

Duck-fish culture

Advantages

- Pond fertilization by droppings
- Uneaten feed of duck can be used by fish
- Duck feeds on natural feed available in pond (aquatic weeds, insects, tadpoles, frog larvae, dragonfly larvae etc.)
- Duck keeps the waterbody clean and produces DO through swimming
- No additional land required for duck rearing place (on dyke or over pond)
- Reduces production cost (fertilizer, feed, labour)
- Production of duck and fish increased

Fish species/density

- Species/density used under carp polyculture

Duck strain

- Indian runner, Khaki cambel

Duck feed

- Rice bran and poultry feed (100-120 g/duck/day)

Fish feed

- No supplementary feed required
- Duck waste used as direct feed by common carp
- Weeds/plants supply required for grass carp

Duck waste

- Each duck produces 125-150 g waste per day.
- Duck SD of 200-300/ha produces 10000-15000 kg droppings which is recycled in 1 ha pond every year
- Droppings have 81% moisture, 0.91% nitrogen and 0.38% phosphate as dry matter basis

Fish harvesting

- Partial harvesting and restocking

Production

- Fish: 3500-4000kg/ha/yr
- Duck eggs: 18000-18500
- Duck meat(after 2 yrs): 500-600 kg