# Lecture 4a

CB

Carp and Trout

# Carp

Ry mass Carp are the most commonly farmed freshwater fish in the world

Also been farmed for longer than any other fish

Mostly farmed extensively in China

Most domesticated fish in the world

Very different from wild fish

⊗ Body shape

Feeding habits

Spawning



# Carp

#### 03

- - Can feed on plant materialCheaper to produce
  - **Grow fast**
  - Can tolerate cold and warm water
    - ₩ill grow well in water above 13°C
    - Spawn naturally when water temp above 20°C
  - **©** Disease resistant







# Carp

### 03

- Many different kinds of carp
  - **S** Polyculture
- Can grow all 4 species together in the same pond
  - Feed in different ecological niches
  - **S** No competition









### Trout

#### C3

- Most well established aquaculture species in South Africa
  - Trout are a highly sort after table fish
    - Very good to eat
  - Long history of farming
    - Reasy to breed in captivity
  - Very high marketability



### Trout

#### 03

- Why are we not all farming trout?
  - **Cold** water species
    - Only a few suitable sites in SA for growing outdoors
    - ∇ery sensitive to water quality and oxygen depletion
    - Require high flow rates
  - Carnivorous fish requires high quality, high protein diet
    - **™** Very expensive
  - Higher start up costs and higher risk

## Trout



- For spawning water must be below 11°C
  - ☼ Trout produce about 1000 eggs/kg

