

**Question for March 18, 2004 Quiz 15 PDF**

**15) A fisheries researcher is investigating alternative strategies for raising the mussel (*Villosa iris*). Typically aquaculture of this species employs 5 mm of sediment in the culture containers. The researcher wants to compare the established 5 mm standard with a deeper level of sediment (15 mm). Two-day old juveniles were randomly assigned to containers with one of the two sediment depths (6 containers for each sediment depth, 12 containers in all). The mean survival for juvenile mussels with 5 mm of sediment was 50.1% (SD±9.0) and for the 15 mm sediment containers the mean survival was 40.8% (SD±11.3). How would the investigator determine if the two treatments differed significantly with respect to the survival of mussels?**