

Zooplankton Catch per Unit Effort (CPUE) Calculations:

Meso-Zooplankton CPUE:

The number per cubic meter for each meso-zooplankton taxon taken in the Clarke-Bumpus net was calculated using the following equation:

$$\text{CPUE} = ((C/S) L) / V$$

Where:

CPUE = the number of a taxon per cubic meter of water filtered

C = the cumulative number of a taxon counted for the sample

L = the reconstituted sample volume (dilution volume) in milliliters

S = the number of Sedgewick-Rafter cells examined (1 ml ea)

V = the volume of water filtered through the net (m³) (where volume filtered is estimated by:

VolFiltered = (end meter – start meter) * 0.026873 * mouth area)

Mouth area of CB net = 0.0113m²

Macro-Zooplankton CPUE:

The total number of each macro-zooplankton (i.e. mysid or amphipod) taxa per cubic meter of water sampled was calculated using the following equation:

$$\text{CPUE} = ((C/S)/V)$$

Where:

CPUE = the number of a species per cubic meter of water filtered

C = the cumulative number of a taxon counted in tray segment(s) (sub-samples) examined

S = fraction of total sample examined (1/number of tray segment(s) examined)

V = the volume of water filtered through the net (m³) (where volume filtered is estimated by:

VolFiltered = (end meter – start meter) * 0.026873 * mouth area)

Mouth area of mysid net= 0.062 m²