Considering an Existing Application as a Solution for an Agency’s Fisheries Database Needs

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Fisheries Information Network System (FINS)
Missouri Department of Conservation

- Centralized
- Web based
- Export/Import
- Reports
- Modifiable
Evaluating Application = Buying a House

Resources • Compatibility • Functionality
Resources
MEMORANDUM OF UNDERSTANDING
FOR THE SHARING OF THE FISHERIES INFORMATION NETWORK SYSTEM (FINS) DATABASE SOFTWARE
BETWEEN THE MISSOURI DEPARTMENT OF CONSERVATION AND VIRGINIA DEPARTMENT OF GAME AND INLAND FISHERIES

Modification requirements?

Training opportunities?

Assistance with maintenance, support, modifications?
Your Agency

Staff + Expertise + Time + Commitment → Financial $$ → Outsourcing
Compatibility
Data Fields
## Data Fields

<table>
<thead>
<tr>
<th>Warmwater Streams Data Field Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish</td>
</tr>
<tr>
<td>Gear - electrofishing</td>
</tr>
<tr>
<td>Gear - nets</td>
</tr>
<tr>
<td>Site</td>
</tr>
<tr>
<td>Fish by centimeter class</td>
</tr>
<tr>
<td>Species Summary</td>
</tr>
<tr>
<td>Substrate</td>
</tr>
<tr>
<td>Habitat</td>
</tr>
<tr>
<td>WQ</td>
</tr>
<tr>
<td>Land Use</td>
</tr>
<tr>
<td>Structure</td>
</tr>
</tbody>
</table>

**Usefulness**

- Fish: 40%
- Gear - electrofishing: 40%
- Gear - nets: 15%
- Site: 12%
- Fish by centimeter class: 0%
- Species Summary: 0%
- Substrate: 0%
- Habitat: 6%
- WQ: 14%
- Land Use: 0%
- Structure: 0%
## Data Fields

<table>
<thead>
<tr>
<th>Warmwater Streams Data Field Category</th>
<th>% Matching Fields</th>
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</thead>
<tbody>
<tr>
<td>Fish</td>
<td>40%</td>
</tr>
<tr>
<td>Gear - electrofishing</td>
<td>40%</td>
</tr>
<tr>
<td>Gear - nets</td>
<td>15%</td>
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<tr>
<td>Site</td>
<td>12%</td>
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<td>14%</td>
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<tr>
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<td>0%</td>
</tr>
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<td>Structure</td>
<td>0%</td>
</tr>
</tbody>
</table>

### Usefulness

- **Net group**
- **Net length**
- **Surface/mid/bottom**
- **Shoreline/open**

### Length class

- **Aggregate weight**

### Water Quality

- **DO**
- **Salinity**
- **pH**
- **Turbidity**
Historical Data

Igor Babailov
Layout

Fisheries Information Network System | Collections

1 of 1 [Creator is "Karen Horodysky - (horodk)"; Waterbody is "Ben Branch Lake"]

<table>
<thead>
<tr>
<th>Year</th>
<th>Waterbody</th>
<th>Purpose</th>
<th>Coordinator</th>
<th>Editor 1</th>
<th>Editor 2</th>
<th>Species</th>
<th>Region</th>
<th>Status</th>
<th>Projects</th>
<th>Removed?</th>
<th>Actions</th>
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</thead>
<tbody>
<tr>
<td>2013</td>
<td>Ben Branch Lake</td>
<td>Annual multispecies survey</td>
<td>Karen Horodysky (horodk)</td>
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<td></td>
<td>BLUE CATFISH, BLUEGILL, LARGEMOUTH BASS, SMALLMOUTH BASS, WALLEYE</td>
<td>Out of State</td>
<td>Unapproved Approve</td>
<td>Lakes</td>
<td>No</td>
<td></td>
</tr>
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</table>

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Year ➔ Waterbody ➔ Site ➔ Run ➔ Data
Layout

!!! TEST ENVIRONMENT !!!

Fisheries Information Network System | Collection Editor

2013 Ben Branch Lake - Karen Horodysky (horodk)

Status

Unapproved

Approve

[Image of webpage with navigation buttons: Basic Information, Bony Part Data File, Sites, Attachments, Notes]

1 - 1 of 1 []

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Location</th>
<th>Start UTM</th>
<th>Stop UTM</th>
<th>Description</th>
<th>Removed?</th>
<th>Actions</th>
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</thead>
<tbody>
<tr>
<td>Entire Lake</td>
<td>Shoreline</td>
<td>15S 2E 2N</td>
<td>15S 2E 2N</td>
<td>VDGIF test</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

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Year ⟹ Waterbody ⟹ Site ⟹ Run ⟹ Data
### Year → Waterbody → Site → Run → Data
Year → Waterbody → Site → Run → Data
Functionality
Installation

Missing files

Authentication issues

Insufficient rights

Framework/software dependencies?
Installation & Required Programs

- Dynamic Link Libraries (DLLs) – shared code
- Active Directory – Microsoft directory service authorizes user access
- SQL Reporting Services (SSRS) – used to run reports
- SQL Server Standard Edition – needed to run SSRS
Summary of Considerations

**Resources**
- Parent Agency
- Your Agency

**Compatibility**
- Data Type
- Data Requirements
- Outcomes

**Functionality**
- Installation
- Programs
Acknowledgements

Missouri Department of Conservation — Jake Allman, Joe Kirby
Indiana Department of Natural Resources — Dan Carnahan
Virginia DGIF— Nick Minneti, Amy Ewing, IMS Team, Mike Bednarski
Coyote IT — Kevin Jordan

Organization of Fish & Wildlife Information Managers

Thank You!