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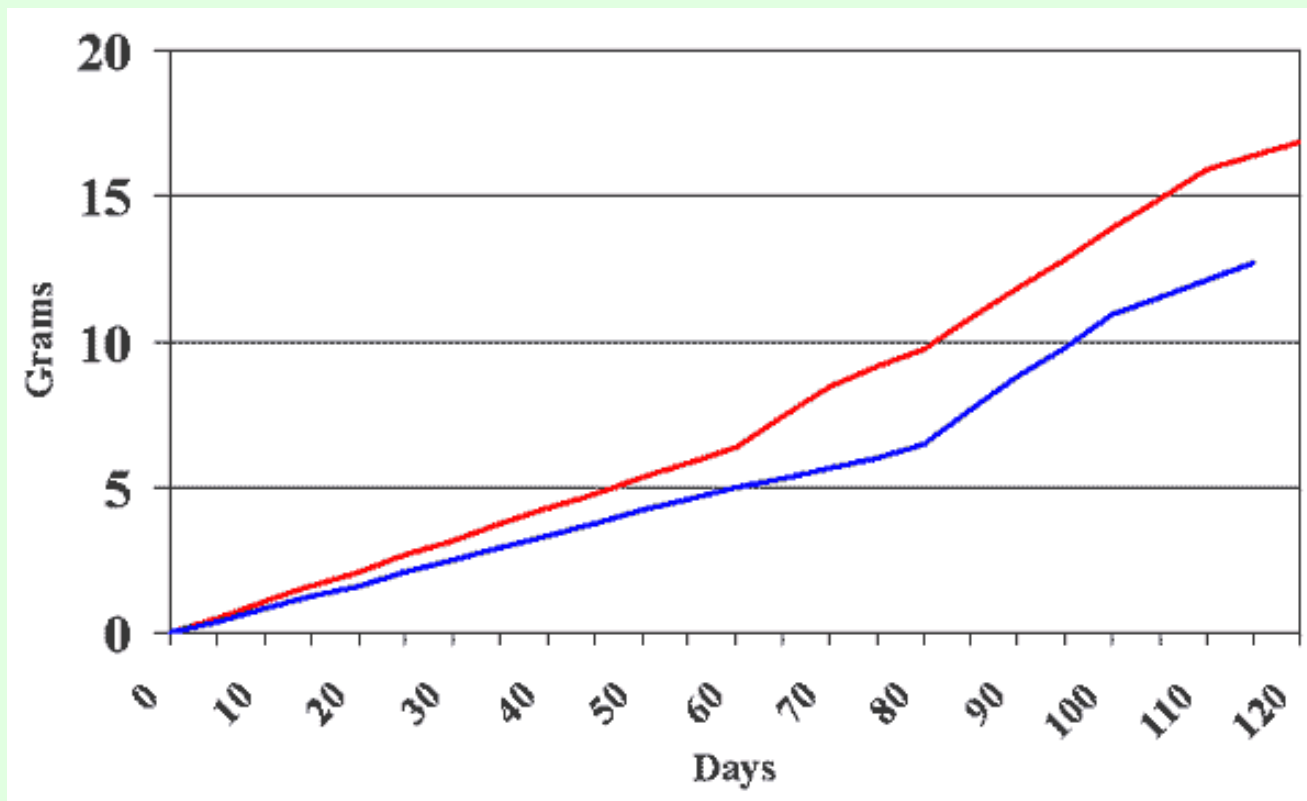
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## AZOMITE® And Shrimp

On-Farm Demonstration in Chonburi Province, 2002

### Shrimp Study - Growth Graph



Comments: Test weighings of shrimp at 60, 70 and 80 days showed a marked difference in the growth rates of test vs control. The study director then started feeding **AZOMITE®** feed to the control shrimp. After day 80 the graph shows the growth rate of the control shrimp (now eating **AZOMITE®** feed) was parallel to the test shrimp on **AZOMITE®** from start.

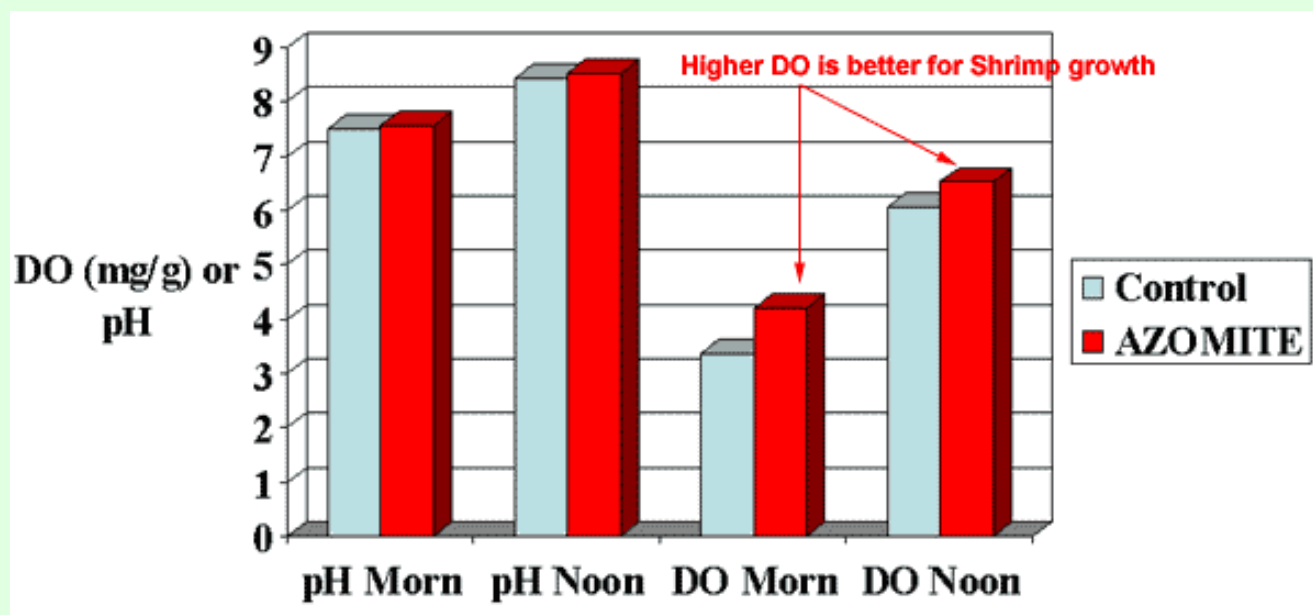
### Shrimp Study - Economic Analysis

| Parameter     | <b>AZOMITE® pond</b> | <b>Control pond</b> |
|---------------|----------------------|---------------------|
| Total harvest | 915.4 kg             | 833.7 kg            |
| Shrimp price  | 186 baht/kg          | 149 baht/kg         |
| Total income  | 170,264 baht         | 124,221 baht        |
| Feed cost     | 37,455 baht          | 34,395 baht         |
| Fry cost      | 20,000 baht          | 20,000 baht         |
| Fuel cost     | 20,000 baht          | 20,000 baht         |
| Other cost    | 50,000 baht          | 48,000 baht         |
| <b>Profit</b> | <b>42,809 baht</b>   | <b>1,826 baht</b>   |

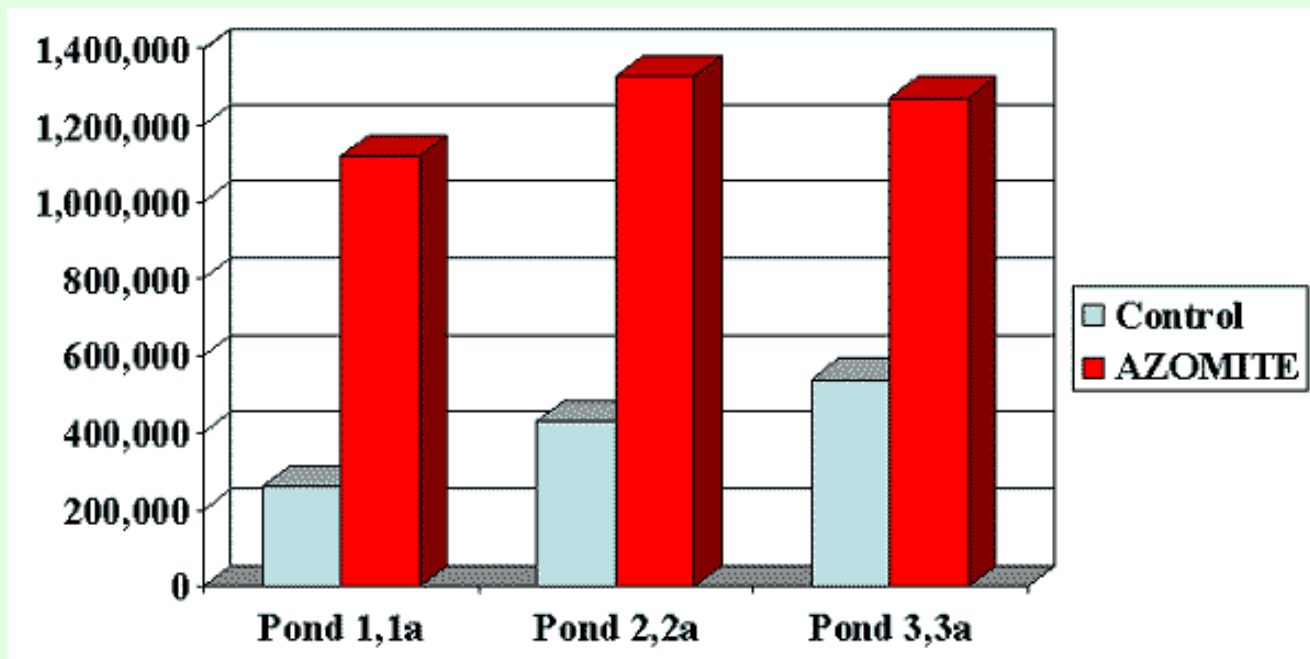
## Black Tiger Shrimp ( with and without AZOMITE® )

- Larval shrimp were grown until they reached PL 15 stage, and then 6 ponds, average surface area of 3,667 M<sup>2</sup>/ HA per pond, were seeded with the PL 15 for a cultivation study. 3 Ponds served as Controls and 3 Ponds were treated with AZOMITE? (Trial)
- Cultivation was done for 120 days, and both groups received identical feeds (GROBEST)
- Shrimp were seeded at a density of 30 PL/M<sup>2</sup>
- The soil in Trial ponds was treated with AZOMITE? at the rate of 200 Kg/HA
- Dissolved Oxygen, pH, Phytoplankton & Zooplankton Populations, Growth Rate and Survival were measured

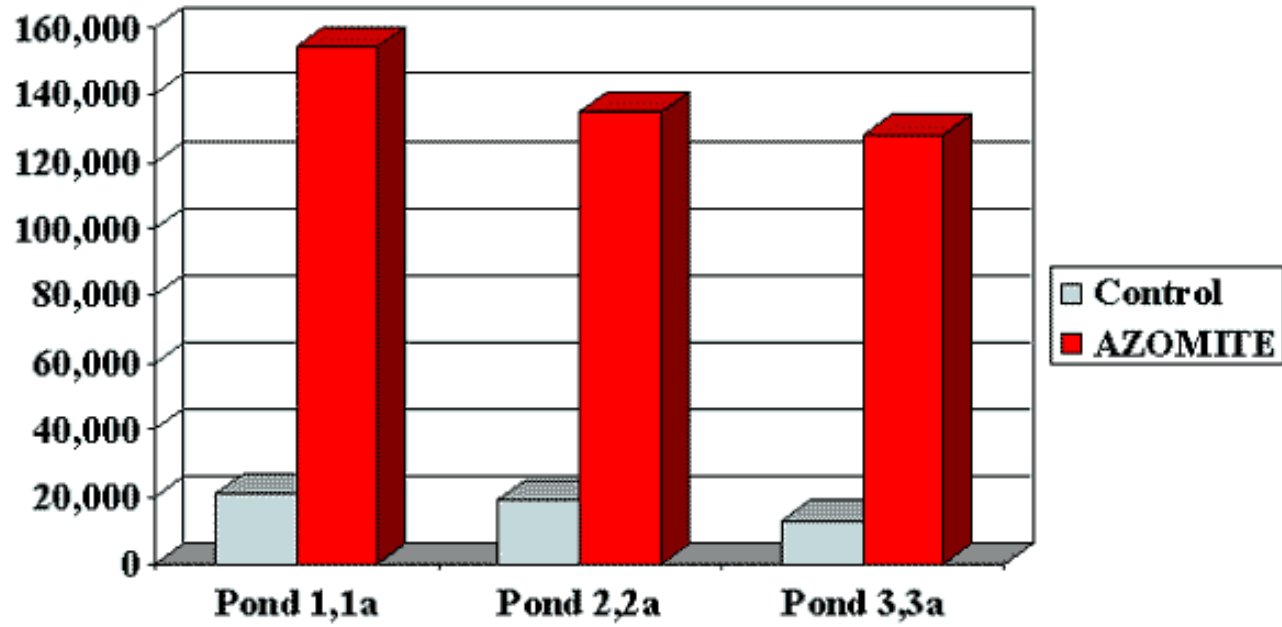
### pH and Dissolved Oxygen in Black Tiger Study



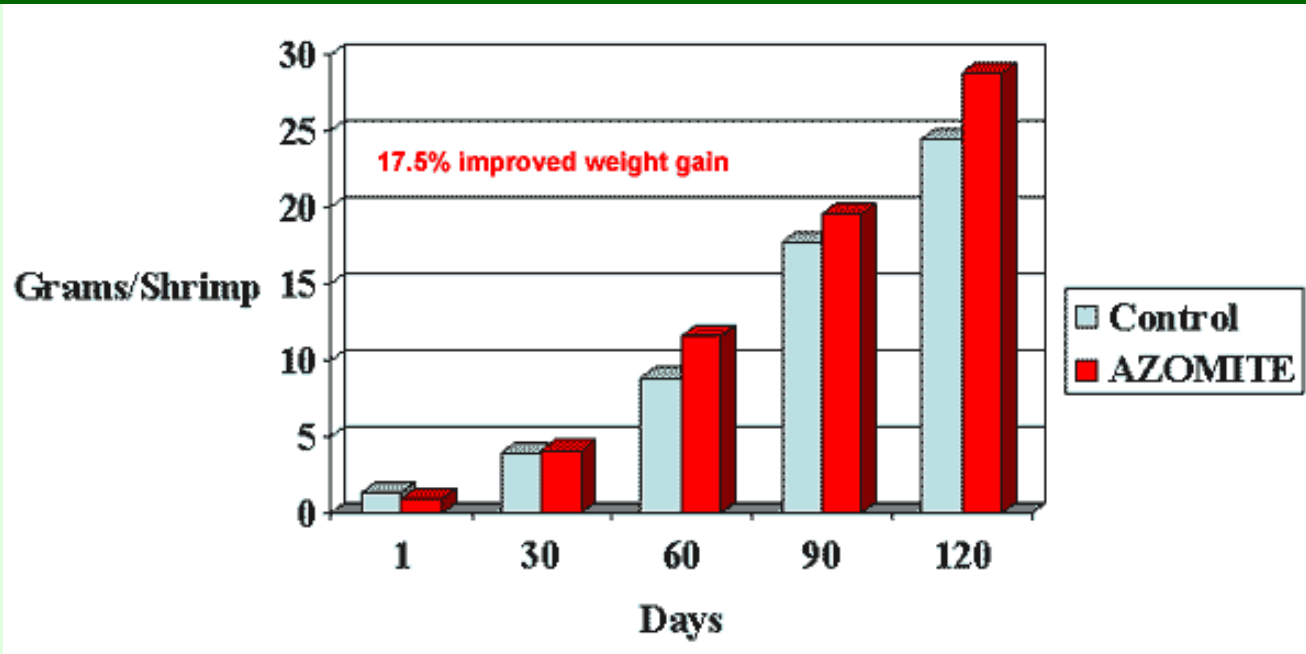
### Phytoplankton (Food for Shrimp) Population (Cell/Litre)



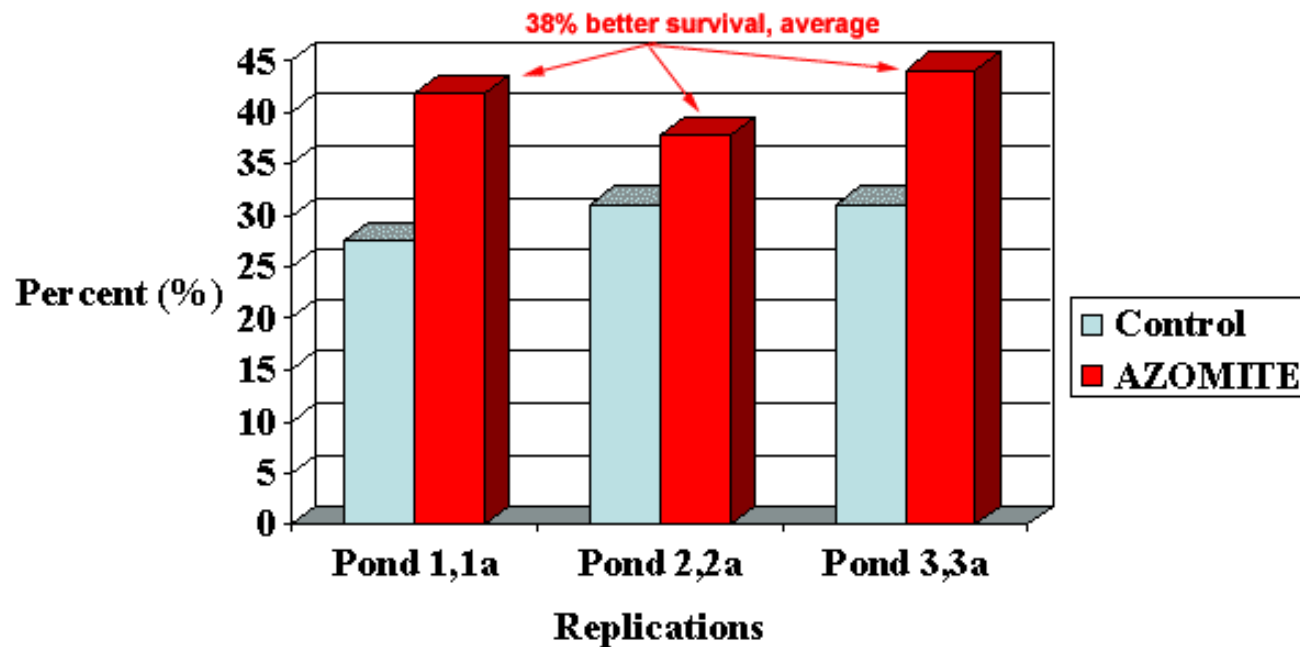
**Zooplankton Population, Individual/M<sup>2</sup>**  
(Many Copepod, Cladocera and Rotifier, Food for Shrimp)



**Growth of Black Tiger Shrimp**  
( with and without **AZOMITE®** )



**Survival of Black Tiger Shrimp  
( with and without AZOMITE® )**



### Overall Conclusion about Black Tiger Shrimp Study

- **AZOMITE®** improved Growth Rate (17.5%) and Survival (35%)
- Zooplankton and Phytoplankton levels were improved substantially by treatment
- Dissolved oxygen was improved, but the amount of improvement varied from morning to afternoon, and only insignificant changes in pH were noted in treated ponds
- Overall, the economics of treating bottom soil of ponds is highly favored.

### Status of AZOMITE® for Aqua

- Shrimp & Fin Fish Requirements, Current During Peak Season
  - Thailand uses @ 80-90 tons/month
  - Taiwan uses @ 10-15 tons/month
  - India uses @ 10-20 tons/month
  - Indonesia uses @ 20-30 tons/month
  - China uses @ 3 tons/month

- Vietnam uses @ Awaiting Approval from Govt.
- TESTING IN SEVERAL COUNTRIES



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