

Aquaculture 2

Shellfish

Aquaculture Methods

Crustaceans

- Pond culture
- Marine Stocking

Shellfish

- Bottom culture
- Raft culture (Rope)
- Pond

Sources of seed

- Wild collection
- Hatchery



Photo: Garthwaite



Photo: Scovarisochi

Prawns

- Young (Fingerlings) caught in sea close to shore.

- Transferred to hatchery

Or:-

- Raised in tanks and ponds
- Brood stock then kept in tanks and allowed to spawn to re-start the cycle

Collecting fingerlings: Bangladesh



We need to prevent transmission of diseases within and between fisheries



Fish transfer should only be done when:

- Fish are examined and issued disease-free certificates
- Relevant parties are informed regarding fish transfer

Prawn Hatchery S.E. Asia



Boxes of charcoal for filters and UV light tubes for sterilising water



Brood stock tanks are kept covered



Shrimp pond



Floating aerators to provide oxygen



Pond base is cleaned at end of cycle



Coastal ponds



Ponds along coastal areas: disease can spread through water inlet/ outlet containing disease

Additives

- Growth and health are monitored
- Feed is provided in pelleted form
- Antibiotics are used as necessary
- Growth stimulators of unknown origin should be avoided!



Growing methods

- Ponds
- Raceways / onshore tanks
- Reseeding to wild



Harvesting

- Netting ponds / tanks



Photo: ESAV

Harvesting

- Netting ponds / tanks
- Wild harvest techniques



The species

- Penaeid prawns



Photo: ESAV

The species

- Freshwater prawns



Photo: Kutter



Photo: Mosmann / Hofmann

The species

- Spiny lobsters



Photo: Steene



Photo: Kutter

The species

- Clawed lobsters



Photo: Scovaclochi



Photo: Neuschwander

The species

● Crabs



Photo: Bryce



Photo: Neuschwander

The species

● Freshwater crayfish



Photos: Mosimann/Hofmann, Charlotte

Shellfish

Molluscs

- Oysters,
- Mussels
- Clams

Oysters



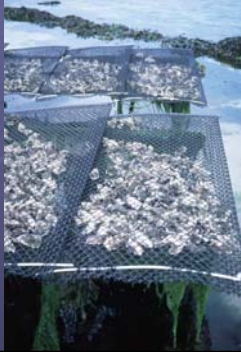
Seed casting



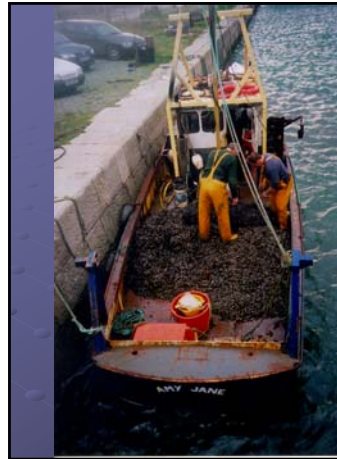
Covered with protective net



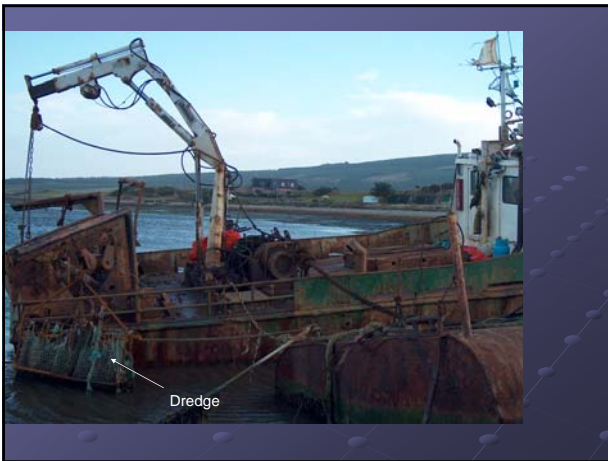
Oysters in nets on trestles



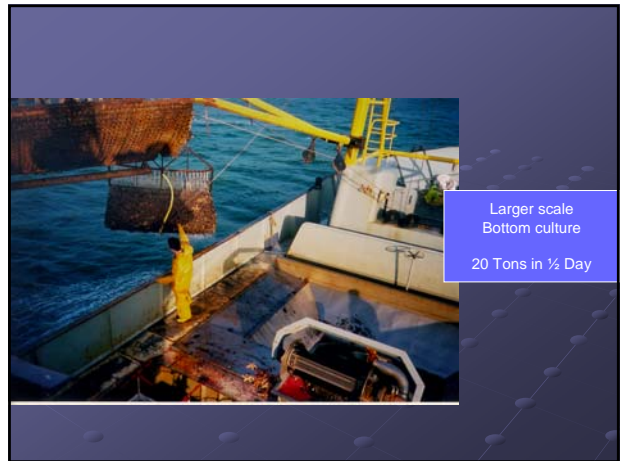
Raising off ground
avoids predators
such as crabs



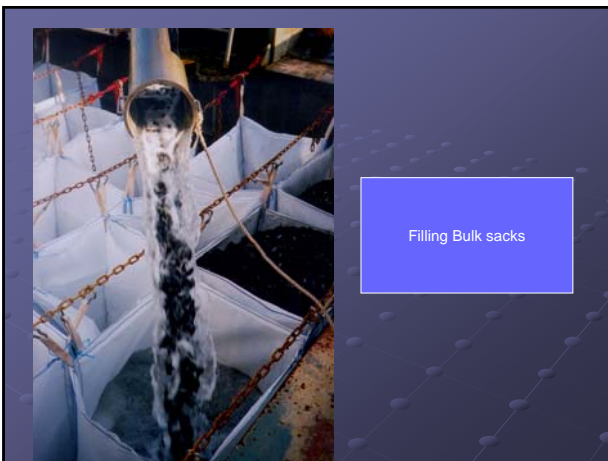
Small scale harvesting
From Bottom Culture
1 ton per day



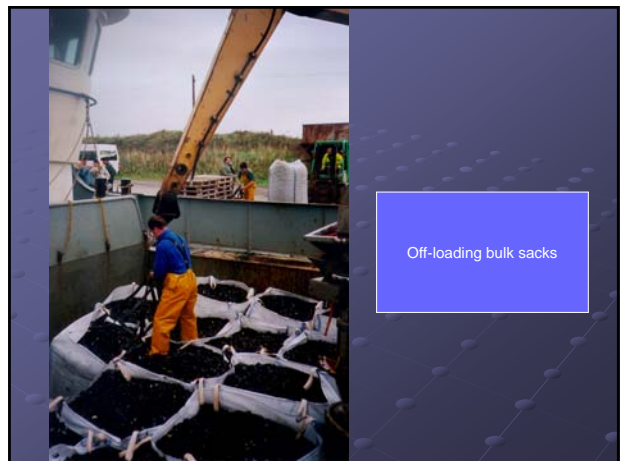
Dredge



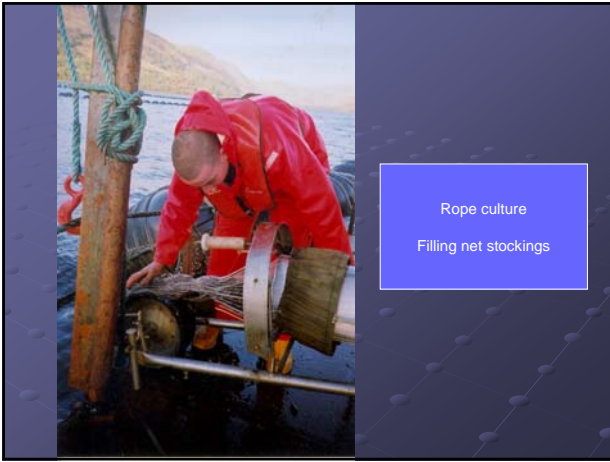
Larger scale
Bottom culture
20 Tons in ½ Day



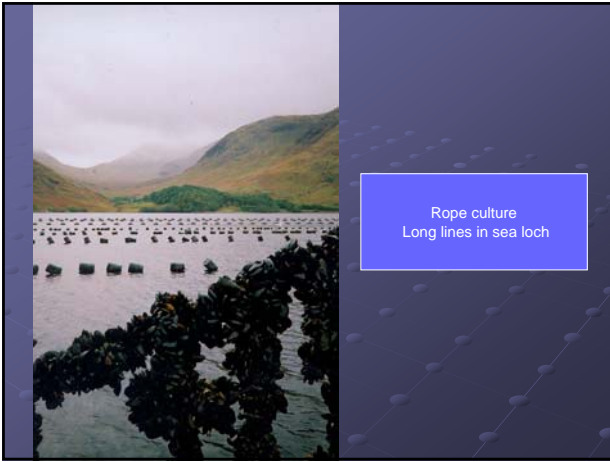
Filling Bulk sacks



Off-loading bulk sacks



Rope culture
Filling net stockings



Rope culture
Long lines in sea loch