

**Protocol for Monitoring Aquatic Invertebrates at Ozark National Scenic
Riverways, Missouri, and Buffalo National River, Arkansas.
Heartland I&M Network**

SOP 4: Laboratory Processing and Identification of Invertebrates

Version 1.2 (03/11/2021)

Revision History Log:

Previous Version #	Revision Date	Author	Changes Made	Reason for Change	New Version #
1.0	Dec 2, 2016	Bowles	References updates	References were insufficient	1.1
1.1	3/11/2021	HR Dodd	QA/QC procedures and certification process clarified; sample processing and identification methods clarified	Clarify QA procedures and increase data integrity of sample processing and identification	1.2

This SOP explains procedures for processing and storing samples after field collection as well as identification of specimens. Procedures for storing reference specimens are also described.

I. Preparing the Sample for Processing

Processing procedures apply to all benthic samples. This is an important and time-consuming step. Particular care should be taken to ensure that samples are being processed thoroughly and efficiently. The purpose of sorting is to remove invertebrates from other material in the sample.

Procedure:

- A. Sample processing begins by pouring the original field sample into a USGS standard sieve (500- μ m) placed in a catch pan. The preservative that is drained from the sample should be placed back in the original sample container for eventual rehydration of remaining sample debris that is not sorted during the subsample procedure described below.
- B. Rinse the sample contents in the sieve with tap water to flush the residual preservative. Large debris material (>2 cm; i.e. leaves, sticks, rocks) should be removed by hand and rinsed into the sieve. Each piece of large debris removed from the bulk sample should be carefully inspected under a hand lens to ensure that all attached organisms are removed.

The large rinsed debris material should then be placed back in the original sample container that contains the drained preservative. For samples that contain heavy amounts of aquatic vegetation (particularly algae or moss where invertebrates can be entangled or attached), the vegetation should remain in the sieve for the subsampling procedure and processing under a microscope, as described below.

- C. A general rule on when to elutriate the sample: If the sample has little aquatic vegetation or large debris (covers <25% of the sieve) but fine sediment (sand/gravel) covers more than 50% of the sieve, elutriation should be used to separate the invertebrates and smaller organic debris from the fine sediment. To conduct elutriation, place the contents of the sieve in a 1 gallon bucket and add water to the sample such that at least 2 inches of water covers the sample. Swirl the contents of the bucket rapidly enough to allow organic material (invertebrates and small debris) to float on top of the water, then rapidly and carefully decant the water into the sieve without stirring up the fine sediment. This may take several washes to separate the organic material from the fine sediment. Carefully examine the inorganic content (fine sediment) using a magnifying lens for the presence of remaining invertebrates (especially mollusk shells and Trichoptera cases). Add these specimens to the organic debris portion that is in the sieve. Return the inorganic portion to the original sample container.
- D. The sieve containing the organic sample portion of the sample should be placed in a shallow pan of water. Enough water should be used such that the contents are floated until they are evenly distributed on the pan bottom. The sieve should then be carefully lifted from the water so that contents are not redistributed. The sieve is marked with eight (8) equal portions (Fig. 1) in order to select sections of the sieve for subsampling and sorting as described below.

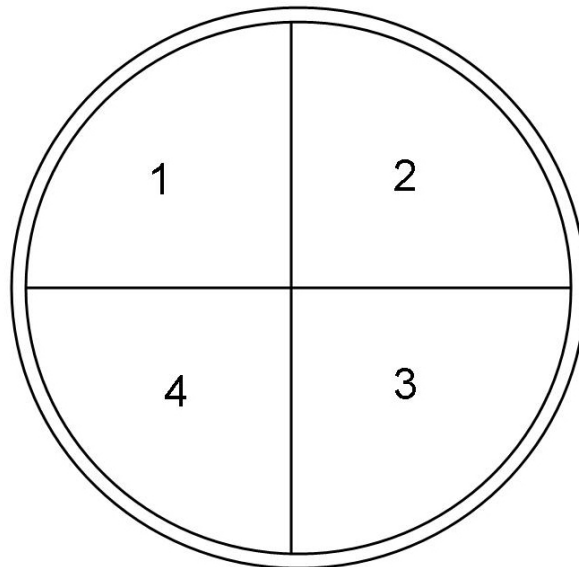


Figure 1. Diagram of a 500-µm USGS sieve marked into quarter fractions.

II. Subsampling and Sorting the Sample

In order to ensure that the subsample adequately represents the contents of the whole sample, a minimum of 200 organisms, if present, will be removed from the sample.

Procedure:

- A. Using the random table below (Fig. 2), the sorter will randomly pick one of the quarter fractions of the sample in the sieve to represent a minimum 25% subsample. To select the initial number of the fraction to sort, the sorter will look away from the random number table and then place their finger on a number. If additional fractions must be sorted, the sorter will use the next number down within the same column to select the next fraction. If that numbered fraction has already been sorted, then the sorter will move to the next number down the column.
- B. Using a putty knife or similar tool, the selected fraction contents are carefully scraped from the sieve. If the entire fraction is small, then place the subsampled fraction into a petri dish with either 70% ethyl alcohol or tap water. If the entire fraction is too large to fit in a petri dish, then place the fraction into a small white sorting pan containing water until all of the fraction can be sorted under a microscope. The bottom of the sieve in the area where the subsample was removed should then be carefully inspected using a hand lens to ensure that no invertebrates remain.

3	4	1	2
4	3	2	1
1	4	3	2
3	1	4	2
2	4	1	3
1	2	3	4
1	3	2	4
1	3	4	2
2	3	1	4
2	1	4	3
4	3	1	2
2	1	3	4
4	1	3	2
2	3	4	1
3	2	1	4
4	1	2	3
4	2	3	1
4	2	1	3

Figure 2. Randomly generated integer sequences between 1 and 4.

- C. All samples will be sorted using a large petri dish under a dissecting microscope with a minimum 10X magnification.
- D. As invertebrates are removed from the fraction and placed in a labeled vial with ethanol, they should be counted with a hand-held enumerator. The target number of organisms to obtain in a subsample for accurate representation of the whole sample is 200 organisms. When the fraction has been completely sorted and at least 195 (at least 97.5% of the 200 organism target) have been removed, no additional sorting is necessary. If less than 195 organisms were removed, the sorter should remove another randomly selected quarter fraction from the sieve, sort it entirely, and continue to count the organisms using the enumerator. This process is repeated until at least 195 organisms have been removed or the entire sample has been sorted.
- E. Always completely sort the removed sample fractions regardless of how many organisms are present (e.g., the first fraction removed possibly could contain 300 or more organisms).
- F. Counting damaged organisms: If a fragment includes the head, and, in the case of arthropods, the thorax, count the organism and place it in the vial. For oligochaetes, there may be several fragments. Place these fragments into the vial, but only count those that have a rounded end (i.e. anterior or posterior end). Organisms that have developed wings are typically not counted, except aquatic beetles (Elmidae, Dytiscidae, Hydrophilidae) and aquatic true bugs (Gerridae, Nepidae, Notonectidae). If the sorter is unsure, the organism should be placed in the vial but not counted on the enumerator.
- G. To assist with correctly sorting invertebrates from the sample, the sorter will review photos of typically collected taxa. These photos will be located in the HTLN aquatics laboratory at Missouri State University, Springfield, MO.
- H. Any invertebrates present in the subsampled fraction will be stored in a separate storage vial, preserved in 70% ethyl alcohol, and properly labeled (Fig 3).
 - a. The sorter should clearly indicate on the vial label the percent of sample sorted: 25, 50, 75, 100%.
 - b. **This information is transferred to the Aquatic Invertebrate Identification and Enumeration sheet by the person identifying the sample and is critical for estimating final benthic densities.** For example, to estimate density for the entire sample if only a quarter fraction (25%) is sorted, the number of specimens in this fraction must be multiplied by a factor of 4. Other fractions and their multiplication factors are: 2=2, 3= 1.33, 4=1.
- I. On a spreadsheet provided by the project manager, the sorter will record the percent subsampled and number of organisms picked for each sample. The sorter should bring up

any difficulties with sample sorting to the project manager who will note them on the Aquatic Invertebrate Identification & Enumeration Sheet (an example is located at the end of this SOP).

- J. Large and/or Rare: Additionally, a “large and/or rare” taxa component is included in the sample sorting process. These specimens will be used for reflecting accurate sample diversity estimates.
 - a. A large and/or rare additional taxa search will be completed on the remaining unsorted bulk sample following the subsample routine. Any organisms that were **clearly not** in the sorted subsampled portion(s) should be placed in a separate large and/or rare vial with a label (Fig 3).
 - b. NOTE: Just because a specimen is large does not mean it should be removed during this process. It must fit the criterion that it was not present in the subsample.
 - c. There may be several or no specimens for the large and/or rare vial depending on the sample.
 - d. Examples of possible large and/or rare organisms are: *Corydalis cornutus*, *Pteronarcys pickettii*, tabanids, tipulids, dragonfly larvae, crayfish, gordian worms, large beetles, other unusual species, etc.
- K. Once the subsampled fraction has been sorted with at least 195 organisms collected and large and rare has been conducted on the remaining unsorted fraction, the sorter places the unsorted sample back into the original container with the original labels (both inside and outside label) and 70% ethyl alcohol. An “X” is placed on the outside label of the container to note the sample has been sorted.

III. Sample preservation and Labeling

- A. In summary, there are two or three containers at the end of the sorting process:
 - a. original bulk jar with any materials not sorted
 - b. sorted invertebrates from the subsampled fraction(s) in a vial
 - c. large and/or rare vial (if applicable)
- B. All containers with sorted invertebrates or remaining bulk sample will be stored in 70-80% ethyl alcohol.
- C. Do not crowd the collected specimens excessively as it inhibits long term preservation. If there are a large number of specimens in the sorted subsampled fraction, then a second vial will be used. In this case, the sorter will create a second label with all the information in Fig 3 and add “1 of 2” and “2 of 2” on the labels for the sorted subsample vials.

D. Labels:

- a. Written only on rag bond paper in permanent water proof ink.
- b. Label data should include (see Fig 3):
 1. Park Name
 2. Site Name
 3. Riffle and Replicate (1.2.3; Left, Middle, Right)
 4. Sampling Date
 5. Collector Initials.
- c. Vial with subsampled fraction(s) must also include the percent subsampled
- d. Large and rare vial should be specifically labeled as such

Label Type

Sample Information

Original Field Sample:

Park Name: OZAR
Site Name: CURRM01
Riffle & Replicate: 2 Left
Collection Date: 12 Dec 2007
Collector initials: DEB, HRD

Bulk sample not sorted:
(placed back in original jar)

Park Name: OZAR
Site Name: CURRM01
Riffle & Replicate: 2 Left
Collection Date: 12 Dec 2007
Collector initials: DEB, HRD

Vial with sorted subsample:

Subsample: 25%
Park Name: OZAR
Riffle & Replicate: CURRM01
Transect: 2 Left
Collection Date: 12 Dec 2007
Collector initials: DEB, HRD

Vial with sorted Large and Rare:

LARGE & RARE
Park Name: OZAR
Site Name: CURRM01
Riffle & Replicate: 2 Left
Collection Date: 12 Dec 2007
Collector initials: DEB, HRD

Vial with Identified specimen:
(for reference collection)

Park Name: OZAR
Site Name: CURRM01
Riffle & Replicate: 2 Left
Collection Date: 12 Dec 2007
Taxon Name: Cheumatopsyche
Determined by: D.E. Bowles

Figure 3. Example specimen labels for each container used during the sorting process.

IV. Identification of Invertebrates

To the extent possible, all invertebrates should be identified to genus exclusive of the groups and selected conditions indicated below.

Procedure:

- A. Organisms should be placed in a large petri dish (with either 70% ethyl alcohol or tap water) under a dissecting microscope with at least 10X magnification.
- B. Taxonomic identification level: Most specimens will be identified to genus, when possible.
 - a. For some taxa only higher taxonomic levels can be obtained. For consistency among those identifying the samples, those taxa that will be left at higher taxonomic levels are listed in Table 1.
 - b. In most cases, much of the sample can be identified to the required level of genus or to the level in Table 1 for those specific taxa. However, samples may contain early instars or damaged specimens. In such cases, the specimen should be identified to the lowest level possible, which is typically family.

Table 1. Expected identification levels for taxa that are not required to be taken to genus level.

Phylum	Class	Order	Family
Nematoda			
Nematomorpha			
Annelida	Hirudinea	Branchiobdellida	
		Arhynchobdellida	Erpobdellidae, Hirudinidae
		Rhynchobdellida	Glossiphoniidae, Piscicolidae
Annelida	Oligochaeta		
Arthropoda	Arachnoidea	Trombiiformes	"Hydracarina"
Arthropoda	Crustacea	Ostracoda	
Arthropoda	Insecta	Diptera	Chironomidae

- C. If **damaged organisms** can be identified, they are counted **ONLY** if:
 - a. The fragment includes the head, and, in the case of arthropods, the thorax. For Oligochaetes, the person identifying the sample should pull all fragments in the sample to one area of the petri dish to match the anterior and posterior portions in order to count the number of oligochaetes.

- b. The mollusk shell (bivalve or gastropod) or caddisfly case is occupied by a specimen.
 - c. Damaged specimens may require identification to a higher taxonomic level, typically family.
- D. **Early instar or juvenile** specimens may require identification at a higher taxonomic level than mature specimens, typically family.
- E. Taxonomic keys and nomenclature: The primary keys will be Merritt *et al.* (2019) for identification of insects and Smith (2001) and Thorp and Covich (2016) for identification of non-insect invertebrates. Additional taxonomic references for specific groups *include* Bowles (2006), Bowles and Sites (2015), Brown (1972), Moulton and Stewart (1996), Pflieger (1996), Poulton and Stewart (1991) and Wiggins (1995). Accuracy of scientific names will be checked using the most recent keys for taxonomic identification (listed above) and relevant literature from experts in those taxa. A list of regional aquatic invertebrate taxa are listed in Table 2 at the end of this SOP.
- F. Using enumerators or using tallies on the Aquatic Invertebrate Identification & Enumeration Sheet (Fig. 4, located at the end of SOP), the total of each taxon for the sample is recorded. Final counts of each taxon should be entered on the sheet when a sample is complete (i.e., Tot Cnt column on enumeration sheet). All information from the sample label should be recorded on the top of the enumeration sheet along with the initials of the person identifying the specimens (i.e., determiner) and the date they were determined. The organisms from that sample are returned to their vial that contains the label and 70% ethyl alcohol. A “dot” is placed on the lid of the vial to denote the sample has been identified.
- G. Large and/or Rare samples are identified, and taxa counts are recorded on an enumeration sheet specifically labeled with “Large and Rare” (Fig 5, located at the end of SOP). All information from the sample label is record on the top of the enumeration sheet along with the determiner’s initial and date the sample was identified. The organisms from the Large and Rare sample are returned to their vial that contains the label and 70% ethyl alcohol. A “dot” is placed on the lid of the vial to denote the sample has been identified.

V. Reference Collection

Procedure:

- A. A reference collection is maintained at the HTLN aquatics lab stationed at Missouri State University, Springfield, MO. Identified specimens for the reference collection are stored in vials with 70% ethyl alcohol and labeled with (Fig 3):

Park Name
Site Name

Riffle and Replicate
Collection date
Taxon Name
Name of Determiner

- B. Regional or other taxonomist specialists should review the identifications of reference specimens for accuracy.

VI. QA/QC and Certification

Procedure:

Sample processing and sorting QA

The following QA/QC procedure (adapted from USEPA, 2004b) will be used on sorted invertebrate samples.

- A. Initially, a QA officer (Aquatic Program Leader, or experienced staff member certified in invertebrate sorting and identification) will use a microscope at 10x magnification to check **all sorted fractions from nine samples processed by a sorter collected at both a mainstem site and at a tributary site (18 samples) for one of the river parks**. This applies to:
- experienced sorters (at least a year of experience) who are new to processing HTLN samples and has not completed the QA/certification process
 - inexperienced sorters who have never sorted aquatic macroinvertebrate samples
- B. **Experienced staff:** Certification for experienced sorters will occur when sorters are consistent in achieving >90% sorting efficiency after at least nine consecutive samples have been checked for both a mainstem site and tributary site (18 samples are checked). Once certified, these experienced sorters no longer need to be checked and can now check sorting efficiency of others.
- If an experienced sorter fails to achieve >90% sorting efficiency in the nine samples at a site type (either mainstem or tributary), the next nine consecutive samples for that site type will undergo QA for certification until a total of nine samples reach >90% efficiency for that site type.
 - For example: A sorter achieves >90% on all nine samples from a mainstem site, therefore they no longer undergo QA for mainstem sites. The sorter achieves >90% on only 7 of 9 samples from a tributary site; therefore, the sorter will be checked on a second tributary site. If they receive >90% on the next two samples of that second tributary, then they are certified and no longer undergo QA for tributary sites.

- C. **Inexperienced staff:** For inexperienced sorters who reach 90% efficiency in the first nine samples of both a mainstem and tributary site (18 samples are checked), **six additional samples will undergo QA.** At least one sample from each of three mainstem sites and one sample from each of three tributary sites will be checked. If an inexperienced sorter maintains >90% efficiency for these six samples (3 mainstem and 3 tributary), they become certified and no longer need checked for sorting efficiency of river samples.
- a. Similar to experienced sorters, if an inexperienced sorter fails to achieve >90% sorting efficiency in the first nine samples at a site type (either the 9 mainstem or 9 tributary samples), the next nine consecutive samples sorted for that site type will undergo QA until a total of nine samples reach >90%.
 - b. If an inexperienced sorter achieves >90% on the first nine samples for a site type, but fails to reach >90% on the three additional samples, the sorter will be checked until a total of three samples for a site type reaches the efficiency criteria.
 - i. For example, a sorter achieves >90% on all nine samples from a mainstem site and all nine samples from a tributary site. The sorter also achieves >90% on the three additional mainstem samples, but fails to achieve >90% on the three additional tributary samples. This inexperienced sorter no longer undergoes QA for mainstem sites, but continues to undergo QA for tributaries until three samples reach the sorting efficiency criteria.

- D. The QA officer will calculate percent sorting efficiency (PSE) for each sample as follows:

$$\text{PSE} = A/(A+B) (100)$$

where A = number of organisms found by the primary sorter, and B = number of recoveries (organisms missed by the primary sort and found by the QC check).

Sorting efficiency should not be calculated for samples processed by more than one individual.

- E. **QA of Subsample:** As the sorter is processing the subsampled fraction, each petri dish used to sort the subsample will be checked by the QA officer. If the amount of organics in the subsample is large, the sorter may use several petri dishes in order to sort the specimens from the smaller organic debris or vegetation. The QA officer will keep a running record of the number of specimens missed by the sorter for the entire subsampled fraction to calculate sorting efficiency. Once the QA officer has checked the petri dish, the contents can be discarded.

- F. QA of Large and Rare: The QA officer will use a hand lens to scan the remaining unsorted sample. This is completed to check the sorter's Large and Rare sample vial for any missed organisms. In order to complete this QA, the sorted subsample vial and the Large and Rare vial (if applicable) that was completed by the sorter will need to be examined by the QA officer to ensure that any specimens remaining in the unsorted sample are not present in these vials.

Specimen Identification QA

- A. A QA officer (i.e., Program Leader or staff member certified in identification) will QA samples of both inexperienced and experienced individuals conducting identifications of invertebrate samples. Experienced individuals are those who have taxonomic identification skills (at least one year of experience) but new to samples collected within OZAR and BUFF and have not completed the identification certification process described below.
- B. For certification, percent similarity between the identification of the experienced or inexperienced individual and the QA officer must exceed 90% for each site type (mainstem and tributary) for each river park (BUFF and OZAR) as described below and in Table 3.
- a. **Experienced staff**: nine consecutive samples from one mainstem site and one tributary site for both BUFF and OZAR will be checked. If the nine consecutive samples reach 90% criteria for that site type (mainstem or tributary) and park:
 - i. one sample per site will be checked for all remaining mainstem sites and tributary sites at the park.
 - b. **Inexperienced staff**: nine consecutive samples from one mainstem site and one tributary site for both BUFF and OZAR will be checked. If the nine consecutive samples reach 90% criteria for that site type (mainstem or tributary)
 - i. one sample per riffle (i.e., 3 samples per site) will be checked for all remaining mainstem sites at the park.
- C. If an individual fails to maintain a >90% identification similarity during the nine consecutive samples for a site type at a park, then QC will be performed on additional samples of that site type until a total of nine consecutive samples reach the criteria. During the QA checks on the additional samples (one per site for experienced staff and three per site for inexperienced staff), if the individual fails to maintain >90% identification similarity, the sorter will be checked on additional samples until they reach the criteria for the number of samples outlined in Table 3.

- D. If any specimens are incorrectly identified, all specimens assigned to that taxon will be reexamined.
- E. If a taxon is especially difficult to identify or has not been collected from the park previously, the specimen will be identified by multiple certified determiners. If all determiners agree, the specimen is recorded as such on the identification sheet. If there is disagreement among determiners, then the specimen will be sent to a person with taxonomic expertise in invertebrates of the region. It is also important that the taxonomist maintains contact with other taxonomists through professional societies and other interactions, and stays current with the pertinent published literature.

Park and Site Type	Experienced Staff Sample QA (N)	Inexperienced Staff Sample QA (N)
BUFF		
6 Mainstem	9 consecutive samples 1 per remaining site (14)	9 consecutive samples 1 per riffle per remaining site (24)
7 Tributary	9 consecutive samples 1 per remaining site (15)	9 consecutive samples 1 per riffle per remaining site (27)
OZAR		
9 Mainstem	9 consecutive samples 1 per remaining site (17)	9 consecutive samples 1 per riffle per remaining site (33)
4 Tributary	9 consecutive samples 1 per remaining site (12)	9 consecutive samples 1 per riffle per remaining site (18)
Total Number of QA Samples	58	102

Table 3. Number of samples that will undergo taxa identification quality assurance for each site type at each park for both experienced and inexperienced staff.

VII. Bulk sample disposition

When the sample is finished, return the remainder of the bulk sample to its original container with its original label and old alcohol, and return to storage. Mark the top with an X or other mark to identify the sample as one that has been picked. These samples will be subjected to a QA/QC analysis by the Program Leader.

VIII. References

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Percent subsampled: ☐ 25% ☐ 50% ☐ 75% ☐ 100%

TOTAL COUNT:

Figure 4. Aquatic Invertebrate Identification and Enumeration sheet for subsample.

LARGE & RARE

Aquatic Invertebrate Identification & Enumeration Sheet

Page 1 of 1

Site Name/No.: _____ County: _____
 Riffle & Rep: _____ State: _____
 Sample date: _____ Date of Det: _____
 Collectors Initials: _____ Determiner(s): _____

ORDER (or higher)	FAMILY	GENUS	SPECIES	TALLEY/COUNT	Tot Cnt	RC
Diptera						
Coleoptera						
Ephemeroptera						
Plecoptera						
Trichoptera						
Other						
				TOTAL COUNT:		

Figure 5. Aquatic Invertebrate Identification and Enumeration sheet for Large and Rare.

Table 2. Regional list of aquatic invertebrate taxa with tolerance values (TV) and functional feeding groups (FFG). Funtional feeding groups include: C = Collector, F = Filterer, He = Herbivore, Pa = Parasite, Pr = Predator, Sc = Scrapper, Sh = Shredder.

Phylum	Class	Order	Family	Genus/Species	TV	FFG
Annelida	Hirudinea				10	Ca, Pa, Pr
Annelida	Hirudinea	Branchiobdellida			6	C
Annelida	Hirudinea	Arhynchobdellida	Erpobdellidae		7.8	Pa
Annelida	Hirudinea	Rhynchobdellida	Glossiphoniidae		7	Pr
Annelida	Hirudinea	Rhynchobdellida	Glossiphoniidae	<i>Glossophonia complanata</i>		
Annelida	Hirudinea	Rhynchobdellida	Glossiphoniidae	<i>Helobdella triserialis</i>	8.9	
Annelida	Hirudinea	Rhynchobdellida	Glossiphoniidae	<i>Placobdella ornate</i>		
Annelida	Hirudinea	Rhynchobdellida	Glossiphoniidae	<i>Placobdella parasitica</i>	6.6	C
Annelida	Hirudinea	Rhynchobdellida	Piscicolidae			Pa
Annelida	Hirudinea	Rhynchobdellida	Piscicolidae	<i>Pisciola punctate</i>		Pa
Annelida	Oligochaeta				8	C
Annelida	Oligochaeta	Haplotaxida	Haplotaxidae	<i>Haplotaxis</i>		C
Annelida	Oligochaeta	Lumbricina	Lumbricidae		7.3	C
Annelida	Oligochaeta	Lumbriculida	Lumbriculidae	<i>Lumbriculus variegatus</i>	8	C
Annelida	Oligochaeta	Tubificida	Enchytraeidae		10	C
Annelida	Oligochaeta	Tubificida	Tubificidae		9.2	C
Annelida	Oligochaeta	Tubificida	Tubificidae	<i>Aulodrilus</i>	8	C
Annelida	Oligochaeta	Tubificida	Tubificidae	<i>Branchiura sowerbyi</i>	8.4	C
Annelida	Oligochaeta	Tubificida	Tubificidae	<i>Ilyodrilus templetoni</i>	9.4	C
Annelida	Oligochaeta	Tubificida	Tubificidae	<i>Limnodrilus</i>	9	C
Annelida	Oligochaeta	Tubificida	Tubificidae	<i>Potomothrix bavaricus</i>		C
Annelida	Oligochaeta	Tubificida	Tubificidae	<i>Quistadrilus multisetosus</i>	10	C
Annelida	Oligochaeta	Tubificida	Tubificidae	<i>Tubifex tubifex</i>	10	C
Arthropoda	Arachnoidea	Hydracarina		“Acarina”	5.7	Pa, Pr
Arthropoda	Crustacea	Amphipoda	Allocrangonyctidae	<i>Allocrangonyx</i>		C
Arthropoda	Crustacea	Amphipoda	Allocrangonyctidae	<i>Allocrangonyx hubrichtti</i>		C
Arthropoda	Crustacea	Amphipoda	Crangonyctidae	<i>Baettrurus</i>		C
Arthropoda	Crustacea	Amphipoda	Crangonyctidae	<i>Baettrurus brachycaudus</i>		C
Arthropoda	Crustacea	Amphipoda	Crangonyctidae	<i>Crangonyx</i>	8	C
Arthropoda	Crustacea	Amphipoda	Crangonyctidae	<i>Crangonyx forbesi</i>		C
Arthropoda	Crustacea	Amphipoda	Crangonyctidae	<i>Stygobromus</i>		C
Arthropoda	Crustacea	Amphipoda	Crangonyctidae	<i>Stygobromus albamensis albamensis</i>		C
Arthropoda	Crustacea	Amphipoda	Crangonyctidae	<i>Stygobromus onandagensis</i>		C
Arthropoda	Crustacea	Amphipoda	Crangonyctidae	<i>Stygobromus ozarkensis</i>		C
Arthropoda	Crustacea	Amphipoda	Crangonyctidae	<i>Stygonectes</i>		C
Arthropoda	Crustacea	Amphipoda	Crangonyctidae	<i>Synurella</i>		C
Arthropoda	Crustacea	Amphipoda	Gammaridae	<i>Gammarus</i>	6.9	C
Arthropoda	Crustacea	Amphipoda	Gammaridae	<i>Gammarus fasciatus</i>	6.9	C
Arthropoda	Crustacea	Amphipoda	Gammaridae	<i>Gammarus minus</i>		C
Arthropoda	Crustacea	Amphipoda	Gammaridae	<i>Gammarus pseudolimnaeus</i>		C
Arthropoda	Crustacea	Amphipoda	Gammaridae	<i>Gammarus pulex</i>		C
Arthropoda	Crustacea	Amphipoda	Gammaridae	<i>Gammarus troglophilus</i>		C
Arthropoda	Crustacea	Amphipoda	Hyalellidae	<i>Hyalella azteca</i> Sassure	7.9	C
Arthropoda	Crustacea	Isopoda	Asellidae	<i>Caecidotea (blind & unpigmented)</i>		C
Arthropoda	Crustacea	Isopoda	Asellidae	<i>Caecidotea (epigean)</i>	8	C
Arthropoda	Crustacea	Isopoda	Asellidae	<i>Caecidotea antricola</i>		C
Arthropoda	Crustacea	Isopoda	Asellidae	<i>Caecidotea brevicauda</i>		C
Arthropoda	Crustacea	Isopoda	Asellidae	<i>Caecidotea ancyla</i>		C
Arthropoda	Crustacea	Isopoda	Asellidae	<i>Caecidotea dimorpha</i>		C
Arthropoda	Crustacea	Isopoda	Asellidae	<i>Caecidotea foxi</i>		C

Arthropoda	Crustacea	Isopoda	Asellidae	<i>Caecidotea fustis</i>		C
Arthropoda	Crustacea	Isopoda	Asellidae	<i>Caecidotea salemensis</i>		C
Arthropoda	Crustacea	Isopoda	Asellidae	<i>Caecidotea serrata</i>		C
Arthropoda	Crustacea	Isopoda	Asellidae	<i>Caecidotea stygia</i>		C
Arthropoda	Crustacea	Isopoda	Asellidae	<i>Lirceus garmani</i>	7.7	C
Arthropoda	Crustacea	Isopoda	Asellidae	<i>Lirceus hoppinae</i>	7.7	C
Arthropoda	Crustacea	Isopoda	Cylistidae	<i>Cylisticus convexus</i>		C
Arthropoda	Crustacea	Isopoda	Porcellionidae	<i>Metropothonus</i>		C
Arthropoda	Crustacea	Isopoda	Porcellionidae	<i>Porcellio</i>		C
Arthropoda	Crustacea	Isopoda	Trichoniscidae	<i>Caucasonethes</i>		C
Arthropoda	Crustacea	Isopoda	Trichoniscidae	<i>Miktoniscus</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Cambarellus puer</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Cambarellus shufeldtii</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Cambarus</i>	8.1	C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Cambarus diogenes diogenes</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Cambarus hubbsi</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Cambarus hubrichti</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Cambarus maculatus</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Cambarus setosus</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Fallicambarus fodiens</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Faxonella clypeata</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes</i>	2.7	C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes eupunctus</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes harrisonii</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes hylas</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes immunis</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes lancifer</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes longidigitus</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes luteus</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes macrus</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes marchandi</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes medius</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes meeki</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes neglectus</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes neglectus</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes neglectus neglectus</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes ozarkae</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes palmeri palmeri</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes peruncus</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes punctimanus</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes quadruncus</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes rusticus</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes virilis</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Orconectes williamsi</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Procambarus</i>	9.5	C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Procambarus acutus acutus</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Procambarus clarkii</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Procambarus gracilis</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Procambarus liberorum</i>		C
Arthropoda	Crustacea	Decapoda	Cambaridae	<i>Procambarus viaeveridus</i>		C
Arthropoda	Crustacea	Decapoda	Palaemonidae	<i>Palaemonetes kadiakensis</i>	6.7	C
Arthropoda	Insecta	Collembola	Entomobryidae			C
Arthropoda	Insecta	Collembola	Isotomidae			C
Arthropoda	Insecta	Collembola	Sminthuridae			C
Arthropoda	Insecta	Coleoptera	Dryopidae	<i>Helichus</i>	5.4	C, Se

Arthropoda	Insecta	Coleoptera	Dryopidae	<i>Helichus basalis</i>	5.5	C, Sc
Arthropoda	Insecta	Coleoptera	Dryopidae	<i>Helichus fastigiatus</i>	5.5	C, Sc
Arthropoda	Insecta	Coleoptera	Dryopidae	<i>Helichus lithophilus</i>	5.5	C, Sc
Arthropoda	Insecta	Coleoptera	Dryopidae	<i>Helichus striatus</i>	4.6	C, Sc
Arthropoda	Insecta	Coleoptera	Dryopidae	<i>Acilius</i>		C, Sc
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Agabus</i>	5	Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Agabus amplius</i>		Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Brachyvatus</i>		Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Copelatus</i>	9.1	Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Coptotomus interrogatus</i>	9	Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Coptotomus</i>		Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Cybister</i>	4.6	Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Desmopachria</i>	3.7	Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Dytiscus</i>	3.7	Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Graphoderus</i>	3.7	Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Hoperius</i>		Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Hydaticus</i>	5	Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Hydroporus</i>	8.9	Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Hydroporus niger</i>		Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Hydroporus pulcher</i>		Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Hydroporus undulates</i>		Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Hydroporus vilis</i>		Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Hydrovatus</i>	3.7	Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Hygrotus</i>	1.9	Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Ilybius</i>	3.7	Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Laccophilus</i>	10	Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Liodessus</i>		Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Oreodytes</i>	4.6	Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Rhantus</i>	3.7	Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Thermonectus</i>	3.7	Pr
Arthropoda	Insecta	Coleoptera	Dytiscidae	<i>Uvarus</i>	4.6	Pr
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Ancyronyx variegata</i>	6.9	C, Sc
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Dubiraphia</i>	6.4	C
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Dubiraphia vittata</i>		C
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Gonielmis dietrichi</i>		C
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Heterelmis</i>		C
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Macronychus glabratus</i>	4.7	C
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Microcylloepus</i>	2.1	C
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Microcylloepus pusillus</i>		C
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Optioservus</i>	2.7	C, Sc
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Optioservus immunis</i>		C, Sc
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Optioservus ozarkensis</i>		C, Sc
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Stenelmis</i>	5.4	C, Sc
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Stenelmis beameri</i>	4.6	C, Sc
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Stenelmis bicarinata</i>	5	C, Sc
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Stenelmis cheryl</i>	5.5	C, Sc
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Stenelmis convexula</i>		C, Sc
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Stenelmis crenata</i>	5.5	C, Sc
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Stenelmis decorata</i>	5.5	C, Sc
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Stenelmis exigua</i>	5.5	C, Sc
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Stenelmis exilis</i>	5	C, Sc
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Stenelmis grossa</i>		C, Sc
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Stenelmis knobeli</i>		C, Sc
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Stenelmis lateralis</i>	4.6	C, Sc
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Stenelmis lignicola</i>		C, Sc

Arthropoda	Insecta	Coleoptera	Elmidae	<i>Stenelmis mera</i>		C, Sc
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Stenelmis sandersoni</i>	5.5	C, Sc
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Stenelmis sexlineata</i>	6.4	C, Sc
Arthropoda	Insecta	Coleoptera	Elmidae	<i>Stenelmis xylonastis</i>		C, Sc
Arthropoda	Insecta	Coleoptera	Gyrinidae	<i>Dineutus</i>	5.5	Pr
Arthropoda	Insecta	Coleoptera	Gyrinidae	<i>Gyretes</i>	3.7	Pr
Arthropoda	Insecta	Coleoptera	Gyrinidae	<i>Gyrinus</i>	6.3	Pr
Arthropoda	Insecta	Coleoptera	Haliplidae	<i>Haliphus</i>	5	
Arthropoda	Insecta	Coleoptera	Haliplidae	<i>Peltodytes</i>	8.5	He
Arthropoda	Insecta	Coleoptera	Helophoridae	<i>Helophorus</i>	7.9	Sh
Arthropoda	Insecta	Coleoptera	Heteroceridae	<i>Heterocerus</i>		
Arthropoda	Insecta	Coleoptera	Hydraenidae		6	C, Sc
Arthropoda	Insecta	Coleoptera	Hydraenidae	<i>Hydraena</i>		C, Sc
Arthropoda	Insecta	Coleoptera	Hydraenidae	<i>Ochthebus</i>		C, Sc
Arthropoda	Insecta	Coleoptera	Hydrochidae		5	Sh
Arthropoda	Insecta	Coleoptera	Hydrochidae	<i>Hydrochus</i>	4.6	Sh
Arthropoda	Insecta	Coleoptera	Hydrophilidae	<i>Berosus</i>	8.6	He, C
Arthropoda	Insecta	Coleoptera	Hydrophilidae	<i>Chaetarthria</i>	5.5	C, Pr
Arthropoda	Insecta	Coleoptera	Hydrophilidae	<i>Crenitis</i>		C, Pr
Arthropoda	Insecta	Coleoptera	Hydrophilidae	<i>Cymbiodyta</i>	5.5	C, Pr
Arthropoda	Insecta	Coleoptera	Hydrophilidae	<i>Dibolocelus</i>	5.5	C, Pr
Arthropoda	Insecta	Coleoptera	Hydrophilidae	<i>Enochrus</i>	8.5	C, Pr
Arthropoda	Insecta	Coleoptera	Hydrophilidae	<i>Helobata</i>		
Arthropoda	Insecta	Coleoptera	Hydrophilidae	<i>Helochares</i>	5	C, Pr
Arthropoda	Insecta	Coleoptera	Hydrophilidae	<i>Helocombus</i>	5.5	C, Pr
Arthropoda	Insecta	Coleoptera	Hydrophilidae	<i>Hydrobius</i>	5	C, Pr
Arthropoda	Insecta	Coleoptera	Hydrophilidae	<i>Hydrochara</i>	6	C
Arthropoda	Insecta	Coleoptera	Hydrophilidae	<i>Hydrophilus</i>	4.6	C, Pr
Arthropoda	Insecta	Coleoptera	Hydrophilidae	<i>Laccobius</i>	8	C, Pr
Arthropoda	Insecta	Coleoptera	Hydrophilidae	<i>Paracymus</i>	7.3	C, Pr
Arthropoda	Insecta	Coleoptera	Hydrophilidae	<i>Sperchopsis</i>	6.5	C, Pr
Arthropoda	Insecta	Coleoptera	Hydrophilidae	<i>Tropisternus</i>	9.8	C, Pr
Arthropoda	Insecta	Coleoptera	Lutrochidae	<i>Lutrochus</i>	2.75	
Arthropoda	Insecta	Coleoptera	Lutrochidae	<i>Lutrochus laticeps</i>		
Arthropoda	Insecta	Coleoptera	Noteridae	<i>Hydrocanthus</i>	6.9	Pr
Arthropoda	Insecta	Coleoptera	Noteridae	<i>Suphisellus</i>		Pr
Arthropoda	Insecta	Coleoptera	Psephenidae	<i>Ectopria nervosa</i>	4.3	Sc
Arthropoda	Insecta	Coleoptera	Psephenidae	<i>Psephenus herricki</i>	2.5	Sc
Arthropoda	Insecta	Coleoptera	Salpingidae	<i>Cyphon</i>		Sh
Arthropoda	Insecta	Coleoptera	Scirtidae	<i>Prioocyphon</i>	5	Sh
Arthropoda	Insecta	Coleoptera	Scirtidae	<i>Scirtes</i>	5	Sh
Arthropoda	Insecta	Diptera	Athericidae	<i>Atherix</i>	2.1	Pr
Arthropoda	Insecta	Diptera	Ceratopogonidae		6	C, Pr, Sc
Arthropoda	Insecta	Diptera	Ceratopogonidae	<i>Bezzia</i>		Pr
Arthropoda	Insecta	Diptera	Ceratopogonidae	<i>Culicoides</i>		C, Pr
Arthropoda	Insecta	Diptera	Ceratopogonidae	<i>Mallochohelea</i>		Pr
Arthropoda	Insecta	Diptera	Ceratopogonidae	<i>Palpomyia</i>		C, Pr
Arthropoda	Insecta	Diptera	Ceratopogonidae	<i>Probezzia</i>	6	Pr
Arthropoda	Insecta	Diptera	Ceratopogonidae	<i>Serromyia</i>	6	Pr
Arthropoda	Insecta	Diptera	Ceratopogonidae	<i>Stilobezzia</i>	6	Pr
Arthropoda	Insecta	Diptera	Ceratopogonidae	<i>Dasyhelea</i>	6	C, Sc
Arthropoda	Insecta	Diptera	Ceratopogonidae	<i>Atrichopogon</i>	6	C
Arthropoda	Insecta	Diptera	Chaoboridae	<i>Chaoborus</i>	8.5	Pr
Arthropoda	Insecta	Diptera	Chaoboridae	<i>Eucorethea underwoodi</i>	6	Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Acalcarella</i>		C

Arthropoda	Insecta	Diptera	Chironomidae	<i>Apedilum</i>		
Arthropoda	Insecta	Diptera	Chironomidae	<i>Axarus</i>	6	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Chironomus</i>	9.8	C, Sh
Arthropoda	Insecta	Diptera	Chironomidae	<i>Cladopelma</i>	2.5	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Cladotanytarsus</i>	3.7	C, F
Arthropoda	Insecta	Diptera	Chironomidae	<i>Cladotanytarsus (Cladotanytarsus)</i>	3.7	C, F
Arthropoda	Insecta	Diptera	Chironomidae	<i>Cladotanytarsus (Lenziella)</i>	5.5	C, F
Arthropoda	Insecta	Diptera	Chironomidae	<i>Constempellina</i>	4	C, F
Arthropoda	Insecta	Diptera	Chironomidae	<i>Cryptochironomus</i>	7.4	Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Cryptotendipes</i>	6.1	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Demicryptochironomus</i>	2.1	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Dicrotendipes</i>	7.9	C, F
Arthropoda	Insecta	Diptera	Chironomidae	<i>Endochironomus</i>	7.5	C, Sh
Arthropoda	Insecta	Diptera	Chironomidae	<i>Endotribelos</i>		
Arthropoda	Insecta	Diptera	Chironomidae	<i>Glyptotendipes</i>	8.5	C, Sh
Arthropoda	Insecta	Diptera	Chironomidae	<i>Goeldichironomus</i>	9	
Arthropoda	Insecta	Diptera	Chironomidae	<i>Harnischia</i>	7.5	
Arthropoda	Insecta	Diptera	Chironomidae	<i>Hyporhygma</i>		Sh
Arthropoda	Insecta	Diptera	Chironomidae	<i>Kiefferulus</i>	10	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Lauterborniella</i>	5.5	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Lipiniella</i>		C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Microchironomus</i>	8	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Micropsectra</i>	1.4	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Microtendipes</i>	6.2	C, F
Arthropoda	Insecta	Diptera	Chironomidae	<i>Nilothauma</i>	5.5	
Arthropoda	Insecta	Diptera	Chironomidae	<i>Omisus</i>		
Arthropoda	Insecta	Diptera	Chironomidae	<i>Pagastiella</i>	2.6	
Arthropoda	Insecta	Diptera	Chironomidae	<i>Parachironomus</i>	9.2	C, Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Paracladopelma</i>	4.8	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Paralauterborniella</i>	8	
Arthropoda	Insecta	Diptera	Chironomidae	<i>Paratanytarsus</i>	7.7	C, F
Arthropoda	Insecta	Diptera	Chironomidae	<i>Paratendipes</i>	5.3	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Phaenopsectra</i>	6.2	C, Sc
Arthropoda	Insecta	Diptera	Chironomidae	<i>Polypedilum</i>	7.4	C, Sh
Arthropoda	Insecta	Diptera	Chironomidae	<i>Pseudochironomus</i>	4.2	Co
Arthropoda	Insecta	Diptera	Chironomidae	<i>Rheotanytarsus</i>	6.4	Fi
Arthropoda	Insecta	Diptera	Chironomidae	<i>Robackia</i>	3.4	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Saetheria</i>	8.1	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Stelechomyia</i>	4.6	
Arthropoda	Insecta	Diptera	Chironomidae	<i>Stempellina</i>	2	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Stempellinella</i>	5.3	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Stenochironomus</i>	6.4	C, Sh
Arthropoda	Insecta	Diptera	Chironomidae	<i>Stictochironomus</i>	6.7	C, Sh
Arthropoda	Insecta	Diptera	Chironomidae	<i>Sublettea</i>	1.7	C, F
Arthropoda	Insecta	Diptera	Chironomidae	<i>Tanytarsus</i>	6.7	C, F
Arthropoda	Insecta	Diptera	Chironomidae	<i>Thienemanniola</i>		
Arthropoda	Insecta	Diptera	Chironomidae	<i>Tribelos</i>	6.6	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Xenochironomus</i>	7	Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Zavreliella</i>	7	
Arthropoda	Insecta	Diptera	Chironomidae	<i>Diamesa</i>	7.7	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Potthastia</i>	4.7	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Pseudodiamesa</i>	4.6	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Sympotthastia</i>	5.7	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Syndiamesa</i>		C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Brillia</i>	5.2	C, Sh

Arthropoda	Insecta	Diptera	Chironomidae	<i>Cardiocladius</i>	6.2	Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Corynoneura</i>	6.2	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Cricotopus bicintus</i>	8.7	C, Sh
Arthropoda	Insecta	Diptera	Chironomidae	<i>Cricotopus/Orthocladius</i>	6.5	C, Sh
Arthropoda	Insecta	Diptera	Chironomidae	<i>Diplocladius</i>	7.7	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Epoicocladius</i>	4	C, Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Eukiefferiella</i>	4	C, Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Heterotrissocladius</i>	5.4	C, Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Hydrobaenus</i>	9.6	C, Sc
Arthropoda	Insecta	Diptera	Chironomidae	<i>Krenosmittia</i>		
Arthropoda	Insecta	Diptera	Chironomidae	<i>Lymnophyes</i>	8	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Mesocricotopus</i>		C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Mesosmittia</i>	7	
Arthropoda	Insecta	Diptera	Chironomidae	<i>Nanocladius</i>	7.2	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Oliveridia</i>		
Arthropoda	Insecta	Diptera	Chironomidae	<i>Orthocladius (Euorthocladius)</i>	6.3	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Orthocladius (Symposiocladius)</i>	5.4	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Parakiefferiella</i>	5.9	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Parametriocnemus</i>	3.7	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Paraphaenocladius</i>	4	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Parorthocladius</i>		C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Psectrocladius</i>	3.8	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Pseudorthocladius</i>		C, Sh
Arthropoda	Insecta	Diptera	Chironomidae	<i>Pseudosmittia</i>	4	
Arthropoda	Insecta	Diptera	Chironomidae	<i>Rheocricotopus</i>	7.3	C, Sh
Arthropoda	Insecta	Diptera	Chironomidae	<i>Smittia</i>	4	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Synorthocladius</i>	4.7	
Arthropoda	Insecta	Diptera	Chironomidae	<i>Thienemanniella</i>	6	
Arthropoda	Insecta	Diptera	Chironomidae	<i>Tvetenia</i>	4	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Xylotopus</i>	6.6	Sh
Arthropoda	Insecta	Diptera	Chironomidae	<i>Monodiamesa</i>	7	C
Arthropoda	Insecta	Diptera	Chironomidae	<i>Ablabesmyia</i>	6.4	Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Clinotanypus</i>	9.1	Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Coelotanypus</i>	6.2	Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Djalmabatista</i>	6.4	Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Krenopelopia</i>		Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Labrundinia</i>	5.3	Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Larsia</i>	83	Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Monopelopia</i>		Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Natarsia</i>	8	Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Nilotanypus</i>	6	Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Paramerina</i>	2.8	Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Pentaneura</i>	4.6	Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Procladius</i>	9.3	Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Psectrotanypus</i>	10	Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Tanypus</i>	9.6	Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Thienemannimyia</i> grp.	6	Pr
Arthropoda	Insecta	Diptera	Chironomidae	<i>Zavrelymia</i>	9.3	Pr
Arthropoda	Insecta	Diptera	Culicidae	<i>Aedes</i>	5.5	Pr
Arthropoda	Insecta	Diptera	Culicidae	<i>Anopheles</i>	9.1	Fi
Arthropoda	Insecta	Diptera	Culicidae	<i>Culex</i>	10	Fi
Arthropoda	Insecta	Diptera	Culicidae	<i>Culiseta</i>	5.5	C, F
Arthropoda	Insecta	Diptera	Culicidae	<i>Mansonia</i>		C, F
Arthropoda	Insecta	Diptera	Dixidae	<i>Dixa</i>	2.8	C, Pr
Arthropoda	Insecta	Diptera	Dixidae	<i>Dixella</i>		C

Arthropoda	Insecta	Diptera	Dolichopodidae		9.7	Pr
Arthropoda	Insecta	Diptera	Empididae		6	C/Pr
Arthropoda	Insecta	Diptera	Empididae	<i>Chelifera</i>	6	Pr
Arthropoda	Insecta	Diptera	Empididae	<i>Clinocera</i>	6	Pr
Arthropoda	Insecta	Diptera	Empididae	<i>Hemerodromia</i>	6	C, Pr
Arthropoda	Insecta	Diptera	Empididae	<i>Neoplasta</i>	6	
Arthropoda	Insecta	Diptera	Empididae	<i>Rhamphomyia</i>		Pr
Arthropoda	Insecta	Diptera	Empididae	<i>Roederiodes</i>		Pr
Arthropoda	Insecta	Diptera	Ephydriidae		5.5	C, Sh
Arthropoda	Insecta	Diptera	Muscidae		6	Pr
Arthropoda	Insecta	Diptera	Phoridae	<i>Megaselia</i>	6	Pr
Arthropoda	Insecta	Diptera	Psychodidae	<i>Pericoma</i>	4	C
Arthropoda	Insecta	Diptera	Psychodidae	<i>Psychoda</i>	9.9	C
Arthropoda	Insecta	Diptera	Psychodidae	<i>Telmatoscopus</i>		C
Arthropoda	Insecta	Diptera	Scathophagidae			He, Sh
Arthropoda	Insecta	Diptera	Sciomyzidae			Pr
Arthropoda	Insecta	Diptera	Simuliidae		3.5	F
Arthropoda	Insecta	Diptera	Simuliidae	<i>Cnephia</i>	4	F
Arthropoda	Insecta	Diptera	Simuliidae	<i>Prosimulium</i>	2.6	F
Arthropoda	Insecta	Diptera	Simuliidae	<i>Simulium</i>	4.4	F
Arthropoda	Insecta	Diptera	Simuliidae	<i>Simulium luggeri</i>		F
Arthropoda	Insecta	Diptera	Simuliidae	<i>Simulium venustum</i>		F
Arthropoda	Insecta	Diptera	Simuliidae	<i>Stegapterna</i>	5	F
Arthropoda	Insecta	Diptera	Stratiomyidae		8	C, Sc
Arthropoda	Insecta	Diptera	Stratiomyidae	<i>Allognosta</i>		
Arthropoda	Insecta	Diptera	Stratiomyidae	<i>Caloparyphus</i>		C
Arthropoda	Insecta	Diptera	Stratiomyidae	<i>Euparyphus</i>		C, Sc
Arthropoda	Insecta	Diptera	Stratiomyidae	<i>Myxosargus</i>		C
Arthropoda	Insecta	Diptera	Stratiomyidae	<i>Nemotelus</i>	7.3	C
Arthropoda	Insecta	Diptera	Stratiomyidae	<i>Odontomyia</i>	7.3	C
Arthropoda	Insecta	Diptera	Stratiomyidae	<i>Oxycera</i>		Sc
Arthropoda	Insecta	Diptera	Stratiomyidae	<i>Stratiomys</i>	7.3	C
Arthropoda	Insecta	Diptera	Syrphidae		8.25	C
Arthropoda	Insecta	Diptera	Tabanidae	<i>Chrysops</i>	7.3	Pr
Arthropoda	Insecta	Diptera	Tabanidae	<i>Hybomitra</i>		Pr
Arthropoda	Insecta	Diptera	Tabanidae	<i>Silvius</i>		Pr
Arthropoda	Insecta	Diptera	Tabanidae	<i>Tabanus</i>	9.7	Pr
Arthropoda	Insecta	Diptera	Tanyderidae	<i>Protoplasa fitchii</i>	3	
Arthropoda	Insecta	Diptera	Tipulidae	<i>Antocha</i>	4.6	C
Arthropoda	Insecta	Diptera	Tipulidae	<i>Cryptolabis</i>		
Arthropoda	Insecta	Diptera	Tipulidae	<i>Dactylolabis</i>	3.7	C, Sh
Arthropoda	Insecta	Diptera	Tipulidae	<i>Dicranota</i>	0	Pr
Arthropoda	Insecta	Diptera	Tipulidae	<i>Erioptera</i>	5.5	C
Arthropoda	Insecta	Diptera	Tipulidae	<i>Gonomyia</i>	5.5	C
Arthropoda	Insecta	Diptera	Tipulidae	<i>Holorusia</i>		Sh
Arthropoda	Insecta	Diptera	Tipulidae	<i>Hexatoma</i>	4.7	Pr
Arthropoda	Insecta	Diptera	Tipulidae	<i>Limnophila</i>	4.6	Pr
Arthropoda	Insecta	Diptera	Tipulidae	<i>Limonia</i>	10	Sh
Arthropoda	Insecta	Diptera	Tipulidae	<i>Lipsothrix</i>		Sh
Arthropoda	Insecta	Diptera	Tipulidae	<i>Molophilus</i>	4	
Arthropoda	Insecta	Diptera	Tipulidae	<i>Ormosia</i>	4.6	C
Arthropoda	Insecta	Diptera	Tipulidae	<i>Paradelphomyia</i>		
Arthropoda	Insecta	Diptera	Tipulidae	<i>Pedicia</i>	4.6	Pr
Arthropoda	Insecta	Diptera	Tipulidae	<i>Pilaria</i>	7	
Arthropoda	Insecta	Diptera	Tipulidae	<i>Prionocera</i>		Sh

Arthropoda	Insecta	Diptera	Tipulidae	<i>Pseudolimnophila</i>	7.3	C
Arthropoda	Insecta	Diptera	Tipulidae	<i>Rhabdomastix</i>		C
Arthropoda	Insecta	Diptera	Tipulidae	<i>Tipula</i>	7.7	C, Sh
Arthropoda	Insecta	Diptera	Thaumaleidae	<i>Thaumalea</i>		Sc
Arthropoda	Insecta	Ephemeroptera	Ameletidae	<i>Ameletus</i>	7	C, Sc
Arthropoda	Insecta	Ephemeroptera	Ameletidae	<i>Ameletus lineatus</i>	2.1	C, Sc
Arthropoda	Insecta	Ephemeroptera	Ameletidae	<i>Ameletus ludens</i>	0	C, Sc
Arthropoda	Insecta	Ephemeroptera	Baetidae		4	C
Arthropoda	Insecta	Ephemeroptera	Baetidae	<i>Acentrella</i>	3.6	C
Arthropoda	Insecta	Ephemeroptera	Baetidae	<i>Acerpenna</i>	3.7	C
Arthropoda	Insecta	Ephemeroptera	Baetidae	<i>Apobaetis</i>	6	C
Arthropoda	Insecta	Ephemeroptera	Baetidae	<i>Baetis</i>	6	C
Arthropoda	Insecta	Ephemeroptera	Baetidae	<i>Barbaetis</i>		C
Arthropoda	Insecta	Ephemeroptera	Baetidae	<i>Callibaetis</i>	9.3	C
Arthropoda	Insecta	Ephemeroptera	Baetidae	<i>Camelobaetis</i>	9.3	C
Arthropoda	Insecta	Ephemeroptera	Baetidae	<i>Centroptilum</i>	6.3	C
Arthropoda	Insecta	Ephemeroptera	Baetidae	<i>Centroptilum ozarkensum</i>		C
Arthropoda	Insecta	Ephemeroptera	Baetidae	<i>Cloeon</i>	7.4	C
Arthropoda	Insecta	Ephemeroptera	Baetidae	<i>Dipheter</i>	5	
Arthropoda	Insecta	Ephemeroptera	Baetidae	<i>Fallceon</i>	6	Pr
Arthropoda	Insecta	Ephemeroptera	Baetidae	<i>Heterocloeon</i>	2	Sc
Arthropoda	Insecta	Ephemeroptera	Baetidae	<i>Labiobaetis</i>	6	Pr
Arthropoda	Insecta	Ephemeroptera	Baetidae	<i>Paracloeodes</i>	5	Sc
Arthropoda	Insecta	Ephemeroptera	Baetidae	<i>Plauditus</i>	6	C
Arthropoda	Insecta	Ephemeroptera	Baetidae	<i>Procloeon</i>	6.3	C
Arthropoda	Insecta	Ephemeroptera	Baetidae	<i>Pseudocentroptiloides</i>		C
Arthropoda	Insecta	Ephemeroptera	Baetidae	<i>Pseudocloeon</i>	4.4	C
Arthropoda	Insecta	Ephemeroptera	Baetiscidae	<i>Baetisca gibbera</i>	1.4	C, Sc
Arthropoda	Insecta	Ephemeroptera	Baetiscidae	<i>Baetisca lacustris</i>	4	C, Sc
Arthropoda	Insecta	Ephemeroptera	Baetiscidae	<i>Baetisca obesa</i>	4	C, Sc
Arthropoda	Insecta	Ephemeroptera	Caenidae	<i>Amercaenis</i>		F
Arthropoda	Insecta	Ephemeroptera	Caenidae	<i>Brachycercus</i>	3.5	C
Arthropoda	Insecta	Ephemeroptera	Caenidae	<i>Caenis</i>	7.6	C, Sc
Arthropoda	Insecta	Ephemeroptera	Caenidae	<i>Caenis amica</i>	7.6	C, Sc
Arthropoda	Insecta	Ephemeroptera	Caenidae	<i>Caenis anceps</i>	7.6	C, Sc
Arthropoda	Insecta	Ephemeroptera	Caenidae	<i>Caenis hilaris</i>	7.6	C, Sc
Arthropoda	Insecta	Ephemeroptera	Caenidae	<i>Caenis latipennis</i>	7.6	C, Sc
Arthropoda	Insecta	Ephemeroptera	Caenidae	<i>Caenis maccafferti</i>	7.6	C, Sc
Arthropoda	Insecta	Ephemeroptera	Caenidae	<i>Caenis punctata</i>	7.6	C, Sc
Arthropoda	Insecta	Ephemeroptera	Caenidae	<i>Caenis tardata</i>	7.6	C, Sc
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Attenella attenuata</i>	1	C
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Ephemerella</i>	1.7	C, Sc
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Ephemerella argo</i>		C, Sc
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Ephemerella aurivillii</i>	0	C, Sc
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Ephemerella catawba</i>	4	C, Sc
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Ephemerella dorothea</i>	1	C, Sc
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Ephemerella excrucians</i>	2	C, Sc
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Ephemerella invaria</i>	2.2	C, Sc
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Ephemerella needhami</i>	0	C, Sc
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Ephemerella subvaria</i>	1	C, Sc
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Eurylophella</i>	3	C
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Eurylophella aestiva</i>	5	C
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Eurylophella bicolor</i>	5.1	C
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Eurylophella enoensis</i>	5	C
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Eurylophella funeralis</i>	2.3	Sh

Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Eurylophella macdunnoughi</i>		C
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Eurylophella versimilis</i>	0.3	C
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Serratella</i>	1.9	C
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Serratella deficiens</i>	2.7	C
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Serratella frisoni</i>		C
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Serratella serratoides</i>	1.5	C
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Serratella sordida</i>	2	C
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Timpanoga</i>	2	C
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Timpanoga lita</i>	0	C
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Timpanoga provonshali</i>		C
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	<i>Timpanoga simplex</i>	3.9	C
Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemera</i>	2.2	C, Pr
Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemera guttulata</i>	2	C, Pr
Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemera simulans</i>	3.7	C, Pr
Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemera traversae</i>		C, Pr
Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemera varia</i>		C, Pr
Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Hexagenia</i>	4.7	C
Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Hexagenia atrocaudata</i>	3.7	C
Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Hexagenia bilineata</i>	3.7	C
Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Hexagenia limbata</i>	4.6	C
Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Hexagenia rigida</i>	5.5	C
Arthropoda	Insecta	Ephemeroptera	Heptageniidae		4	C, Sc, Pr
Arthropoda	Insecta	Ephemeroptera	Heptageniidae	<i>Anepeorus</i>		Pr
Arthropoda	Insecta	Ephemeroptera	Heptageniidae	<i>Epeorus</i>	1.2	C
Arthropoda	Insecta	Ephemeroptera	Heptageniidae	<i>Heptagenia</i>	2.8	C, Sc
Arthropoda	Insecta	Ephemeroptera	Heptageniidae	<i>Leucrocuta</i>	0	C, Sc
Arthropoda	Insecta	Ephemeroptera	Heptageniidae	<i>Mccaffertium</i>	4	C, Sc
Arthropoda	Insecta	Ephemeroptera	Heptageniidae	<i>Macdunnoa</i>	4.6	C, Sc
Arthropoda	Insecta	Ephemeroptera	Heptageniidae	<i>Nixe</i>	2	C, Sc
Arthropoda	Insecta	Ephemeroptera	Heptageniidae	<i>Rhithrogena</i>	0.4	C
Arthropoda	Insecta	Ephemeroptera	Heptageniidae	<i>Stenacron</i>	7.1	C
Arthropoda	Insecta	Ephemeroptera	Heptageniidae	<i>Stenonema</i>	3.4	C, Sc
Arthropoda	Insecta	Ephemeroptera	Isonychidae	<i>Isonychia</i>	3.8	F
Arthropoda	Insecta	Ephemeroptera	Isonychidae	<i>Isonychia bicolor</i>	2	F
Arthropoda	Insecta	Ephemeroptera	Isonychidae	<i>Isonychia rufa</i>	3.7	F
Arthropoda	Insecta	Ephemeroptera	Isonychidae	<i>Isonychia sayi</i>		F
Arthropoda	Insecta	Ephemeroptera	Isonychidae	<i>Isonychia sicca</i>	3.7	F
Arthropoda	Insecta	Ephemeroptera	Leptophlebiidae	<i>Choroterpes</i>	2	C, Sc
Arthropoda	Insecta	Ephemeroptera	Leptophlebiidae	<i>Habrophlebiodes</i>	6	C, Sc
Arthropoda	Insecta	Ephemeroptera	Leptophlebiidae	<i>Leptophlebia</i>	6.4	C
Arthropoda	Insecta	Ephemeroptera	Leptophlebiidae	<i>Neochoroterpes</i>		C, Sc
Arthropoda	Insecta	Ephemeroptera	Leptophlebiidae	<i>Paraleptophlebia</i>	1.2	C, Sh
Arthropoda	Insecta	Ephemeroptera	Neoephemeridae	<i>Neoephemera</i>		C
Arthropoda	Insecta	Ephemeroptera	Palingeniidae	<i>Pentagenia vittigera</i>	6.4	C
Arthropoda	Insecta	Ephemeroptera	Polymitarcyidae	<i>Ephoron</i>	4.6	C
Arthropoda	Insecta	Ephemeroptera	Polymitarcyidae	<i>Ephoron album</i>	4.6	C
Arthropoda	Insecta	Ephemeroptera	Polymitarcyidae	<i>Ephoron leukon</i>	1.5	C
Arthropoda	Insecta	Ephemeroptera	Polymitarcyidae	<i>Tortopus primus</i>	5.5	C
Arthropoda	Insecta	Ephemeroptera	Potamanthidae		4	F
Arthropoda	Insecta	Ephemeroptera	Potamanthidae	<i>Anthopotamus</i>	4	F
Arthropoda	Insecta	Ephemeroptera	Pseudironidae	<i>Pseudiron centralis</i>	5	Pr
Arthropoda	Insecta	Ephemeroptera	Siphonuridae	<i>Siphonurus</i>	2.6	C, Sc
Arthropoda	Insecta	Ephemeroptera	Tricorythidae	<i>Tricorythodes</i>	5.4	C
Arthropoda	Insecta	Hemiptera	Belostomatidae	<i>Belostoma</i>	9.8	Pr
Arthropoda	Insecta	Hemiptera	Belostomatidae	<i>Lethocerus</i>	4.6	Pr

Arthropoda	Insecta	Hemiptera	Corixidae	<i>Corisella</i>	6.4	Pr
Arthropoda	Insecta	Hemiptera	Corixidae	<i>Hesperocorixa</i>	5	Mp
Arthropoda	Insecta	Hemiptera	Corixidae	<i>Palmacorixa</i>	5.5	
Arthropoda	Insecta	Hemiptera	Corixidae	<i>Sigara</i>	4.6	Mp, C
Arthropoda	Insecta	Hemiptera	Corixidae	<i>Trichocorixa</i>	5.5	C, Pr
Arthropoda	Insecta	Hemiptera	Gelastocoridae	<i>Gelastocoris</i>	7.3	Pr
Arthropoda	Insecta	Hemiptera	Gerridae	<i>Aquarius</i>	6.4	Pr
Arthropoda	Insecta	Hemiptera	Gerridae	<i>Gerris</i>	6.4	Pr
Arthropoda	Insecta	Hemiptera	Gerridae	<i>Metrobates</i>	6.4	Pr
Arthropoda	Insecta	Hemiptera	Gerridae	<i>Rheumatobates</i>	6.4	Pr
Arthropoda	Insecta	Hemiptera	Gerridae	<i>Trepobates</i>	6.4	Pr
Arthropoda	Insecta	Hemiptera	Hebridae	<i>Hebrus</i>	6.4	Pr
Arthropoda	Insecta	Hemiptera	Hebridae	<i>Merragata</i>	7.3	Pr
Arthropoda	Insecta	Hemiptera	Hydrometridae	<i>Hydrometra</i>	7.3	Pr
Arthropoda	Insecta	Hemiptera	Mesoveliidae	<i>Mesovelis</i>	6.4	Pr
Arthropoda	Insecta	Hemiptera	Naucoridae	<i>Pelocoris</i>		Pr
Arthropoda	Insecta	Hemiptera	Nepidae	<i>Nepa</i>	4.6	Pr
Arthropoda	Insecta	Hemiptera	Nepidae	<i>Ranatra</i>	7.5	Pr
Arthropoda	Insecta	Hemiptera	Nepidae	<i>Ranatra fusca</i>	7.3	Pr
Arthropoda	Insecta	Hemiptera	Nepidae	<i>Ranatra kirkaldyi</i>	5.5	Pr
Arthropoda	Insecta	Hemiptera	Nepidae	<i>Ranatra nigra</i>	6.4	Pr
Arthropoda	Insecta	Hemiptera	Notonectidae	<i>Buenoa</i>	5.5	Pr
Arthropoda	Insecta	Hemiptera	Notonectidae	<i>Notonecta</i>	5.5	Pr
Arthropoda	Insecta	Hemiptera	Pleidae	<i>Neoplea</i>	5.5	Pr
Arthropoda	Insecta	Hemiptera	Saldidae	<i>Micracanthia</i>	5.5	Pr
Arthropoda	Insecta	Hemiptera	Saldidae	<i>Pentacora</i>	6.4	Pr
Arthropoda	Insecta	Hemiptera	Saldidae	<i>Saldula</i>	6.4	Pr
Arthropoda	Insecta	Hemiptera	Veliidae	<i>Microvelia</i>	6.4	Pr
Arthropoda	Insecta	Hemiptera	Veliidae	<i>Platyvelia</i>		Pr
Arthropoda	Insecta	Hemiptera	Veliidae	<i>Rhagovelia</i>	7.3	Pr
Arthropoda	Insecta	Hemiptera	Veliidae	<i>Steinovelis</i>		Pr
Arthropoda	Insecta	Lepidoptera	Crambidae		5	He
Arthropoda	Insecta	Lepidoptera	Crambidae	<i>Parapoynx</i>	5	He
Arthropoda	Insecta	Lepidoptera	Crambidae	<i>Petrophila</i>	1.8	He, Sc
Arthropoda	Insecta	Lepidoptera	Crambidae	<i>Nymphula</i>	7	He
Arthropoda	Insecta	Lepidoptera	Cossidae			He
Arthropoda	Insecta	Lepidoptera	Nepticulidae	<i>Nepticula</i>		He
Arthropoda	Insecta	Lepidoptera	Noctuidae	<i>Bellura</i>		He
Arthropoda	Insecta	Lepidoptera	Noctuidae	<i>Simyra</i>		He
Arthropoda	Insecta	Lepidoptera	Pylalidae		5	He
Arthropoda	Insecta	Lepidoptera	Totidae	<i>Archips</i>		Sh
Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Chauliodes</i>	4	Pr
Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Chauliodes pectinicornis</i>	4	Pr
Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Chauliodes rastricornis</i>	4	Pr
Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Corydalus</i>	5.6	Pr
Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Corydalus cornutus</i>	5.6	Pr
Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Nigronia fasciatus</i>	6.2	Pr
Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Nigronia serricornis</i>	5.5	Pr
Arthropoda	Insecta	Megaloptera	Sialidae	<i>Sialis</i>	7.5	Pr
Arthropoda	Insecta	Megaloptera	Sialidae	<i>Sialis velata</i>		Pr
Arthropoda	Insecta	Neuroptera	Sisyridae	<i>Climacia</i>	6.5	Pr
Arthropoda	Insecta	Neuroptera	Sisyridae	<i>Sisyra</i>		Pr
Arthropoda	Insecta	Neuroptera	Sisyridae	<i>Sisyra vicaria</i>		Pr
Arthropoda	Insecta	Odonata	Aeshnidae		6.4	Pr
Arthropoda	Insecta	Odonata	Aeshnidae	<i>Aeshna</i>	6.4	Pr

Arthropoda	Insecta	Odonata	Aeshnidae	<i>Anax</i>	6.4	Pr
Arthropoda	Insecta	Odonata	Aeshnidae	<i>Basiaeschna janata</i>	7.7	Pr
Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria</i>	6.3	Pr
Arthropoda	Insecta	Odonata	Aeshnidae	<i>Epiaeschna heros</i>	3.7	Pr
Arthropoda	Insecta	Odonata	Aeshnidae	<i>Nasiaeschna pentacantha</i>	8	Pr
Arthropoda	Insecta	Odonata	Calopterygidae		5	Pr
Arthropoda	Insecta	Odonata	Calopterygidae	<i>Calopteryx</i>	8.3	Pr
Arthropoda	Insecta	Odonata	Calopterygidae	<i>Hetaerina</i>	6.2	Pr
Arthropoda	Insecta	Odonata	Coenagrionidae		9	Pr
Arthropoda	Insecta	Odonata	Coenagrionidae	<i>Amphiagrion</i>	2.8	Pr
Arthropoda	Insecta	Odonata	Coenagrionidae	<i>Argia</i>	8.7	Pr
Arthropoda	Insecta	Odonata	Coenagrionidae	<i>Chromagrion</i>		Pr
Arthropoda	Insecta	Odonata	Coenagrionidae	<i>Enallagma</i>	9	Pr
Arthropoda	Insecta	Odonata	Coenagrionidae	<i>Ischnura</i>	9.4	Pr
Arthropoda	Insecta	Odonata	Coenagrionidae	<i>Nehalennia</i>		Pr
Arthropoda	Insecta	Odonata	Coenagrionidae	<i>Telebasis</i>		Pr
Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Cordulegaster</i>	6.1	Pr
Arthropoda	Insecta	Odonata	Gomphidae		7	Pr
Arthropoda	Insecta	Odonata	Gomphidae	<i>Arigomphus</i>	6.4	Pr
Arthropoda	Insecta	Odonata	Gomphidae	<i>Dromogomphus</i>	6.3	Pr
Arthropoda	Insecta	Odonata	Gomphidae	<i>Erpetogomphus</i>	5.5	Pr
Arthropoda	Insecta	Odonata	Gomphidae	<i>Gomphus</i>	6.2	Pr
Arthropoda	Insecta	Odonata	Gomphidae	<i>Hagenius brevistylus</i>	4	Pr
Arthropoda	Insecta	Odonata	Gomphidae	<i>Lanthus parvulus</i>	2.7	Pr
Arthropoda	Insecta	Odonata	Gomphidae	<i>Lanthus vernalis</i>	2.7	Pr
Arthropoda	Insecta	Odonata	Gomphidae	<i>Ophiogomphus</i>	6.2	Pr
Arthropoda	Insecta	Odonata	Gomphidae	<i>Progomphus obscurus</i>	8.7	Pr
Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus albistylus</i>	4.8	Pr
Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylurus</i>	4	Pr
Arthropoda	Insecta	Odonata	Lestidae	<i>Archilestes</i>	6.4	Pr
Arthropoda	Insecta	Odonata	Lestidae	<i>Lestes</i>	6.4	Pr
Arthropoda	Insecta	Odonata	Libellulidae		9	Pr
Arthropoda	Insecta	Odonata	Libellulidae	<i>Epitheca</i>	5.5	Pr
Arthropoda	Insecta	Odonata	Libellulidae	<i>Epitheca</i>	8.5	Pr
Arthropoda	Insecta	Odonata	Libellulidae	<i>Helocordulia</i>		Pr
Arthropoda	Insecta	Odonata	Libellulidae	<i>Neurocordulia</i>	4	Pr
Arthropoda	Insecta	Odonata	Libellulidae	<i>Somatochlora</i>	8.9	Pr
Arthropoda	Insecta	Odonata	Libellulidae	<i>Brachymesia</i>		Pr
Arthropoda	Insecta	Odonata	Libellulidae	<i>Celithemis</i>	3.7	Pr
Arthropoda	Insecta	Odonata	Libellulidae	<i>Dythemis</i>	3.7	Pr
Arthropoda	Insecta	Odonata	Libellulidae	<i>Erythemis</i>	7.7	Pr
Arthropoda	Insecta	Odonata	Libellulidae	<i>Erythrodiplax</i>		Pr
Arthropoda	Insecta	Odonata	Libellulidae	<i>Leucorrhinia</i>	6.4	Pr
Arthropoda	Insecta	Odonata	Libellulidae	<i>Libellula</i>	9.8	Pr
Arthropoda	Insecta	Odonata	Libellulidae	<i>Orthemis ferruginea</i>	4.6	Pr
Arthropoda	Insecta	Odonata	Libellulidae	<i>Pachydiplax longipennis</i>	9.6	Pr
Arthropoda	Insecta	Odonata	Libellulidae	<i>Pantala</i>	6.4	Pr
Arthropoda	Insecta	Odonata	Libellulidae	<i>Perithemis</i>	10	Pr
Arthropoda	Insecta	Odonata	Libellulidae	<i>Plathemis</i>	10	Pr
Arthropoda	Insecta	Odonata	Libellulidae	<i>Sympetrum</i>	7.3	Pr
Arthropoda	Insecta	Odonata	Libellulidae	<i>Tramea</i>		Pr
Arthropoda	Insecta	Odonata	Libellulidae	<i>Didymops</i>	5.5	Pr
Arthropoda	Insecta	Odonata	Libellulidae	<i>Macromia</i>	6.7	Pr
Arthropoda	Insecta	Odonata	Petaluridae	<i>Tachopteryx thoreyi</i>	3.7	Pr
Arthropoda	Insecta	Plecoptera	Capniidae		1	Sh

Arthropoda	Insecta	Plecoptera	Capniidae	<i>Allocapnia</i>	2.8	Sh
Arthropoda	Insecta	Plecoptera	Capniidae	<i>Allocania forbesi</i>		Sh
Arthropoda	Insecta	Plecoptera	Capniidae	<i>Allocapnia granulate</i>		Sh
Arthropoda	Insecta	Plecoptera	Capniidae	<i>Allocapnia jeanae</i>		Sh
Arthropoda	Insecta	Plecoptera	Capniidae	<i>Allocapnia malverna</i>		Sh
Arthropoda	Insecta	Plecoptera	Capniidae	<i>Allocapnia mohri</i>		Sh
Arthropoda	Insecta	Plecoptera	Capniidae	<i>Allocapnia mystica</i>		Sh
Arthropoda	Insecta	Plecoptera	Capniidae	<i>Allocapnia oribata</i>		Sh
Arthropoda	Insecta	Plecoptera	Capniidae	<i>Allocapnia ozarkana</i>		Sh
Arthropoda	Insecta	Plecoptera	Capniidae	<i>Allocapnia peltoides</i>		Sh
Arthropoda	Insecta	Plecoptera	Capniidae	<i>Allocania pygmaea</i>		Sh
Arthropoda	Insecta	Plecoptera	Capniidae	<i>Allocapnia rickeri</i>		Sh
Arthropoda	Insecta	Plecoptera	Capniidae	<i>Allocapnia sandersoni</i>		Sh
Arthropoda	Insecta	Plecoptera	Capniidae	<i>Allocapnia smithi</i>		Sh
Arthropoda	Insecta	Plecoptera	Capniidae	<i>Allocapnia vivipara</i>		Sh
Arthropoda	Insecta	Plecoptera	Capniidae	<i>Allocapnia warreni</i>		Sh
Arthropoda	Insecta	Plecoptera	Capniidae	<i>Nemocapnia carolina</i>		Sh
Arthropoda	Insecta	Plecoptera	Capniidae	<i>Paracapnia angulata</i>	0.2	Sh
Arthropoda	Insecta	Plecoptera	Chloroperlidae		1	Pr
Arthropoda	Insecta	Plecoptera	Chloroperlidae	<i>Alloperla</i>	1.4	Pr
Arthropoda	Insecta	Plecoptera	Chloroperlidae	<i>Alloperla caddo</i>		Pr
Arthropoda	Insecta	Plecoptera	Chloroperlidae	<i>Alloperla caudate</i>		Pr
Arthropoda	Insecta	Plecoptera	Chloroperlidae	<i>Alloperla hamata</i>		Pr
Arthropoda	Insecta	Plecoptera	Chloroperlidae	<i>Alloperla leonarda</i>		Pr
Arthropoda	Insecta	Plecoptera	Chloroperlidae	<i>Alloperla ouachita</i>		Pr
Arthropoda	Insecta	Plecoptera	Chloroperlidae	<i>Haploperla</i>	1.4	C, Pr
Arthropoda	Insecta	Plecoptera	Chloroperlidae	<i>Haploperla brevis</i>	1.3	C, Pr
Arthropoda	Insecta	Plecoptera	Leuctridae		0	Sh
Arthropoda	Insecta	Plecoptera	Leuctridae	<i>Leuctra</i>	0.7	Sh
Arthropoda	Insecta	Plecoptera	Leuctridae	<i>Leuctra paleo</i>		Sh
Arthropoda	Insecta	Plecoptera	Leuctridae	<i>Leuctra rickeri</i>		Sh
Arthropoda	Insecta	Plecoptera	Leuctridae	<i>Leuctra tenuis</i>		Sh
Arthropoda	Insecta	Plecoptera	Leuctridae	<i>Zealeuctra</i>	0	Sh
Arthropoda	Insecta	Plecoptera	Leuctridae	<i>Zealeuctra Cherokee</i>		Sh
Arthropoda	Insecta	Plecoptera	Leuctridae	<i>Zealuctra claasseni</i>		Sh
Arthropoda	Insecta	Plecoptera	Leuctridae	<i>Zealuctra fraxina</i>		Sh
Arthropoda	Insecta	Plecoptera	Leuctridae	<i>Zealuctra narfi</i>		Sh
Arthropoda	Insecta	Plecoptera	Leuctridae	<i>Zealuctra warreni</i>		Sh
Arthropoda	Insecta	Plecoptera	Leuctridae	<i>Zealuctra wachita</i>		Sh
Arthropoda	Insecta	Plecoptera	Nemouridae		2	Sh
Arthropoda	Insecta	Plecoptera	Nemouridae	<i>Amphinemura</i>	3.4	Sh
Arthropoda	Insecta	Plecoptera	Nemouridae	<i>Amphinemura delosa</i>		Sh
Arthropoda	Insecta	Plecoptera	Nemouridae	<i>Amphinemura nigritta</i>		Sh
Arthropoda	Insecta	Plecoptera	Nemouridae	<i>Prostoia</i>	6.1	Sc, Sh
Arthropoda	Insecta	Plecoptera	Nemouridae	<i>Prostoia completa</i>	6.1	Sc, Sh
Arthropoda	Insecta	Plecoptera	Nemouridae	<i>Prostoia similes</i>	6.1	Sc, Sh
Arthropoda	Insecta	Plecoptera	Nemouridae	<i>Shipsa rotunda</i>	0.3	Sc, Sh
Arthropoda	Insecta	Plecoptera	Perlidae		1	Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Acroneuria</i>	1.4	Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Acroneuria abnormis</i>		Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Acroneuria evoluta</i>		Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Acroneuria filicis</i>		Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Acroneuria internata</i>		Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Acroneuria mela</i>		Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Acroneuria ozarkensis</i>		Pr

Arthropoda	Insecta	Plecoptera	Perlidae	<i>Acroneuria perplexa</i>		Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Agneta capitata</i>	1.4	Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Agneta flavescens</i>	0	Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Attaneuria ruralis</i>	2.75	Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Neoperla</i>	1.6	Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Neoperla carlsoni</i>		Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Neoperla catharae</i>		Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Neoperla choctaw</i>		Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Neoperla falayah</i>		Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Neoperla harpi</i>		Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Neoperla osage</i>		Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Paragnetina</i>	1.8	Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Paragnetina kansensis</i>	2	Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Paragnetina media</i>	1	Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Perlesta</i>	0	C, Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Perlesta baumanni</i>		C, Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Perlesta browni</i>		C, Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Perlesta cinctipes</i>		C, Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Perlesta decipiens</i>		C, Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Perlesta fusca</i>		C, Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Perlesta shubata</i>		C, Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Perlinella drymo</i>	0	Pr
Arthropoda	Insecta	Plecoptera	Perlidae	<i>Perlinella ephyre</i>	0	Pr
Arthropoda	Insecta	Plecoptera	Perlodidae		2	Pr
Arthropoda	Insecta	Plecoptera	Perlodidae	<i>Clioperla clio</i>	4.8	Pr
Arthropoda	Insecta	Plecoptera	Perlodidae	<i>Helopicus nalatus</i>	5.75	Pr
Arthropoda	Insecta	Plecoptera	Perlodidae	<i>Hydroperla</i>	2.75	Pr
Arthropoda	Insecta	Plecoptera	Perlodidae	<i>Hydroperla crosbyi</i>	3.7	Pr
Arthropoda	Insecta	Plecoptera	Perlodidae	<i>Hydroperla fugitans</i>	2.75	Pr
Arthropoda	Insecta	Plecoptera	Perlodidae	<i>Isoperla</i>	2	C, Pr
Arthropoda	Insecta	Plecoptera	Perlodidae	<i>Isoperla bilineata</i>	5.5	C, Pr
Arthropoda	Insecta	Plecoptera	Perlodidae	<i>Isoperla buski</i>		C, Pr
Arthropoda	Insecta	Plecoptera	Perlodidae	<i>Isoperla couchatta</i>		C, Pr
Arthropoda	Insecta	Plecoptera	Perlodidae	<i>Isoperla decepta</i>		C, Pr
Arthropoda	Insecta	Plecoptera	Perlodidae	<i>Isoperla dicala</i>	2.2	C, Pr
Arthropoda	Insecta	Plecoptera	Perlodidae	<i>Isoperla mohri</i>		C, Pr
Arthropoda	Insecta	Plecoptera	Perlodidae	<i>Isoperla namata</i>	1.8	C, Pr
Arthropoda	Insecta	Plecoptera	Perlodidae	<i>Isoperla mohri</i>		C, Pr
Arthropoda	Insecta	Plecoptera	Perlodidae	<i>Isoperla signata</i>		C, Pr
Arthropoda	Insecta	Plecoptera	Perlodidae	<i>Isoperla szczytkoi</i>		C, Pr
Arthropoda	Insecta	Plecoptera	Pteronarcyidae	<i>Pteronarcys pictetii</i>	1.7	Sh
Arthropoda	Insecta	Plecoptera	Taeniopterygidae		2	Sh
Arthropoda	Insecta	Plecoptera	Taeniopterygidae	<i>Strophopteryx</i>	2.5	Sh
Arthropoda	Insecta	Plecoptera	Taeniopterygidae	<i>Strophopteryx arkansae</i>		Sh
Arthropoda	Insecta	Plecoptera	Taeniopterygidae	<i>Strophopteryx cucullata</i>		Sh
Arthropoda	Insecta	Plecoptera	Taeniopterygidae	<i>Strophopteryx fasciata</i>	3	Sh
Arthropoda	Insecta	Plecoptera	Taeniopterygidae	<i>Taeniopteryx</i>	6.3	C, Sh
Arthropoda	Insecta	Plecoptera	Taeniopterygidae	<i>Taeniopteryx burksi</i>	5.8	C, Sh
Arthropoda	Insecta	Plecoptera	Taeniopterygidae	<i>Taeniopteryx lita</i>		C, Sh
Arthropoda	Insecta	Plecoptera	Taeniopterygidae	<i>Taeniopteryx lonicera</i>	2	C, Sh
Arthropoda	Insecta	Plecoptera	Taeniopterygidae	<i>Taeniopteryx maura</i>		C, Sh
Arthropoda	Insecta	Plecoptera	Taeniopterygidae	<i>Taeniopteryx metequi</i>	1.4	C, Sh
Arthropoda	Insecta	Plecoptera	Taeniopterygidae	<i>Taeniopteryx parvula</i>	2	C, SH
Arthropoda	Insecta	Trichoptera	Brachycentridae	<i>Brachycentrus</i>	2.2	F
Arthropoda	Insecta	Trichoptera	Brachycentridae	<i>Brachycentrus americanus</i>	1	F

Arthropoda	Insecta	Trichoptera	Brachycentridae	<i>Brachycentrus lateralis</i>	0.4	F
Arthropoda	Insecta	Trichoptera	Brachycentridae	<i>Brachycentrus numerosus</i>	1.8	F
Arthropoda	Insecta	Trichoptera	Brachycentridae	<i>Brachycentrus occidentalis</i>	1	F
Arthropoda	Insecta	Trichoptera	Brachycentridae	<i>Micrasema</i>	0.6	Sh
Arthropoda	Insecta	Trichoptera	Glossosomatidae	<i>Agapetus</i>	0	C, Sc
Arthropoda	Insecta	Trichoptera	Glossosomatidae	<i>Agapetus illini</i>	0	C, Sc
Arthropoda	Insecta	Trichoptera	Glossosomatidae	<i>Glossosoma</i>	1.5	C, Sc
Arthropoda	Insecta	Trichoptera	Glossosomatidae	<i>Protoptila</i>	2.8	Sc
Arthropoda	Insecta	Trichoptera	Helicopsychidae	<i>Helicopsyche</i>	0	Sc
Arthropoda	Insecta	Trichoptera	Hydropsychidae		4	F
Arthropoda	Insecta	Trichoptera	Hydropsychidae	<i>Ceratopsyche</i>	1.4	F
Arthropoda	Insecta	Trichoptera	Hydropsychidae	<i>Ceratopsyche morosa</i> grp	2.95	F
Arthropoda	Insecta	Trichoptera	Hydropsychidae	<i>Ceratopsyche piatrix</i>		F
Arthropoda	Insecta	Trichoptera	Hydropsychidae	<i>Ceratopsyche slossonae</i>	0	F
Arthropoda	Insecta	Trichoptera	Hydropsychidae	<i>Cheumatopsyche</i>	6.6	F
Arthropoda	Insecta	Trichoptera	Hydropsychidae	<i>Diplectrona</i>	2.2	F
Arthropoda	Insecta	Trichoptera	Hydropsychidae	<i>Hydropsyche</i>	4	F
Arthropoda	Insecta	Trichoptera	Hydropsychidae	<i>Macrostemum</i>	3.6	F
Arthropoda	Insecta	Trichoptera	Hydropsychidae	<i>Potamyia flava</i>	5	F
Arthropoda	Insecta	Trichoptera	Hydroptilidae		4	C, He, Sc
Arthropoda	Insecta	Trichoptera	Hydroptilidae	<i>Agraylea</i>	8	He, Sc
Arthropoda	Insecta	Trichoptera	Hydroptilidae	<i>Dibusa angata</i>	3	Sc
Arthropoda	Insecta	Trichoptera	Hydroptilidae	<i>Hydroptila</i>	6.2	He, Sc
Arthropoda	Insecta	Trichoptera	Hydroptilidae	<i>Ithytrichia</i>	4	Sc
Arthropoda	Insecta	Trichoptera	Hydroptilidae	<i>Leucotrichia</i>	4.3	C, Sc
Arthropoda	Insecta	Trichoptera	Hydroptilidae	<i>Neotrichia</i>	2	Sc
Arthropoda	Insecta	Trichoptera	Hydroptilidae	<i>Ochrotrichia</i>	6.4	C, He
Arthropoda	Insecta	Trichoptera	Hydroptilidae	<i>Orthotrichia</i>	7.2	C, He
Arthropoda	Insecta	Trichoptera	Hydroptilidae	<i>Oxyethira</i>	3	C, He
Arthropoda	Insecta	Trichoptera	Hydroptilidae	<i>Stactobiella</i>	2.75	Sh
Arthropoda	Insecta	Trichoptera	Lepidostomatidae	<i>Lepidostoma</i>	1	Sh
Arthropoda	Insecta	Trichoptera	Leptoceridae		4	C, Sh
Arthropoda	Insecta	Trichoptera	Leptoceridae	<i>Ceraclea</i>	2.3	C, Sh
Arthropoda	Insecta	Trichoptera	Leptoceridae	<i>Leptocerus americanus</i>	4.6	Sh
Arthropoda	Insecta	Trichoptera	Leptoceridae	<i>Mystacides</i>	3.5	C, Sh
Arthropoda	Insecta	Trichoptera	Leptoceridae	<i>Nectopsyche</i>	4.1	C, Sh
Arthropoda	Insecta	Trichoptera	Leptoceridae	<i>Nectopsyche albida</i>	5.5	C, Sh
Arthropoda	Insecta	Trichoptera	Leptoceridae	<i>Nectopsyche candida</i>	3.8	C, Sh
Arthropoda	Insecta	Trichoptera	Leptoceridae	<i>Nectopsyche diarina</i>	5.5	C, Sh
Arthropoda	Insecta	Trichoptera	Leptoceridae	<i>Nectopsyche exquisita</i>	4.2	C, Sh
Arthropoda	Insecta	Trichoptera	Leptoceridae	<i>Nectopsyche pavida</i>	4.2	C, Sh
Arthropoda	Insecta	Trichoptera	Leptoceridae	<i>Nectopsyche spiloma</i>	4.6	C, Sh
Arthropoda	Insecta	Trichoptera	Leptoceridae	<i>Oecetis</i>	5.7	He, Pr
Arthropoda	Insecta	Trichoptera	Leptoceridae	<i>Setodes</i>	0.9	C, Pr
Arthropoda	Insecta	Trichoptera	Leptoceridae	<i>Triaenodes</i>	3.7	Sh
Arthropoda	Insecta	Trichoptera	Limnephilidae		4	Sh
Arthropoda	Insecta	Trichoptera	Limnephilidae	<i>Frenesia</i>	0	Sh
Arthropoda	Insecta	Trichoptera	Limnephilidae	<i>Hesperophylax</i>	3	He, Sh
Arthropoda	Insecta	Trichoptera	Limnephilidae	<i>Hydatophylax</i>	2.3	C, Sh
Arthropoda	Insecta	Trichoptera	Limnephilidae	<i>Ironoquia</i>	7.3	C, Sh
Arthropoda	Insecta	Trichoptera	Limnephilidae	<i>Leptophylax</i>		He, Sh
Arthropoda	Insecta	Trichoptera	Limnephilidae	<i>Limnephilus</i>	2.75	He, Sh
Arthropoda	Insecta	Trichoptera	Limnephilidae	<i>Platycentropus</i>	4	Sh
Arthropoda	Insecta	Trichoptera	Limnephilidae	<i>Pseudostenophylax</i>	0	C, Sh
Arthropoda	Insecta	Trichoptera	Limnephilidae	<i>Pycnopsyche</i>	2.3	C, Sh

Arthropoda	Insecta	Trichoptera	Molannidae	<i>Molanna</i>	3.9	C, Sh
Arthropoda	Insecta	Trichoptera	Odontoceridae	<i>Marilia</i>	0	Sh
Arthropoda	Insecta	Trichoptera	Odontoceridae	<i>Psilotreta</i>	0	C, Sc
Arthropoda	Insecta	Trichoptera	Philopotamidae		3	F
Arthropoda	Insecta	Trichoptera	Philopotamidae	<i>Chimarra</i>	2.8	F
Arthropoda	Insecta	Trichoptera	Philopotamidae	<i>Dolophilodes</i>	1	F
Arthropoda	Insecta	Trichoptera	Philopotamidae	<i>Wormaldia</i>	0.4	F
Arthropoda	Insecta	Trichoptera	Phryganeidae	<i>Agrypnia</i>	4.6	Sh
Arthropoda	Insecta	Trichoptera	Phryganeidae	<i>Banksiola</i>		Sh
Arthropoda	Insecta	Trichoptera	Phryganeidae	<i>Phryganea</i>	4.6	Sh, Pr
Arthropoda	Insecta	Trichoptera	Phryganeidae	<i>Ptilostomis</i>	6.7	Sh, Pr
Arthropoda	Insecta	Trichoptera	Polycentropodidae		6	C, Pr, Sh
Arthropoda	Insecta	Trichoptera	Polycentropodidae	<i>Cernotina</i>	4.6	Pr
Arthropoda	Insecta	Trichoptera	Polycentropodidae	<i>Cyrnellus fraternus</i>	7.4	F
Arthropoda	Insecta	Trichoptera	Polycentropodidae	<i>Neureclipsis</i>	4.4	F, Sh
Arthropoda	Insecta	Trichoptera	Polycentropodidae	<i>Paranyctiophylax</i>	0.9	C, Pr
Arthropoda	Insecta	Trichoptera	Polycentropodidae	<i>Phylocentropus</i>	5.6	F
Arthropoda	Insecta	Trichoptera	Polycentropodidae	<i>Polycentropus</i>	3.5	C, Pr
Arthropoda	Insecta	Trichoptera	Psychomyiidae	<i>Lype diversa</i>	4.3	Sc
Arthropoda	Insecta	Trichoptera	Psychomyiidae	<i>Paduniella neartica</i>	0	C, Sc
Arthropoda	Insecta	Trichoptera	Psychomyiidae	<i>Psychomyia flavida</i>	3.3	C, Sc
Arthropoda	Insecta	Trichoptera	Rhyacophilidae	<i>Rhyacophila</i>	0.8	Pr
Arthropoda	Insecta	Trichoptera	Uenoidae	<i>Neophylax</i>	1.6	Sc
Arthropoda	Insecta	Trichoptera	Uenoidae	<i>Neophylax concinnus</i>	1.6	Sc
Arthropoda	Insecta	Trichoptera	Uenoidae	<i>Neophylax fusca</i>	1.6	Sc
Mollusca	Bivalvia	Unionida	Unionidae		0	F
Mollusca	Bivalvia	Cardiida	Dreissenidae	<i>Dreissena polymorpha</i>	8	F
Mollusca	Bivalvia	Veneroidea	Corbiculidae	<i>Corbicula</i>	6.3	F
Mollusca	Bivalvia	Veneroidea	Sphaeriidae	<i>Pisidium</i>	6.8	F
Mollusca	Bivalvia	Veneroidea	Sphaeriidae	<i>Sphaerium/Musculium</i>	7.7	F
Mollusca	Gastropoda	Limnophila	Ancylidae	<i>Ferrissia</i>	6.9	Sc
Mollusca	Gastropoda	Limnophila	Ancylidae	<i>Laevapex</i>	7.3	Sc
Mollusca	Gastropoda	Limnophila	Ancylidae	<i>Rhodaemea</i>		Sc
Mollusca	Gastropoda	Limnophila	Lymnaeidae	<i>Lymnaea</i>	6	Sc
Mollusca	Gastropoda	Limnophila	Lymnaeidae	<i>Pseudosuccinea</i>	7.2	Sc
Mollusca	Gastropoda	Limnophila	Lymnaeidae	<i>Pseudosuccinea columella</i>		Sc
Mollusca	Gastropoda	Limnophila	Physidae	<i>Physa/Physella</i>	9.1	Sc
Mollusca	Gastropoda	Limnophila	Planorbidae	<i>Carychium exile</i>		Sc
Mollusca	Gastropoda	Limnophila	Planorbidae	<i>Gyraulus</i>	8	Sc
Mollusca	Gastropoda	Limnophila	Planorbidae	<i>Helisoma</i>	6.5	Sc
Mollusca	Gastropoda	Limnophila	Planorbidae	<i>Menetus</i>	8.4	Sc
Mollusca	Gastropoda	Limnophila	Planorbidae	<i>Menetus sampsoni</i>		Sc
Mollusca	Gastropoda	Limnophila	Planorbidae	<i>Planorbella</i>		Sc
Mollusca	Gastropoda	Limnophila	Planorbidae	<i>Planorbula</i>		Sc
Mollusca	Gastropoda	Limnophila	Planorbidae	<i>Promenetus</i>		Sc
Mollusca	Gastropoda	Limnophila	Pomatiopsidae	<i>Pomatiopsis lapidaria</i>		Sc
Mollusca	Gastropoda	Limnophila	Hydrobiidae			Sc
Mollusca	Gastropoda	Limnophila	Hydrobiidae	<i>Fontigens aldrichi</i>		Sc
Mollusca	Gastropoda	Limnophila	Pleuroceridae	<i>Elimia</i>	2.5	Sc
Mollusca	Gastropoda	Mesogastropoda	Pleuroceridae	<i>Goniobasis</i>		Sc
Mollusca	Gastropoda	Mesogastropoda	Pleuroceridae	<i>Leptoxis</i>	1.6	Sc
Mollusca	Gastropoda	Mesogastropoda	Pleuroceridae	<i>Lithasia</i>		Sc
Mollusca	Gastropoda	Mesogastropoda	Pleuroceridae	<i>Pleurocera</i>	6	Sc
Mollusca	Gastropoda	Mesogastropoda	Valvatidae	<i>Valvata</i>	8	Sc
Mollusca	Gastropoda	Mesogastropoda	Viviparidae	<i>Cameloma</i>	6.7	Sc

Mollusca	Gastropoda	Mesogastropoda	Viviparidae	<i>Cipangopaludina</i>		Sc
Mollusca	Gastropoda	Mesogastropoda	Viviparidae	<i>Lioplax</i>		Sc
Mollusca	Gastropoda	Mesogastropoda	Viviparidae	<i>Viviparus</i>	6	Sc
Nematoda					5	C/Pa
Nematomorpha			Chordodidae		5	Pa
Nematomorpha			Gordiidae		5	Pa
Platyhelminthes		Tricladida	Dendrocoelidae	<i>Macrocotyla grandulosa</i>		C, Pr
Platyhelminthes		Tricladida	Planariidae	<i>Dugesia</i>	7.5	C, Pr