Issues in Forestry and Science Librarianship: Taxonomy and Authority Control

EXPERIENCES OF A FEDERAL SCIENCE LIBRARY





National Forest Service Library

HTTPS://WWW.FS.FED.US/LIBRARY/ USDA FOREST SERVICE CRYSTAL FALCONER



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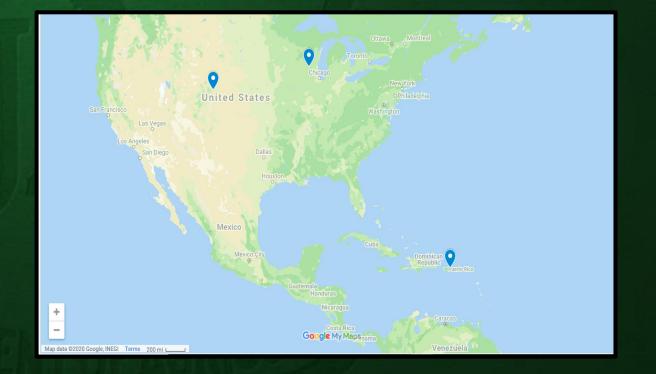
Crystal Falconer ILS Management CMS Management Digitization and Preservation Outreach Website Management



Caring for the land and serving the people

Makeup of the National Forest Service Library:

- National Forest Service Library (Fort Collins, CO)
- Forest Products Laboratory Library (Madison, WI)
- International Institute of Tropical Forestry Library (Rio Piedras, PR)







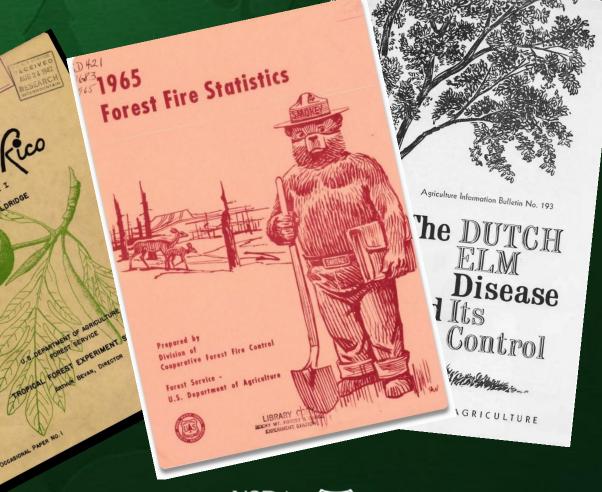
Taxonomy in Science Libraries

EFFORTS BY THE NATIONAL FOREST SERVICE LIBRARY TO LINK DATA AND STREAMLINE SUBJECT METADATA.



Why Science is Complicated

Cultural Values Discoveries Methods Technology Language Terminology

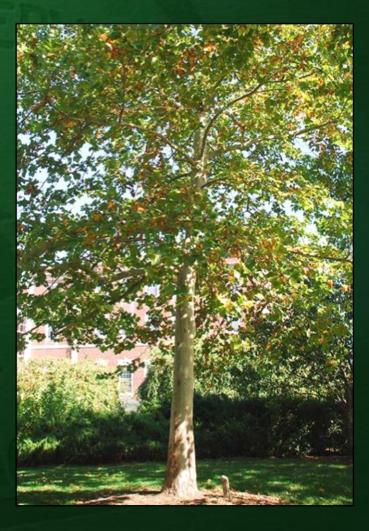






Why does Controlled Vocabulary Matter?

Ex. London Plane Tree (Photo credit goes to the Arbor Day Foundation)







Common Library Subject Sources

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	Library of Congress Subject Headings (LCSH) has been actively maintained since 1898 to catalog materials held at the Library of Congress. By virtue of cooperative cataloging other libraries around the United States also use LCSH to provide subject access to their collections. In addition LCSH is used internationally, often in translation. LCSH in this service includes all Library of Congress Subject Headings, free-floating subdivisions (topical and form), Genre/Form headings, Children's (AC) headings, and validation strings* for which authority records have been created. The content includes a few name headings (personal and corporate), such as William Shakespeare, Jesus Christ, and Harvard University, and geographic headings that are added to LCSH as they are needed to establish subdivisions, provide a pattern for subdivision practice, or provide reference structure for other terms. This content is expanded beyond the print issue of LCSH (the "red books") with inclusion of validation strings. *Validation strings: Some authority records are for headings that have been built by adding subdivisions. These records are the result of an ongoing project to programmatically create authority records for valid subject strings from subject heading strings found in bibliographic records. The authority records for these subject strings were created so the entire string could be machine-validated. The strings do not have broader, narrower, or related terms.			
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Examples of Science Term Deficit in

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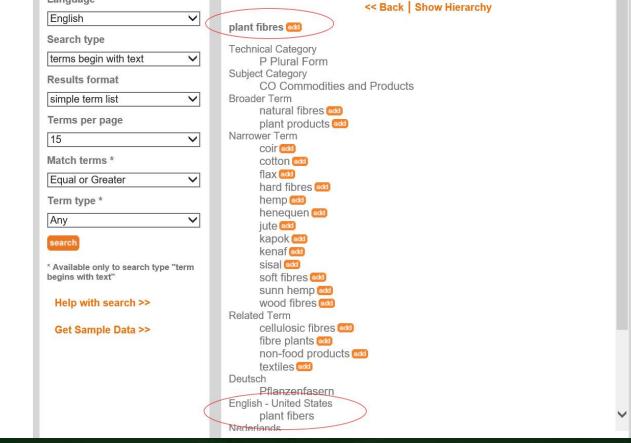
Cab Thesaurus

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Search type terms begin with text Results format simple term list Terms per page 15 Match terms *	 Platanus hispanica (1) Platanus hispanica (1) Taxonomic Rank Nothospecies Nothospecies - interspecific hybrid Technical Category SCI Scientific Name - Organisms Subject Category ON Organism Names History Note From 1988. Preferred Term Platanus acerifolia (1) Dansk Platanus hispanica Deutsch Platanus hispanica 	clear search Send to CAB Direct > Send to Google
Any search * Available only to search type "term begins with text"	Français Platanus hispanica Italiano Platanus hispanica	> Send to Yahoo!



U.S. Forest Service Caring for the land and serving the people

Cab Thesaurus: British vs. American English







653 Usage

651	3	\a New Mexico.
651	0	\a Pecos River (N.M. and Tex.).
651	0	\a Rio Grande.
653		\a Hesperioidea.
653		\a Assemblages.
653		\a Biological indicators.
653		\a Metrics.
653		\a Stresses.
653		\a Assessment.
653		\a Quality.
653		\a Riparian vegetation.
653		\a Indexes.





National Agriculture Library

Thesaurus

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Background on NALT

Originally created for:

- United States Department of Agriculture (USDA)
- Agricultural Research Service (ARS)

Used by:

- ► AGRICOLA
- Food Safety Research Information Office (FSRIC)
- Agricultural Network Information Center (AgNIC)
- Economic Research Service





What Sources Were Used to Create NALT?

- Numerous glossaries, dictionaries, and classification sources from varying subject areas:
- Neurology, Pesticides, Cellular biology, Ecology, Business and Economics, Botany, Nutrition, Bacteriology, Biomass, Medicine, Chemistry, Disease, Environmental Protection, Fish and Fishing, Veterinary science, Genetics, Horticulture, Pulp and Paper Production, and more
- Sources can be found at: <u>https://agclass.nal.usda.gov/bib.shtml</u>



Tested Against the Best

Ritchie S., Banyas K., & Sevin C. (2019). A Comparison of Selected Bibliographic Database Search Retrieval for Agricultural Information. Issues in Science and Technology Librarianship, (93). https://doi.org/10.29173/ist148 "A generalized linear model statistical analysis determined that AGRICOLA ranked highest for precision and was statistically more likely to produce a relevant result than four other databases." (Quote from abstract)





NALT Annotator

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Include non-NAL terms	in result?				
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NAL Entity	Frequency	Thesaurus Link	Select Item		
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Platanus acerifolia	1	http://lod.nal.usda.gov/nalt/50547			
hybrid species	1	http://lod.nal.usda.gov/nalt/315069			
DNA	1	http://lod.nal.usda.gov/nalt/1560			
botanists	1	http://lod.nal.usda.gov/nalt/18789			
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How we got there:

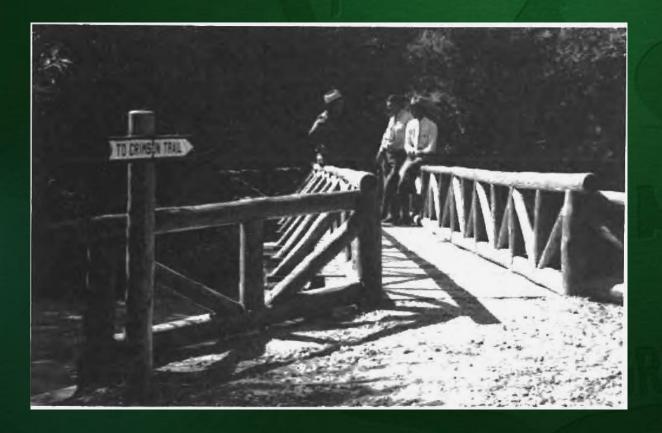
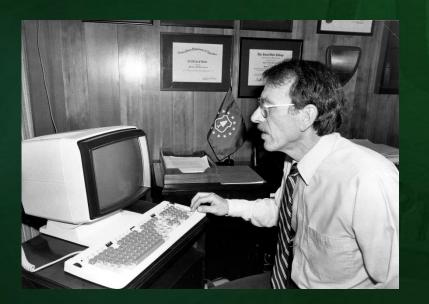


Image: Logan River Foot bridge, Cache (Wasatch) National Forest, 1935 (United States Forest Service)





What we gained:



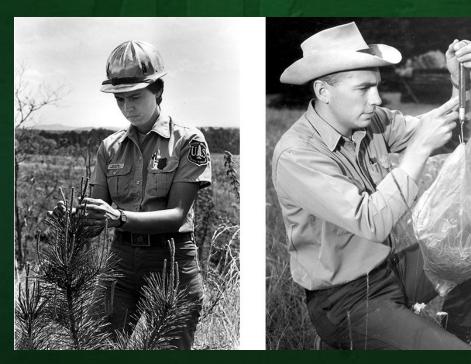
- The catalog records are cleaner than ever before.
- We made tons of improvement to our subject indexing.
- Our relationship with NAL is stronger than ever before.
- Staff has been impressed by the ease of use with NALT and the Annotator.
- Our researchers have noticed a vast improvement in our information retrieval and access.





Why Taxonomy is Important:

Improves the Forest and Forestry Research experience for our USDA Forest Service Researchers Improves cohesiveness between organizations and their resources







OPAC Popularity Since NALT Conversion





ILS and CMS Cataloging

https://nfsl.contentdm.oclc.org/ digital/

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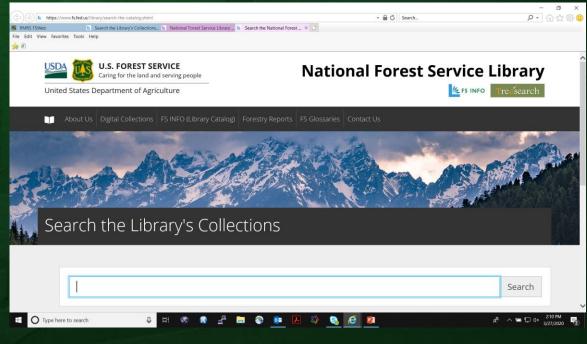
) https://nfsl.contentdm.oclc.org/digital/ - C Search P - 6 2 0 0 Search the Li llections. 🖪 National Forest Service Library ... 🖻 Search the National Forest Ser... 📘 NFSL Digital Collections - N... 🗴 🚺 le Edit View Favorites Tools Help 1 D National Forest Service Advanced Search The U.S. Forest service manages and protects 154 national forests and 20 grasslands in 43 states and Puerto Rico. Its mission is to sustain the health, diversity, and productivity of the Nation's forest and grasslands to meet the needs of present and future generations. The repository contains U.S. Forest Service documents, reports, photographs, and audio files in support of the mission The National Forest Service Library Digital Collections provides access to non-peer-reviewed Forest Service publications. The content of these publications may be incomplete or superseded. It is the responsibility of the user to verify the accuracy of the information provided. Forest Service Reports and Maps Forest Health Protection Historical Digital Collection The Forest Health Protection Historical Digital Collection is a growing body of The National Forest Service Library has compiled, digitized and preserved 0 thousands of documents and maps, creating a diverse collection of Forest Service unpublished documents and government publications related to damaging agents documents spanning decades and, in some cases, centuries, of forest trees in North America. This unique collection produced by the U.S... Inaja Fire Photographs and Documents, 1956 Forest Products Laboratory Prefabricated Houses Forest Service photographs and documents pertaining to the Inaja Fire, 19. The U.S. Forest Service, Forest Products Laboratory (FPL) was instrumental in

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developing and promoting the technology for prefabricated houses in the 1930's.

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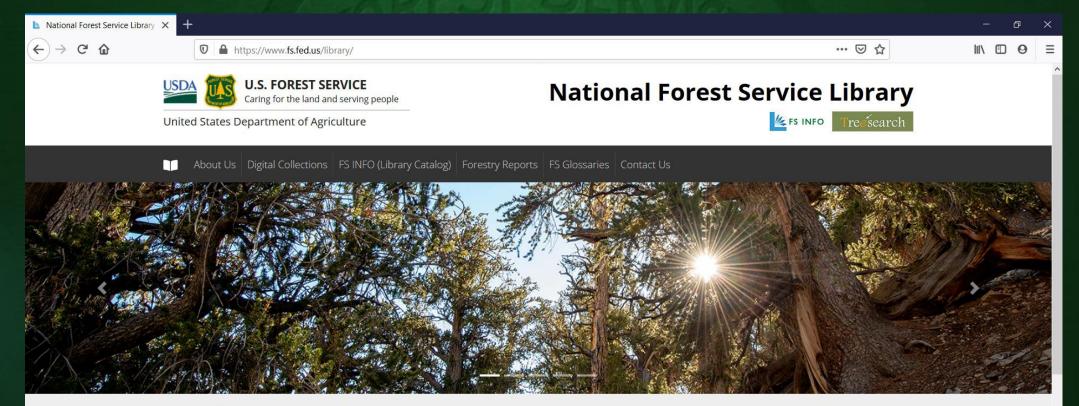
https://www.fs.fed.us/library /search-the-catalog.shtml





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Our Website:



The National Forest Service Library provides access to electronic journals and bibliographic databases, current literature alerting, reference, and interlibrary loan services to support the needs of Forest Service employees. Forest Service employees can find library services and assistance through the intranet site.

The National Forest Service Library's extensive collection may be searched at FS INFO, or browse our growing digital collections. Contact us at SM.FS.FSLib@usda.gov.



Questions:

- For obvious reasons, my library is most concerned with Forestry and Forest Science terms. What other specialized vocabularies exist in the other sciences?
- I discussed the solutions we tried at NFSL to remedy these issues. What have other libraries done to address these issues?
- My experiences are very specialized. In the broader audience, what networking opportunities exist for science librarians and catalogers? What groups do you all participate in, and what do you subscribe to that is helpful?
- Any other comments or questions?



Contacts:

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- Crystal.I.falconer@usda.gov

Library Director

- Tom Moothart (Library Director)
- Thomas.Moothart@usda.gov

*Images used in this presentation are owned by the United States Forest Service.



people