

Taxonomic Data Review

Look for these issues in taxonomic data

- 1) **For invertebrates and diatoms, confirm that minimum target counts were achieved (e.g. 300 for invertebrates or 600 for diatoms).** Tools in BioData help identify minimum target counts. If targets were not met, confirm that lab notes describe condition of the sample. For example, the entire invertebrate sample might have been sorted without reaching 300 organisms, or the 8 hour time limit specified in OFR 00-212 might have been reached. In another example, diatoms on slide might have been obscured by fine silts and clays. This information can be used by USGS biologist to confirm that sampling is successful, and if not, how to correct for future field collections.
- 2) **For invertebrates, confirm that organisms were identified to target levels** (e.g. OFR 00-212). Tools in BioData help identify minimum target counts. If targets were not met, confirm that lab notes document the shortfall. For example, a significant number of immature organisms will prevent identification to target level. This information can be used to consider shifting the sampling period to obtain mature individuals in future field collections.
- 3) **Determine if there are obvious differences between current and previous taxonomic data from the site.** For example, changes in the taxonomic level to which organisms are identified, appearance of new taxa, absence of formerly common taxa, or significant changes in relative abundance of taxonomic groups should alert the analyst to look further at the data, ask the lab about analyses, or contact one of the BioData taxonomic stewards for assistance.
- 4) **Consider comparing quantitative (e.g. IRTH) and qualitative (e.g. IQMH) results, if applicable.** Note obvious differences and determine if there are differences in collection procedures or personnel. This information can be used by USGS biologist to flag data, ask questions, alter procedures, or contact one of the BioData taxonomic stewards for assistance.

Process for checking taxonomic data

- 1) Select the sample that you want to review
- 2) Set the review code for the taxonomic records

STEP 1: Select the sample that you want to review

1. Apply filters to the display to show the samples that you want to select from.
 - a. Only one community will be displayed at a time
2. Consult the [Taxonomic Data Review Icons](#) page to understand what the icons mean
3. Click on the [Display](#) link to open that set of records

Data Release Status Study Reaches Physical Samples Community Samples Manage Lab Orders **Review Taxa Records**

Find Taxonomic Result Set Click for help [Getting Started - Taxonomic Result Review](#)

Filter list by:

Fish Invertebrate Algae Results:

Site: Reviewed:

[Clear all filters](#)

Page 1 of 1 Page Size: 15 Displaying Found 1 - 7 c

Actions	Sidno	Review Complet...	Sample Type	Collection Date...	Site Number	Site Name
Display	BDB-000051515		FISH	2011-10-20	13203760	BOISE RIVER AT ECKERT RD NR BOISE ID
Display	BDB-000051518		FISH	2011-10-24	13203760	BOISE RIVER AT ECKERT RD NR BOISE ID
Display	BDB-000051523		FISH	2011-10-25	13210050	BOISE RIVER NR MIDDLETON ID
Display	BDB-000051524		FISH	2011-10-25	13210050	BOISE RIVER NR MIDDLETON ID
Display	BDB-000051528		FISH	2011-10-26	13213030	BOISE RIVER AT MOUTH NR PARMA ID
Display	BDB-000051529		FISH	2011-10-26	13213030	BOISE RIVER AT MOUTH NR PARMA ID

Filled in icon means all records have been reviewed

Click to display taxa count records

Click to open sample info data screen

STEP 2: Set their review code for the taxonomic records

- You can use the column sort and resizing features to examine your data and look for outliers
- The left hand summary panel can be hidden
- You need to set the review code for **every** record
- Beware-** if your data set is large it may be spread across several pages (note "Page Size" and "Page x of y" below)
 - the 'select all' check box may not select all the records
 - you might want to consider using the "Set ALL Results to:" option at the bottom of the page.
- Return to the sample/lab order list and make sure the [Taxonomic Data Review Icon](#) is filled in appropriately
 - If it's not, you missed some records or made some errors.

Review Status definitions

- Awaiting Review:** Default state given every result record when it is created.
- Reviewed and Accepted:** Reviewer has reviewed and accepted the result.
- Reviewed and Rejected:** Reviewer has rejected the record. One rejection in a result set means that none of the results in the result set will be published to BioData Retrieval.
- Presumed Satisfactory:** Result is neither accepted or rejected, but will not inhibit the transfer of the result set to BioData Retrieval.

Fish Condition Factor - sort to identify typos

The Fish Condition Factor is provided to identify typos only, and is not intended for weight-length relationship analysis. Sort by the Fish Condition Factor to identify typos in fish total length and weight data entry. Pay special attention to the highest values (especially those over 10) and lowest values (those less than 0.6).

BioData uses the following calculation for condition factor:

The coefficient of condition has usually been represented and weighed in the metric system. The formula most

$$K = \frac{100,00}{L^3}$$

where: *W* = the weight of the fish in grams;

L = the standard length of the fish in millimeter

Source: Williams, J.E., 2000, Chapter 13, The Coefficient of Condition of Fish, in Schneider, James C., ed., Manual of fisheries survey methods II: with periodic updates: Michigan Department of Natural Resources, Fisheries Special Report 25, Ann Arbor.

Project Profile Study Reaches Physical Samples Community Samples Manage Lab Orders **Review Taxa Records** Data Release Status

Find Different Taxonomic Result Set Review Results for FISH sample BDB-000050461 on 2010-09-20 at 05451770 - Iowa River at County Highway E49 near Tama, IA [Getting Started - Taxonomic Result Review](#)

Summary Page 1 of 1 Page Size 200 Show All Results (Simple View) Export List Displaying Found 1 - 121 of 121

Taxonomic Result Summary

121 Total records.
Sum of abundance - 328
17 distinct taxa

- 49 (15%) Cyprinidae specimens
- 36 (11%) Catostomidae specimens
- 2 (1%) Ictaluridae specimens
- 0 (0%) Salmonidae specimens
- 0 (0%) Cottidae specimens
- 1 (0%) Centrarchidae specimens
- 1 (0%) Percidae specimens

<input checked="" type="checkbox"/>	Revi... Stat...	Meth...	Pa...	Li...	Co...	Scie...	Publi...	Ab...	Total Leng...	Stan... Leng...	Weig...	Co... Fa...	DELT...	DE...	ER...	LE	TU...	ID at	Taxo...	Vouc...
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<input checked="" type="checkbox"/>	R	Minn...	1	4	sa...	Notr...	100...	1	58		2.0	1	0	No	No	No	No	Field		
<input checked="" type="checkbox"/>	R	Minn...	1	5	sa...	Notr...	100...	1	53		1.0	0.7	0	No	No	No	No	Field		
<input checked="" type="checkbox"/>	R	Minn...	1	6	sa...	Notr...	100...	1	50		1.0	0.8	0	No	No	No	No	Field		
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<input checked="" type="checkbox"/>	R	Minn...	1	9	sa...	Notr...	100...	1	55		1.0	0.6	0	No	No	No	No	Field		
<input checked="" type="checkbox"/>	R	Minn...	1	10	sa...	Notr...	100...	1	51		1.0	0.8	0	No	No	No	No	Field		
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<input checked="" type="checkbox"/>	R	Boat ...	1	14	co...	Cyp...	100...	1	465		2500.0	2.5	0	No	No	No	No	Field		
<input checked="" type="checkbox"/>	R	Boat ...	1	15	co...	Cyp...	100...	1	660		6000.0	2.1	1	No	No	Yes	No	Field		
<input checked="" type="checkbox"/>	R	Boat ...	1	16	co...	Cyp...	100...	1	585		4000.0	2	0	No	No	No	No	Field		
<input checked="" type="checkbox"/>	R	Boat ...	1	17	co...	Cyp...	100...	1	455		2500.0	2.7	1	No	Yes	No	No	Field		
<input checked="" type="checkbox"/>	R	Boat ...	1	18	co...	Cyp...	100...	1	420		2000.0	2.7	0	No	No	No	No	Field		
<input checked="" type="checkbox"/>	R	Boat ...	1	19	co...	Cyp...	100...	1	450		2500.0	2.7	0	No	No	No	No	Field		

Set checked results to: - Awaiting Review R - Reviewed and Accepted Q - Reviewed and Rejected S - Presumed Satisfactory

Set ALL results to: - Awaiting Review R - Reviewed and Accepted Q - Reviewed and Rejected S - Presumed Satisfactory