



Penaeus monodon - Giant Tiger Prawn





Site Selection For Prawn Farm Projects

o1. Topography



2. Water Source & Drainage



os. Soil Quality





os. Power Source



o6. Socio-Political Factors



or Environmental Factors



Prawn Farm Project Design & Construction

Inlet Canals & Water Pumping System



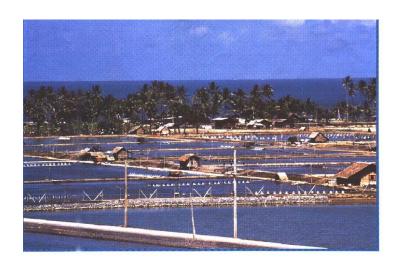
Reservoir

Supply Canals & Flumes



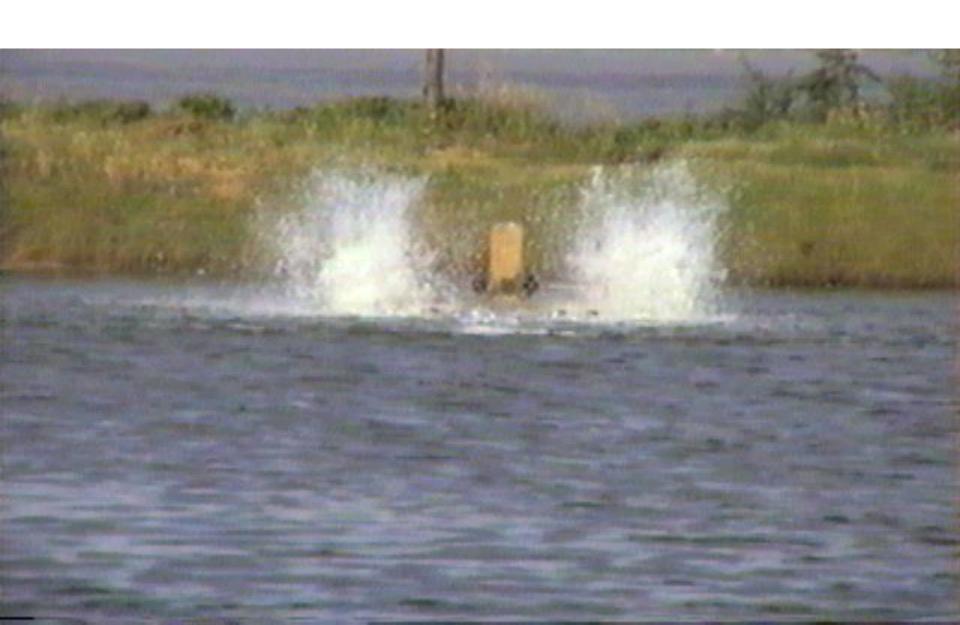
Pond Shape



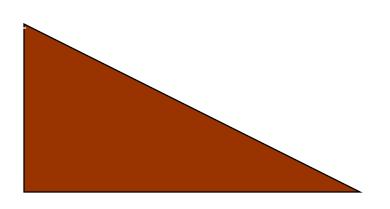


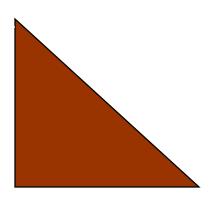


Pond Size

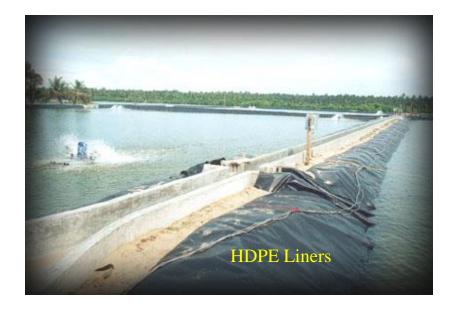


Pond Dikes









Inlets

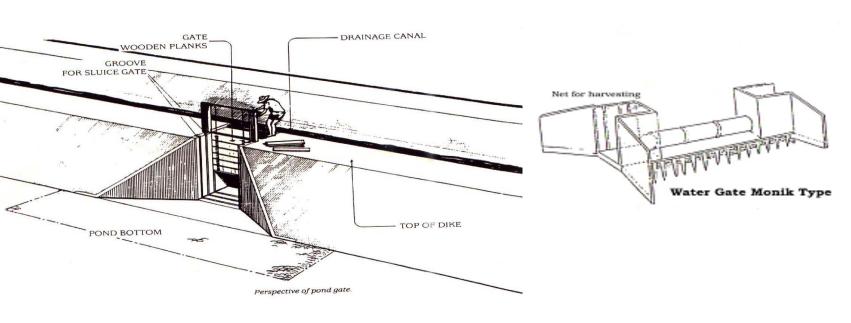


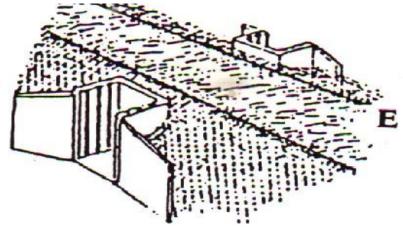


Outlets





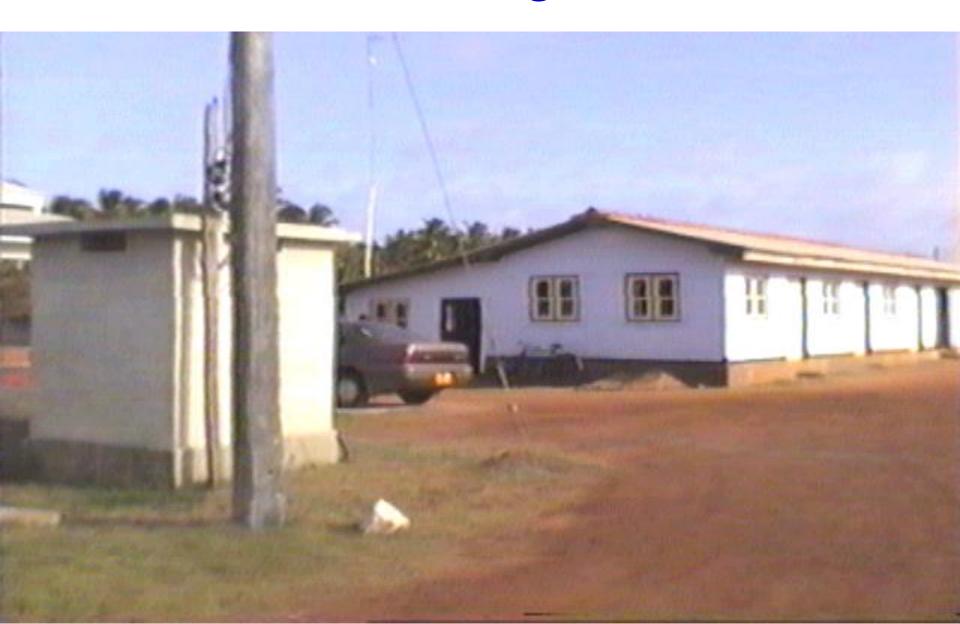




Sediment Pond



Buildings





Pond Preparation

















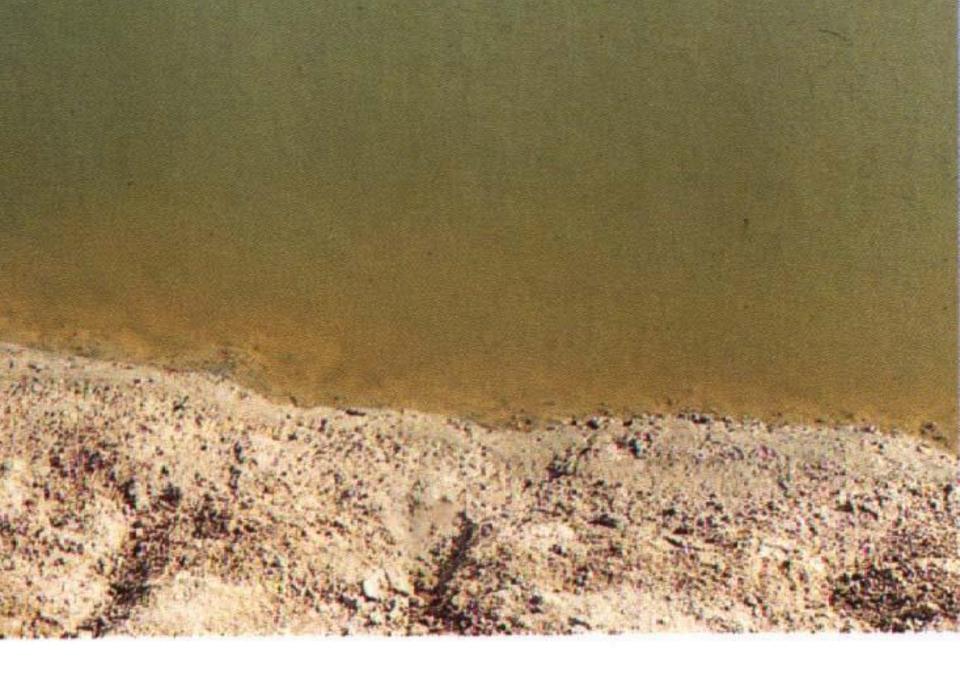




















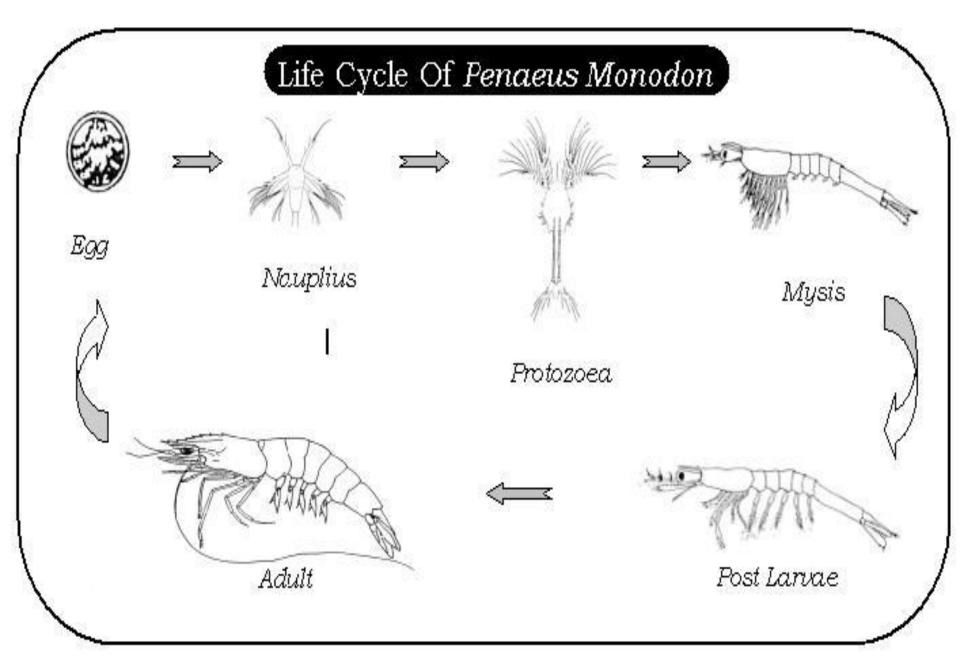




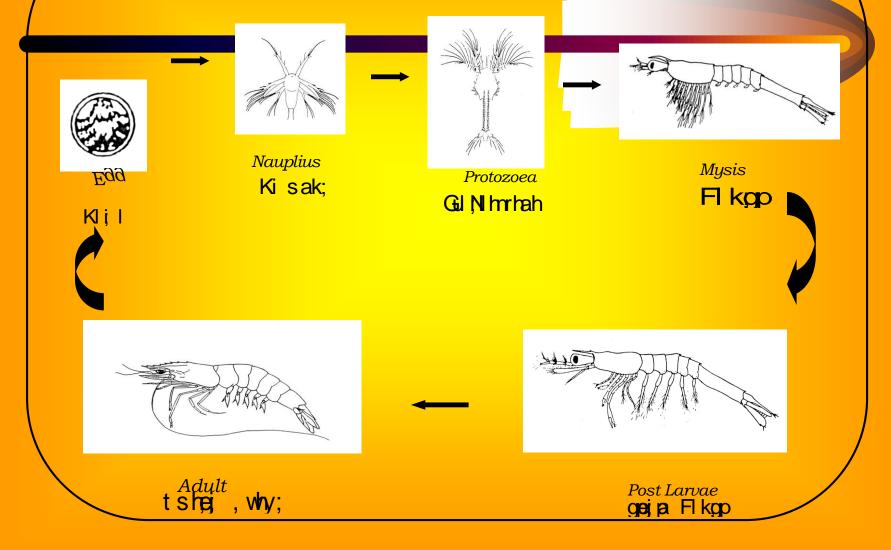


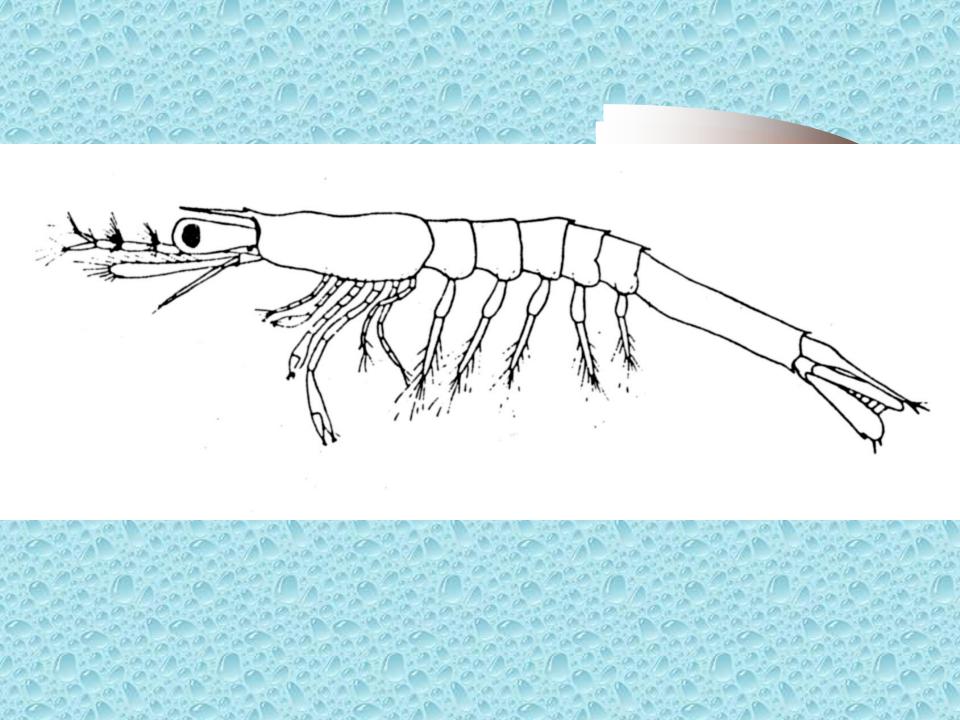
Post Larvae Selection & Stocking

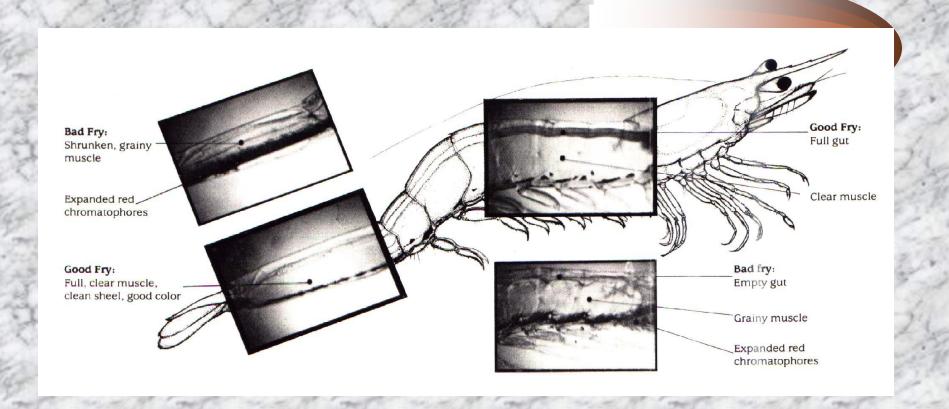




Life Cycle Of Penaeus Monodon







Centrifugal Force Test





































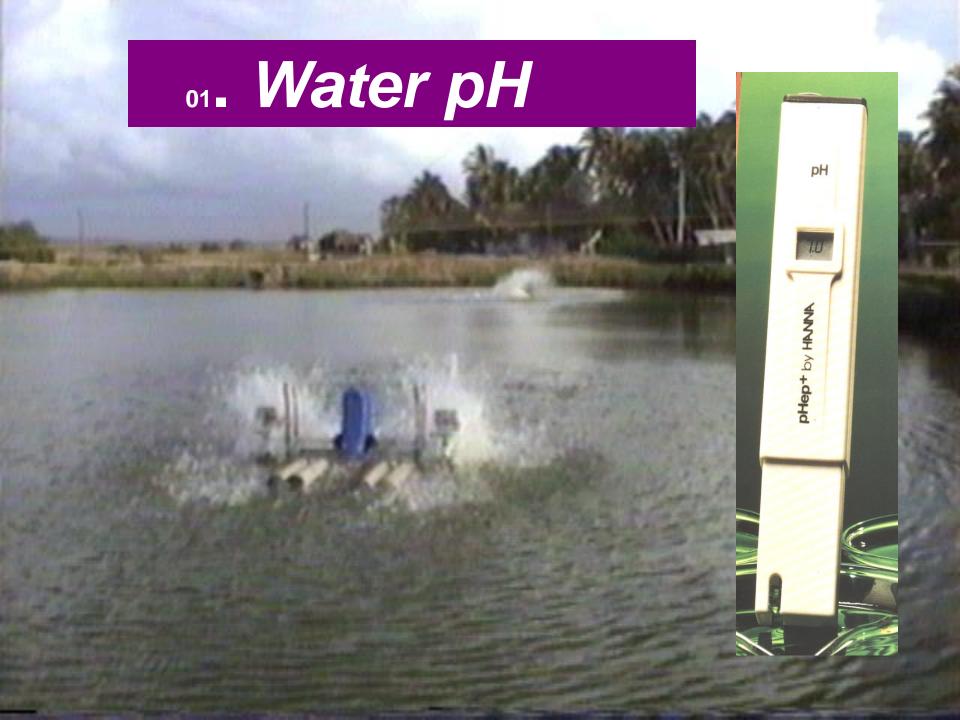


Water Quality Management & Feeding

Parameters for Prawns Culture

```
Soil pH
Salinity) (ppt)
Water pH
DO-mg/l
NH3 (mg/l)
Total NH3 (mg/l)
Sulphide (mg/l)
6.5 - 7.0
15 - 25
8.0 - 8.5
> 3.5
> 1.0
< 0.03
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< 160 - 180
Alkalinity (mg/l)
Nitrite - NO2- (mg/1)
                                < 0.25
Nitrate - NO3- (mg/l)
                                < 20.0
Phosphate - PO4+ (mg/l)
                                < 3.0
Iron - Fe (mg/l)
                                < 1.0
Free Chlorine (mg/l)
                                 0.00
Suspended Solid
                                 50.0
Bacterial Counts (TCBS Medium)
Yellow Colonies (Nos./mg)
                                < 25.0
Green Colonies
                                0.00
Algae Type
Sechi Disk Reading) (cm)
                                25-35
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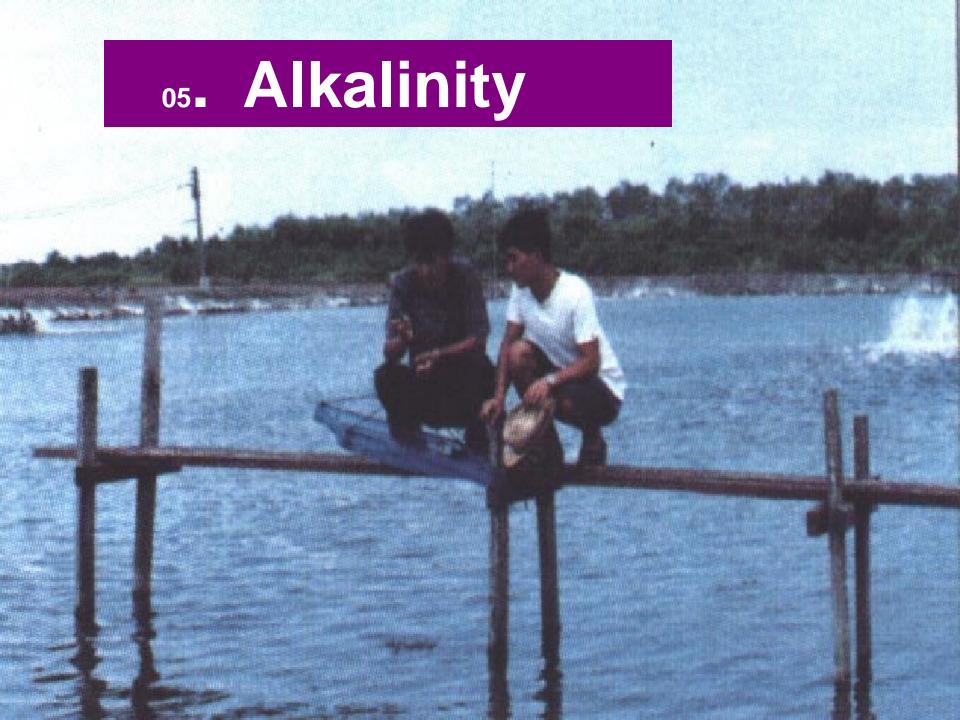




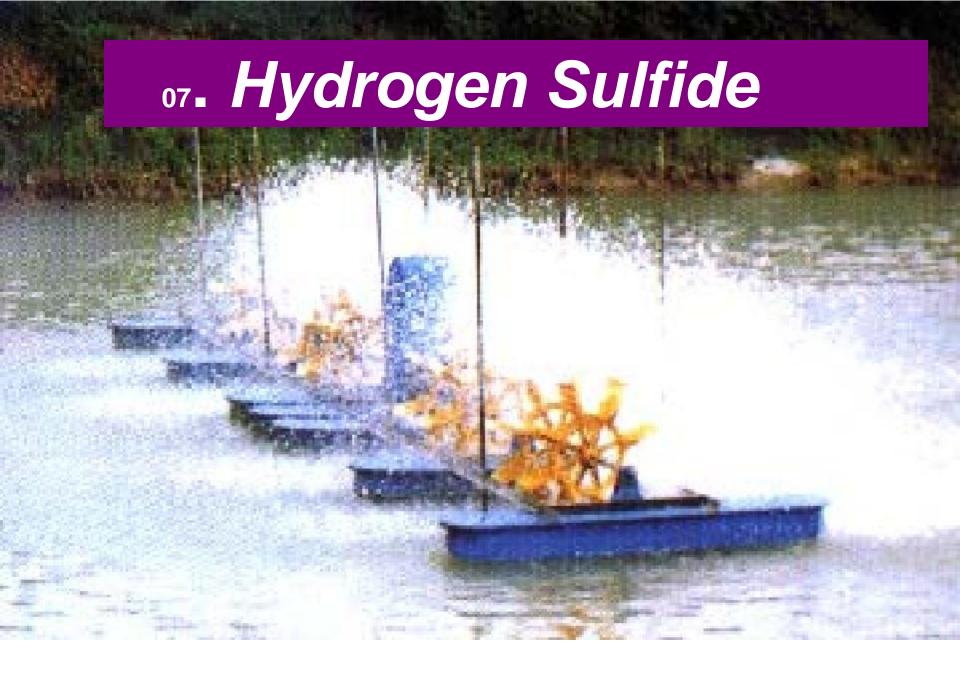














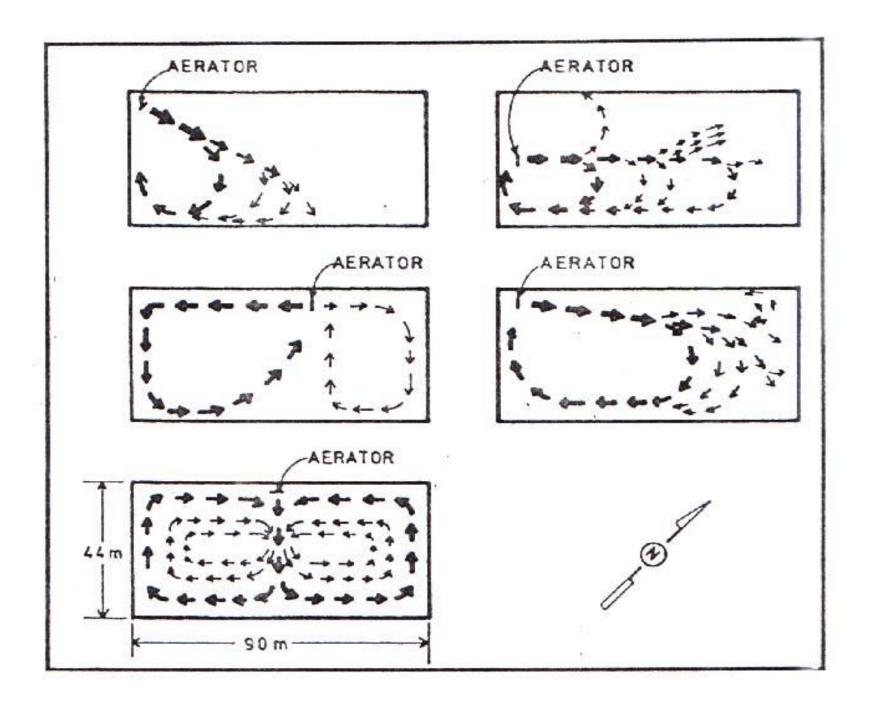


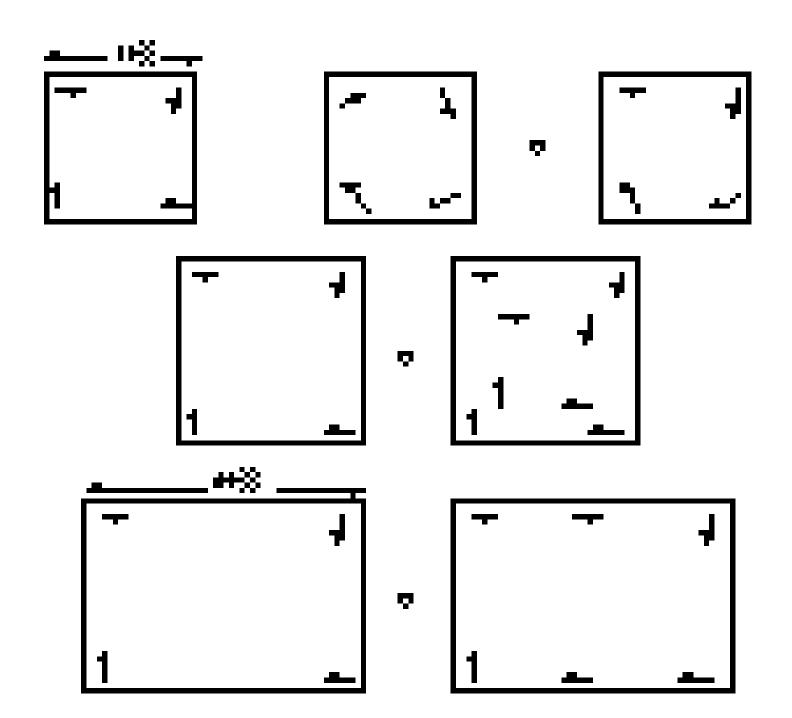




Type of aerator	Average oxygen transfer efficiency (Kg O ₂ /Kw-hr)
Paddle Wheel Aerator	2.13
Propeller - aspirator pump	1.58
Vertical pump	1.28
Pump sprayers	1.28
Diffused air system	0.97









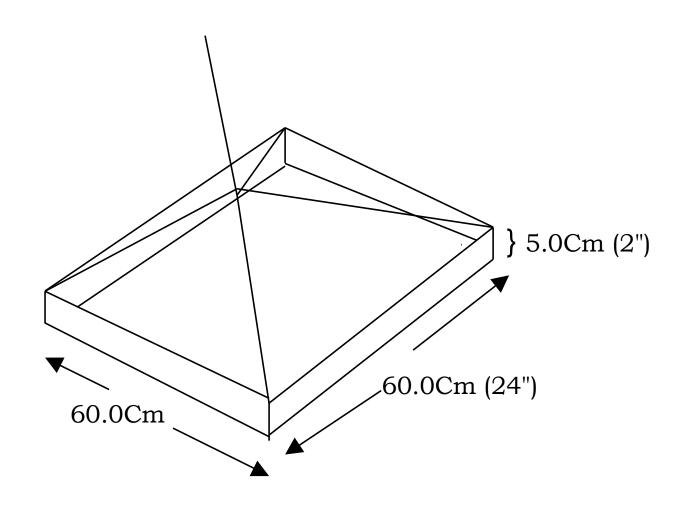
Feeding.







Feed Tray







Feeding Times

		4 •
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LEEU	\mathbf{H}	time
	3	

% of feed per time

07.00 a.m

12.00 Noon

06.00 p.m

10.00 p.m

02.00 a.m

25% or 20%

10%

25%

25%

15% or 20%









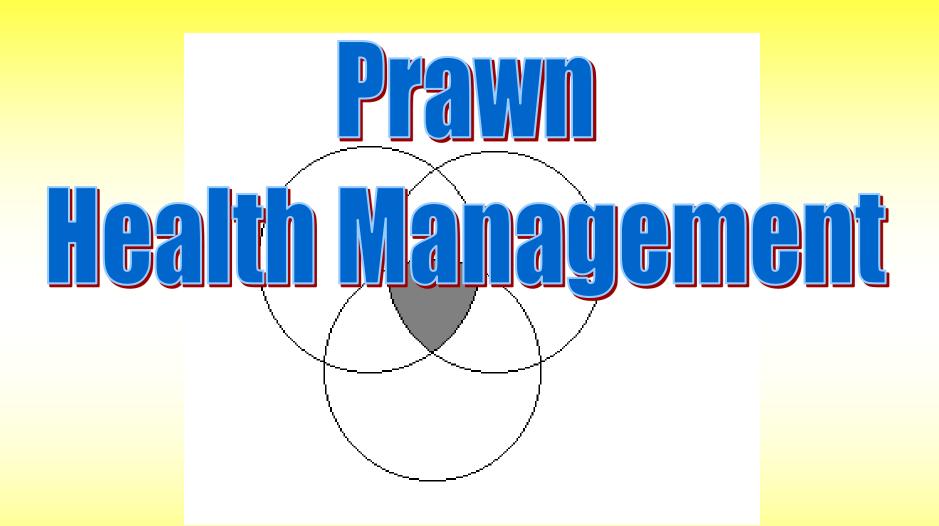












Protozoan Diseases



•Shrimp with Cotton Disease



Cross section of tiger shrimp showing cotton disease.

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Shrimp with Zoothamnium fouling

Fungal Diseases



Legenidum



Fusarium Species

Unusually severe external fouling

Bacterial Diseases

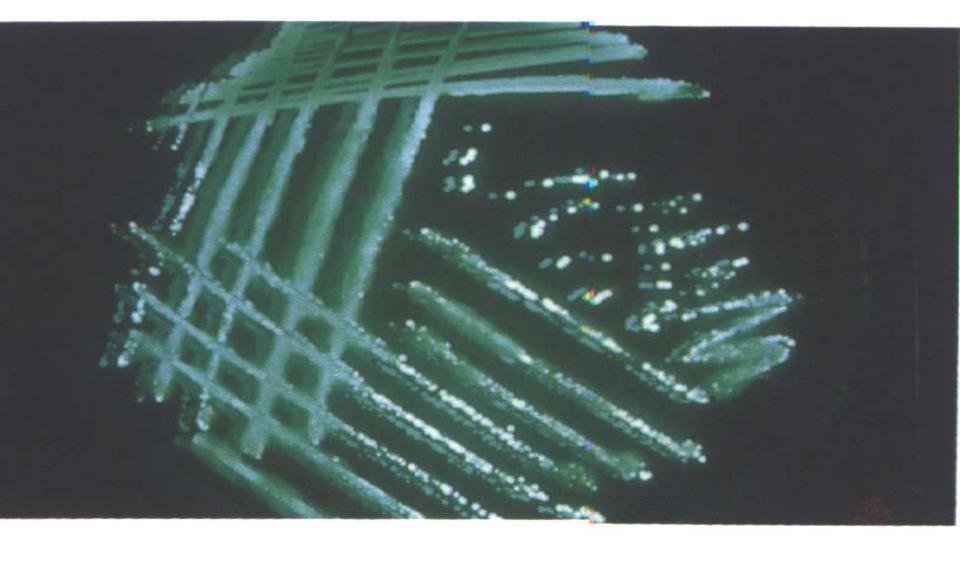


Plate inoculation pattern with luminescent bacteria



Tail Rot Disease



'Black splinter'





Shrimp with Brown Muscle disease



Brown discolouration of the gill



Black discoloration of lesions on the shell



Black discoloration of damaged appendages



Shrimp With Rust Disease

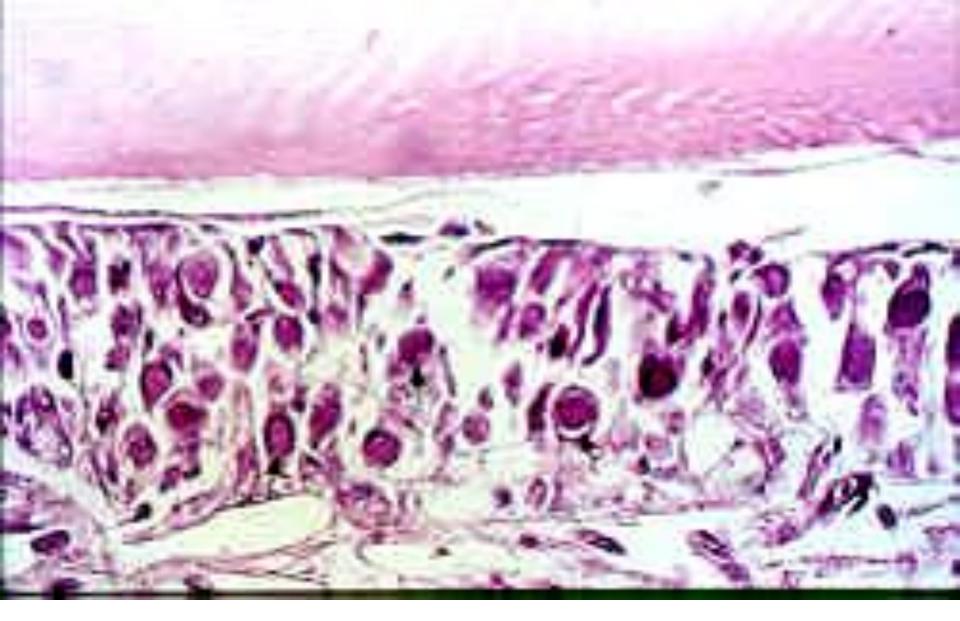
Viral Diseases



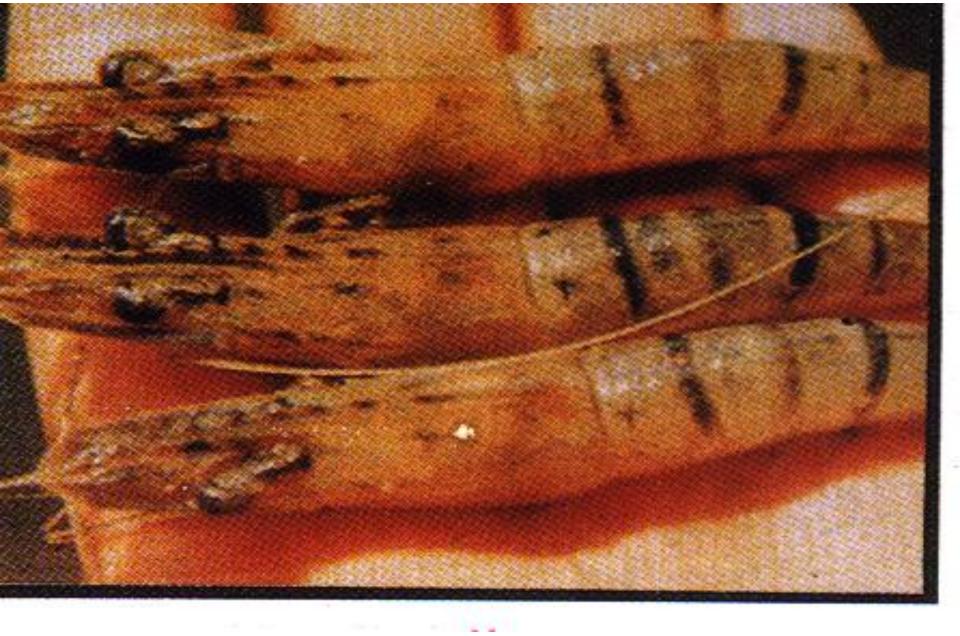
White Spot Virus Disease



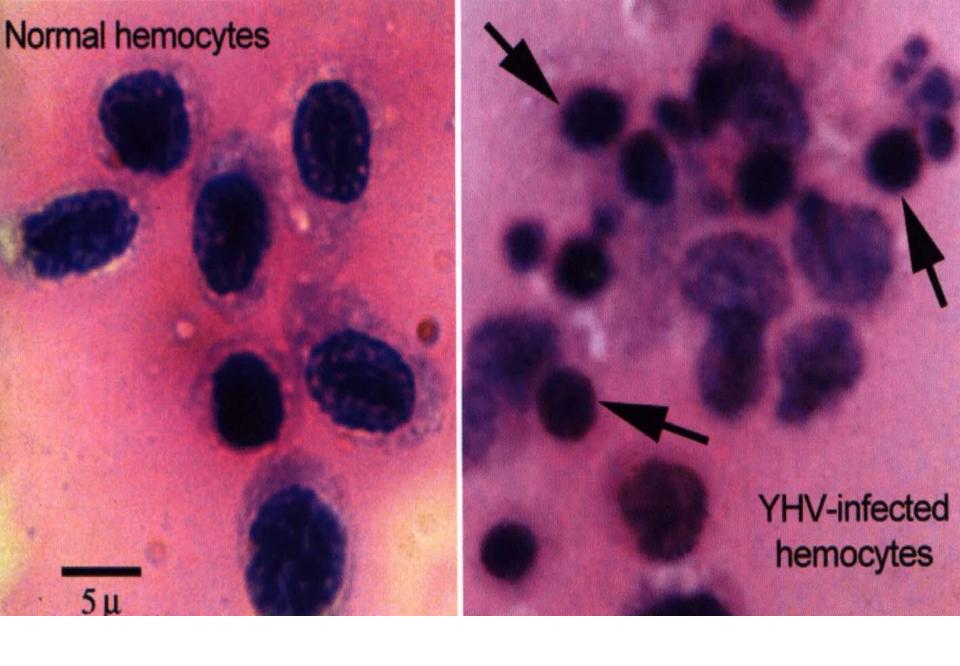
White Spot Virus Disease



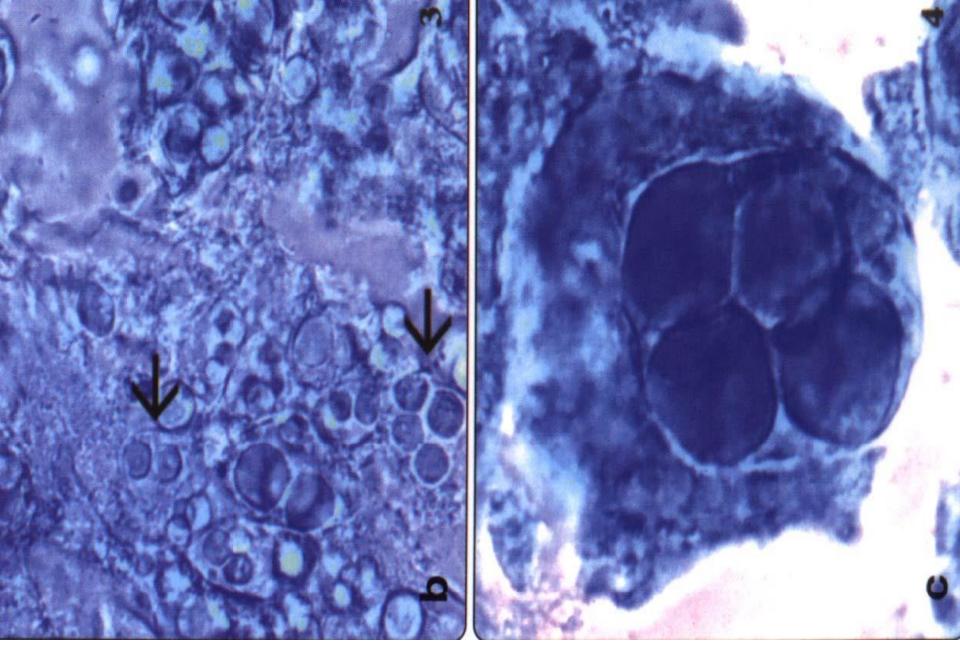
White Spot Disease Virus



Shrimp with Yellow Head Disease

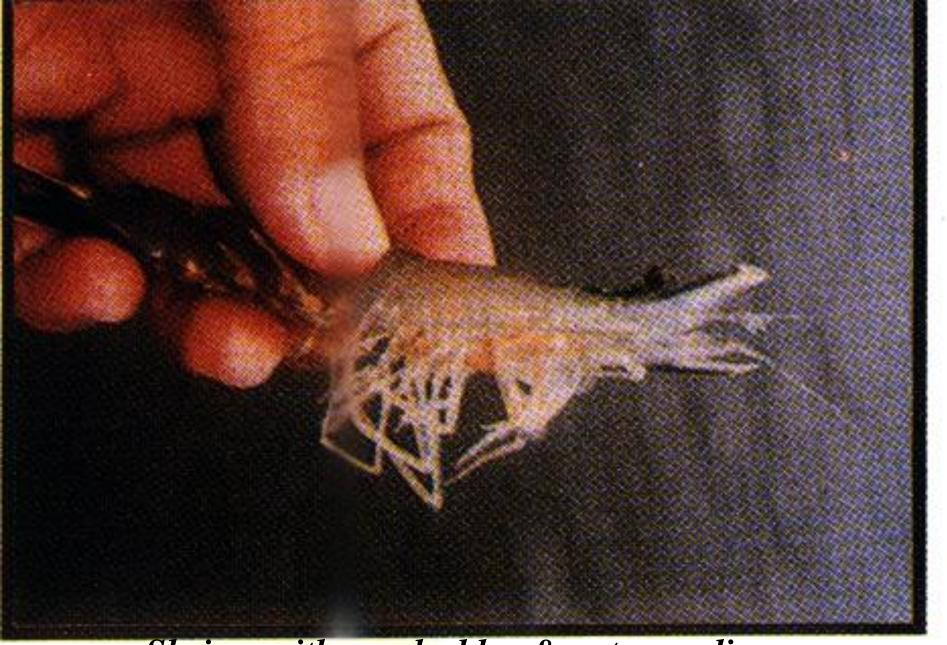


Yellow Head Disease Virus

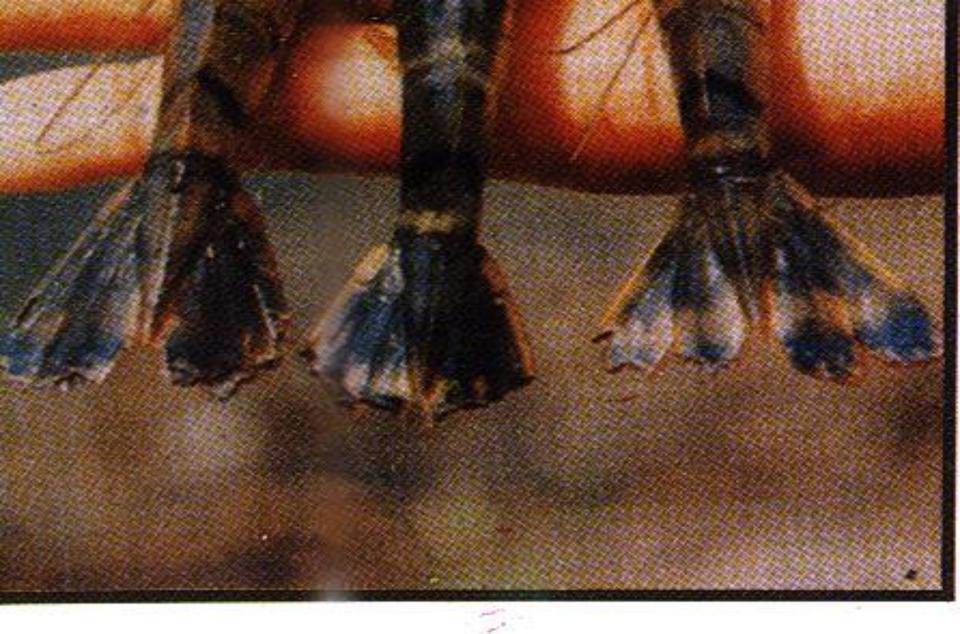


MBV Virus

Influence of Environmental Factors



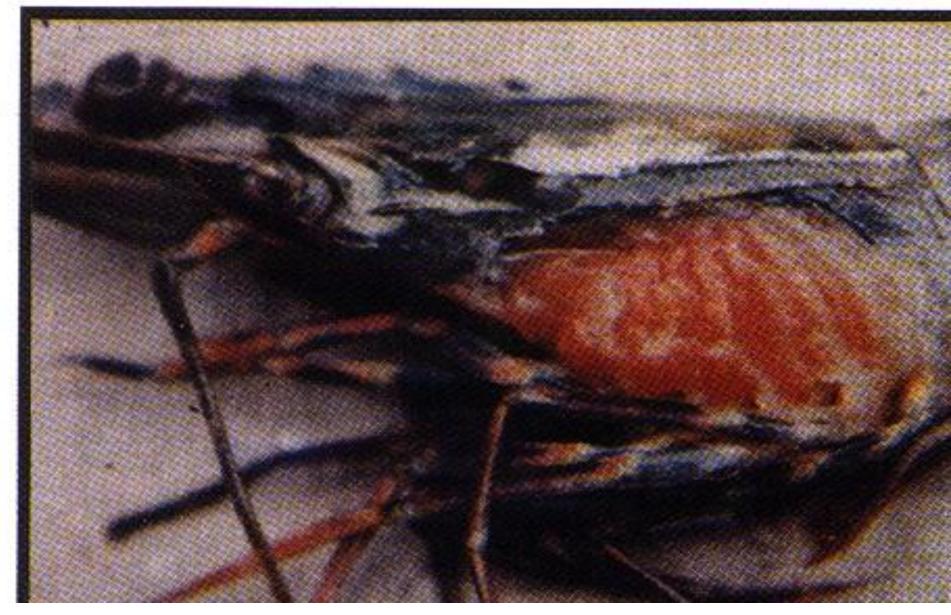
Shrimp with crooked leg & antenna disease



Tail Rot Disease



Black gills



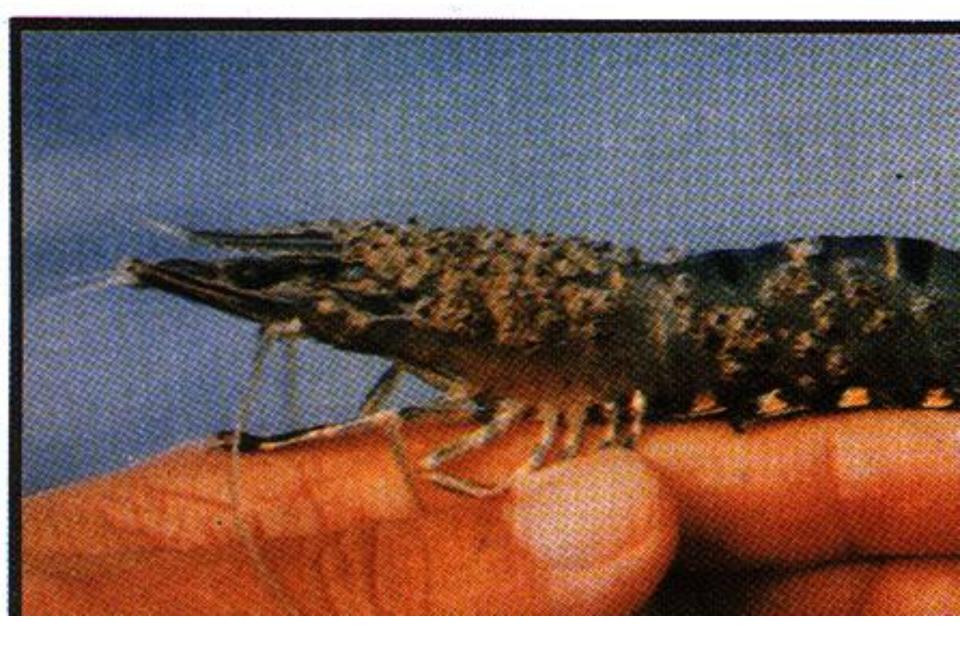
Red discolouration of the gill



Shrimp with Blue Disease



Shrimp with soft shell disease



Shrimp with barnacle fouling



Shrimp with Reddish Appendages



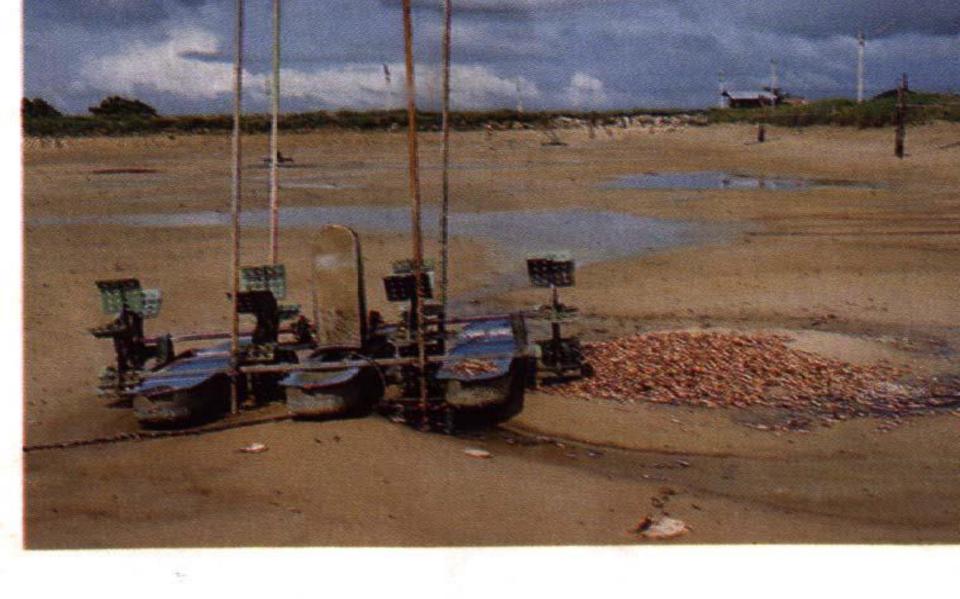
Shrimp with algal fouling



Sick shrimp at the edge of the pond



Dead shrimp at the edge of the dike



Mass mortalities on the pond bottom

Prawn Harvest & Post Harvest Handling





































































