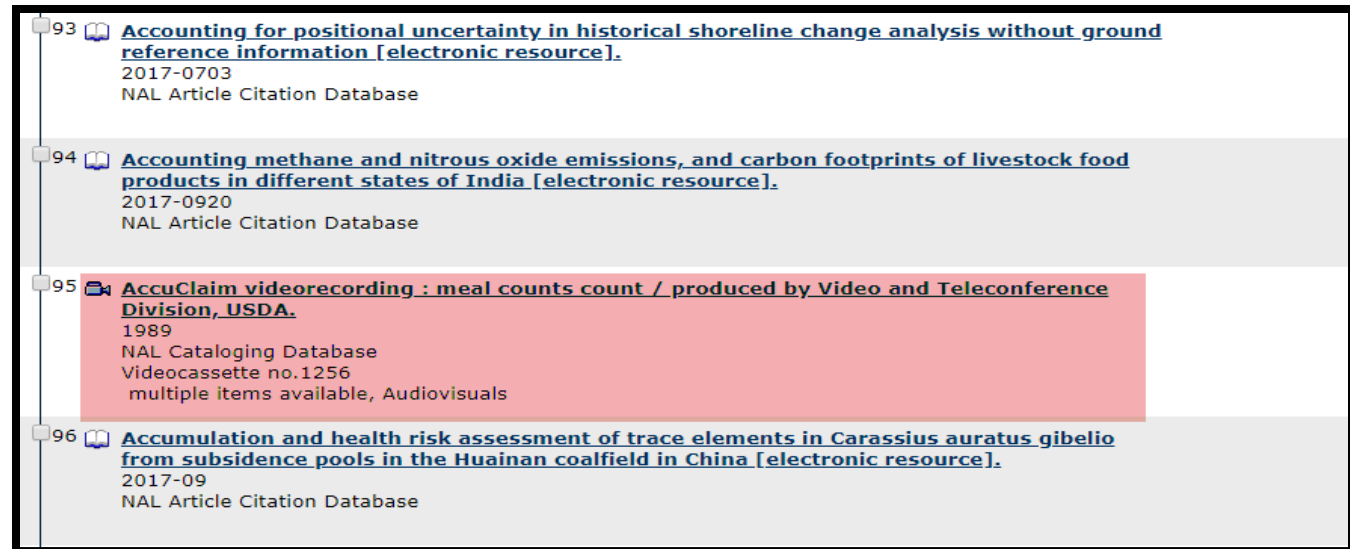
The screenshot displays the USDA National Agricultural Library AGRICOLA website. At the top right, there is a link to "Skip to main content". The header features the USDA logo and the text "United States Department of Agriculture National Agricultural Library". Below this is the title "NAL Online Catalog - AGRICOLA". A search bar with a "Go" button is present. The main content area is divided into three columns of links, each preceded by a book icon. The left column includes: "Search for Books (Includes books, journals/serials, audiovisuals and other resources)", "Search for Articles (Includes journal articles, book chapters and short reports)", "Search Both Databases at Once", and "Review your account". The middle column includes: "About AGRICOLA", "AGRICOLA Specifications", "AGRICOLA Help", and "How to get a Journal Indexed in AGRICOLA". The right column includes: "Borrow Library Materials", "NAL Thesaurus", "Ask a Question", and "Return to the main library website.". The footer contains a row of links: "NAL | USDA | Agricultural Research Service | Science.gov | GPO Access | Web Policies and Important Links | Site Map | FOIA | Accessibility Statement | Privacy Policy | Non-Discrimination Statement | Information Quality | USA.gov | White House".


❖ Time saving searches


❖ Search both databases at once





Database Name	Search Status
NAL Cataloging Database	Receiving: 30 of 13416
NAL Article Citation Database	Receiving: 23 of 10000

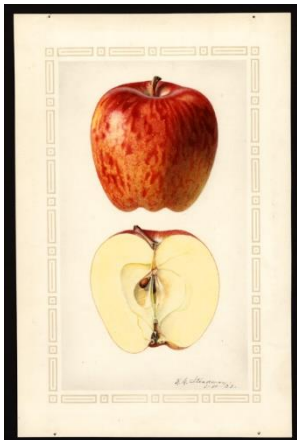


93  [Accounting for positional uncertainty in historical shoreline change analysis without ground reference information \[electronic resource\].](#)  
2017-0703  
NAL Article Citation Database

94  [Accounting methane and nitrous oxide emissions, and carbon footprints of livestock food products in different states of India \[electronic resource\].](#)  
2017-0920  
NAL Article Citation Database

95  [AccuClaim videorecording : meal counts count / produced by Video and Teleconference Division, USDA.](#)  
1989  
NAL Cataloging Database  
Videocassette no.1256  
multiple items available, Audiovisuals

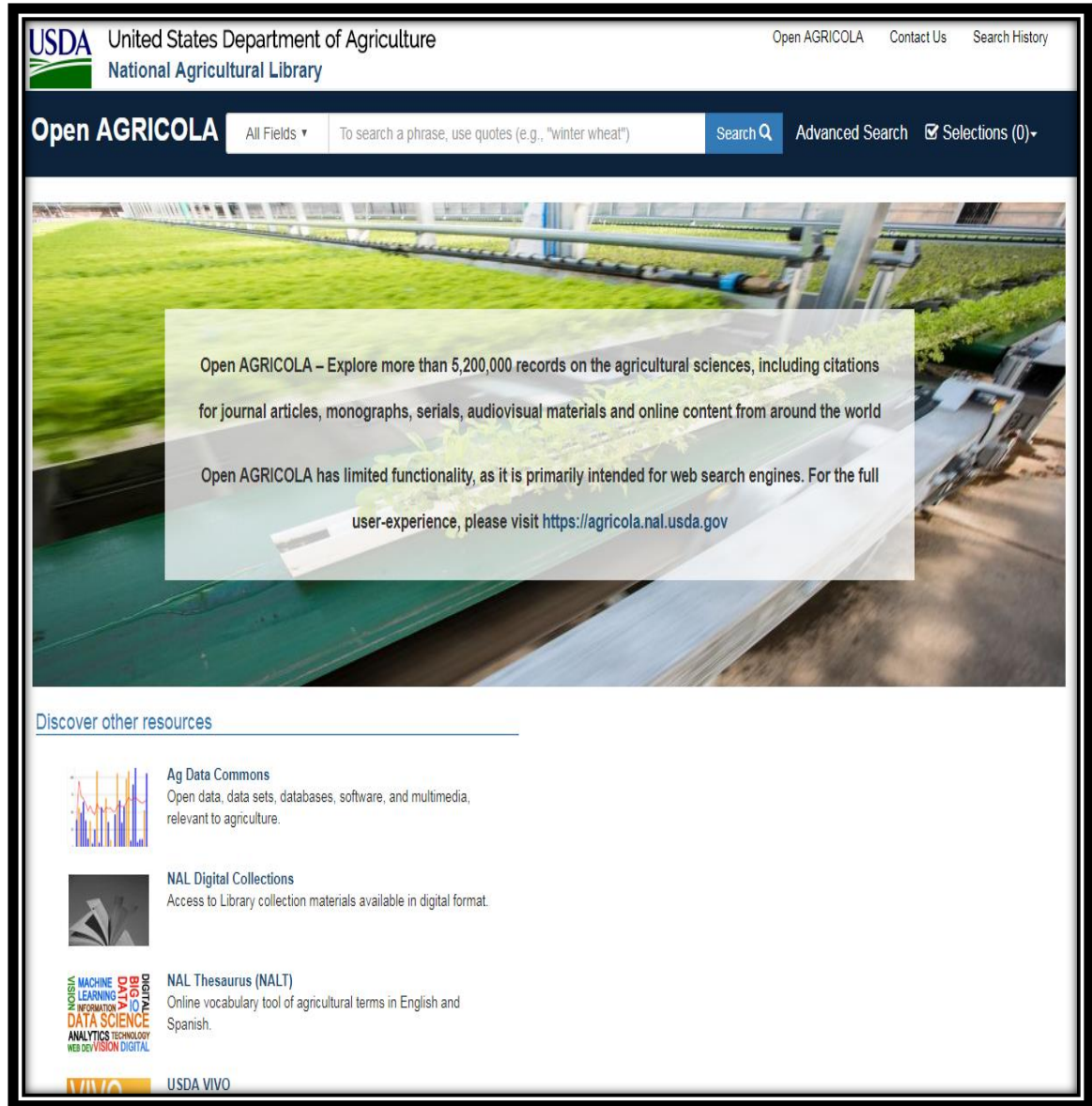
96  [Accumulation and health risk assessment of trace elements in Carassius auratus gibelio from subsidence pools in the Huainan coalfield in China \[electronic resource\].](#)  
2017-09  
NAL Article Citation Database



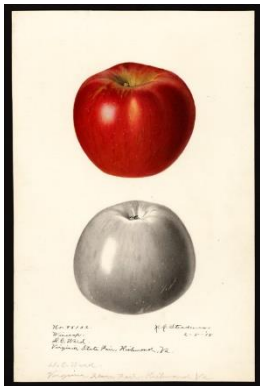


❖ Primarily intended for web search engines.

❖ Links users to full AGRICOLA



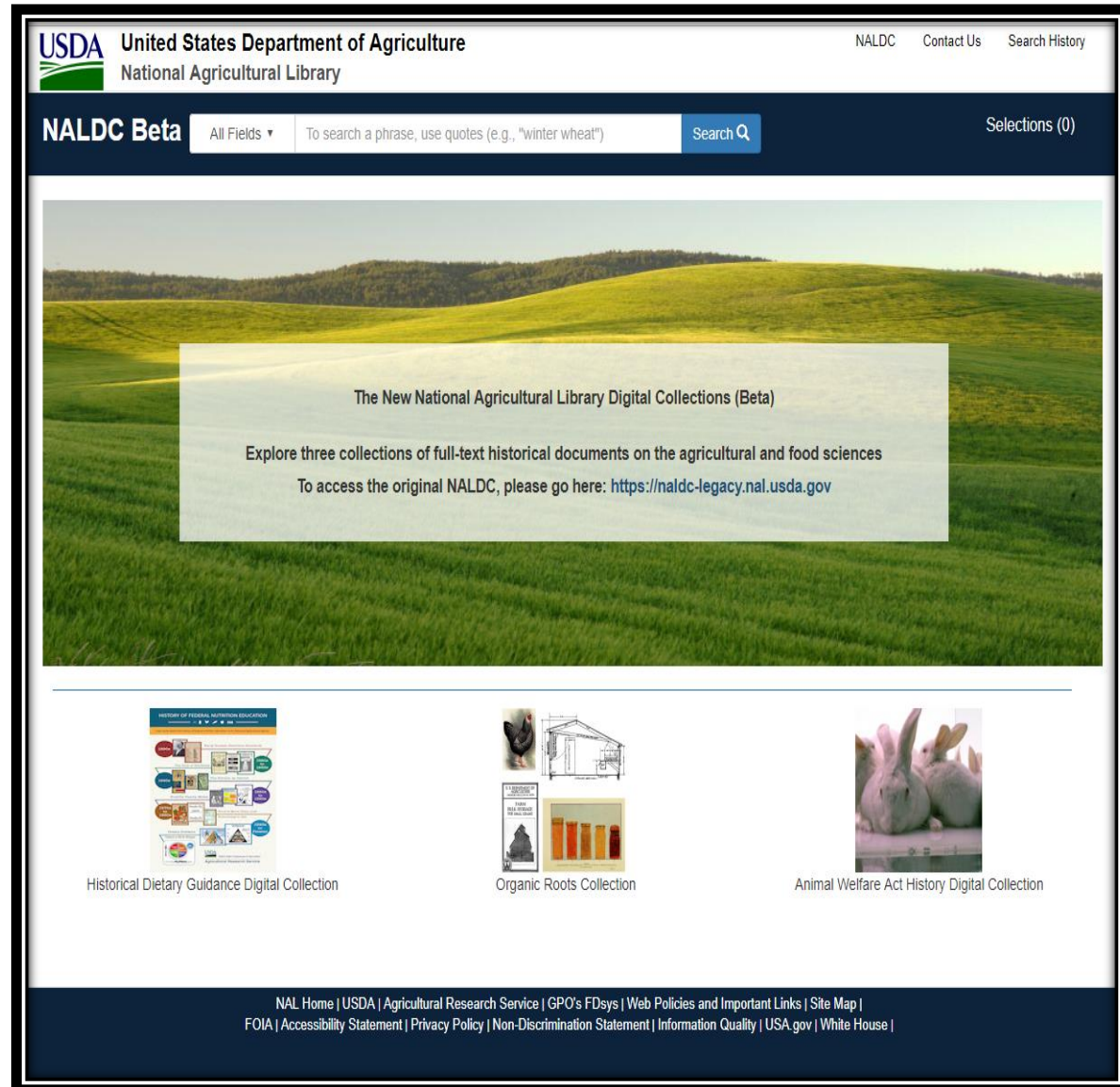
The screenshot shows the Open AGRICOLA website. At the top, the USDA logo and "United States Department of Agriculture National Agricultural Library" are displayed. Navigation links for "Open AGRICOLA", "Contact Us", and "Search History" are in the top right. A search bar is prominent, with "Open AGRICOLA" on the left, "All Fields" and a search prompt "To search a phrase, use quotes (e.g., 'winter wheat')" in the middle, and a "Search Q" button on the right. Below the search bar, there are links for "Advanced Search" and "Selections (0)". The main content area features a large background image of a greenhouse with rows of green plants. A semi-transparent text box in the center reads: "Open AGRICOLA – Explore more than 5,200,000 records on the agricultural sciences, including citations for journal articles, monographs, serials, audiovisual materials and online content from around the world. Open AGRICOLA has limited functionality, as it is primarily intended for web search engines. For the full user-experience, please visit <https://agricola.nal.usda.gov>". Below this, a section titled "Discover other resources" lists several options: "Ag Data Commons" (Open data, data sets, databases, software, and multimedia, relevant to agriculture), "NAL Digital Collections" (Access to Library collection materials available in digital format), "NAL Thesaurus (NALT)" (Online vocabulary tool of agricultural terms in English and Spanish), and "USDA VIVO". A vertical sidebar on the left contains various digital agriculture icons like "MACHINE LEARNING", "BIG DATA", "DIGITAL NAL", "DATA SCIENCE", "ANALYTICS", "TECHNOLOGY", "WEB DEV", "VISION", and "DIGITAL".



<https://usdawatercolors.nal.usda.gov/download/POM00004233/screen>

❖ Migrating to new interface

❖ New features

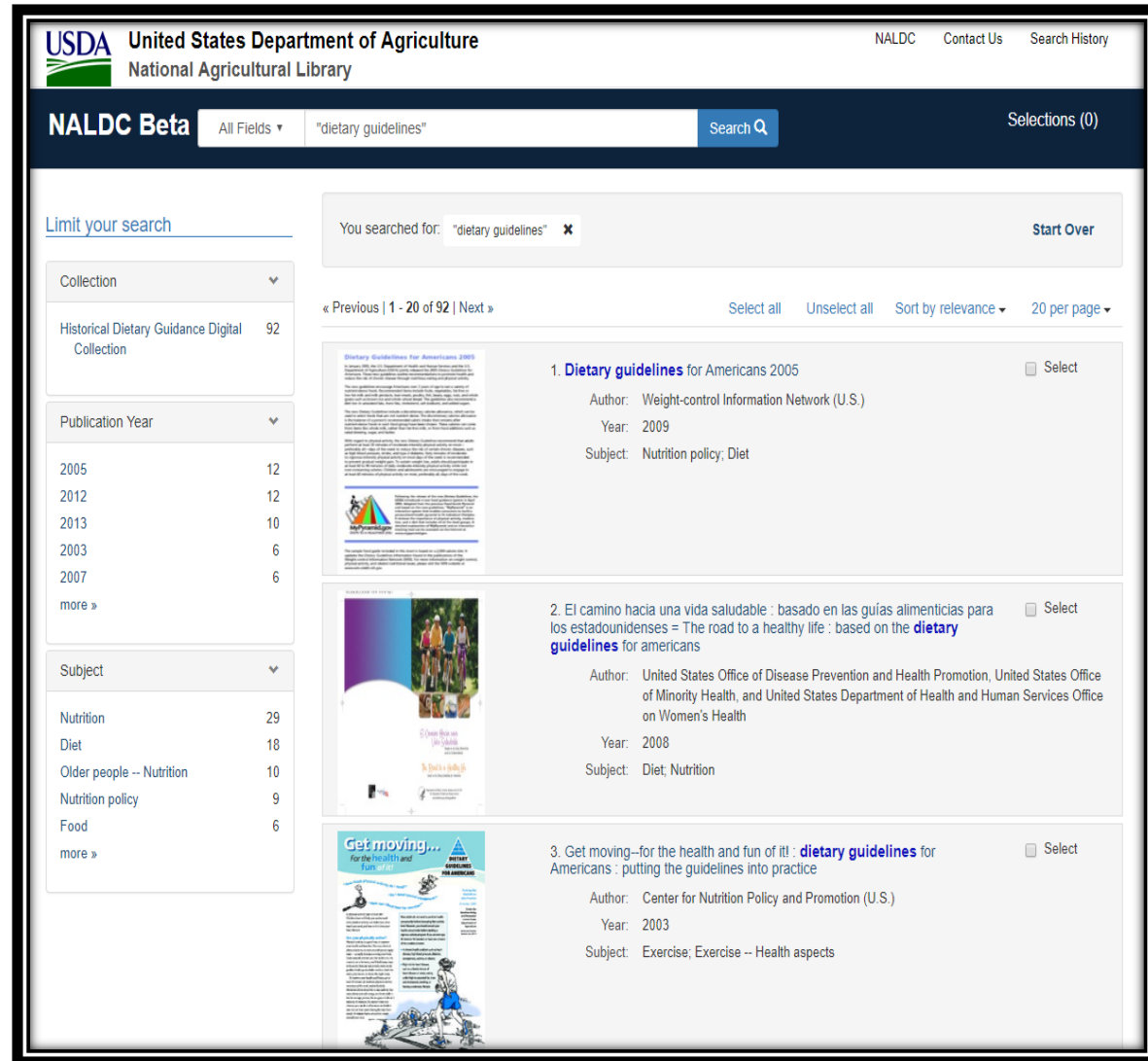




❖ Search enhancing facets

❖ Thumbnails of items retrieved

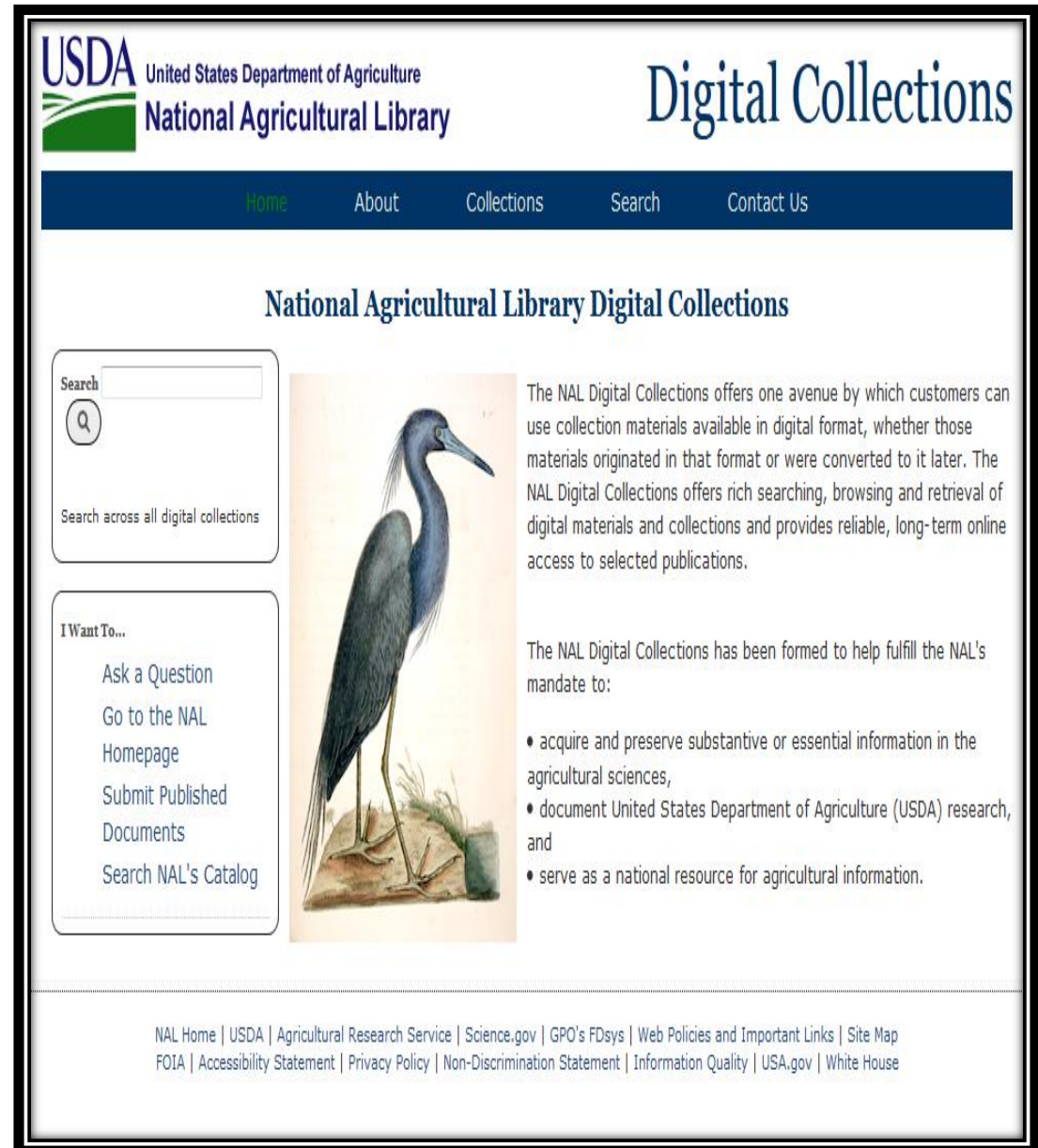
❖ Highlighted search terms



The screenshot shows the NALDC Beta search interface. At the top, the USDA logo and 'United States Department of Agriculture National Agricultural Library' are displayed. The search bar contains 'dietary guidelines' and shows 'Search Q' and 'Selections (0)'. Below the search bar, there are filters for 'Collection' (Historical Dietary Guidance Digital Collection, 92 items) and 'Publication Year' (2005: 12, 2012: 12, 2013: 10, 2003: 6, 2007: 6, more »). The 'Subject' filter shows 'Nutrition' (29), 'Diet' (18), 'Older people -- Nutrition' (10), 'Nutrition policy' (9), and 'Food' (6). The search results list three items:

- 1. Dietary guidelines for Americans 2005** (Select)  
Author: Weight-control Information Network (U.S.)  
Year: 2009  
Subject: Nutrition policy; Diet
- 2. El camino hacia una vida saludable : basado en las guías alimenticias para los estadounidenses = The road to a healthy life : based on the dietary guidelines for americans** (Select)  
Author: United States Office of Disease Prevention and Health Promotion, United States Office of Minority Health, and United States Department of Health and Human Services Office on Women's Health  
Year: 2008  
Subject: Diet; Nutrition
- 3. Get moving--for the health and fun of it : dietary guidelines for Americans : putting the guidelines into practice** (Select)  
Author: Center for Nutrition Policy and Promotion (U.S.)  
Year: 2003  
Subject: Exercise; Exercise -- Health aspects

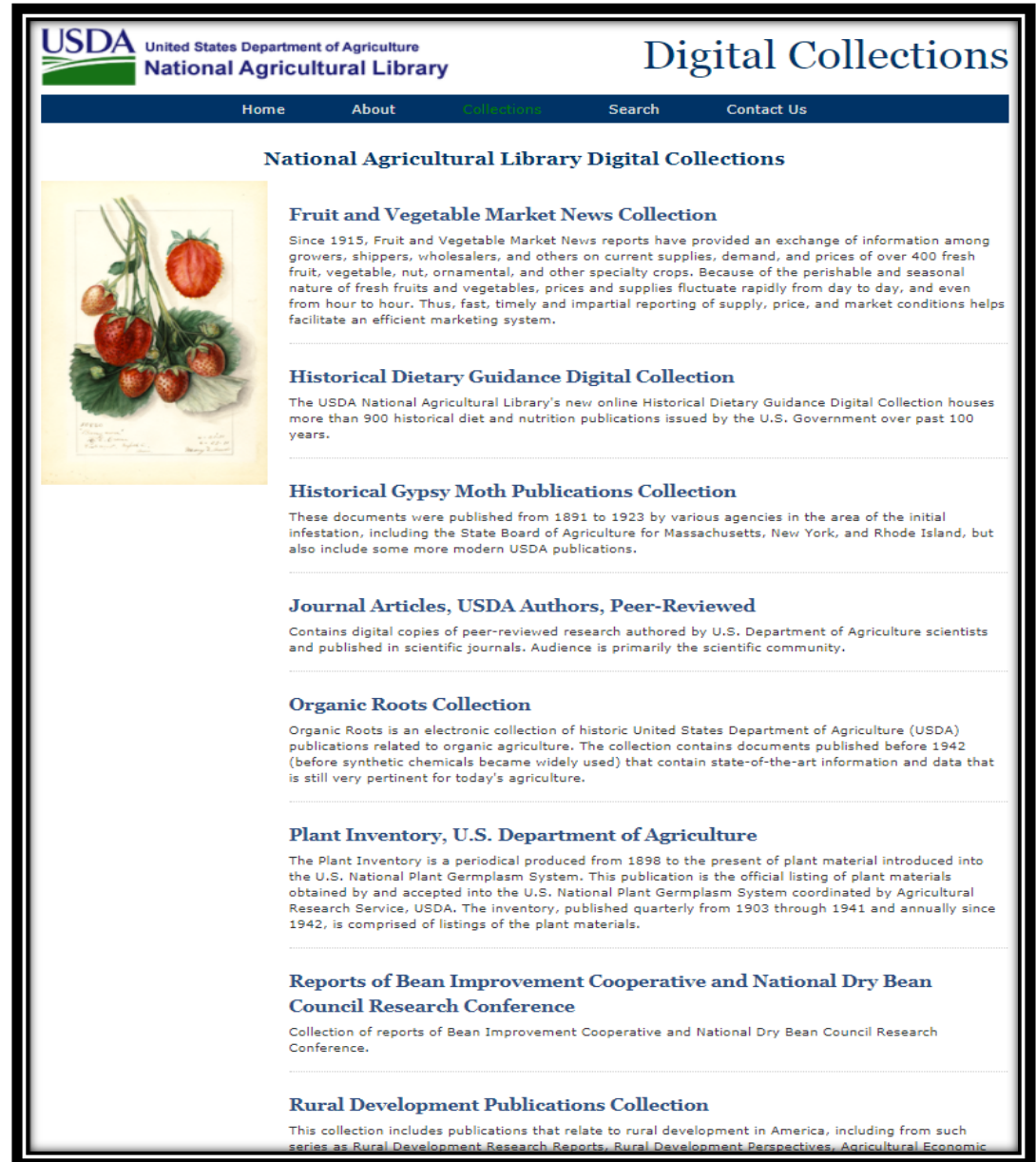
- ❖ Provides access to unique, historical information in digital format
- ❖ Offers rich searching, browsing and retrieval of digital materials and collections
- ❖ Provides reliable, long-term online access to selected publications



The screenshot shows the website interface for the National Agricultural Library Digital Collections. At the top left is the USDA logo with the text "United States Department of Agriculture National Agricultural Library". To the right is the title "Digital Collections". Below this is a dark blue navigation bar with links for "Home", "About", "Collections", "Search", and "Contact Us". The main content area features a search box with a magnifying glass icon and the text "Search across all digital collections". Below the search box is a section titled "I Want To..." with links for "Ask a Question", "Go to the NAL Homepage", "Submit Published Documents", and "Search NAL's Catalog". To the right of these links is a detailed illustration of a blue heron standing on a small patch of ground with some reeds. Further right is a text block explaining the purpose of the digital collections and listing three key mandates: to acquire and preserve substantive or essential information in the agricultural sciences, to document USDA research, and to serve as a national resource for agricultural information. At the bottom of the page is a footer with a list of links including "NAL Home", "USDA", "Agricultural Research Service", "Science.gov", "GPO's FDsys", "Web Policies and Important Links", "Site Map", "FOIA", "Accessibility Statement", "Privacy Policy", "Non-Discrimination Statement", "Information Quality", "USA.gov", and "White House".

❖ Digital collections documenting historical USDA research.

❖ Many materials not available anywhere else in the world.



**USDA** United States Department of Agriculture  
**National Agricultural Library**

Home About **Collections** Search Contact Us

## Digital Collections

### National Agricultural Library Digital Collections

**Fruit and Vegetable Market News Collection**  
Since 1915, Fruit and Vegetable Market News reports have provided an exchange of information among growers, shippers, wholesalers, and others on current supplies, demand, and prices of over 400 fresh fruit, vegetable, nut, ornamental, and other specialty crops. Because of the perishable and seasonal nature of fresh fruits and vegetables, prices and supplies fluctuate rapidly from day to day, and even from hour to hour. Thus, fast, timely and impartial reporting of supply, price, and market conditions helps facilitate an efficient marketing system.

**Historical Dietary Guidance Digital Collection**  
The USDA National Agricultural Library's new online Historical Dietary Guidance Digital Collection houses more than 900 historical diet and nutrition publications issued by the U.S. Government over past 100 years.

**Historical Gypsy Moth Publications Collection**  
These documents were published from 1891 to 1923 by various agencies in the area of the initial infestation, including the State Board of Agriculture for Massachusetts, New York, and Rhode Island, but also include some more modern USDA publications.

**Journal Articles, USDA Authors, Peer-Reviewed**  
Contains digital copies of peer-reviewed research authored by U.S. Department of Agriculture scientists and published in scientific journals. Audience is primarily the scientific community.

**Organic Roots Collection**  
Organic Roots is an electronic collection of historic United States Department of Agriculture (USDA) publications related to organic agriculture. The collection contains documents published before 1942 (before synthetic chemicals became widely used) that contain state-of-the-art information and data that is still very pertinent for today's agriculture.

**Plant Inventory, U.S. Department of Agriculture**  
The Plant Inventory is a periodical produced from 1898 to the present of plant material introduced into the U.S. National Plant Germplasm System. This publication is the official listing of plant materials obtained by and accepted into the U.S. National Plant Germplasm System coordinated by Agricultural Research Service, USDA. The inventory, published quarterly from 1903 through 1941 and annually since 1942, is comprised of listings of the plant materials.

**Reports of Bean Improvement Cooperative and National Dry Bean Council Research Conference**  
Collection of reports of Bean Improvement Cooperative and National Dry Bean Council Research Conference.

**Rural Development Publications Collection**  
This collection includes publications that relate to rural development in America, including from such series as Rural Development Research Reports, Rural Development Perspectives, Agricultural Economic

[Home](#)[About](#)[Search](#)[Contact Us](#)

### U.S. Department of Agriculture (USDA) Pomological Watercolor Collection

Search



Search USDA Watercolor Collection

I Want To...

[Ask a Question](#)[Go to the NAL  
Homepage](#)[Search NAL's Catalog](#)

The USDA Pomological Watercolor Collection documents fruit and nut varieties developed by growers or introduced by USDA plant explorers around the turn of the 20th century. Technically accurate paintings were used to create lithographs illustrating USDA bulletins, yearbooks, and other series distributed to growers and gardeners across America.

#### Fast Facts:

- Time period: 1886 to 1942, with the majority created between 1894 and 1916.
- Content: **7,584 watercolor paintings**, lithographs and line drawings, including **3,807 images of apples**.
- Fruit origins: The plant specimens illustrated originated in 29 countries and 51 states and territories in the U.S.
- Artists: The paintings were created by approximately twenty-one artists commissioned by USDA for this purpose. Some works are not signed.



❖ The NAL Thesaurus and Glossary are online vocabulary tools of agricultural terms in English and Spanish.

❖ Primarily used to enhance the retrieval of agricultural information.

❖ The classification language of the AGRICOLA article index.



The screenshot shows the homepage of the National Agricultural Library's Agricultural Thesaurus and Glossary. The page features a header with the USDA logo and the Inter-American Institute for Cooperation on Agriculture (IICA) logo. Below the header is a navigation bar with links for Home, About Thesaurus and Glossary, Download Files, Help, Contact Us, and En Español. The main content area is divided into three columns. The left column contains a navigation menu for the Thesaurus and Glossary, with options to search or browse by A-Z and subject category. The middle column contains the main heading 'Thesaurus and Glossary Home' and a paragraph stating that the tools are now available as Linked Open Data. Below this is a list of bullet points detailing the tools' features, such as annual updates, bilingual versions, and availability as Linked Open Data. The right column contains a 'I Want To...' section with links to search the Thesaurus in Spanish, download the Thesaurus file, search the NAL Catalog (AGRICOLA), and search the NAL PubAg. Below this is the AgNIC Agriculture Network Information Center logo and a 'See Also' section with links to the IRRI Rice Thesaurus, SIDALC - Agricultural Information and Documentation Service of the Americas, and the Orton Memorial Library.

USDA United States Department of Agriculture  
National Agricultural Library

Inter-American Institute for Cooperation on Agriculture IICA

tesauro thesaurus glossario

Home About Thesaurus and Glossary Download Files Help Contact Us En Español

You are here: Home

### Thesaurus and Glossary Home

The National Agricultural Library's Agricultural Thesaurus is now available as Linked Open Data.

The **Thesaurus and Glossary** are online vocabulary tools of agricultural terms in English and Spanish and are cooperatively produced by the National Agricultural Library, [USDA](#), and the Inter-American Institute for Cooperation on Agriculture as well as other Latin American agricultural institutions belonging to the Agriculture Information and Documentation Service of the Americas (SIDALC).

- Annual update each January since 2002
- Spanish/English parallel bilingual versions
- Available as [Linked Open Data](#)
  - Download NALT to LCSH mapping
  - Download NALT to GACS mapping
- In depth coverage of agriculture, biology and related disciplines
- Contains over 135,000 terms, including 63,007 cross references
- Glossary of definitions for technical terms
- Regional terms of Latin American Countries
- Download in XML, RDF-SKOS, PDF, MARC and DOC formats
- 24/7 accessibility since 2002
- Browsable by 17 subject categories, e.g., "Food and Human Nutrition"

I Want To...

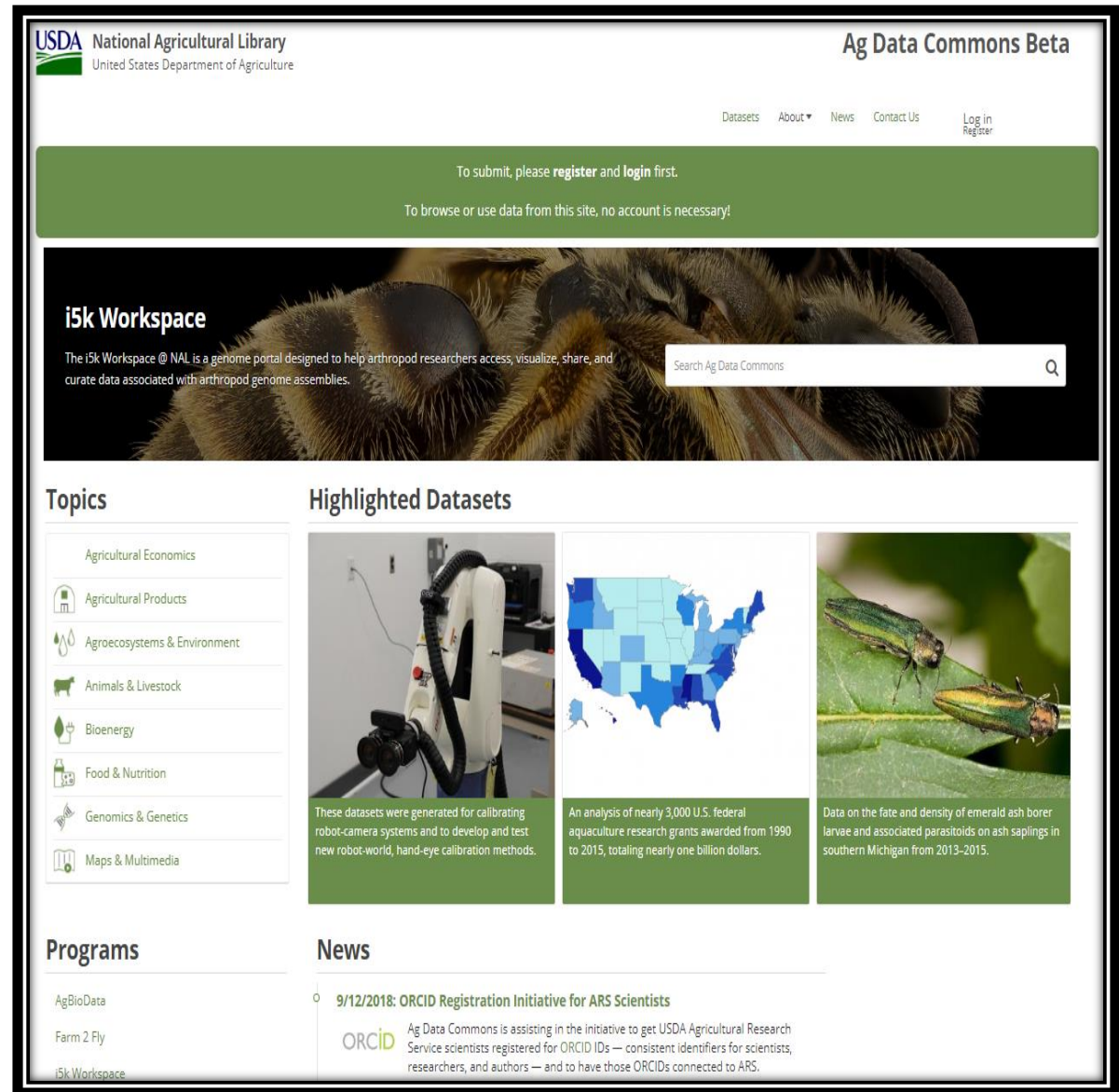
- [Search the Thesaurus in Spanish | En Español](#)
- [Download Thesaurus File](#)
- [Search the NAL Catalog \(AGRICOLA\)](#)
- [Search the NAL PubAg](#)

AgNIC Agriculture Network Information Center

See Also

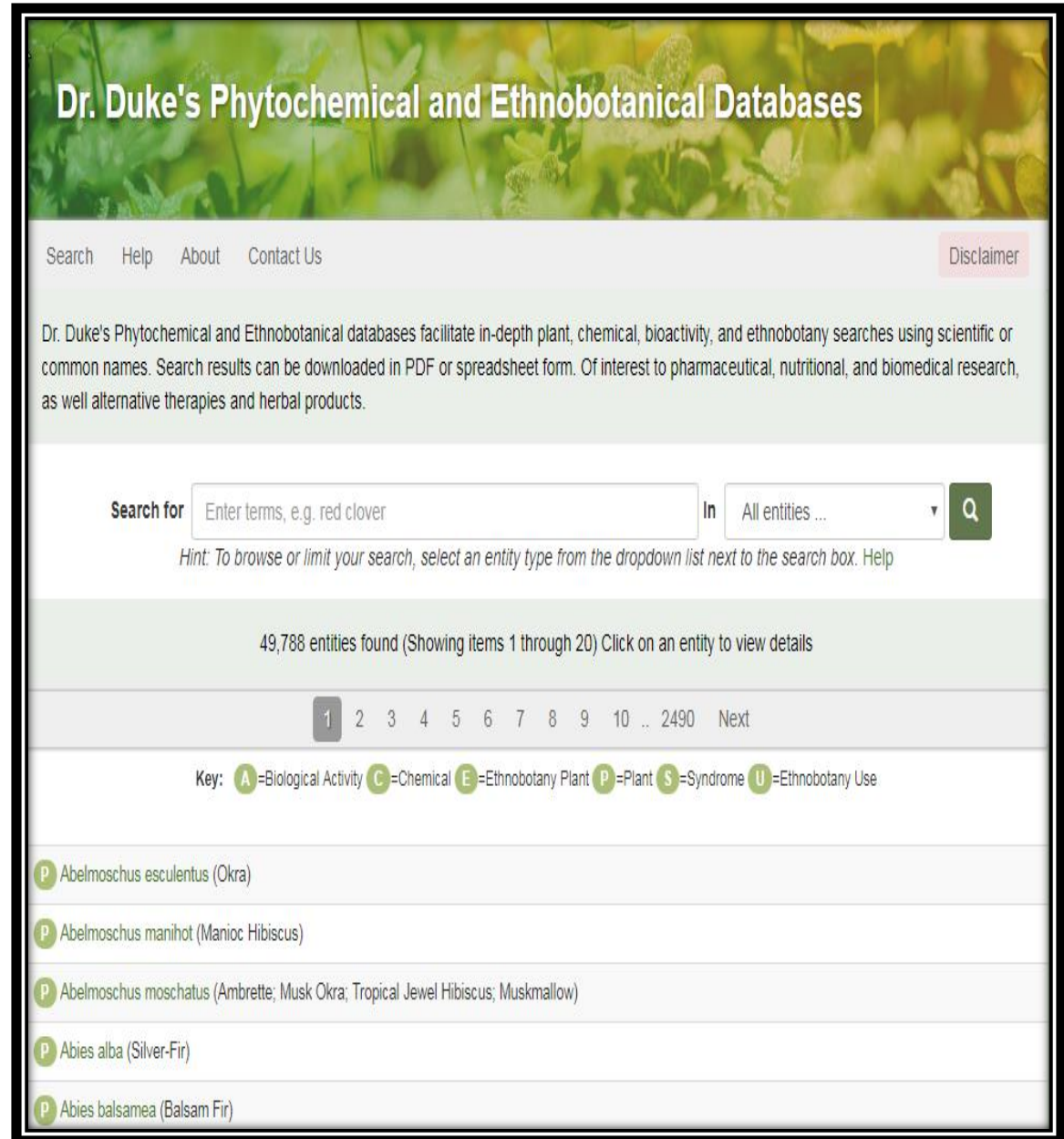
- [IRRI Rice Thesaurus](#)
- [SIDALC - Agricultural Information and Documentation Service of the Americas](#)
- [Orton Memorial Library](#)

- ❖ A centralized registry for data generated by the USDA and university researchers with USDA funding support.
- ❖ Over 1,800 datasets
- ❖ Fosters innovative data re-use, integration, and visualization to support bigger, better science and policy.



The screenshot displays the Ag Data Commons website. At the top left is the USDA National Agricultural Library logo, and at the top right is the 'Ag Data Commons Beta' title. A navigation menu includes 'Datasets', 'About', 'News', 'Contact Us', and 'Log in Register'. A green banner below the navigation contains the text: 'To submit, please register and login first. To browse or use data from this site, no account is necessary!'. The main content area features a large image of a bee with the heading 'i5k Workspace' and a search bar. Below this are sections for 'Topics' (listing categories like Agricultural Economics, Agricultural Products, etc.), 'Highlighted Datasets' (with three featured items: robot-camera systems, federal aquaculture grants, and emerald ash borer data), 'Programs' (listing AgBioData, Farm 2 Fly, and i5k Workspace), and 'News' (with a recent article about ORCID registration for ARS scientists).

- ❖ Dr. Duke's Phytochemical and Ethnobotanical databases use scientific or common names to provide in-depth plant, chemical, bioactivity, and ethnobotanical search results.
- ❖ Useful for pharmaceutical, nutritional, and biomedical research, as well alternative therapies and herbal products.



**Dr. Duke's Phytochemical and Ethnobotanical Databases**

Search Help About Contact Us Disclaimer

Dr. Duke's Phytochemical and Ethnobotanical databases facilitate in-depth plant, chemical, bioactivity, and ethnobotany searches using scientific or common names. Search results can be downloaded in PDF or spreadsheet form. Of interest to pharmaceutical, nutritional, and biomedical research, as well alternative therapies and herbal products.

Search for  in

*Hint: To browse or limit your search, select an entity type from the dropdown list next to the search box. Help*

49,788 entities found (Showing items 1 through 20) Click on an entity to view details

1 2 3 4 5 6 7 8 9 10 .. 2490 Next

Key: **A**=Biological Activity **C**=Chemical **E**=Ethnobotany Plant **P**=Plant **S**=Syndrome **U**=Ethnobotany Use

- P** [Abelmoschus esculentus \(Okra\)](#)
- P** [Abelmoschus manihot \(Manioc Hibiscus\)](#)
- P** [Abelmoschus moschatus \(Ambrette; Musk Okra; Tropical Jewel Hibiscus; Muskmallow\)](#)
- P** [Abies alba \(Silver-Fir\)](#)
- P** [Abies balsamea \(Balsam Fir\)](#)



## Agricultural Law Information

**Partnership** supports the dissemination of agricultural and food law information to consumers, researchers and legal professionals.



## Alternative Farming Systems (AFSIC)

specializes in identifying resources about sustainable food systems and practices in support of USDA's effort to ensure a sustainable future for agriculture and farmers worldwide.



**Animal Welfare (AWIC)** is mandated by the Animal Welfare Act (AWA) to provide information for improved animal care and use in research, testing, and teaching.



## National Invasive Species (NISIC):

Gateway to invasive species information; covering Federal, State, local, and international sources.





# Information Centers



**Rural (RIC)** provides services for rural communities, local officials, organizations, businesses and rural citizens working to maintain the vitality of America's rural areas.



**Rural Environmental Justice Resource Collection**

This collection of resources provides links to community tools, funding opportunities, educational/training assistance, and case studies to support rural communities.

⏪ ⏩ 2 / 3

**Food and Nutrition (FNIC)** provides credible, accurate, and practical resources for nutrition and health professionals, educators, government personnel and consumers.



**Interactive Dietary Reference Intakes Calculator for Healthcare Professionals**

This web-based tool calculates daily nutrient recommendations based on the DRIs.

⏪ ⏩ 2 / 5

**Food Safety Research (FSRIO)** supports the research community by collecting, organizing & disseminating food safety information in accordance with H R 2534 Agricultural Research, Extension and Education Reauthorization Act of 1997, SEC 615.



**Research Projects Database**

The Research Projects Database provides users with information on current food safety research projects from both U.S. and international government and non-government organizations.

⏪ ⏩ 1 / 3

**Water and Agriculture (W&A)** collects, organizes, and communicates the scientific findings, educational methodologies, and public policy issues related to water resources and agriculture.



**Conservation Effects Assessment Project (CEAP) and Related Publications**

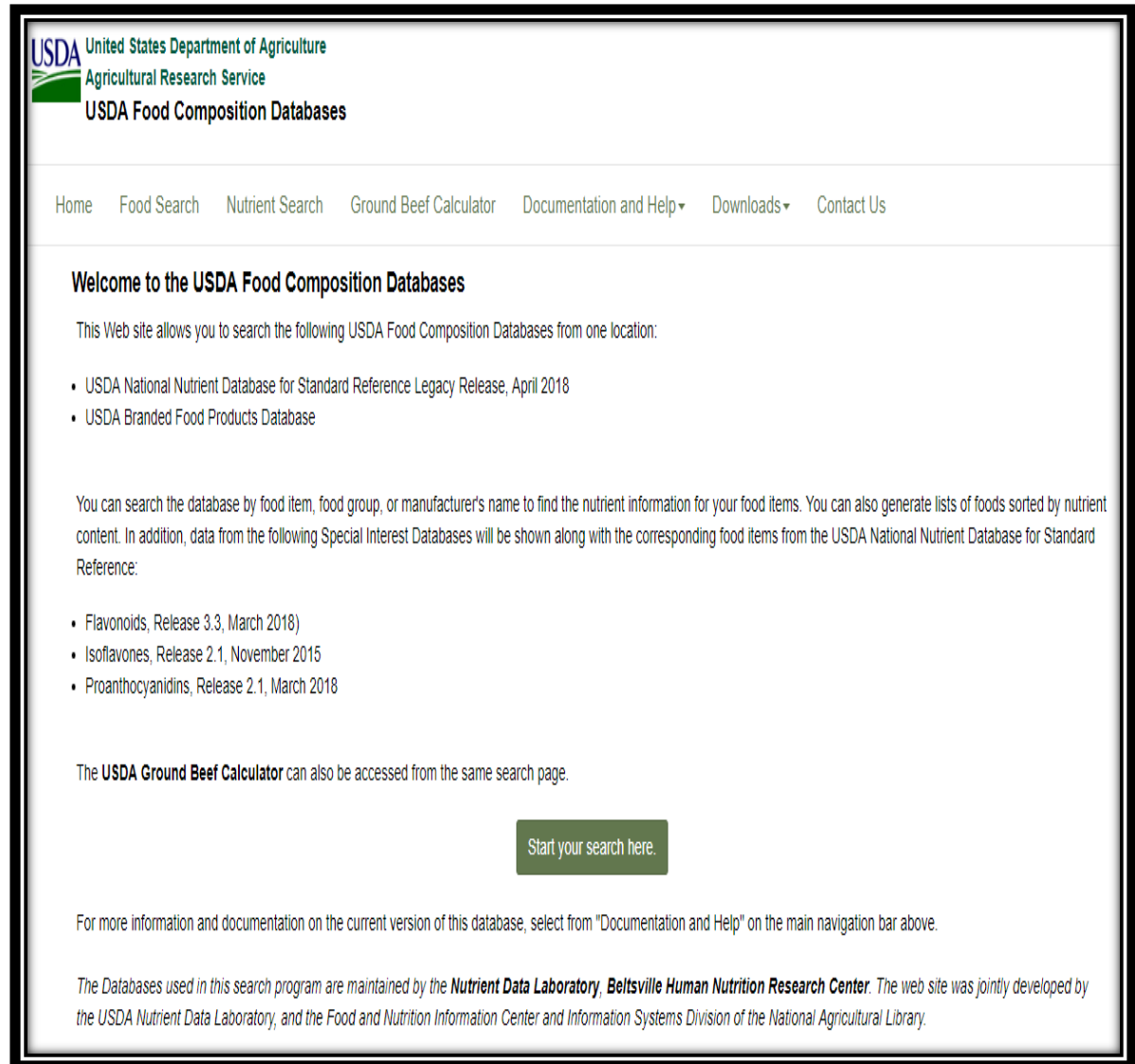
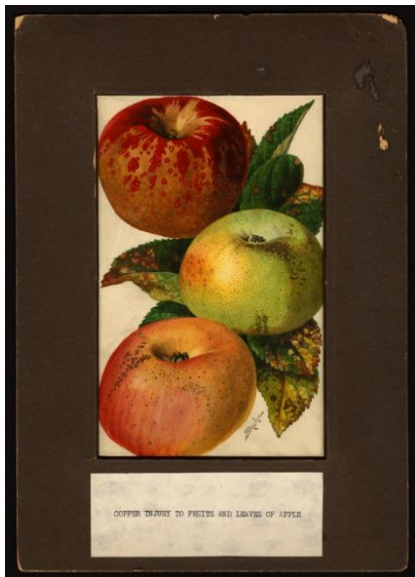
A multi-agency effort to evaluate the environmental effects of conservation.

⏪ ⏩ 4 / 4

❖ More than 247,000 foods searchable.

❖ Search by

- ❖ Nutrient(s)
- ❖ Food group



USDA United States Department of Agriculture  
Agricultural Research Service  
USDA Food Composition Databases

Home Food Search Nutrient Search Ground Beef Calculator Documentation and Help Downloads Contact Us

### Welcome to the USDA Food Composition Databases

This Web site allows you to search the following USDA Food Composition Databases from one location:

- USDA National Nutrient Database for Standard Reference Legacy Release, April 2018
- USDA Branded Food Products Database

You can search the database by food item, food group, or manufacturer's name to find the nutrient information for your food items. You can also generate lists of foods sorted by nutrient content. In addition, data from the following Special Interest Databases will be shown along with the corresponding food items from the USDA National Nutrient Database for Standard Reference:

- Flavonoids, Release 3.3, March 2018)
- Isoflavones, Release 2.1, November 2015
- Proanthocyanidins, Release 2.1, March 2018

The **USDA Ground Beef Calculator** can also be accessed from the same search page.

[Start your search here.](#)

For more information and documentation on the current version of this database, select from "Documentation and Help" on the main navigation bar above.

*The Databases used in this search program are maintained by the **Nutrient Data Laboratory, Beltsville Human Nutrition Research Center**. The web site was jointly developed by the USDA Nutrient Data Laboratory, and the Food and Nutrition Information Center and Information Systems Division of the National Agricultural Library.*



Enter one or more keywords:  x
 Filter on Database: 
 Limit to Manufacturer:

Q Advanced search

3,650 foods found [Click on a food name to view details](#)

1 2 3 4 5 6 7 8 9 10 .. 146 Next

DB	NDB Id	Food Description	Food Group or Manufacturer
SR	09040	Bananas, raw	Fruits and Fruit Juices
SR	11976	Pepper, banana, raw	Vegetables and Vegetable Products
BF	45095718	STIRS THE SOUL, BANANAS + CURRANTS COVERED IN RAW CHOCOLATE, BANANA, CURRANT, UPC: 837654001981	Boodge Company
SR	09041	Bananas, dehydrated, or banana powder	Fruits and Fruit Juices
BF	45163314	GO RAW, SPROUTED BAR, BANANA BREAD, UPC: 859888000066	FREELAND FOODS
BF	45205972	ORGANIC GEMINI, TIGERNUT RAW GRANOLA, BANANA CACAO, UPC: 854437005370	HMO BEVERAGE CORPORATION
BF	45011447	MARGIE'S, BANANA SYRUP, BANANA, UPC: 716418957361	MARGIE'S BRANDS, INC.
SR	19400	Snacks, banana chips	Snacks
SR	35132	Melon, banana (Navajo)	American Indian/Alaska Native Foods
BF	45137315	CHUBBY, GO BANANAS SODA, BANANA, UPC: 033613021155	S. M. Jaleel & Co. Ltd.
BF	45100394	TRADER JOE'S, DRIED FRUIT BANANA CHIPS, BANANA, UPC: 00952484	none
BF	45340997	LOVELY CANDY CO., BANANAS FOSTER CARAMELS, BANANA, UPC: 859842004383	The Lovely Candy Company, LLC
SR	03167	Babyfood, apple-banana juice	Baby Foods
SR	03176	Babyfood, juice, orange and banana	Baby Foods



**Full Report (All Nutrients): 45187261, NUD, SPIRULINA BANANA CRISPS, UPC: 628055033202**

Powered by Label Insight

[◀ Return to Search Results](#)  
 [📄 Download \(CSV\)](#)  
 [🖨️ Print \(PDF\)](#)

Manufacturer **Nud Fud Incorporated** 🔍

Information provided by food manufacturers is label data. Manufacturers are responsible for descriptions, nutrient data and ingredient information. USDA calculated values per 100 g from values per serving.

Search nutrient table:

Nutrient	Unit	0.5	1
		PACKAGE 33 g	Value per 100 g
<b>Proximates</b>			
Energy	kcal	135	409
Protein	g	3.00	9.09
Total lipid (fat)	g	8.00	24.24
Carbohydrate, by difference	g	15.00	45.45
Fiber, total dietary	g	4.0	12.1
Sugars, total	g	7.00	21.21
<b>Minerals</b>			
Calcium, Ca	mg	100	303
Iron, Fe	mg	2.70	8.18

Showing 13 nutrients

**Ingredients:** ORGANIC FRESH BANANA, ORGANIC SESAME SEED, ORGANIC COCONUT, ORGANIC SPIRULINA. *Date Available:* 01/20/2018 *Date Last Updated by Company:* 01/20/2018





### Search All Collections

- [Search all USDA](#)
- [Advanced Search](#)
- [Search Tips](#)

### Browse by Format

- [Manuscript Collections](#)
- [Rare Book Collection](#)
- [Image Galleries](#)
- [Exhibits](#)

### More Information

- [Visit Us](#)
- [Duplication Services](#)
- [Copyright and Citation Guide](#)

## Home

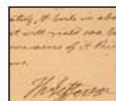


Special Collections houses rare books, manuscript collections, nursery and seed trade catalogs, photographs, and posters from the 1500s to the present. Materials cover a variety of agricultural subjects including horticulture, entomology, poultry sciences, natural history, and are not limited to domestic publications. As part of the United States Department of Agriculture (USDA) and the Agricultural Research Service (ARS), Special Collections at the National Agricultural Library is charged with arranging, describing, preserving and making available rare materials significant to the history of agriculture and the USDA.

- [Visit Special Collections](#)
- [Frequently Asked Questions \(FAQs\)](#)

## Spotlights



### [Index to the Manuscript Collections](#)



### [Articles About Special Collections](#)



### [USDA Pomological Watercolor Collection](#)



### [Edward Fred Knipping Papers: Screwworm Eradication Program Records](#)



### [National Agricultural Library Botany Collections](#)



### [Charles Valentine Riley Collection](#)

**USDA** United States Department of Agriculture  
National Agricultural Library  
[National Agricultural Library](#) > [Special Collections](#) > Exhibits

[Ask a Question](#) | [Contact Us](#) | [Visit the Library](#)

[Special Collections Exhibits](#)


Search all items.

[Special Collections Home](#) | [Browse Exhibits](#) | [Browse Items](#) | [Disclaimer](#) | [Using Special Collections](#) | [External Resources](#)

## IMAGE GALLERIES


[Browse All](#) | [Image Galleries](#) | [Special Exhibits](#)

### [Historic Poster Collections](#)




The Poster Collection depicts such areas as the development of the poultry industry, insect control, plant protection, and the role of agriculture in World War I. From increased production to seed selection to the conservation of farm products through careful storage, canning, drying, and preserving, these historic posters present unique documentation on past efforts to disseminate agricultural information at national, state, and local levels. For more from the Poster Collection, visit our collection at the Internet Archive.

### [Manuscript Collections](#)




A manuscript collection is loosely defined as a group of materials that are assembled together because of some historical or literary significance. These images reflect the broad range of materials in Special Collections' Manuscript Collections. Each image is a digital reproduction of the original artwork or written text.

### [Nursery and Seed Trade Catalogs](#)



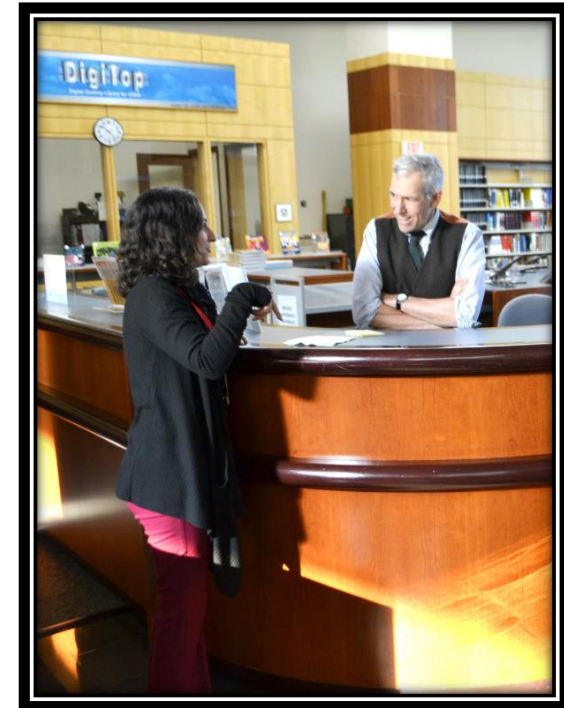
The following are digitized covers from Special Collections' Henry G. Gilbert Nursery and Seed Catalog Collection. The collection consists of over 200,000 American and foreign catalogs. The earliest catalogs date from the late 1700s, but the collection is strongest from the 1890s to the present. Each image is a digital reproduction of the original artwork. Click on each image below to view a larger image of that seed catalog cover. For more Nursery and Seed Trade Catalogs, visit our collection at the Internet Archive.

### [Rare Books](#)



The following are digitized images or plates from Special Collections' Rare Book Collection. This collection is strong in a number of agricultural sciences and includes works by many great herbalists, as well as renowned works on flowers and fruits from both the 18th and 19th centuries. Each image is a digital reproduction of the original artwork or written text.

- ❖ Assistance searching NAL databases and resources
- ❖ Answer traditional reference questions
- ❖ Training for NAL resources and services
  - ❖ On-site
  - ❖ Online via webinar



- ❖ Contact points:
  - ❖ <https://www.nal.usda.gov/ask-question>
  - ❖ Phone: (301) 504-5755
  - ❖ In person: 10301 Baltimore Avenue, Beltsville, MD

# Borrowing Materials

## ❖ ILL Requests

- ❖ OCLC
- ❖ DOCLINE

## ❖ Institutional Relationship

- ❖ Register for NAL Patron ID
- ❖ U.S. Federal Agencies
- ❖ HBCUs
- ❖ Land Grant Tribal Colleges
- ❖ CIRLA
- ❖ AGLINET

United States Department of Agriculture  
 National Agricultural Library

[Ask A Question](#) | [Contact Us](#) | [Visit the Library](#)

🕒 Today's hours: 08:30 AM - 04:30 PM

Topics
Publications
Collections
Data
Services
About

**National Agricultural Library**
Search NAL

Home » Services » Borrow Materials

[Ask a Question](#)

[Borrow Materials](#)

[DigiTop](#)

[Information Centers](#)

[NAL Thesaurus](#)

## Borrow Materials

### How to Request Items

If you are a:	Request <b>NAL</b> items by:
member of the general public	contacting your local library
library, association or organization representative	Option 1: submitting an interlibrary loan request through <ul style="list-style-type: none"> <li><a href="#">OCLC®</a> (NAL's symbol: AGL) or</li> <li><a href="#">DOCLINE®</a> (NAL's library ID: MDUNAL)</li> </ul> Option 2: <a href="#">registering for a patron ID</a> and then using that patron ID to request items <ul style="list-style-type: none"> <li>through the <a href="#">NAL Catalog</a>, or</li> <li>using the <a href="#">institution blank request form</a></li> </ul>
<u>USDA</u> employee	<a href="#">registering for a patron ID</a> and then using that patron ID to request items: <ul style="list-style-type: none"> <li>through the <a href="#">NAL Catalog</a></li> <li>through <a href="#">selected DigiTop databases</a> or</li> <li>using the <a href="#">individual blank request form</a></li> </ul>

### Fees for Requesting Items

If you are a:	Fees:	
member of the general public	determined by your local library	
library, association, organization or federal agency representative	if invoiced	\$25
	if paid through OCLC's Interlibrary Loan Fee Management Service (IFM)	\$18
	if a member of an <a href="#">exempted group</a>	\$0



# Borrowing Materials

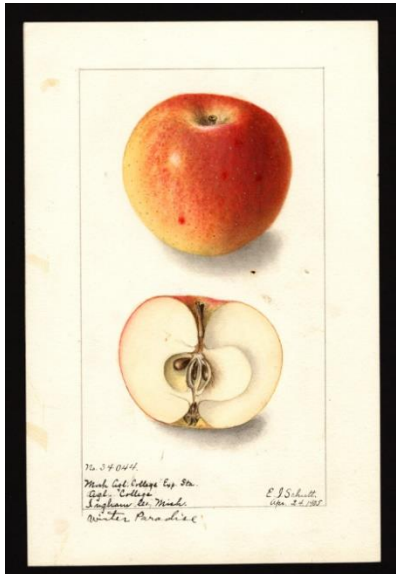
## ❖ Institutional Relationships Exempted Groups

### Exempted Groups

The following groups do not have to pay to request items:

- U.S. federal agencies (other than USDA)
- Historically Black Colleges and Universities
- Land Grant Tribal Colleges
- Chesapeake Information and Research Library Alliance members (CIRLA)
- Agricultural Libraries Network (AGLINET) member libraries, when the materials requested have been published in the United States.

**NOTE:** AGLINET member libraries will be charged the standard fee for libraries, associations and organizations when they request materials published outside the United States.



May I hear from you?



*Thank  
you!*



Jill R. James  
Associate Director for Information Products  
National Agricultural Library  
(301) 504-6207  
Jill.James@ars.usda.gov  
<https://nal.usda.gov>