

National Biological Information Infrastructure (NBII) BioBot & IABIN BioBot

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Discussion Topics...

- NBII BioBot
- Enhancements to NBII BioBot
- IABIN BioBot Features & Development



Cecil Schwalbe, USGS

BioBot Features



Welcome to nbii.gov

163 Search Results For: wood thrush

NBII Results (163) Species Information (3) Maps & Data (92) Images (0) Organizations (0) References & Publications (38) Tools (0) Journal Articles (33) FIRE (0) Related Resources (9)

BioBot Biological Search Agent for the Web

NBII Resources Displaying Results 1 - 20 of 163

1		Evaluating Great Smoky Mountains National Park as a Population Source for the Wood Thrush ... large, intact forests are acting as population sources for Neotropical migrant landbirds. We used the Wood Thrush (<i>Hylocichla mustelina</i>) as a model ... Literature Citations Title: Evaluating Great Smoky Mountains National Park as a Population Source for the Wood Thrush Description: The prevailing fragmentation paradigm predicts that large, intact forests are acting as population sources ...
2		Observations of Wood Thrush nest predators in a large contiguous forest ... We used inexpensive (<\$30) cameras to document predators at active Wood Thrush (<i>Hylocichla mustelina</i>) nests in Great Smoky Mountains National Park. We observed such predators as black ... Cambridge Scientific Abstracts - Published Literature Citations Title: Observations of Wood Thrush nest predators in a large contiguous forest Description: We used inexpensive (<\$30) cameras to document ...
3		Wood Thrush Population Sinks and Implications for the Scale of Regional Conservation Strategies ... Cambridge Scientific Abstracts - Published Literature Citations Title: Wood Thrush Population Sinks and Implications for the Scale of Regional Conservation Strategies Description: I measured the ... I measured the season-long nesting productivity of 60 pairs of color-banded Wood Thrushes (<i>Hylocichla mustelina</i>) in three of the largest forest tracts (1100-2200 ha) in southern ...
4		Brown-headed cowbird parasitism of wood thrush nests in Eastern Texas ... and compared the frequency of nest parasitism by Brown-headed Cowbirds (<i>Molothrus ater</i>) on the Wood Thrush (<i>Hylocichla mustelina</i>) in eastern Texas to frequencies in other regions. I develop ... Cambridge Scientific Abstracts - Published Literature Citations Title: Brown-headed cowbird parasitism of wood thrush nests in Eastern Texas Description: I measured and compared the frequency of nest parasitism by ... and compared the frequency of nest parasitism by Brown-headed Cowbirds (<i>Molothrus ater</i>) on the Wood Thrush (<i>Hylocichla mustelina</i>) in eastern Texas to frequencies in other regions. I developed linear regression ...
5		Pattern and chronology of prebasic molt for the wood thrush and its relation to reproduction and migration departure (2) ... Cambridge Scientific Abstracts - Published Literature Citations Title: Pattern and chronology of prebasic molt for the wood thrush and its relation to reproduction and migration departure Description: Documentation of the schedule and pattern ... reproduction and migration departure are important, but often neglected, areas of knowledge. We radio-tagged Wood Thrushes (<i>Hyl... reproduction and migration departure are important, but often neglected, areas of knowledge. We radio-tagged Wood Thrushes (<i>Hylocichla mustelina</i>), and monitored their movements a... Author: JH Vega Rivera, WJ McShea, JH ...</i>

- Simple single search box interface
- All relevant resources are returned regardless of format or location
- Tabbed interface allows for access to resources (Maps, Images, etc.)
- Weighting of “trusted” sources & resources.
- NBII Biocomplexity Thesaurus supplements search terms

CSA/NBII Biocomplexity Thesaurus

- ❖ Provides us with a common language to describe the scope and content of all resources in NBII system
- ❖ Using a common language to characterize these resources facilitates their retrieval by users
- ❖ Created as an NBII partnership with Cambridge Scientific Abstracts (CSA)
- ❖ Five (5) existing thesauri combined into one Biocomplexity Thesaurus

Biocomplexity Thesaurus



Biocomplexity Thesaurus

Biocomplexity Thesaurus

[Thesaurus Home](#)

[About Biocomplexity Thesaurus](#)

[Search Tips](#)

[Web Service](#)

Browse the Biocomplexity Thesaurus

Please enter a term to search in the Biocomplexity Thesaurus:

Search

Results for:

BT [Species](#)
NT [Invasive animals](#)
NT [Invasive plants](#)
RT [Invasive species](#)
RT [Introduced species](#)
RT [Invasions](#)
RT [Invasiveness](#)
SC CERES

BT [Species](#)
NT [Invasive animals](#)
NT [Invasive plants](#)
RT [Invasive species](#)
RT [Introduced species](#)
RT [Invasions](#)
RT [Invasiveness](#)
SC CERES

[<<- Back to Top](#)

Quick Tips for Users

- Enter the desired term or phrase into the text box as plain text. Do not use Boolean logic, quotation marks, or parentheses.
- The lookup tool performs automatic stemming for prefixes and suffixes. Entering the term "biology" (minus quotation marks) will yield biology, chronobiology, clinical microbiology, age (biology), cryobiology, dating (biology), ethnobiology, etc.
- You can "rotate" the thesaurus to examine facets of your particular concept by clicking on the hyperlinked terms in your results list.
- If you rotate the thesaurus to view a related term, you can navigate back to your original entry term by clicking on it in the related term

About the Biocomplexity Thesaurus Project



CSA logo

Development of the CSA-NBII Biocomplexity Thesaurus began in 2002-2003 through a partnership between the NBII and CSA, a worldwide information company with more than 30 years experience as a leading bibliographic database provider. The original Biocomplexity Thesaurus, first made available online in 2003, was a merger of five individual thesauri:

- the CSA Aquatic Sciences and Fisheries Thesaurus
- the CSA Life Sciences Thesaurus
- the CSA Pollution Thesaurus
- the CSA Sociological Thesaurus
- the CERES/NBII Thesaurus

In 2004, the CSA Ecotourism Thesaurus was also merged into the Biocomplexity Thesaurus.

Merging and reconciliation of the terms in these thesauri was performed by Jessica Milstead, a leading expert in the development of scientific thesauri. The NBII Thesaurus Working Group oversees expansion of the thesaurus and addition or modification of terms.

In 2006-2007, the Thesaurus will be expanded to include new terms to support the fire ecology and management communities. Thesauri and glossaries that will be evaluated for this effort include:

- E.V. Komarek Fire Ecology Thesaurus, Tall Timbers Research Station
- Fire Effects Information System (FEIS) Glossary
- Northwest and Alaska Fire Effects Clearinghouse Glossary
- National Wildfire Coordinating Group Glossary of Wildland Fire Terminology
- Encyclopedia of Southern Fire Science
- Wildland Fire Lessons Learned Center Topics

A Web Service for the Biocomplexity Thesaurus

The CSA-NBII Biocomplexity Thesaurus is now available via a Web services (SOAP) interface.

Using the Biodiversity Thesaurus Web Services, your application can query the thesaurus for matching terms, retrieve all related terms, or retrieve only terms related in specific ways (e.g. broader terms only). Available function calls are detailed in the [JavaDoc](#).

Demo Client:

Demo 1: [NBII Thesaurus Web service client demo - Using SKOS](#)

Demo 2: [NBII/EIONET Multilingual Thesaurus Web service client demo - Using SKOS](#)

Developer resources:

[WSDL](#)

[JSP sample client source code for Demo 1](#) (This jsp uses java objects that are generated by WSDL2)

[JSP sample client source code for Demo 2](#) (This jsp uses java objects that are generated by WSDL2)

[Customized SKOS JavaDoc](#)

The SKOS Core API has been added with a convenience method `getConceptResultsByKeyword` which takes a string has been added to speed up search results that are returned from the web service. It returns a list of `ConceptResult` concept and its associated concepts (eg. broader, narrower, etc.).

[Download](#) client stub files

[W3C SKOS Project](#)

[AXIS Project](#)

For questions or more information, contact [Tim Rhyno](#) at Oak Ridge National Laboratory.

NBII Participation in EcoTerm

NBII is pleased to be a participant in **EcoTerm**, a working group of the **EcoInformatics Initiative**. EcoTerm was formed in April 2004 by parties interested in working together on environmental terminologies, their integration, and their use with semantic web technologies. With our partners at Oak Ridge National Laboratory, the NBII has partnered with other EcoTerm members to develop a prototype multi-lingual thesaurus Web service.

<http://thesaurus.nbi.gov>

Integrated Taxonomic Information Service



ITIS

**Integrated Taxonomic
Information System**

- ❖ A scientifically credible and dynamic biological names thesaurus for North American species
- ❖ Biological names are a common denominator that can be used to link data from many distributed sources and across disciplines -- from molecular biology and genetics to entire ecosystem-level studies.
- ❖ The ITIS is the result of a partnership of federal agencies formed to satisfy a mutual needs for scientifically credible taxonomic information.


Catalogued Resources in Biobot

1509 Search Results For: west nile virus

NBII Results (1001)	Species Information (1)	Maps & Data (24)	Images (0)	Organizations (0)	References & Publications (3)	Tools (0)	Journal Articles (7)	FIRE (0)	Related Resources (282)
NBII Resources Displaying Results 1 - 20 of 1509									
1	West Nile Virus : Fight the Bite! The CDC West Nile Virus Homepage ... Homepage of the Center for Disease Control West Nile Virus information. Includes questions and answers, how to avoid mosquito bites, maps and human cases, etc ... Central Southwest & the Gulf Coast: Web Resources West Nile Virus : Fight the Bite! The CDC West Nile Virus Homepage Resource Identifier: http://www.cdc.gov ...								
2	Louisiana's West Nile Virus Surveillance Program : West Nile Virus and Wild Game Hunters ... Central Southwest & the Gulf Coast: Web Resources Louisiana's West Nile Virus Surveillance Program : West Nile Virus and Wild Game Hunters Resource Identifier: http://www.oph.dh ...								
3	West Nile Virus: Overview of West Nile Virus in New York City in 2000 ... West Nile virus ; public health; crows; larvicides; pesticides; mosquitoes; Psorophora ferox; Culex pipiens; Culex salinarius; Anopheles punctipennis; Aedes ... Cambridge Scientific Abstracts: Web Resources West Nile Virus: Overview of West Nile Virus in New York City in 2000 Resource Identifier: http://www ...								
4	West Nile Virus and Other Arboviruses : West Nile Virus and Pet Birds ... Central Southwest & the Gulf Coast: Web Resources West Nile Virus and Other Arboviruses : West Nile Virus and Pet Birds Resource Identifier: http://www.oph.dh ...								
5	September 2000 Georgia Epidemiology Report: West Nile Virus and West Nile Encephalitis (PDF) ... This issue of the Georgia Epidemiology Report provides clinical and epidemiologic information about West Nile Virus and West Nile encephalitis, and details the surveillance activities that are being conducted in Georgia. ... Cambridge Scientific Abstracts: Web Resources September 2000 Georgia Epidemiology Report: West Nile Virus and West Nile Encephalitis (PDF) Resource Identifier: http://www.ph.dnr.state.ga.us/pdfs ...								
6	Arboviral Encephalitis and West Nile Virus ... Florida Department of Health's website on West Nile Virus . Includes surveillance information, maps, General West Nile Virus Response Plan, etc. for Florida ... Central Southwest & the Gulf Coast: Web Resources Arboviral Encephalitis and West Nile Virus Resource Identifier: http://www.doh.state.fl.us/environment/community/arboviral/index.html Cataloging Node ...								
7	Information Related to Insecticide Use For Preventing the Spread of West Nile Virus ... West Nile virus ; viruses; mosquitoes; insecticides; chemicals; encephalitis; neurobiology ... Cambridge Scientific Abstracts: Web Resources Information Related to Insecticide Use For Preventing the Spread of West Nile Virus Resource Identifier: http://www.health.state.ny.us/nysdoh/pest/hlthwnv.htm Cataloging Node: CSA ... htm Cataloging Node: CSA Creator: New York State Department of Health Uncontrolled Keywords: West nile virus; viruses; mosquitoes; insecticides; chemicals; encephalitis; neurobiology Format: URL Language: English Rights: Copyright held by Publisher This ...								
8	Map of Human Cases of West Nile Virus in the United States for 2003 ... tallies, updated weekly, of state and county-level data for CDC-verified cases of human West Nile virus . Historical and time-series data are not available. ... NBII Web Resources Map of Human Cases of West Nile Virus in the United States for 2003 Resource Identifier: http://westnilemaps.usgs.gov/usa_human.html ... gov/usa_human.html Cataloging Node: NBII Program Office Creator: United States Geological Survey Subject: viruses, viral diseases, zoonoses, animal diseases, vector borne diseases, vector borne diseases, vectors (disease), hosts, mapping, humans, epizootics, health ...								
9	FAQ's: Sagegrouse and West Nile Virus ... Short fact sheet on questions pertaining to sage grouse and west nile virus ... Great Basin Information Project - Web Resources FAQ's: Sagegrouse and West Nile Virus Resource Identifier: http://sagemap.wr.usgs.gov/docs/Sage_Grouse-WNV_Fact_Sheet_10-24 ...								
10	On Watch for West Nile Virus in Oklahoma ... The state of Oklahoma began a surveillance program for West Nile virus in 2001 and called it "On Watch". The ã On Watchã program monitors for West ... Central Southwest & the Gulf Coast: Web Resources On Watch for West Nile Virus in Oklahoma Resource Identifier: http://www.health.state.ok.us/program/cdd/ow/index.html ...								
11	Louisiana's West Nile Virus Surveillance Program ... Central Southwest & the Gulf Coast: Web Resources Louisiana's West Nile Virus Surveillance Program Resource Identifier: http://www.oph.dh.state.la.us/infectiousdisease/westnile/index.html ...								
12	West Nile Virus, University of Memphis Health Center Alert ... Provides information on the West Nile virus in Shelby County, Tennessee, and includes tips for protecting against the West Nile virus ... Southern Appalachian: Web Resources West Nile Virus , University of Memphis Health Center Alert Resource Identifier: http://www.people.memphis.edu/~health/WestNileVirus ... WestNileVirus.htm Cataloging Node: Southern Appalachian Information Node Creator: University of Memphis Health Center Subject: Viruses, Viral diseases Uncontrolled Keywords: West nile virus, Mosquito, Symptoms, Tennessee Description: Provides information on the ...								
13	West Nile Virus in Texas ... Website for West Nile Virus information in Texas. Site gives West Nile Virus information in English and Spanish. Gives annual ... Central Southwest & the Gulf Coast: Web Resources West Nile Virus in Texas Resource Identifier: http://www.tdh.state.tx.us/zoonosis/diseases/Arboviral/westnile/ Cataloging ...								
14	West Nile Virus Information ... Webpage for the Arkansas Department of Health's information on West Nile Virus . Includes maps of West Nile Virus outbreaks in birds and humans in Arkansas. Also gives ...								
15	Alabama Department of Public Health West Nile Virus								


Searching BioBot for “west nile virus”; “All” results displayed
And weighting results

Geospatial Applications results



[NBII HOME](#) | [Text-Only](#)

[NBII Home](#)
[Plants & Animals](#)
[Habitats](#)
[Ecological Issues](#)
[Geographic Perspectives](#)
[References](#)

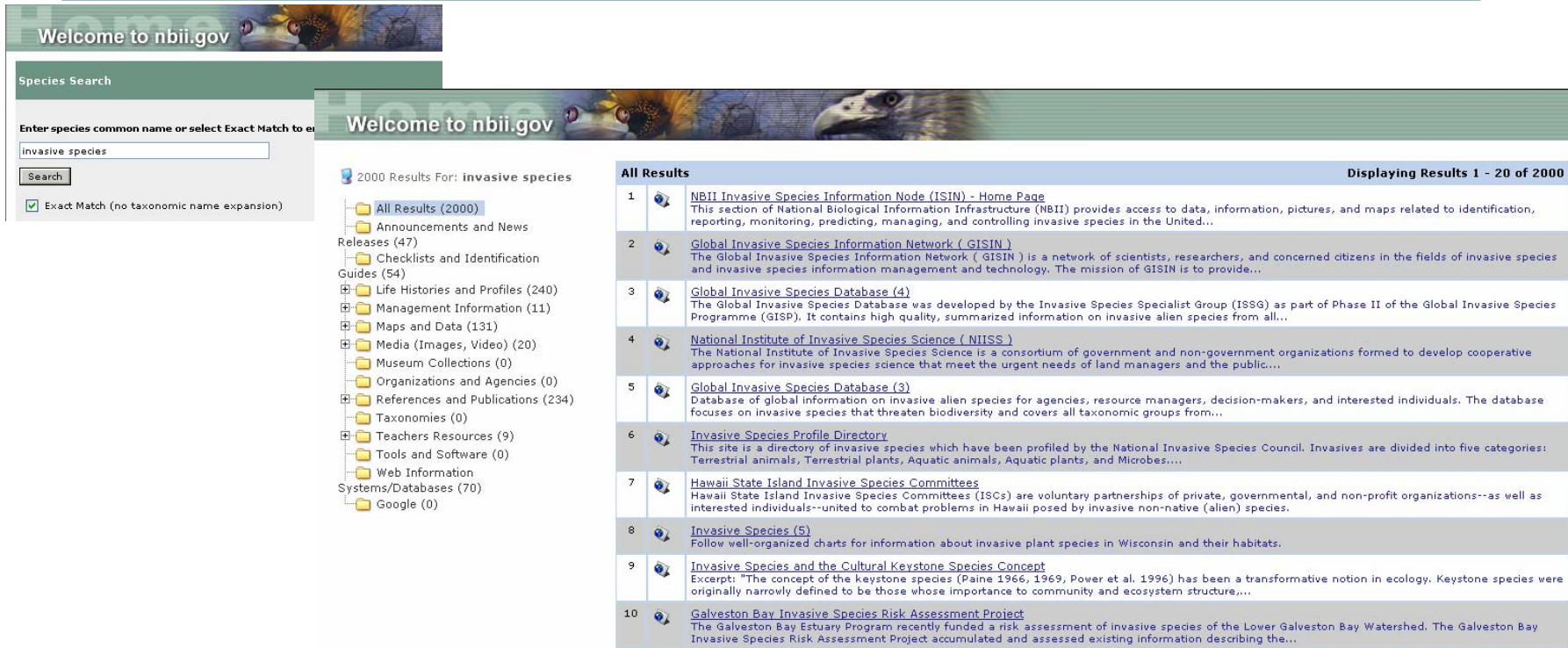


Welcome to nbii.gov

8397 Search Results For: bird conservation

NBII Results (1001)	Species Information (8)	Maps & Data (95)	Images (2)	Organizations (6)	References & Publications (24)	Tools (0)	Journal Articles (14)	FIRE (1)	Related Resources (266)
Displaying Results 1 - 20 of 95									
Maps and Datasets									
1	North American Bird Conservation Initiative: Bird Conservation Regions (PDF) ... Color coded map of the bird conservation regions in North America ... Cambridge Scientific Abstracts: Web Resources North American Bird Conservation Initiative: Bird Conservation Regions (PDF) Resource Identifier: http://www.nabci-us.org/aboutnabci/map.pdf ... us.org/aboutnabci/map.pdf Cataloging Node: CSA Creator: North American Bird Conservation Initiative Subject: birds , conservation Description: Color coded map of the bird conservation regions in North America. Publisher: North ...								
2	North American Bird Conservation Initiative Bird Conservation Regions ... Color coded map of North American bird conservation regions ... htm Cataloging Node: CSA Creator: North American Waterbird Conservation Plan, United States Geological Survey Subject: birds , conservation Uncontrolled Keywords: conservation regions Description: Color coded map of North American bird conservation regions ...								
3	Advancing migratory bird conservation and management by using radar: an interagency collaboration (2) ... nbii.gov/ The NBII Home Page: http://www.nbii.gov/ Powered by Mercury Advancing migratory bird conservation and management by using radar: an interagency collaboration Metadata: Identification_Information Distribution_Information Identification_Information Identification_Information Identification_Information radar Theme_Keyword: migration Theme_Keyword: USGS Theme_Keyword: USFWS Theme_Keyword: collaboration Theme_Keyword: birds Theme_Keyword: bats Theme_Keyword: conservation Access_Constraints: None Use_Constraints: None Point_of_Contact ...								
4	Research needs for grassland bird conservation ... The NBII Home Page: http://www.nbii.gov/ Powered by Mercury Research needs for grassland bird conservation Metadata: Identification_Information Distribution_Information Metadata_Reference_Information Identification_Information Citation: Citation_Information Originator: U ... J. M. Marzluff and R. Sallabanks, ed. Publication_Date: 1998 Title: Avian conservation: research and management Geospatial_Data_Presentation_Form: Book Publication_Information: Publication_Place: Covelo, CA Publisher: Island Press Other ... Maintenance_and_Update_Frequency: None planned Keywords: Theme: Theme_Keyword_Thesaurus: None Theme_Keyword: grassland birds Theme_Keyword: conservation Theme_Keyword: population decline Theme_Keyword: breeding habitat Access_Constraints: None Use ...								
5	North American Breeding Bird Atlas (BBA) Explorer for Breeding Bird Atlases in the United States and Canada ... Bird Conservation Home Background Conservation Initiatives Species Information Population and Habitat Data Bird Conservation Node Partners Bird ... Patuxent Wildlife Research Center (PWRC) and the National Biological Information Infrastructure (NBII) Subject: Wildlife conservation, Wildlife management , Birds , Breeding sites, Breeding status Description: From the Web site: Search data compiled from 24 state ... From the Web site: Search data compiled from 24 state and provincial Breeding Bird Atlases (BBAs). The Breeding Bird Atlas (BBA) Explorer is a website that offers data from ...								
6	Grassland birds: an overview of threats and recommended management strategies (2) ... recommended management strategies Geospatial_Data_Presentation_Form: Proceeding Paper Series_Information: Series_Name: Strategies for bird conservation : the partners in flight planning process. RMRS-P-16 Issue_Information: pages 74-77 Publication ... Update_Frequency: None planned Keywords: Theme: Theme_Keyword_Thesaurus: None Theme_Keyword: wildlife management Theme_Keyword: grassland birds Access_Constraints: None Use_Constraints: None Point_of_Contact: Contact_Information ... metadata.nbii.gov/ The NBII Home Page: http://www.nbii.gov/ Powered by Mercury Grassland birds : an overview of threats and recommended management strategies Metadata: Identification_Information Distribution_Information Metadata_Reference_Information Identification_Information Citation: Citation_Information Originator ...								
7	North American Breeding Bird Atlas (BBA) Viewer for Atlases in the United States and Canada ... Bird Conservation Home Background Conservation Initiatives Species Information Population and Habitat Data Bird Conservation Node Partners Bird ... From the Web site: This tool maps data from state and provincial Breeding Bird Atlases (BBAs), with results and descriptive information available here in a single format ... Center (PWRC) Contributor: United States Geological Survey (USGS) Rocky Mountain Mapping Center Subject: Habitat selection, Birds , Breeding status, Breeding success Description: From the Web site: This tool maps data from state ...								
8	Planning Regions for Regional Waterbird Conservation ... Bird Conservation Home Background Conservation Initiatives Species Information Population and Habitat Data Bird Conservation Node Partners Bird ... Map of regional waterbird conservation plan areas in north, central, and south America including Alaska/Bering/Yukon, Pacific coast, upper ... Cataloging Node: Bird Conservation Node Creator: Waterbird Conservation for the Americas Subject: Wildlife conservation, Aquatic birds Description: Map of regional waterbird conservation plan areas in north, central, and south America including ...								

BioBot Enhancements



The screenshot displays the my.nbi.gov website interface. At the top, there is a navigation bar with the text "Welcome to nbii.gov" and a search bar. Below the search bar, there is a section titled "Species Search" with a search input field containing "invasive species" and a "Search" button. A checkbox labeled "Exact Match (no taxonomic name expansion)" is checked. To the right of the search bar, there is a sidebar with a tree view of folders and sub-folders, including "All Results (2000)", "Announcements and News Releases (47)", "Checklists and Identification Guides (54)", "Life Histories and Profiles (240)", "Management Information (11)", "Maps and Data (131)", "Media (Images, Video) (20)", "Museum Collections (0)", "Organizations and Agencies (0)", "References and Publications (234)", "Taxonomies (0)", "Teachers Resources (9)", "Tools and Software (0)", "Web Information Systems/Databases (70)", and "Google (0)".

The main content area shows "2000 Results For: invasive species" and a table of results. The table has two columns: "All Results" and "Displaying Results 1 - 20 of 2000". The results are listed in a numbered format from 1 to 10, each with a small icon and a title followed by a brief description.

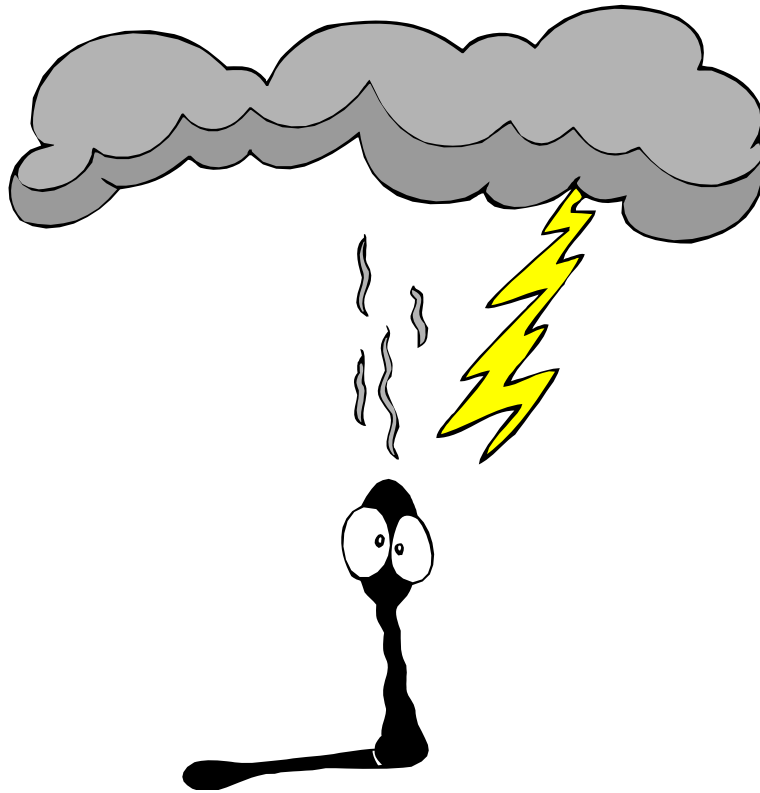
All Results	Displaying Results 1 - 20 of 2000
1	NBII Invasive Species Information Node (ISIN) - Home Page This section of National Biological Information Infrastructure (NBII) provides access to data, information, pictures, and maps related to identification, reporting, monitoring, predicting, managing, and controlling invasive species in the United...
2	Global Invasive Species Information Network (GISIN) The Global Invasive Species Information Network (GISIN) is a network of scientists, researchers, and concerned citizens in the fields of invasive species and invasive species information management and technology. The mission of GISIN is to provide...
3	Global Invasive Species Database (4) The Global Invasive Species Database was developed by the Invasive Species Specialist Group (ISSG) as part of Phase II of the Global Invasive Species Programme (GISP). It contains high quality, summarized information on invasive alien species from all...
4	National Institute of Invasive Species Science (NISS) The National Institute of Invasive Species Science is a consortium of government and non-government organizations formed to develop cooperative approaches for invasive species science that meet the urgent needs of land managers and the public...
5	Global Invasive Species Database (3) Database of global information on invasive alien species for agencies, resource managers, decision-makers, and interested individuals. The database focuses on invasive species that threaten biodiversity and covers all taxonomic groups from...
6	Invasive Species Profile Directory This site is a directory of invasive species which have been profiled by the National Invasive Species Council. Invasives are divided into five categories: Terrestrial animals, Terrestrial plants, Aquatic animals, Aquatic plants, and Microbes...
7	Hawaii State Island Invasive Species Committees Hawaii State Island Invasive Species Committees (ISCs) are voluntary partnerships of private, governmental, and non-profit organizations--as well as interested individuals--united to combat problems in Hawaii posed by invasive non-native (alien) species.
8	Invasive Species (5) Follow well-organized charts for information about invasive plant species in Wisconsin and their habitats.
9	Invasive Species and the Cultural Keystone Species Concept Excerpt: "The concept of the keystone species (Paine 1966, 1969, Power et al. 1996) has been a transformative notion in ecology. Keystone species were originally narrowly defined to be those whose importance to community and ecosystem structure,...
10	Galveston Bay Invasive Species Risk Assessment Project The Galveston Bay Estuary Program recently funded a risk assessment of invasive species of the Lower Galveston Bay Watershed. The Galveston Bay Invasive Species Risk Assessment Project accumulated and assessed existing information describing the...

- Folder & sub-folder based view
- Taxonomic lookups
- User defined Views
 - Customize folder names by Resource type, Source, etc.

IABIN BioBot Features

- Multi-lingual interface
- IABIN specific thesaurus
- IABIN look & feel
- Relevant IABIN content
- Access to IABIN TN content
- TOR announced – close February 15, 2007
- Scheduled for release Summer 07

Questions, Comments,



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