



#### Background Or/ISAAH

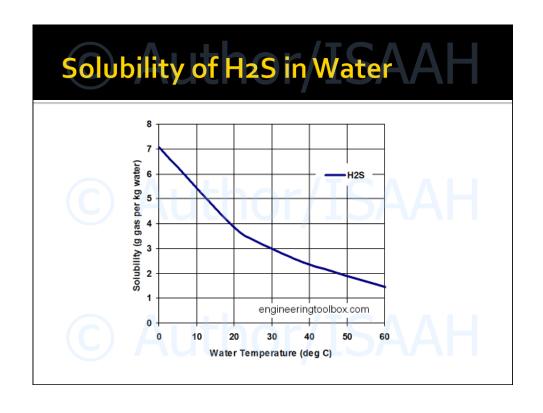
- Occurs between water temperatures of 21-24
- Primarily happens in spring
- Occurs in ponds that have not been drained in 2 years or more
  - The older ponds have a good bloom on them.
- Fish apparently there one day and gone next
- Losses are between 40% and 80%

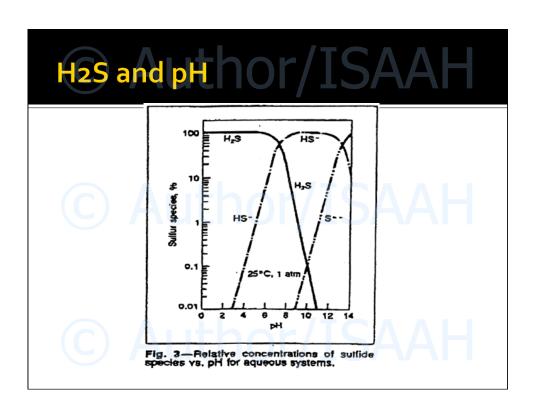
# C Aut Caracteristics

#### Is it a water quality problem?

- Hydrogen sulfide
- pH
- Toxins ULL OF ISAA

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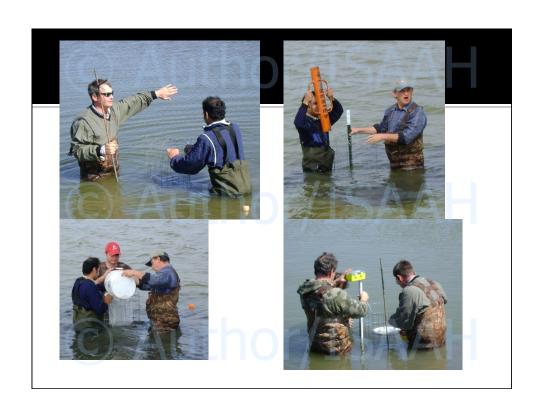


## Objective Ithor/ISAAH

 To determine if ponds with high hydrogen sulfide concentrations had increased mortalities compared to ponds with little or no measurable hydrogen sulfide

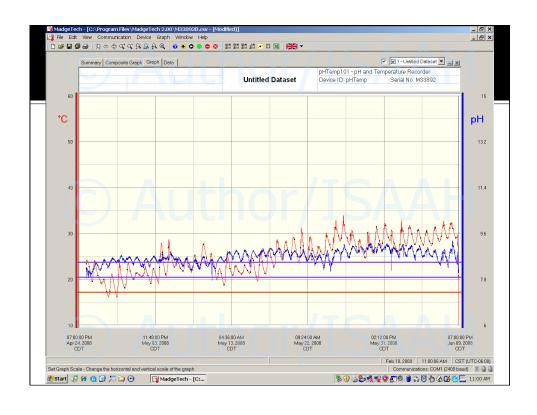
#### © Author/ISAAH

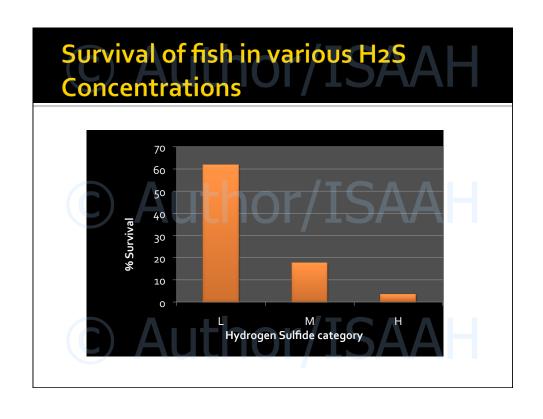


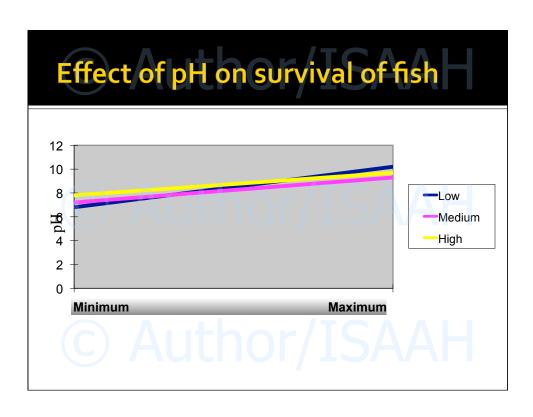


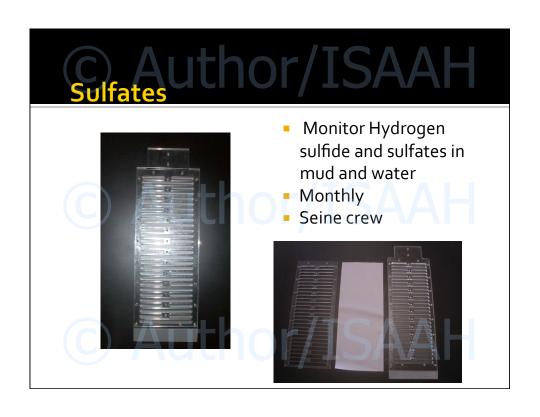


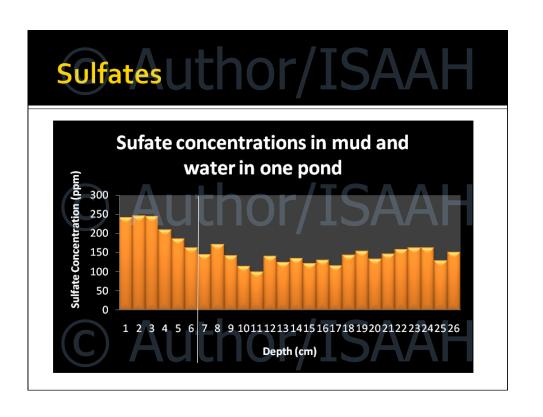
# Approximately twice a week cages were checked Snakes Crawfish

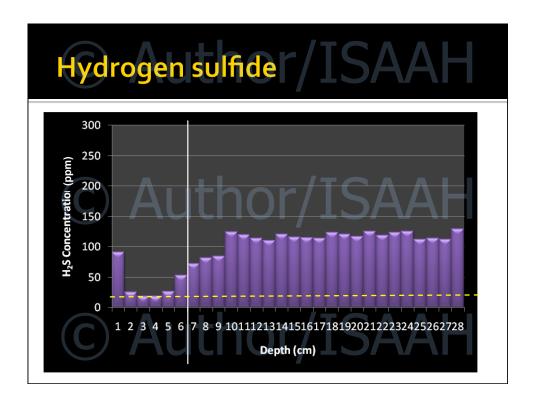












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- Hydrogen sulfide concentrations above 0.01 ppm significantly reduced shiner survival in cages
- Temperature appears to be linked; pH does not.
- Continue gather data-
  - Effects of feed types?

#### Acknowledgements ISAAH

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