

AQUATIC ECOLOGY 5

Prof. Dr. Nilsun DEMİR

Ankara

Biomass

- The biomass in an ecosystem includes the mass of all living and dead organic matter.
- Organisms use energy to maintain biological functions and to enable growth and reproduction.
- The organic matter produced by autotrophs and heterotrophs.

Biomass is the amount of this accumulated material at a given moment, while production is the rate of increase in the total biomass. Biomass may be lost by export or gained by import from other systems in rivers



Production

- Production is the incremental increase in biomass produced by organisms over a period of time.
- Estimates of biomass and production are one measure that can be used to assess the health of aquatic ecosystems.

Production is often difficult to estimate, since it requires, among other things, accurate measures of biomass repeated at consistent intervals over a long period.

Primary production

It refers to the production of organic matter, such as body tissue, produced mainly by photosynthesis.