

Just Keep Swimming

How to Avoid a Fish Kill



# What's the big deal, just sunbathing

1. Costly if at fault
2. Bad optics
3. Damages the environment
4. Smelly
5. Health risk



**YOU'RE GOING TO  
HAVE A BAD TIME**

# What can cause fish to die?

1. Old Age
2. Predation
3. Disease
4. Other environmental causes
- 5. Low Dissolved Oxygen**
- 6. Pesticide Toxicity**

ENTER CRIME SCENE - DO NOT

This seems....fishy!



# How to tell WHAT caused dead fish

1. Check DO levels if fish kill is ongoing
  - a) Must get there quickly
  - b) What species and size of fish
  - c) DO kills large fish first, toxicity kills small fish
  - d) Toxicity usually affects one species first

# How to tell WHAT caused dead fish

3. Check the area for other signs
  - a.) Fish gulping at the surface
  - b.) Are other species affected
4. Check treatment/site history and weather



# When are you most at risk?

1. When heavy plant or algae is present
2. Hot weather and cloudy weather

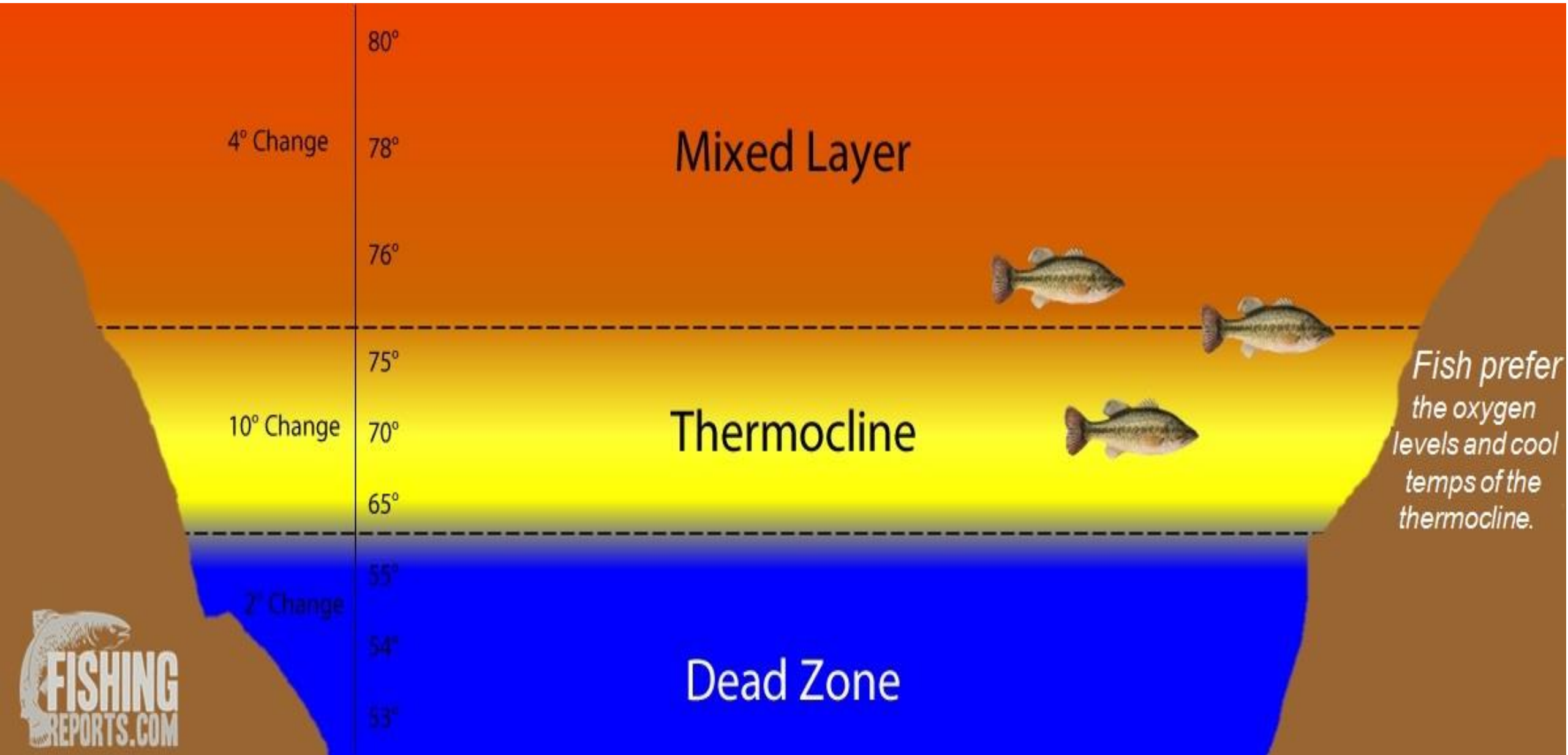
# When are you most at risk?

Florida

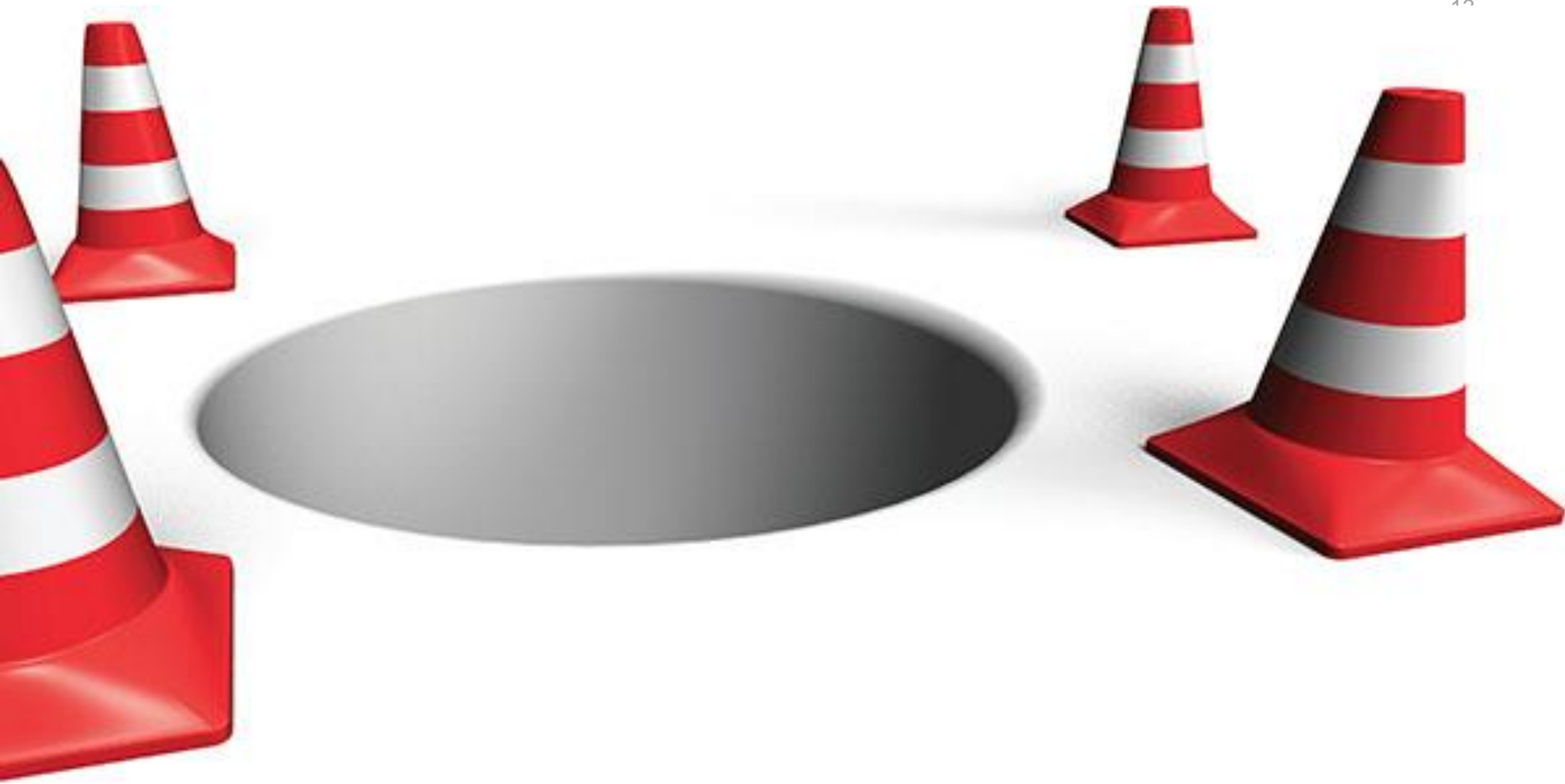
1. Very hot weather

2. Storm season

a) Polymictic



- We only have complete control over toxicity
- We can reduce the chance of DO crash



# How can you reduce your risk?

1. Monitor DO

## How should you check DO?

1. **More than one place**
2. Not just on shore and not just at the surface



**How can you reduce your risk?**



# How can you reduce your risk?

1. Treatment technique and method
2. Product rate
3. Product selection
4. Timing of treatment
5. Shape of treatment
6. Scale of treatment

**If a fish dies in the water and  
nobody sees it, did it really die?**

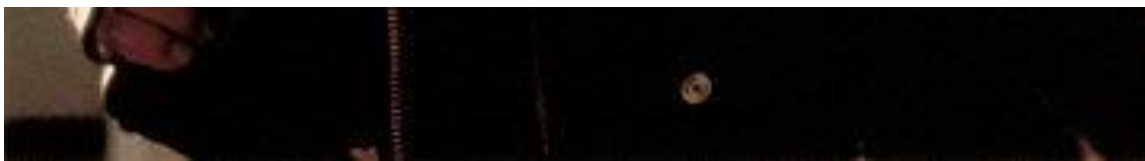
## **We have a responsibility**

1. We are bound by regulations (NPDES)
2. We owe our customers peace of mind
3. We owe nature our care and caution
4. We owe our industry image

# Discussion



**I'll Be Back!!!**



**Thank You**

**Questions?**