



## United States Department of the Interior

U.S. FISH AND WILDLIFE SERVICE

Pacific Southwest Region  
2800 Cottage Way, Room W-2606  
Sacramento, California 95825-1846



### Study Guide for Vernal Pool Branchiopod Exam

The following is a list of the vernal pool branchiopod species that are listed or that are most likely to be found in or near the same geographical range as a listed species. Any or all species from this list may be included in the identification exam.

1. *Artemia* sp. (ID to genus OK)
2. *Branchinecta coloradensis*
3. *Branchinecta conservatio*
4. *Branchinecta dissimilis*
5. *Branchinecta gigas*
6. *Branchinecta lindahli*
7. *Branchinecta longiantenna*
8. *Branchinecta lynchi*
9. *Branchinecta mackini*
10. *Branchinecta mesovallensis*
11. *Branchinecta sandiegonensis*
12. *Eubbranchipus oregonus* (ID to genus OK)
13. *Eubbranchipus serratus* (ID to genus OK)
14. *Lepidurus packardii* (ID to genus OK)
15. *Lindleriella occidentalis* (ID to genus OK)
16. *Streptocephalus sealii*
17. *Streptocephalus woottoni*
18. *Triops longicaudatus* (ID to genus OK)

The exam will be set up with approximately 15 to 20 single-species vials, with one to six specimens in each, and with an additional two or three vials containing two species together. You will be expected to correctly identify all vials (*i.e.*, pass 100%). You may take the exam only twice prior to any given wet season. If you fail both attempts, you must wait until the end of that wet season before you can retake the exam.

We give the exam by appointment. Please bring any reference materials required to make appropriate identifications. Stereoscopes and "soft" tip forceps will be provided, but you may bring your own. Probes and weights are not allowed. When scheduling an exam, allow enough time to complete the exam without rushing (the average time is 3 to 4 hours, but can range from 2 to 8 hours). If you wish to view study specimens (optional), these appointments are scheduled on different days from the exam. Please email the [Carlsbad or Sacramento Fish and Wildlife Office Recovery Permit Coordinator](#) to schedule appointments at their respective offices.