



## ⚡ Themes

Resources grouped by topic

## ⚡ My Collections

Organise, collaborate & share your resources. Use these tools to help you work more effectively.

## ⚡ Help & Advice

Help and advice to get the most out of ResourceSpace.

## Simple Search

Search using descriptions, keywords and resource numbers

- ☒ Photo
- ☐ Document
- ☐ Video
- ☐ Audio

### By Date

Any year ▼ Any month ▼

Clear

Search

> [Geographic Search](#)

> [Go to Advanced Search](#)

## My Collections

Current Collection (0 items):

My Collection ▼

- > [Manage 'My Collections'](#)
- > [Share](#) > [Edit](#) > [View All](#)
- > [Hide Thumbs](#)

## Manage 'My Collections'

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**View All**   A   B   C   D   E   F   G   H   I   J   K   L   M   N   O   P   Q   R   S   T   U   V   W   X   Y   Z   Results Display: **15** | 30 | 60 | All

**Total:** 6 Collections (6 owned by you)

Collection Name	Owner	ID	Created ↕	Items	Access	Tools
<b>My Collection</b>	Admin User	1	01 January 08 @ 10:00	0	Private	> View All > Select > Contact Sheet > Share > Edit > Log
<b>John Magnuson Oral History</b>	Admin User	2	23 March 12 @ 13:22	12	Private	> View All > Select > Contact Sheet > Share > Delete > Edit > Log
<b>Staff Photos</b>	Admin User	3	27 March 12 @ 17:20	1	Private	> View All > Select > Contact Sheet > Share > Delete > Edit > Log
<b>Upload 120327222157</b>	Admin User	4	27 March 12 @ 17:21	1	Private	> View All > Select > Contact Sheet > Share > Delete > Edit > Log
<b>Kitchell Reprints</b>	Admin User	5	04 April 12 @ 12:21	3	Private	> View All > Select > Contact Sheet > Share > Delete > Edit > Log
<b>Historical Photos</b>	Admin User	10	11 April 12 @ 11:06	10	Private	> View All > Select > Contact Sheet > Share > Delete > Edit > Log

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You found:  
**8** resourcesDisplay:  
**Large** | Small | ListSort Order:  
**As added** | Popularity | Color | DateResults Display:  
24 | **48** | 72 | 120 | 240

## Kitchell Reprints

&gt; Select Collection



Predator-prey interactions in La



Estimation of caloric content for



Percid habitat: the river analog



## My Collections

Current Collection (8 items):

Kitchell Reprints

> Manage 'My Collections'

> Share > Edit

> View All > Edit All

> Hide Thumbs

Predator-pr...  
x RemoveEstimation...  
x RemovePercid...  
x RemovePhosphorus...  
x RemoveModel of...  
x RemoveNutritional...  
x RemoveDigestive...  
x RemoveRate of...  
x Remove

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- ☒ Audio

## By Date

Any year ▾ Any month ▾

Clear

Search

&gt; Geographic Search

&gt; Go to Advanced Search

You found:  
**8** resources




Display:  
**Large** | Small | List

Sort Order:  
**As added** | Popularity | Color | Date

Results Display:  
24 | **48** | 72 | 120 | 240

## Kitchell Reprints

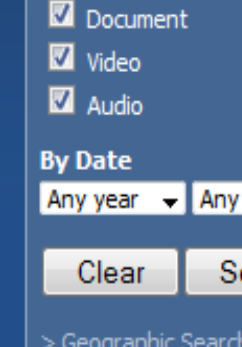





> Select Collection



**Predator-prey interactions in Lake Michigan: model predictions and recent dynamics** Resource ID: 34

Kitchell, J. F., & Crowder, L. B. (1986).  
Predator-prey interactions in Lake Michigan:  
model predictions and recent dynamics.  
Environmental Biology of Fishes, 16(1-3), 205-211.

Kitchell, James F.











## My Collections

Current Collection (8 items):

Kitchell Reprints

> Manage 'My Collections'  
> Share > Edit  
> View All > Edit All  
> Hide Thumbs



Predator-pr... x Remove

Estimation... x Remove

Percid... x Remove

Phosphorus... x Remove

Model of... x Remove

Nutritional... x Remove

Digestive... x Remove

Rate of... x Remove

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- ☒
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Search

> Geographic Search  
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## Predator-prey interactions in Lake Michigan: model predictions and recent dynamics

&lt; Previous Result | View All Results | Next Result &gt;



## Predator-prey interactions in Lake Michigan: model predictions and recent dynamics

James F. Kitchell & Larry B. Crowder<sup>1</sup>

<sup>1</sup> Center for Limnology, University of Wisconsin-Madison, Madison, WI 53706, U.S.A.

<sup>2</sup> Department of Zoology, North Carolina State University, Box 7617, Raleigh, NC 27695, U.S.A.

**Keywords:** Alewife, Bioenergetics modeling, Forage fishes, Predation, Salmonids, Zooplankton

### Synopsis

Several years ago, we used a bioenergetics model to evaluate the impact of increasing salmonid stocking on the highly variable alewife forage base in Lake Michigan. At that time, we forecast an alewife population decline and the following system-wide effects: increased abundances of large zooplankton, decreased salmonid growth rates, increased diet breadth of salmonids, niche shifts among competitors of the alewife, increased alewife growth rates and increased densities of fishes suppressed by alewife. Alewives have continued to decline steadily since 1981 and are now reduced to a density similar to early outbreak levels in the early 1960s. Recent reports on fish growth rates, zooplankton size and fish community structure support our projections regarding system-wide responses to the alewife decline.

### Introduction

In the past century, all of the Laurentian Great Lakes have undergone major ecological changes directly associated with overexploitation by commercial fisheries and introduction of anadromous, marine fishes. As a result, many endemic species and fish stocks have been driven to local extinction; both the biological communities and major food webs have changed dramatically and permanently (Christie 1974, Smith 1968, Wells & McLain 1973).

The purposes of this paper are to: (1) review causes of major changes in the Great Lakes ecosystems during the past century, (2) briefly describe an analysis of predator-prey interactions used to develop forecasts of imminent changes in species interactions, and (3) report recent observations as a test of the forecast.

A primary cause of these changes was invasion by the sea lamprey *Petromyzon marinus*. Although

there were endemic lamprey species present in the lakes, they achieved only small adult body sizes. The exotic sea lamprey becomes much larger and had a devastating effect on lake charr, *Salvelinus namaycush*, stocks which were stressed by growing commercial exploitation. Thus, the major piscivore in these ecosystems was nearly or entirely removed. Sea lampreys and the commercial fisheries subsequently contributed to the decline or local extinction of many of the endemic *Coregonus* species (Smith & Tibbles 1980).

In the absence of significant piscivore populations, the exotic smelt, *Osmerus mordax*, and/or alewife, *Alosa pseudoharengus*, flourished. Their effects as predators on and competitors with native planktivores remain unresolved (Crowder 1980) but apparently they were a major component in the decline of approximately half of the native zooplanktivorous fishes (Smith 1970). As a consequence of extremely high densities, massive al-

### My Collections

Current Collection (8 items):

Kitchell Reprints

> Manage 'My Collections'

> Share > Edit

> View All > Edit All

> Hide Thumbnails



Predator-pr...  
x Remove



Estimation...  
x Remove



Perid...  
x Remove



Phosphorus...  
x Remove



Model of...  
x Remove



Nutritional...  
x Remove



Digestive...  
x Remove



Rate of...  
x Remove

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<b>Historical Photos</b>	Admin User	10	11 April 12 @ 11:06	10	Private	> View All > Select > Contact Sheet > Share > Delete > Edit > Log

## Create New Collection

To create a new collection, enter a short name.

Collection Name

## Public Collections

## My Collections

Current Collection (8 items):

**Kitchell Reprints**

> Manage 'My Collections'  
> Share > Edit  
> View All > Edit All  
> Hide Thumbs



Predator-pr...  
x Remove



Estimation...  
x Remove



Percid...  
x Remove



Phosphorus...  
x Remove



Model of...  
x Remove



Nutritional...  
x Remove



Digestive...  
x Remove



Rate of...  
x Remove

## Simple Search

Search using descriptions, keywords and resource numbers

- ☒ Photo  
☐ Document  
☐ Video  
☐ Audio

## By Date

Any yea ▾ Any montl ▾

> Geographic Search  
> Go to Advanced Search



You found: **10** resources    Display: **Large** | Small | List    Sort Order: **As added** | Popularity | Color | Date    Results Display: 24 | **48** | 72 | 120 | 240

## Historical Photos

> Select Collection

 <p>Plankton trap in the closed position</p> <p><a href="#">Email</a> <a href="#">Add to collection</a> <a href="#">Full screen preview</a></p>	 <p>Plankton trap in the open position</p> <p><a href="#">Email</a> <a href="#">Add to collection</a> <a href="#">Full screen preview</a></p>	 <p>Hugo Baum measuring light intensity</p> <p><a href="#">Email</a> <a href="#">Add to collection</a> <a href="#">Full screen preview</a></p>	 <p>Ed Schneberger on Forestry Island</p> <p><a href="#">Email</a> <a href="#">Add to collection</a> <a href="#">Full screen preview</a></p>	 <p>Birge and Baum on Trout Lake</p> <p><a href="#">Email</a> <a href="#">Add to collection</a> <a href="#">Full screen preview</a></p>
 <p>C. Juday and S. Wright on Trout Lake</p> <p><a href="#">Email</a> <a href="#">Add to collection</a> <a href="#">Full screen preview</a></p>	 <p>Limnological research on iced Trout Lake</p> <p><a href="#">Email</a> <a href="#">Add to collection</a> <a href="#">Full screen preview</a></p>	 <p>Birge and Juday with a plankton net</p> <p><a href="#">Email</a> <a href="#">Add to collection</a> <a href="#">Full screen preview</a></p>	 <p>E.A. Birge and Soviet scientists</p> <p><a href="#">Email</a> <a href="#">Add to collection</a> <a href="#">Full screen preview</a></p>	 <p>E. A. Birge reading an anemometer</p> <p><a href="#">Email</a> <a href="#">Add to collection</a> <a href="#">Full screen preview</a></p>

Key: [Add or view comments](#) [Email](#) [Add to current collection](#) [Full screen preview](#)

> Save search query to collection    > Save search items to collection    > Calculate disk space used by results

## Simple Search

Search using descriptions, keywords and resource numbers

- ☒ Photo  
☒ Document  
☒ Video  
☒ Audio

### By Date

Any year  Any month

Clear

Search

> Geographic Search  
 > Go to Advanced Search

## My Collections

Current Collection (8 items):

**Kitchell Reprints**

> Manage 'My Collections'  
 > Share > Edit  
 > View All > Edit All  
 > Hide Thumbs

							
Predator-pr... x Remove	Estimation... x Remove	Percid... x Remove	Phosphorus... x Remove	Model of... x Remove	Nutritional... x Remove	Digestive... x Remove	Rate of... x Remove

You found: **10** resources    Display: **Large** | Small | List    Sort Order: **As added** | Popularity | Color | Date    Results Display: 24 | **48** | 72 | 120 | 240

## Historical Photos

&gt; Select Collection



Plankton trap in the closed position



Plankton trap in the open position



Hugo Baum measuring light



Ed Schneberger on Forestry Island



Birge and Baum on Trout Lake



C. Juday and S. Wright on Trout Lake



Limnological research on iced Trout Lake



Birge and Juday with a plankton trap on Lake Mendota



E.A. Birge and Soviet scientists



E. A. Birge reading an anemometer

**Birge and Juday with a plankton trap on Lake Mendota** Resource ID: 21

Edward A Birge and Chancey Juday using a plankton trap on Lake Mendota  
Birge, E.A. (Edward Asahel)



Key: Add or view comments    E-mail    Add to current collection    Full screen preview

> Save search query to collection    > Save search items to collection    > Calculate disk space used by results

## My Collections

Current Collection (8 items):

**Kitchell Reprints**

&gt; Manage 'My Collections'

&gt; Share &gt; Edit

&gt; View All &gt; Edit All

							
Predator-pr... x Remove	Estimation... x Remove	Periodic... x Remove	Phosphorus... x Remove	Model of... x Remove	Nutritional... x Remove	Digestive... x Remove	Rate of... x Remove

## Simple Search

Search using descriptions, keywords and resource numbers

- ☒ Photo  
☒ Document  
☒ Video  
☒ Audio

## By Date

Any year ▾ Any month ▾

Clear

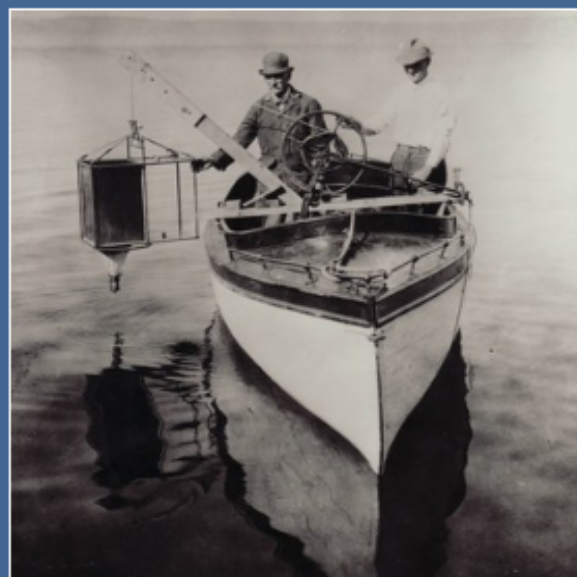
Search

&gt; Geographic Search

&gt; Go to Advanced Search

## Birge and Juday with a plankton trap on Lake Mendota

&lt; Previous Result | View All Results | Next Result &gt;



## Resource Tools

File Information

File Size

Options

## Original JPG File

768 x 779 pixels  
6.5 cm x 6.6 cm @ 300 PPI

120 KB

Download

> Add to collection > E-mail > Link > Edit > Delete  
> Manage alternative files > Log

## Simple Search

Search using descriptions, keywords and resource numbers

- ☒
- Photo
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- Document
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- Video
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- ☒
- Audio

## By Date

Any year ▾ Any month ▾

Clear

Search

> Geographic Search  
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## Resource Details

Resource ID  
21Access  
OpenKeywords  
Birge, E.A., Juday, C., Limnology, Limnology equipment, Lake MendotaNamed Person(s)  
Birge, E.A. (Edward Asahel)Date  
1917File Size  
120 KBCamera Make / Model  
CanoScan LiDE 600FSource  
Scanned PhotoImage Size  
768x779Caption  
Edward A Birge and Chancey Juday using a plankton trap on Lake Mendota

## My Collections

Current Collection (8 items):

Kitchell Reprints ▾

> Manage 'My Collections'  
> Share > Edit  
> View All > Edit All  
> Hide ThumbsPredator-pr...  
x RemoveEstimation...  
x RemovePercid...  
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x RemoveNutritional...  
x RemoveDigestive...  
x RemoveRate of...  
x Remove



C., Limnology,  
Limnology equipment,  
Lake Mendota

Asahel)  
Date  
1917

File Size  
120 KB

Camera Make / Model  
CanoScan LiDE 600F

Source  
Scanned Photo

Image Size  
768x779

Caption

Edward A Birge and Chancey Juday using a plankton trap on Lake Mendota

## Location Data

> Edit Location



## Search for similar resources

☐ lake ☐ limnology ☐ birge ☐ jpg ☐ juday ☐ plankton  
☐ edward ☐ equipment ☐ trap ☐ mendota ☐ asahel

Search

## My Collections

Current Collection (8 items):

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> View All > Edit All  
> Hide Thumbs



Predator-pr...  
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### My Collections

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> Share > Edit

> View All > Edit All

> Hide Thumbs



Predator-pr...  
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Estimation...  
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Digestive...  
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Rate of...  
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You found: **12** resources    Display: **Large** | Small | List    Sort Order: **As added** | Popularity | Color | Date    Results Display: 24 | **48** | 72 | 120 | 240

## John Magnuson Oral History

&gt; Select Collection

 <p>Index to John Magnuson Oral History</p>	 <p>John Magnuson Oral History</p>	 <p>John Magnuson Oral History</p>	 <p>John Magnuson Oral History</p>	 <p>John Magnuson Oral History</p>
 <p>John Magnuson Oral History</p>	 <p>John Magnuson Oral History</p>	 <p>John Magnuson Oral History</p>	 <p>John Magnuson Oral History</p>	 <p>John Magnuson Oral History</p>

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- ☒
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 > Hide Thumbs

							
Predator-pr... x Remove	Estimation... x Remove	Percid... x Remove	Phosphorus... x Remove	Model of... x Remove	Nutritional... x Remove	Digestive... x Remove	Rate of... x Remove

You found: **12** resources    Display: **Large** | Small | List    Sort Order: **As added** | Popularity | Color | Date    Results Display: 24 | **48** | 72 | 120 | 240

## John Magnuson Oral History

&gt; Select Collection

**John Magnuson Oral History Interview Tape 9**    Resource ID: 11

Oral history interview with John Magnuson, first director of the Center for Limnology. Tape 9 of 11. Interviewed in 2006 by Robert Lange for the UW-Madison Archives Oral History Project. UW-Madison archives interview number 743.

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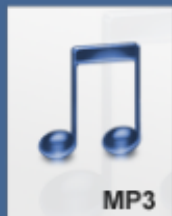
&gt; Share &gt; Edit

&gt; View All &gt; Edit All

Predator-pr... x Remove	Estimation... x Remove	Percid... x Remove	Phosphorus... x Remove	Model of... x Remove	Nutritional... x Remove	Digestive... x Remove	Rate of... x Remove

## John Magnuson Oral History Interview Tape 9

&lt; Previous Result | View All Results | Next Result &gt;



## Resource Tools

File Information	File Size	Options
Original MP3 File	59.3 MB	Download
Preview		

> Add to collection > E-mail > Link > Edit > Delete  
> Manage alternative files > Log

## Resource Details

Resource ID 11	Access Open	Date 10 April 12	Website <a href="http://archives.library.wisc.edu/oral-history/guide/701-800/741-750.html#magnuson">http://archives.library.wisc.edu/oral-history/guide/701-800/741-750.html#magnuson</a>
File Size 59.0 MB	Year 2006		
Caption Oral history interview with John Magnuson, first director of the Center for Limnology. Tape 9 of 11. Interviewed in 2006 by Robert Lange for the UW-Madison Archives Oral History Project. UW-Madison archives interview number 743.			

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## Location Data

&gt; Add Location

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> Share > Edit  
> View All > Edit All  
> Hide Thumbs



Predator-pr...  
x Remove



Estimation...  
x Remove



Percid...  
x Remove



Phosphorus...  
x Remove



Model of...  
x Remove



Nutritional...  
x Remove



Digestive...  
x Remove



Rate of...  
x Remove

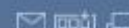
You found: **5** resources    Display: **Large** | Small | List    Sort Order: **Relevance** | Popularity | Color | Date    Results Display: 24 | **48** | 72 | 120 | 240

Birge and Baum on **Trout Lake**

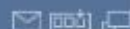
Ed Schneberger on Forestry E

C. Juday and S. Wright on **Tr**

Hugo Baum measuring light in



E.A. Birge and Soviet scientist



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Search using descriptions, keywords and resource numbers

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☒ Document  
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## By Date

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 > Go to Advanced Search

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Current Collection (8 items):

**Kitchell Reprints** ▾

> Manage 'My Collections'  
 > Share > Edit  
 > View All > Edit All  
 > Hide Thumbs



Predator-pr...  
x Remove



Estimation...  
x Remove



Percid...  
x Remove



Phosphorus...  
x Remove



Model of...  
x Remove



Nutritional...  
x Remove



Digestive...  
x Remove



Rate of...  
x Remove



You found: **11** resources    Display: **Large** | Small | List    Sort Order: **Relevance** | Popularity | Color | Date    Results Display: 24 | **48** | 72 | 120 | 240



Rate of gastric digestion in...

UW Madison Center for Limno  
United States

Predator-prey interactions in L



Estimation of caloric content fc



Percid habitat: the river analog



Phosphorus flux through fishes



Model of fish biomass dynamic



Model of fish biomass dynamic



## Simple Search

Search using descriptions,  
keywords and resource  
numbers

- ☒ Photo  
☒ Document  
☒ Video  
☒ Audio

## By Date

Any year ▼ Any month ▼



> Geographic Search  
 > Go to Advanced Search

## My Collections

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▼

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 > Hide Thumbs

Predator-pr...  
x RemoveEstimation...  
x RemovePercid...  
x RemovePhosphorus...  
x RemoveModel of...  
x RemoveNutritional...  
x RemoveDigestive...  
x RemoveRate of...  
x Remove

## Advanced Search

### Search Tip

Any section that you leave blank, or unticked will include ALL those terms in the search. For example, if you leave all the country boxes empty, the search will return results from all those countries. If you select only 'Africa' then the results will ONLY contain resources from 'Africa'.

All Fields

Resource Types ☒ Photo ☒ Document ☒ Video ☒ Audio

Resource ID(s)

By Date

Title

Original Filename

Keywords

Caption

Extracted Text

Country

Named Person(s)

Credit

### Type Specific: Video

Video Contents List

[View 9 matching resources](#)

[Clear](#)

### My Collections

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Predator-pr...  
x Remove



Estimation...  
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Percid...  
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Phosphorus...  
x Remove



Model of...  
x Remove



Nutritional...  
x Remove



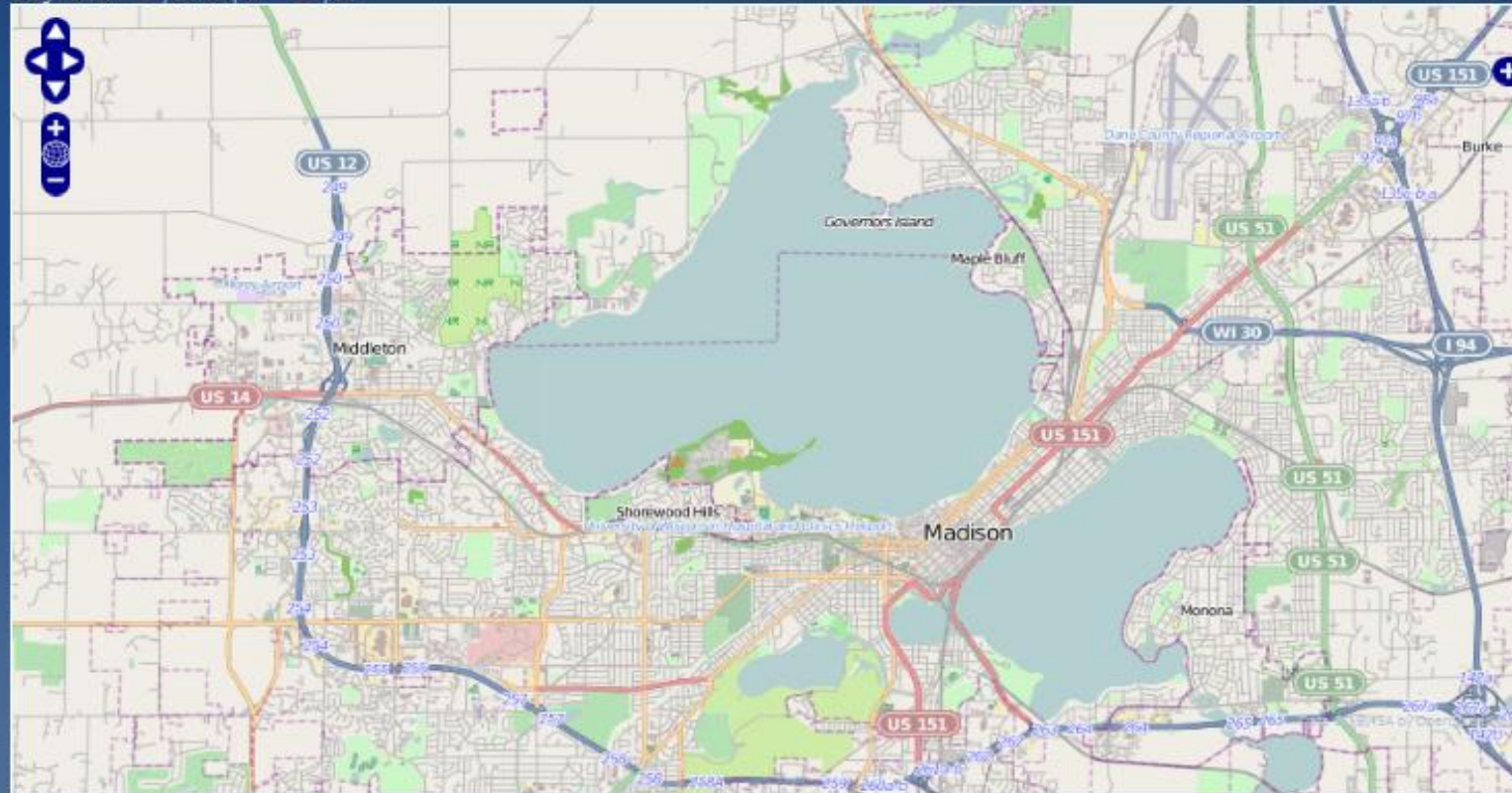
Digestive...  
x Remove



Rate of...  
x Remove

## Geographic Search

Drag to select a search area.

Drag mode: ☒ position pin ☐ panInterface: ☒ ☐ ☐ Language: American English

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## My Collections

Current Collection (8 items):

Kitchell Reprints

&gt; Manage 'My Collections'

&gt; Share &gt; Edit

&gt; View All &gt; Edit All

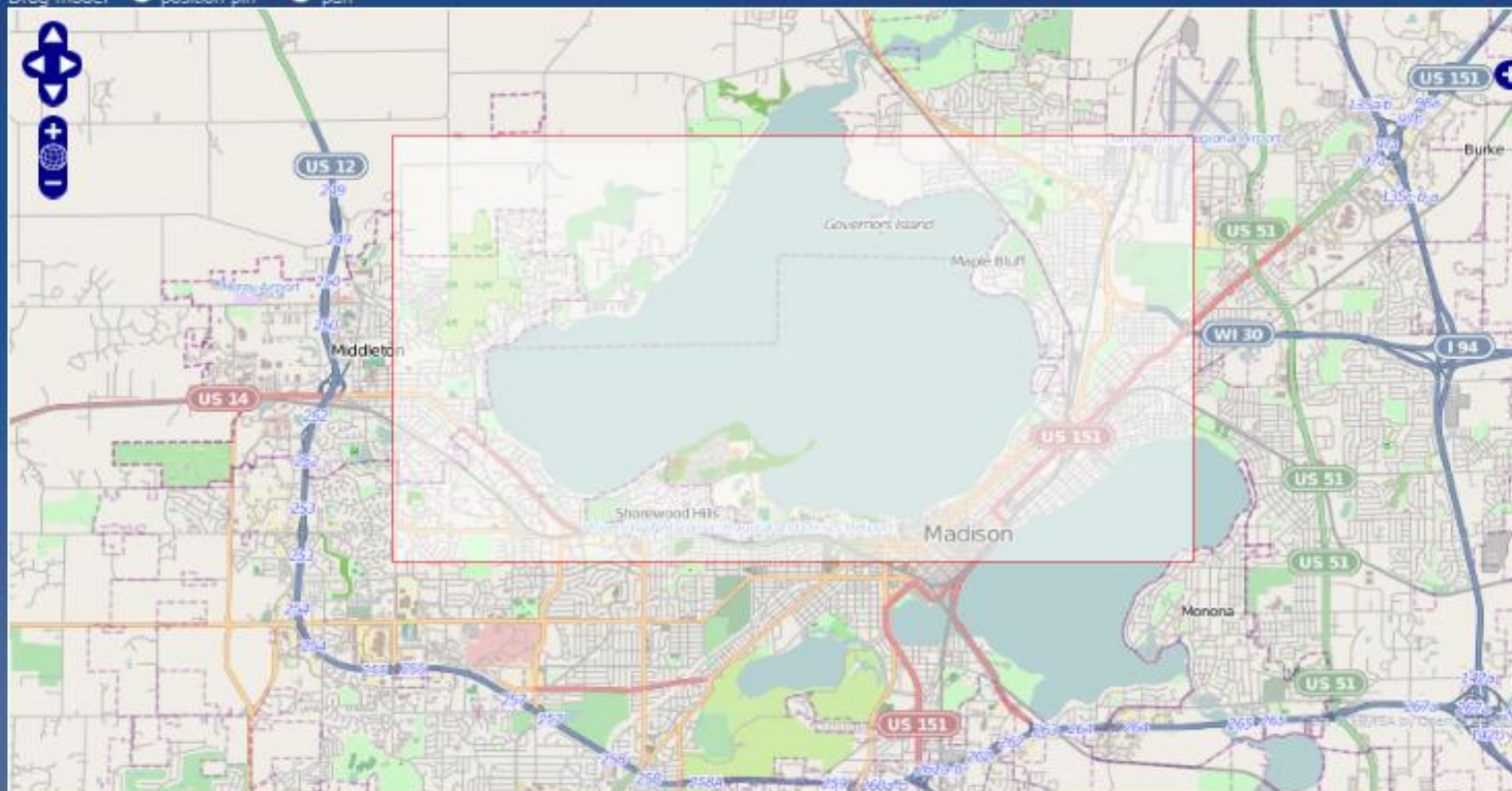
&gt; Hide Thumbs

Predator-pr...  
x RemoveEstimation...  
x RemovePercid...  
x RemovePhosphorus...  
x RemoveModel of...  
x RemoveNutritional...  
x RemoveDigestive...  
x RemoveRate of...  
x Remove



## Geographic Search

Drag to select a search area.

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x Remove

## Simple Search

Search using descriptions,  
keywords and resource  
numbers

fish

- ☒ Photo
- ☒ Document
- ☒ Video
- ☒ Audio

## By Date

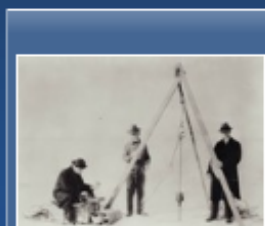
Any year  Any month 

Clear

Search

- > Geographic Search
- > Go to Advanced Search

You found: **2** resources    Display: **Large** | Small | List    Sort Order: **As added** | Popularity | Color | Date    Results Display: 24 | **48** | 72 | 120 | 240



Limnological research on iced



Birge and Juday with a plank



Key: E-mail Add to current collection Full screen preview

> Save search query to collection    > Save search items to collection    > Calculate disk space used by results

## Simple Search

Search using descriptions,  
keywords and resource  
numbers

- ☒ Photo  
☒ Document  
☒ Video  
☒ Audio

## By Date

Any year ▼ Any month ▼



> Geographic Search  
 > Go to Advanced Search

Interface: Language: American English

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Nutritional...  
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Digestive...  
x Remove



Rate of...  
x Remove