

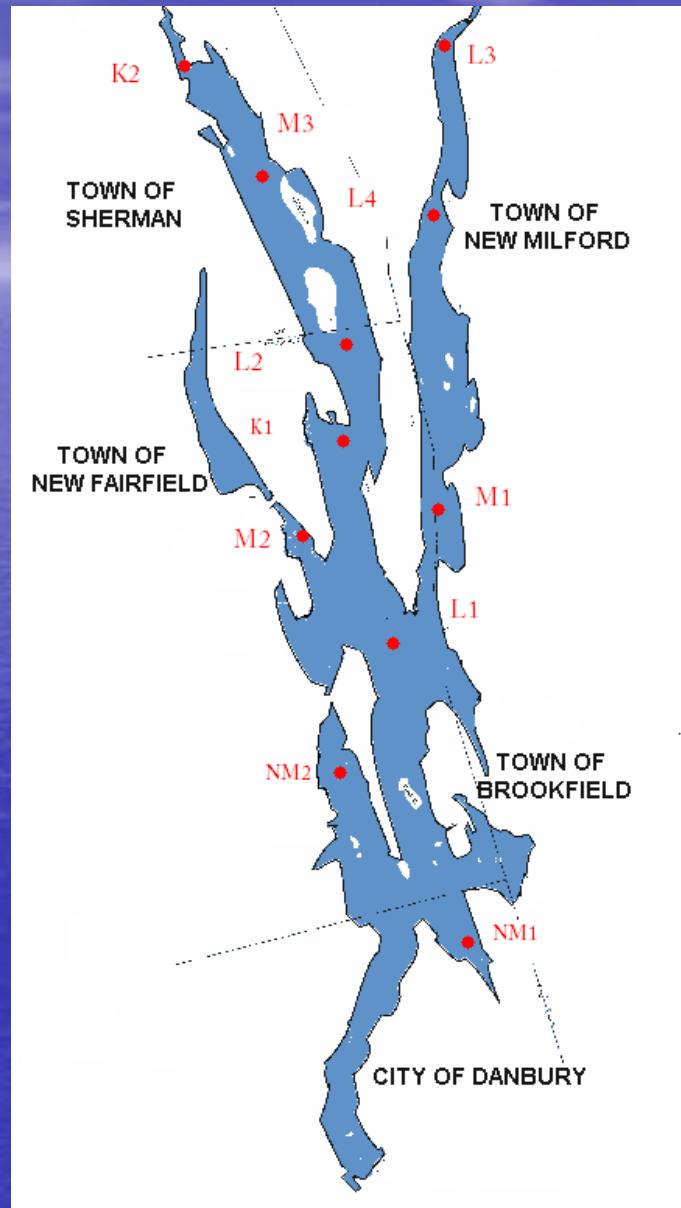
US EPA ARCHIVE DOCUMENT

PROJECT CLEAR

- Candlewood Lake Environmental Awareness and Responsibility Project

Two words about the lake

- Lake Area 5,064 acres
- Man Made for hydroelectric Power
- Watershed 25,907 acres
- 65 Miles of Shoreline
- Max Depth 89 ft. mean 33 ft.
- Late mesotrophic



The players

- Candlewood Lake Authority
- Education Connection
- Western CT State University
 - With additional help from
 - Department of Environmental Protection
 - Agricultural Experimental Station
 - CONNCollege
 - 5 School Districts
 - North West Conservation Districts
 - New Fairfield Inland Wetland

Objectives of the program

- To provide environmental education
- To provide career education
- To generate data
- To improve the environmental conditions of the lake

Program Steps

- Student Recruiting
- Eight months of student education and training
- 1 day lake cleanup in May
- 5 field monitoring days in June
- 1 field monitoring day in August
- Several teacher training days during the school year.

Details

- Recruiting
 - 125 HS students from 5 school districts
- Student education and Training
 - 8 all day classes at WCSU
 - Use of www.project-clear.org moodle
- Monitoring
 - 4 Field Days and 1 lab day
- Teacher Training
 - 3 Teacher workshops

Monitoring Projects

- Nitrates and Phosphates
- Dissolved Oxygen/Temperature profiles
- Plankton Counts
- Climate Change Research
- Forestry Inventory
- Sunfish Inventory
- Municipal Storm Water Discharge Monitoring
- Shoreline Cluster Analysis
- Aquatic Invasive plants Inventory

Monitoring

- Teacher Training
- Student Training
- QAPP for each project
- Scientific Advisory Committee
- 1 Project Scientist for each project
- 1 Project Field and Monitoring Manager
- QCQA for all generated data

www.project-clear.org

Project Clear - Microsoft Internet Explorer

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Project Clear

You are not logged in.

Main menu

- Site news

Login

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Latest news

05:08 PM, Dec 3
Alberto Mimo
[Planning a Town more...](#)
[Older topics ...](#)

Wikipedia

Welcome to the Project Clear e-Learning portal!

Available Courses

CLEAR 2008-9

- Teacher: Erin Rice
- Teacher: Crystal Hayes
- Teacher: Katie Gardner
- Teacher: Gerry Casadei
- Teacher: Sharon Bly
- Teacher: Nicole Gurney
- Teacher: Andrew Peklo
- Teacher: Larry Marsicano
- Teacher: Alberto Mimo
- Teacher: Sheila Gambino
- Teacher: Pat Rayner
- Teacher: Ethan Saldana
- Teacher: Chris Tait
- Teacher: David Herberger
- Teacher: Abby Peklo

Here is where we will view Project CLEAR's online components.

Calendar

March 2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Online Users

(last 5 minutes)
None

Current Time

Internet

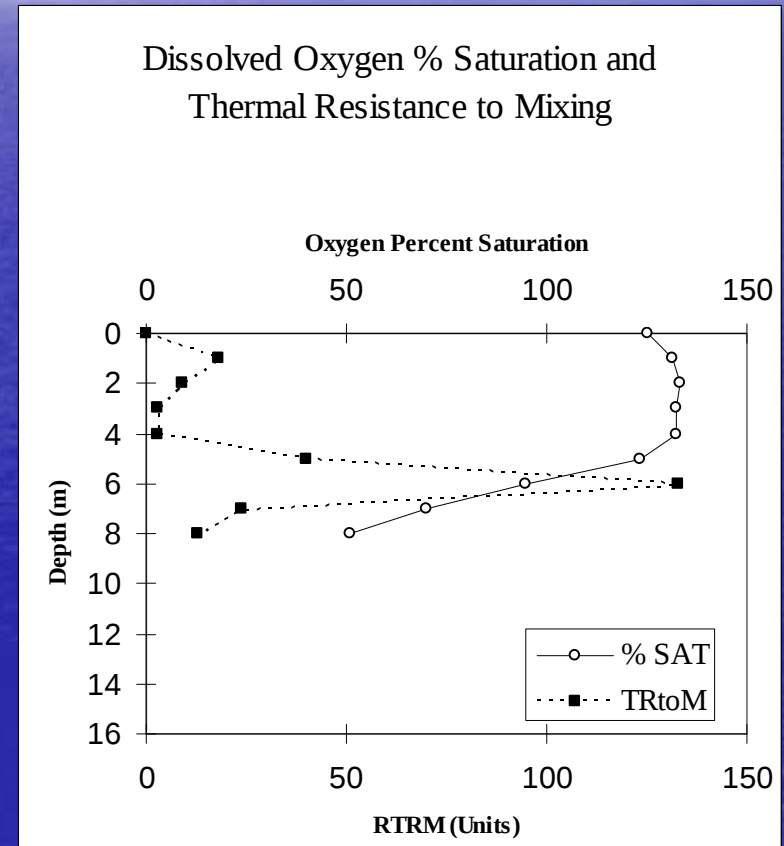
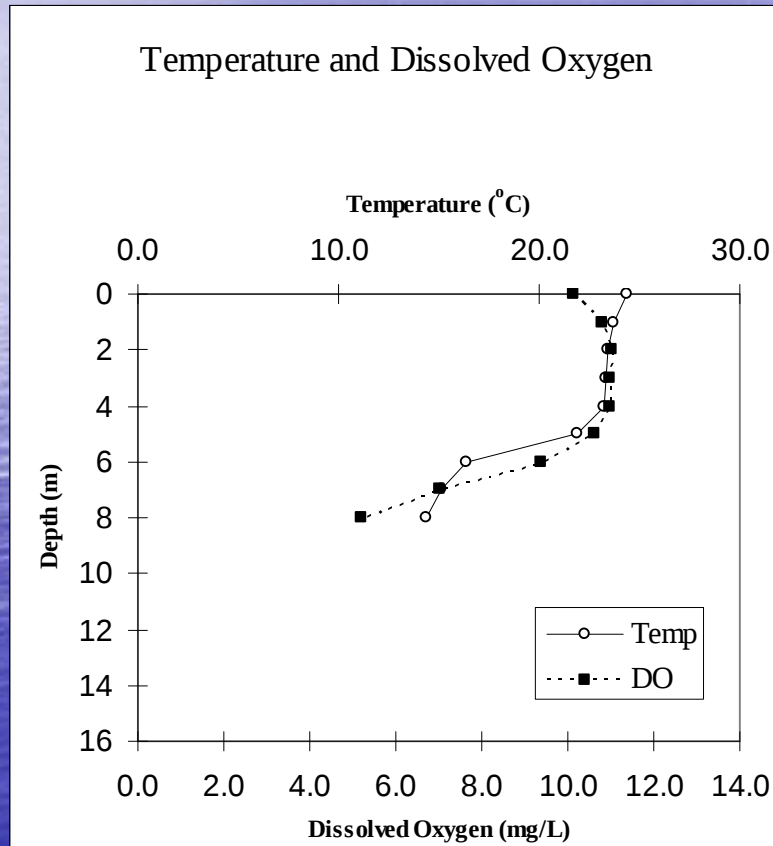
start Microsoft PowerPoint ... Project Clear - Micros...

2:43 PM

Use of Moodle

- Lesson Plans
- Correct Equipment use
- Assignments
- Chat room
- Forums
- Virtual Cafe

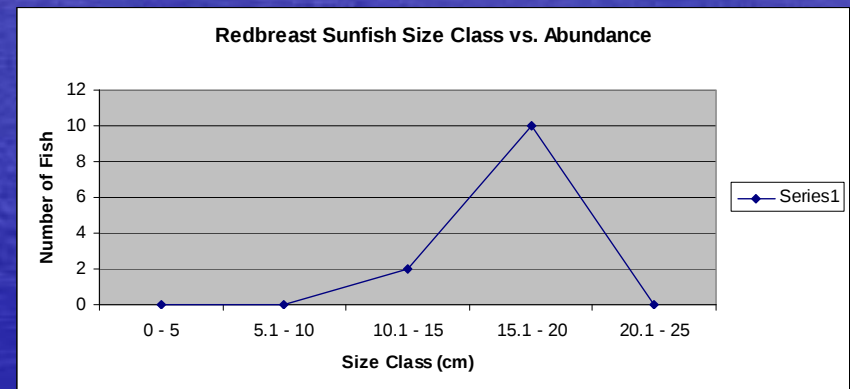
Data Samples DO/Temp Profiles





Data Samples of Fish Survey

Skeleton Island	246	Redbreast sunfish	13	7	6/25/200
Skeleton Island	238	Redbreast sunfish	15	7	6/25/200
Orchard Beach	8	Redbreast sunfish	16	7	6/21/200
South Orchard	188	Redbreast sunfish	17	7	6/25/200
Skeleton Island	236	Redbreast sunfish	17	7	6/25/200
Skeleton Island	210	Redbreast sunfish	18	7	6/25/200
Skeleton Island	229	Redbreast sunfish	18	7	6/25/200
Skeleton Island	239	Redbreast sunfish	18	7	6/25/200
South Orchard	233	Redbreast sunfish	19	7	6/25/200
Skeleton Island	234	Redbreast sunfish	19	7	6/25/200
Skeleton Island	241	Redbreast sunfish	19.5	7	6/25/200
Skeleton Island	212	Redbreast sunfish	20	7	6/25/200





Data Sample from Shoreline Survey

Low density residential	
Medium density residential	
High density residential	
Multifamily	
Commercial	
Open Space / Undeveloped	

Moorings (#) _____

Other (sea planes, trampolines, etc.)

Sand Beach

Sea wall

Patios _____

Accessory Structures (sheds, gazebos, etc.)

Terracing (Retaining walls)



Technology and Methodology

- All projects use standard field methods and techniques
- All equipment is EPA approved
- Additional samples are sent to approved labs for QAQC
- All students are specialist, only one job
- All teachers work on only one project
- No short cuts, if we can not do it, we do not do it.

Future Objectives

- Students signup for several years
- Juniors will take a WCSU Saturday College class in Limnology
- Seniors will work on extended projects at the lake through WCSU and Project Clear
- HS Graduates will pursue careers in Science and Technology
- Data will be used to publish a Candlewood Lake Limnology data book

Funding

- CT Department of Education
- Education Connection
- Candlewood Lake Authority
- Five school districts
- WCSU

Additional Pictures





Any Questions?