

All male tilapia production

Methods



Earthen pond



Concrete tank

Collected egg from the tilapia's mouth



External and Internal Characteristic

Female:

- Smaller than male
- Red and round papilly



External and Internal Characteristic

Male:

- Bigger then female
- Pair of testis a long genite papille



Embryo development of Tilapia

Stage 1: Uneyed

Tilapia egg is pale yellow yolk and no any development

Incubation period: 1day

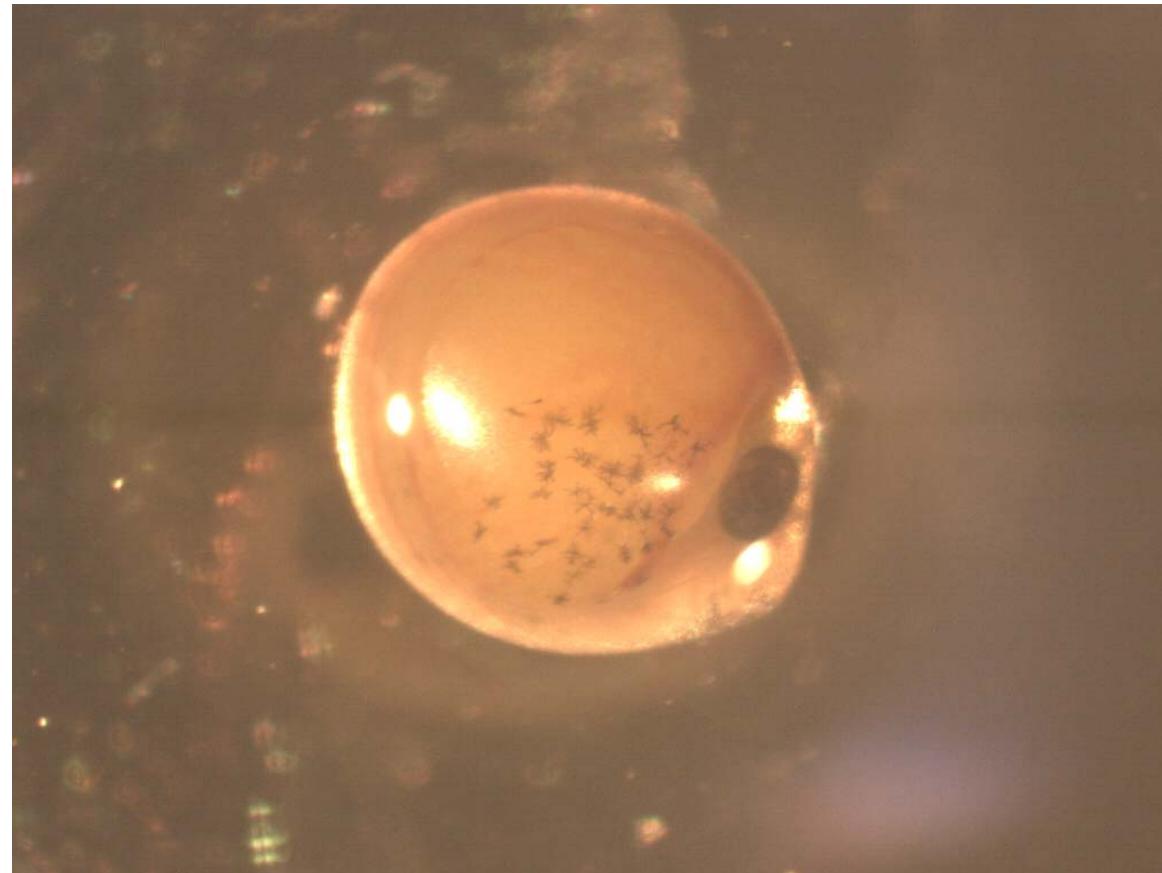


Embryo development of Tilapia

Stage 2: Eyed

Tilapia egg is yellow yolk and 2 black eyes developed

Incubation period :1 day



Embryo development of Tilapia

Stage 3: Pre-hatch

Tilapia egg is brown yolk and two black eyes developed

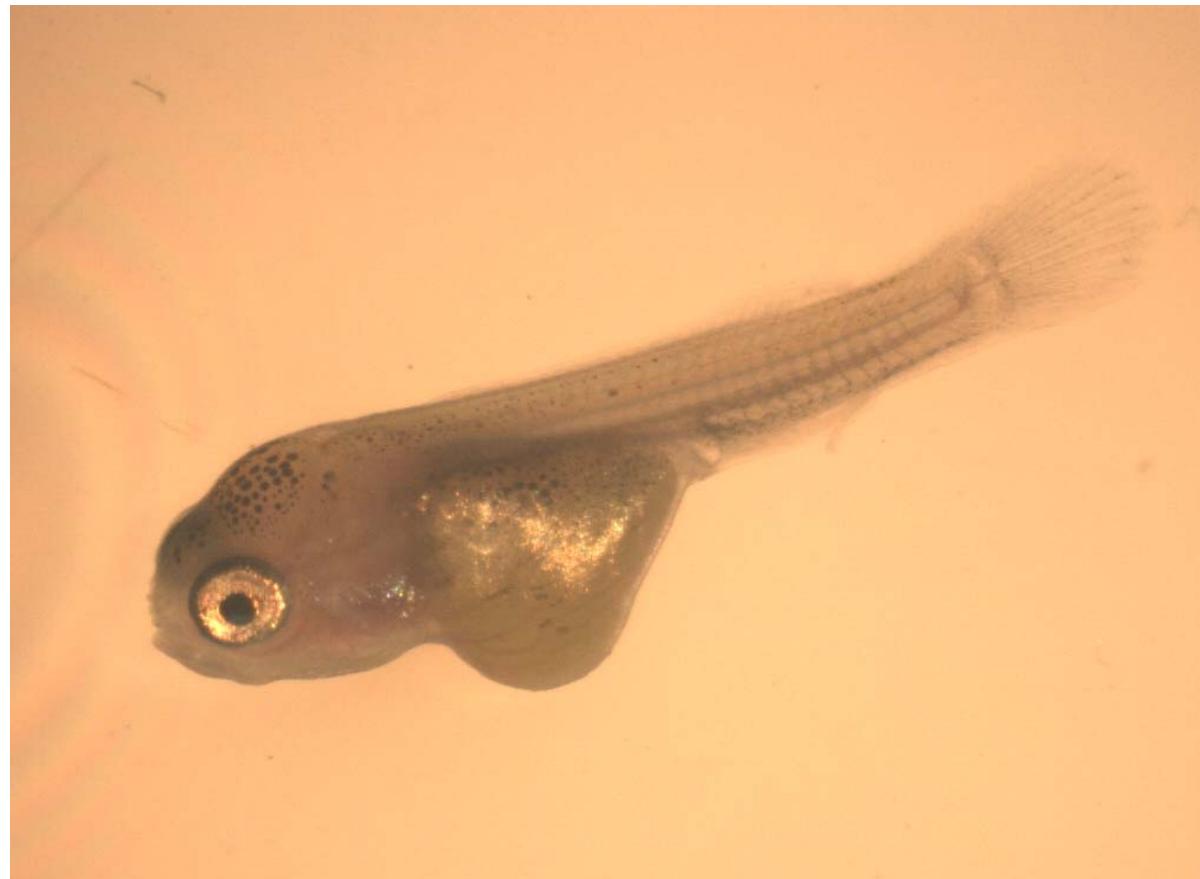
Incubation period : 2 days



Embryo development of Tilapia

Stage 4: **Hatch fry or yolk sac fry**

Tilapia larva has hatched already but still has yolk
Incubation period : 2 days



Embryo development of Tilapia

Stage 5: **Swim-up fry**

Tilapia larva has hatched already and been yolkless



Stage 1 – stage 5 takes 6 days

Prepare feed hormone and control





Feeding Tilapia:

First week feed 30% of body weight

Second week feed 20% of body weight

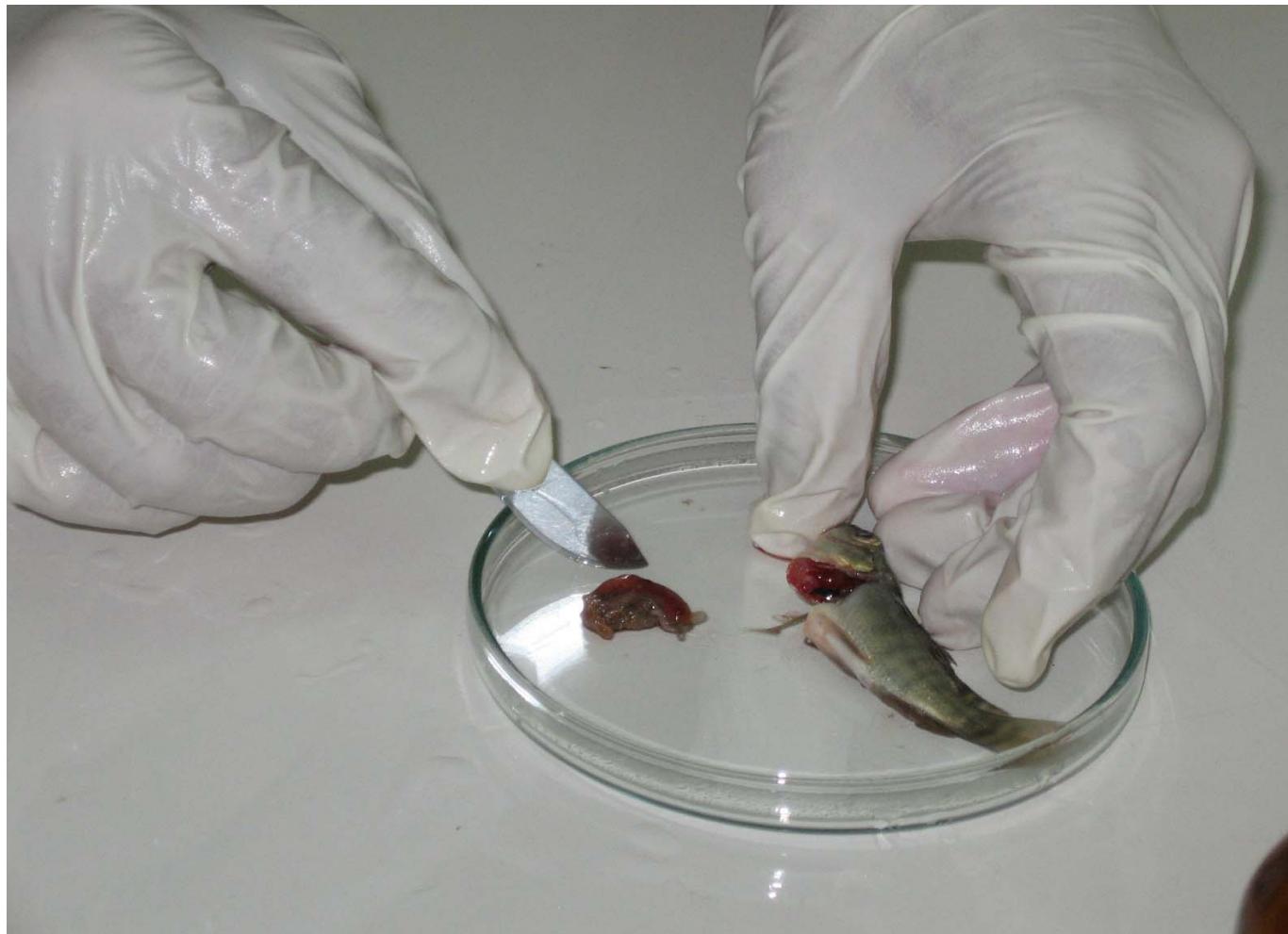
Third week feed 15% of body weight

Sex determination of tilapia

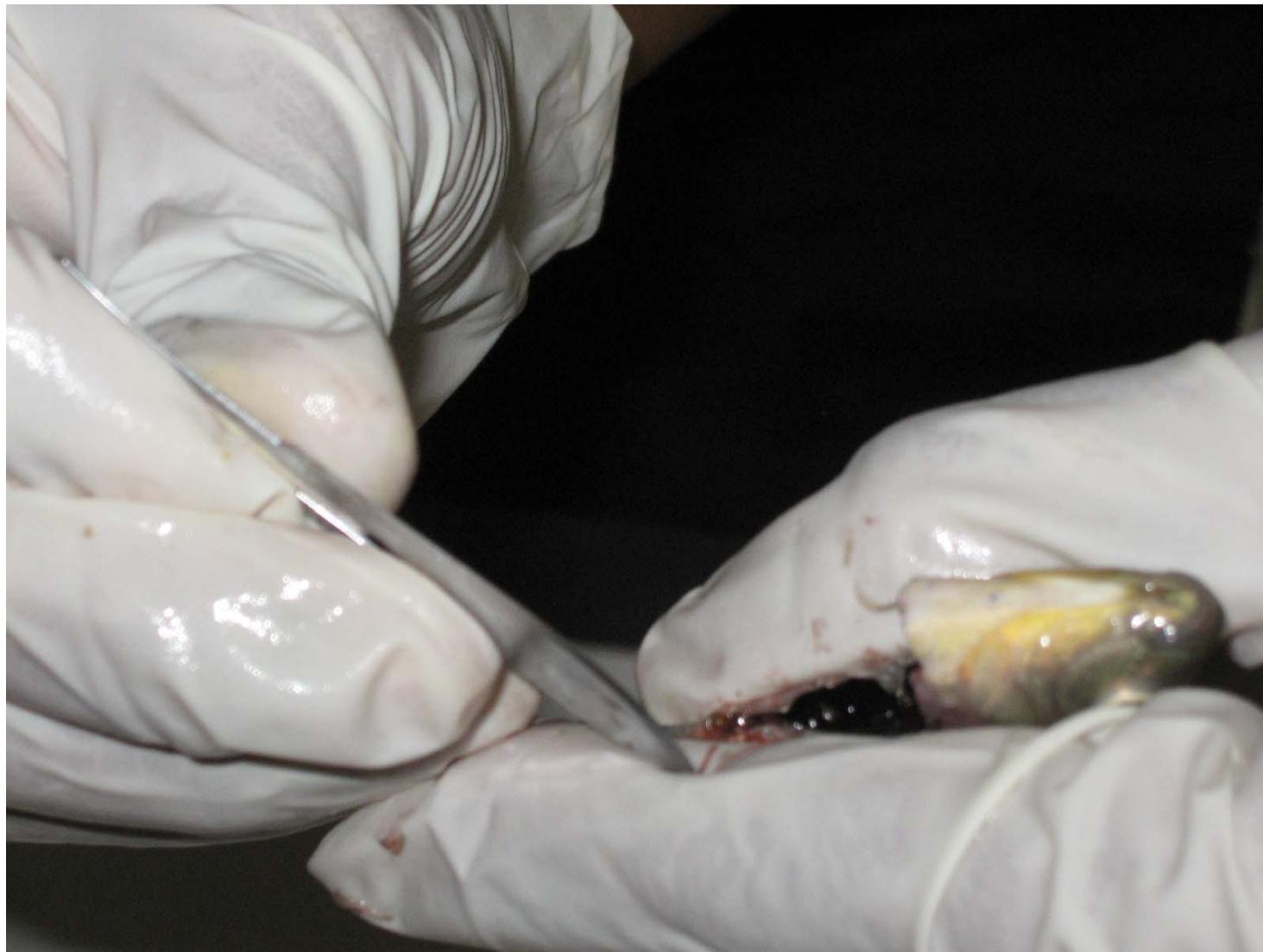
Sampling 0.1 % of each population for testing tilapias will be unconscious with ice.



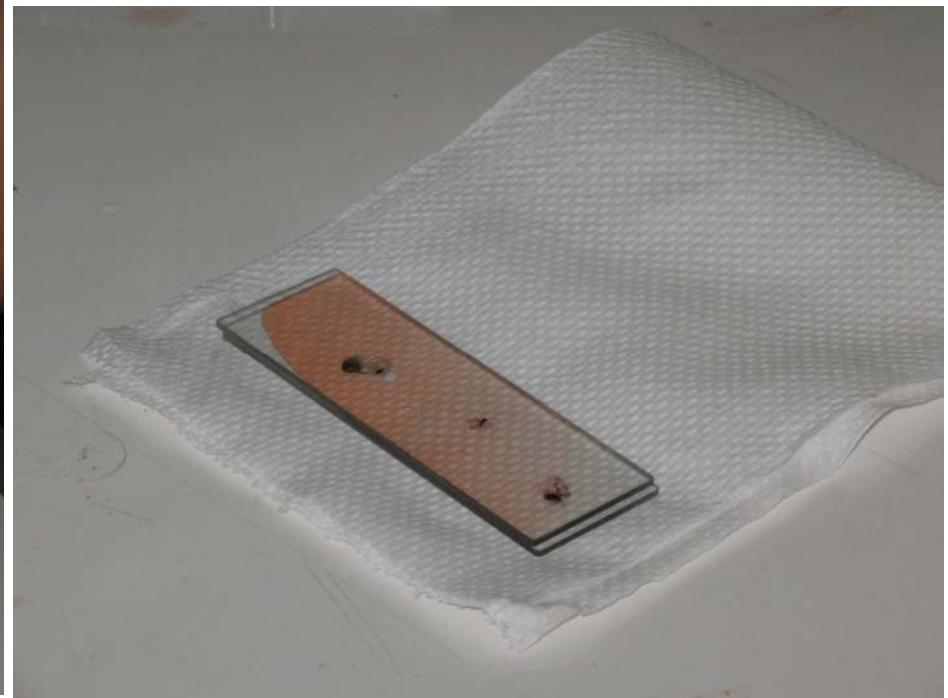
Dissecting Fingerling



Gonad collected



- Sex determination will be determined under microscope
- Staining and squashing of gonads



Sex determined under microscope

