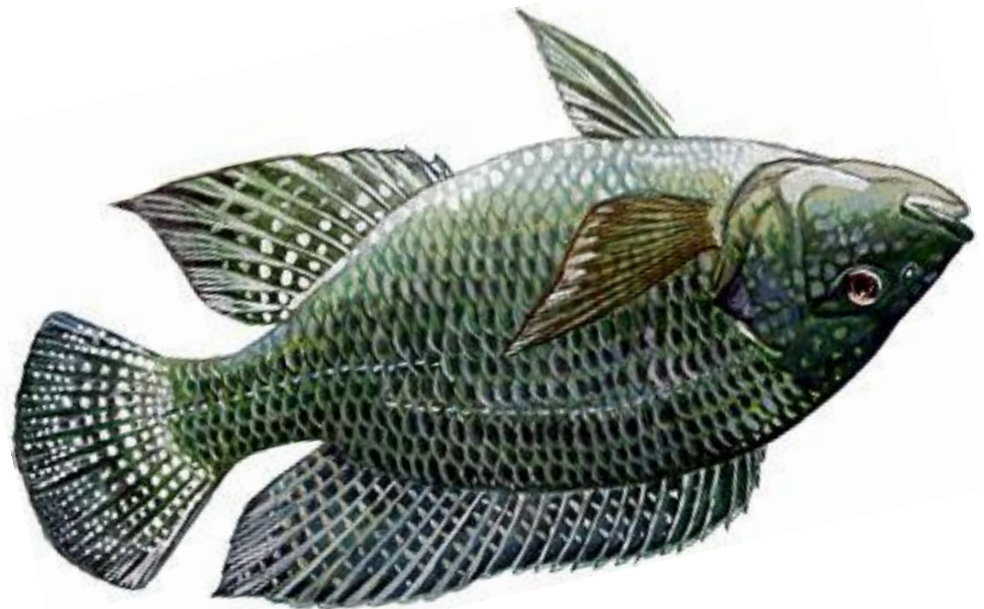


Recognizing and Dealing with Fish Health Problems on Fish Farms and in Backyard Ponds

Andy Goodwin, Professor (Fish Pathology)



Outline

1. Recognizing a fish health problem
2. Water quality, disease, or toxin?
3. Where do I get help?
4. Collecting and submitting samples to a laboratory
5. Legal restrictions on treatments



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Dead Fish





Sores, spots, and bumps



Changes in behavior

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Day

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Day

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Day

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Oxygen vs. Pesticide

- Heavy algae bloom
 - Herbicide use
 - Change in pond color
 - Hot weather
 - Clouds or storms
 - Big fish die first
 - Gasping fish in AM
 - VERY Common
- Insecticides
 - Dead crawfish
 - Possible but RARE
 - Herbicides
 - Dead plants
 - Nearly impossible



Day

1



2



3



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Outline

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Who do you call?

- Aquaculture
 - Extension agent
 - Aquaculture Coord.
 - State dept of Ag
 - Veterinarian
 - (aquavetmed.info)
- Farm pond
 - Extension agent
 - State wildlife agency
- Pet fish
 - Veterinarian
 - Vet school laboratory
- **What does it cost?**



Outline

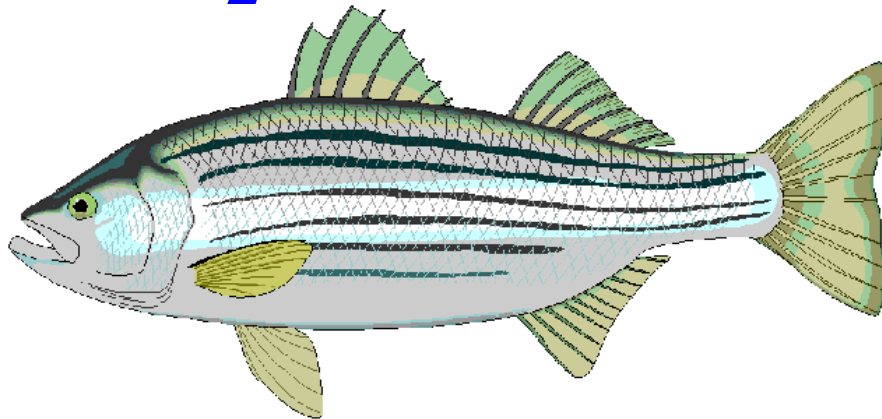
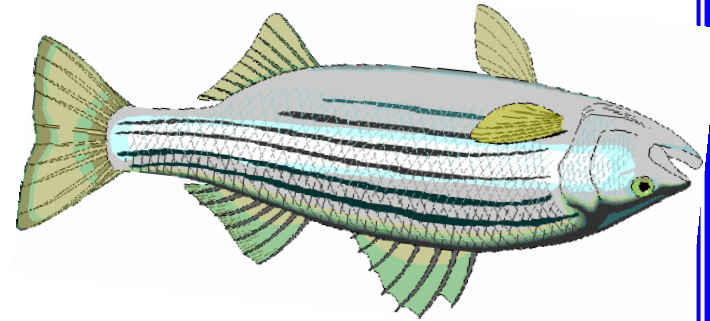
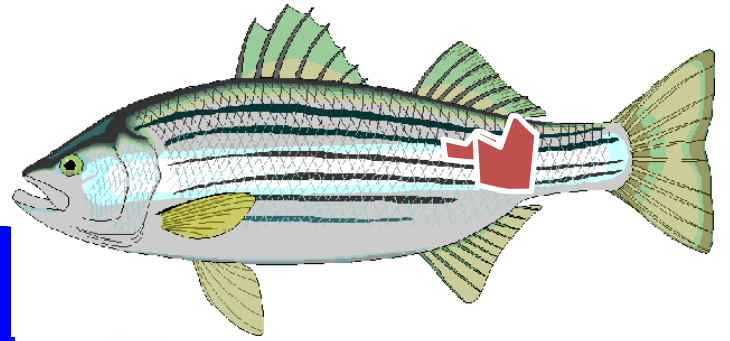
1. Recognizing a fish health problem
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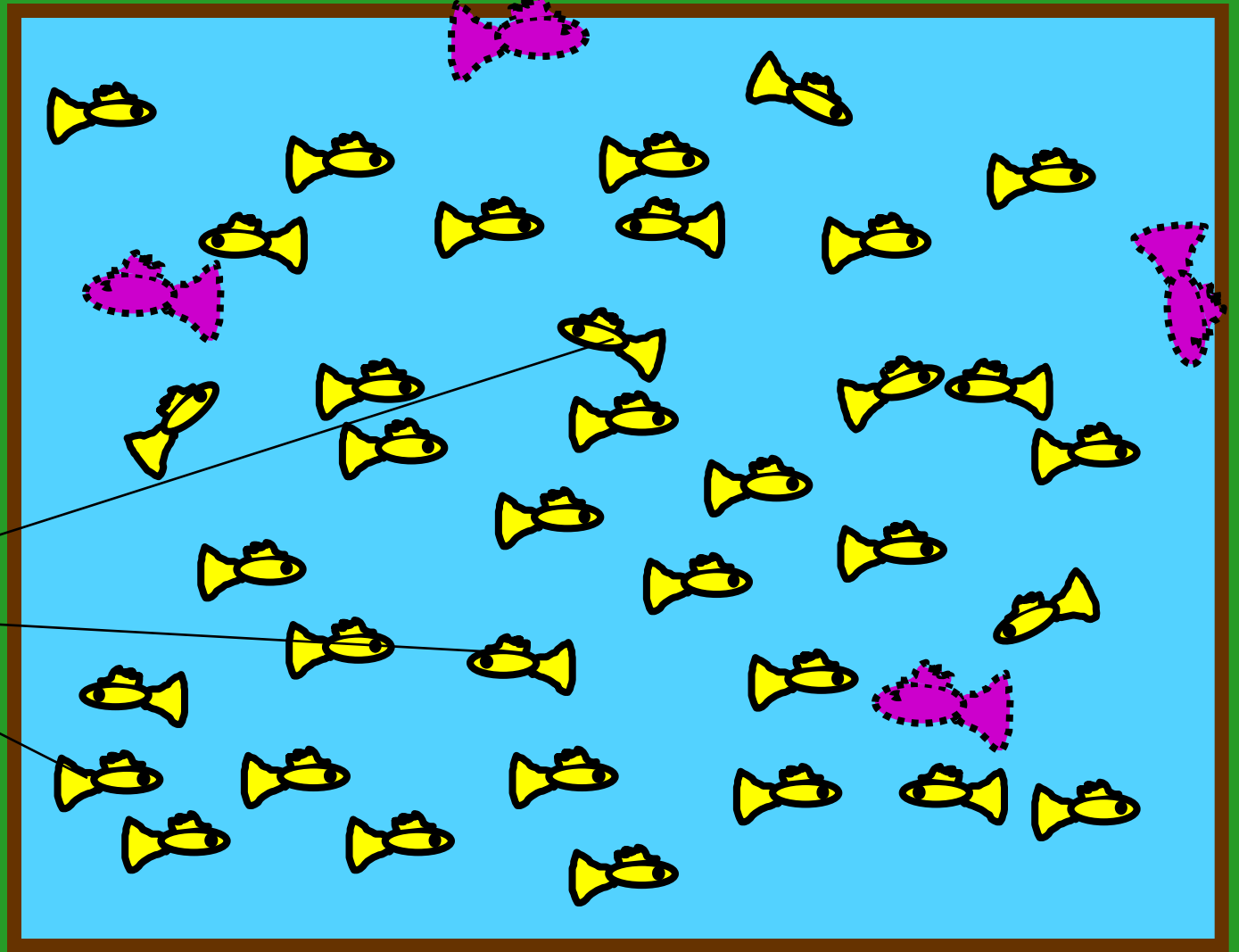
Sick is good



Dead is bad

Healthy is useless



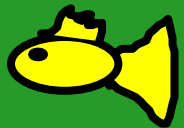
Fishing
Odds
= 0 in 10



 = healthy
 = sick

Bait fish in,
snag or net
Odds

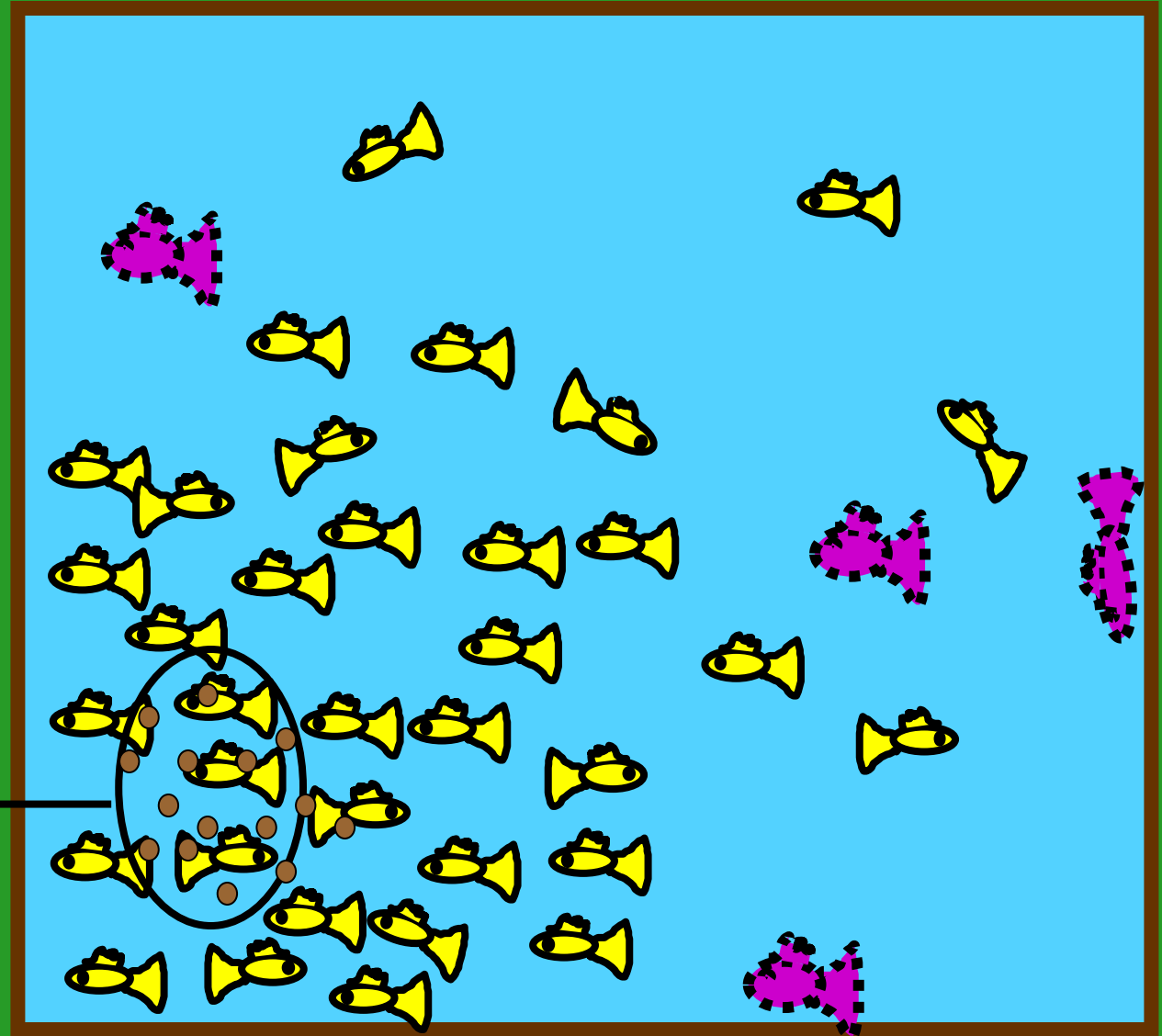
= 0 in 10



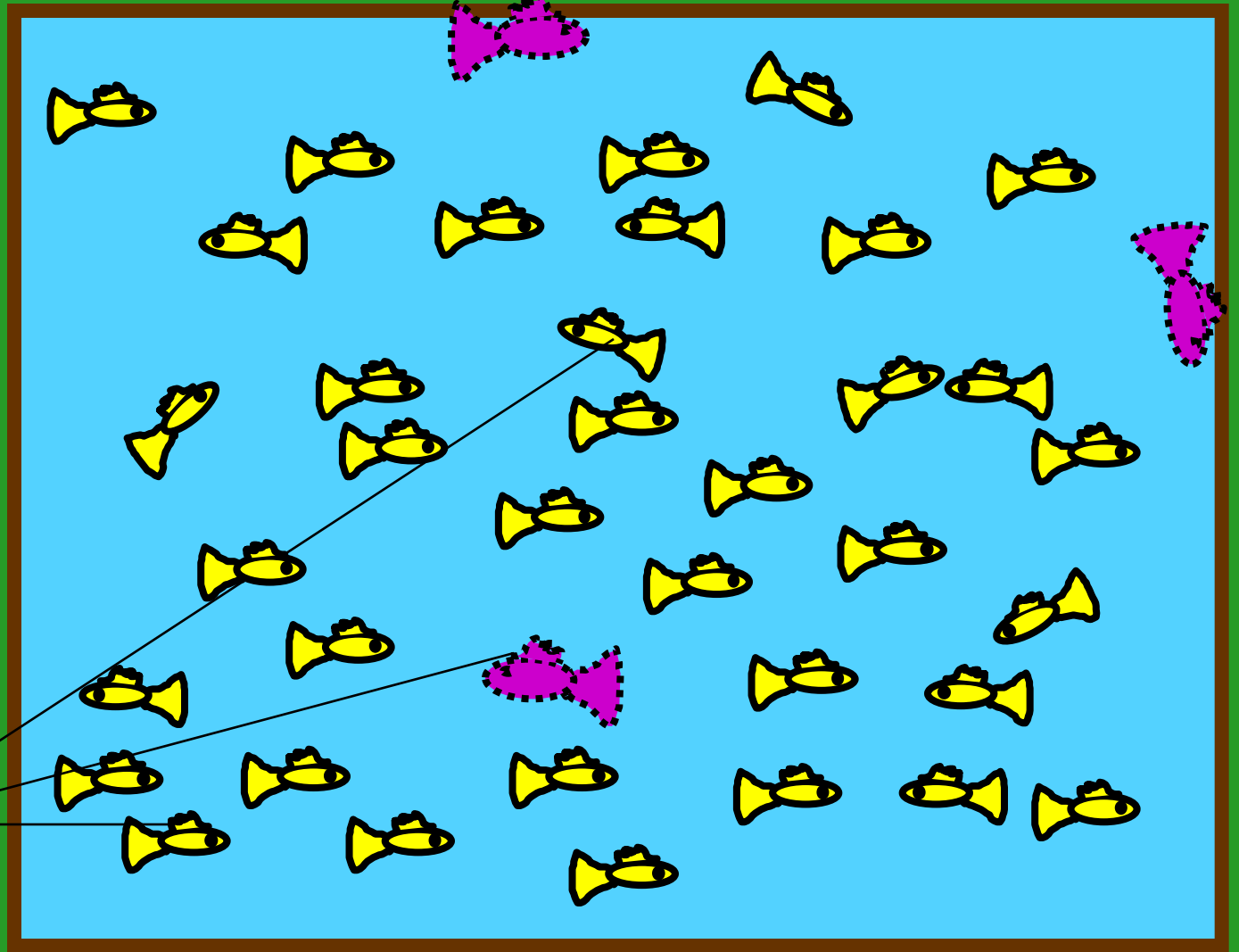
healthy





sick

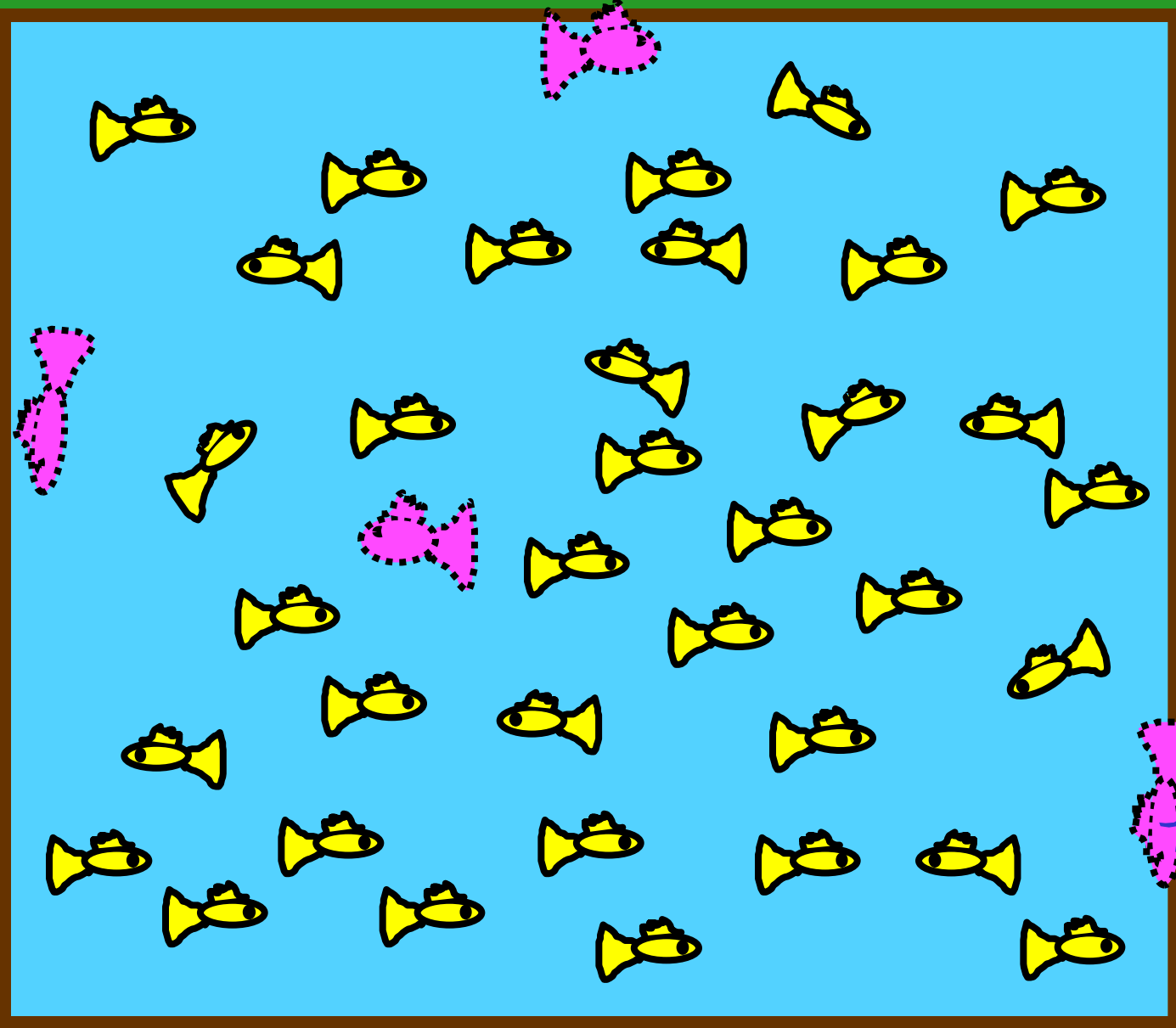


Random
Snagging
Odds
= 1 in 10

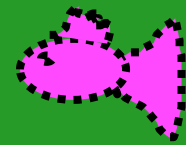


 = healthy
 = sick

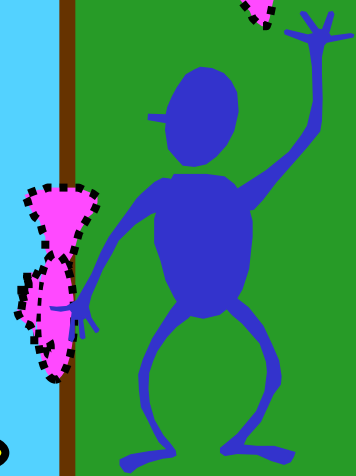
Pick up
Sick Fish
Odds=
10 in 10



healthy

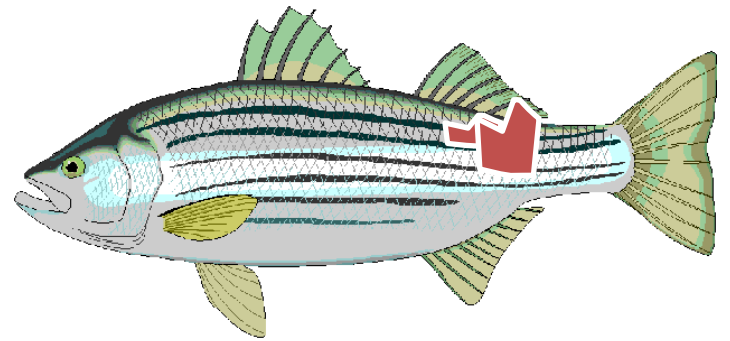


sick

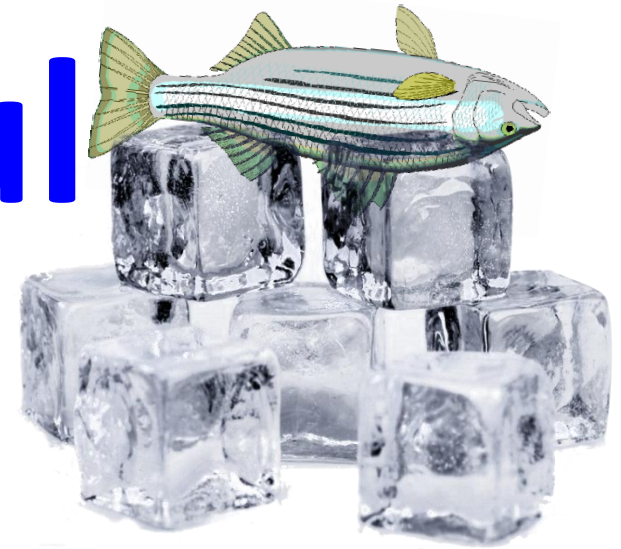


Shipping

Live is best



On ice...useful



Water too!



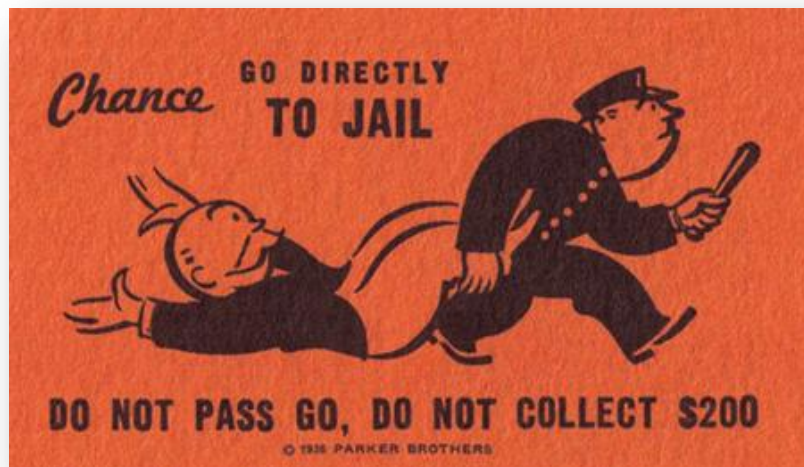
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Disease Treatments

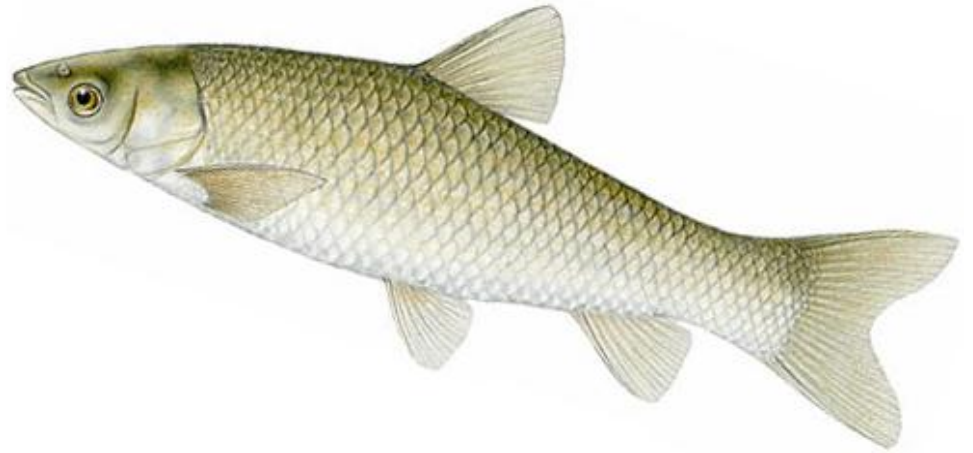
- Never in private fishing ponds*
- Only after an accurate diagnosis
- Only with expert advice
- Only legal treatments



* Grubs



Grubs



Grass Carp to eat plants
Redear to eat snails



Review

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