Carefully read the description of the experiment below. Be prepared to answer the questions that follow the design description as a class quiz.

Part of a large study of mosquito populations studied summer mosquito numbers from two experimental flow-through wetlands sites at the Olentangy River Wetland Research Park (ORWRP) in Columbus, Ohio. Mosquito numbers were sampled at two areas of the wetlands; the inflow and outflow areas. The objective of the study is to compare the mean of forty samples from emergent vegetation (from two areas in the two sites over 10 dates) to the mean of forty samples from floating vegetation (from the same areas, sites and dates). A single sample of larval-stage mosquitoes consisted of 10 dips taken randomly with a white plastic container (11 cm diameter and 350 ml capacity) and an adjustable plastic handle. The larvae in the 10 dips were combined into a single composite sample. Mosquito densities from two outflow regions of two experimental wetlands for each date were normalized by log transformation.

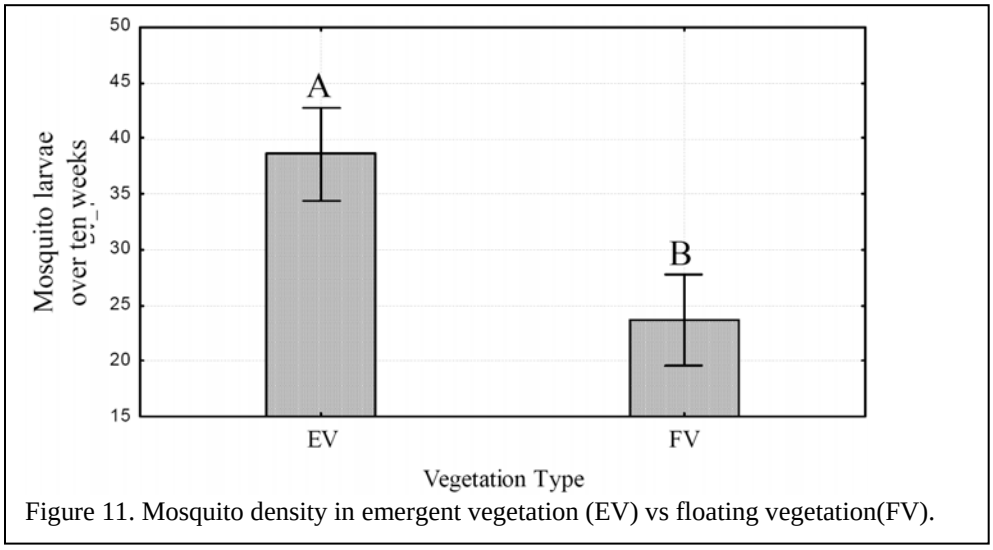

Figure 11. Mosquito density in emergent vegetation (EV) vs floating vegetation(FV).