BEACH SEINE LAB

We conducted a series of three beach seines near Crown Point, Mission Bay. By using beach seines, we can calculate a measure of population abundance by using a measure of Catch-per-Unit-Effort (CPUE).

Answer the following questions (10 pts. total), and be sure to show your work as appropriate:

(1) What is the average catch per unit effort for all fishes caught at the Mission Bay site?

(2) What is the overall species diversity at this site?

(3) Determine the number of individuals and number of species represented in each of the three sets of the beach seine that we conducted.

(4) Recalling the sampling site, why do you think the numbers of individuals and species composition may have changed as we did first, second, and third sets of the beach seine?

(5) Name two sampling problems that may exist when using a beach seine to catch all individuals of fish species within an area.