

Ornamental fishes

6. WEEK: CULTURE ENVIRONMENT

WEEKLY TOPICS (CONTENT)

1. Week	Ornamental fishes: General information
2. Week	Information on commercially valuable ornamental fish species
3. Week	Biology of ornamental fish (freshwater, brackish-water and marine, species.
4. Week	Popular ornamental fish species for culture.
5. Week	Candidate ornamental fish species for culture.
6. Week	Culture environment.
7. Week	Physical, chemical and biological requirements of Ornamental fish
8. Week	Freshwater ornamental fish keeping
9. Week	Brackishwater fish species keeping.
10. Week	Marine ornamental fish keeping.
11. Week	Feeding, reproduction, larva and fry rearing for freshwater ornamental fishes.
12. Week	Feeding, reproduction, larva and fry rearing for Brackshwater ornamental fishes.
13. Week	Feeding, reproduction, larva and fry rearing for marine ornamental fishes.
14. Week	Ornamental fish welfare and sustainable culture practices.

Artificial place prepare

Hiding place

Suitable environmental features

Species selection

Water quality

Diet specific for species

Species selection

Broodstock selection

Broodstock keeping

Broodstock management

Maturation control

Photoperiod

Ovulation

Spermatogenesis

Artificial sex change induced



Oxygen

pH

Saturation

Ammonia

Ammonium

Nitrite

Nitrate



Food source

Manufactured artificial diet

Pelleted

Micro-particulate diet

Live foods

Rotifer

Artemia



Water exchange

Exchange rate

Filtration

Internal filtration

Internal circulation

Oxygenated water

Oxygen generator

External filtration

Recirculating aquaculture

Ras applications

Water pumps

Macrofilters

Microfilters

UV sterilization

Biofilters

Chillers

Ovulation control

Natural spawning

Fertilized egg collections

Artificial spawning

Fertilization

Incubation

Hatching

Calculation of hatching rate

Prelarvea nursery

Postlarvea nursery

Larveal rearing

References

Boyd, C. E. (1982). Water quality management for pond fish culture. Elsevier Scientific Publishing Co..

Hunter, G. A., & Donaldson, E. M. (1983). 5 Hormonal Sex Control and its Application to Fish Culture. In Fish physiology (Vol. 9, pp. 223-303). Academic Press.