FT 211 Fisheries Management Techniques

The Normal Distribution

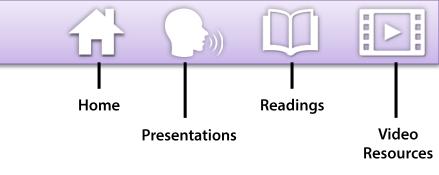








Introduction



When viewing recorded lectures, the slides will automatically advance until the end of a section. The Prev and Next buttons are available but it is recommended you listen and view the recorded lectures in auto mode. You can return to the main menu of the recorded lectures by tapping the presentations icon above.

At the end of each of the objectives there are self-check quizzes to make sure that you understand the basic student learning outcomes for each area.

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Readings





To access readings, return to your iPad's home menu, and open iBooks. You can identify it by looking for this logo.



For this lecture, please read:

1.	Your Instructor	Be familiar with your instructor's background and education relevant to fisheries techniques
2.	About the Course	Be familiar with the course layout, syllabus, and what is expected of you
3.	Texts	Be familiar with the texts that will be used in this course
4.	Course Outline	Know the general course breakdown and topics to be covered
5.	Applications of the Course	Know how you will be able to apple the information gained in this course to fisheries management and science.



This module will cover:

- Introduction
- Layout & Syllabus
- Texts & Readings
- Course Overview
- Fisheries Tools & Management

Each Module (12)

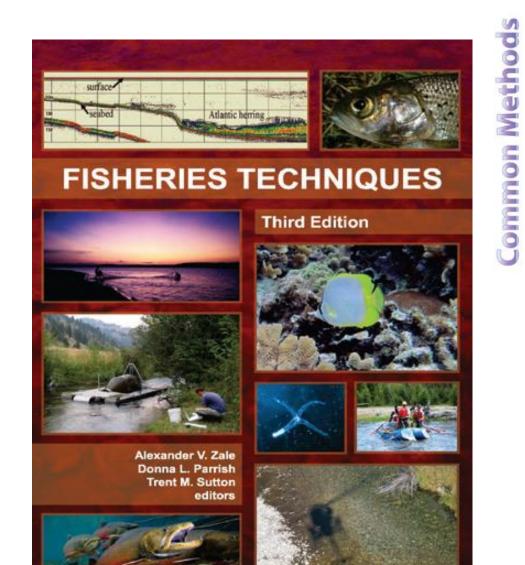
- Module Content
- Self Check Quizzes
- Readings
- Videos

Instructor Student Discussions (3)

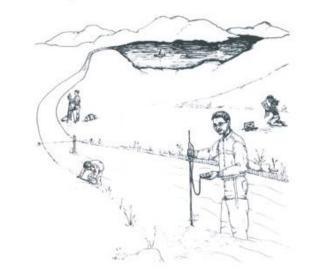
Each Exam (3)

- Exam Review (recording)
- Review Sheet .pdf
- iPad Exam





Aquatic Habitat Assessment



Edited by Mark B. Bain and Nathalie J. Stevenson Salmonid Field Protocols Handbook



Brianna M. John A Kr









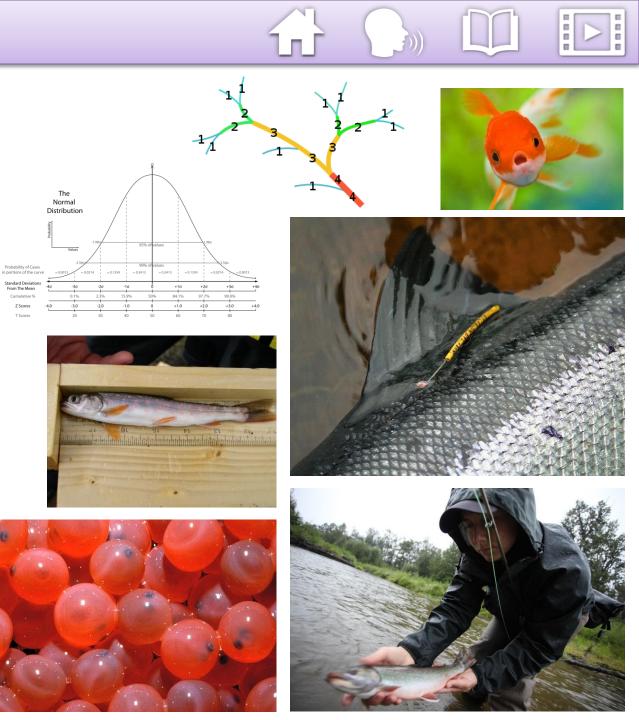
• Fisheries Techniques 3rd Edition

• Common Methods in Aquatic Habitat Assessment

- Salmon Field Protocols Handbook
- Additional Readings as Assigned

In This Course

- Planning for Sampling
- Data & Statistics
- Safety in Fisheries
- Aquatic Habitat Measurement
- Care & Handling of Aquatic Organisms
- Passive Capture Techniques
- Active Capture Techniques
- Length, Weight & Associated Indices
- Age & Growth
- Marking & Tagging
- Visual Observations in Fisheries

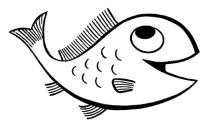


Planning for Sampling

- Why do we collect information?
- Conducting Fisheries Investigations
 - Problem, Question, Info/Theory Prediction,
 - Planning, Preparing, Sampling,
 - Analysis, Interpretation



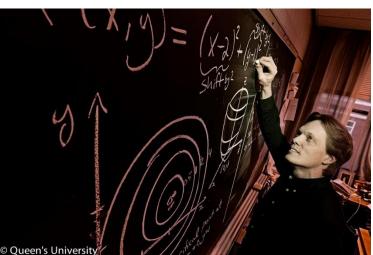


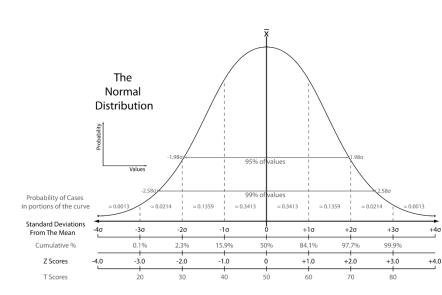


Data and Statistics

- What is Data?
- Data & Databases
- Data Management
- Visualization of Data
- Descriptive Statistics









Safety in Fisheries

- Fisheries can be Hazardous
- Risk Factors
- Safety Attitude
- Trainings available



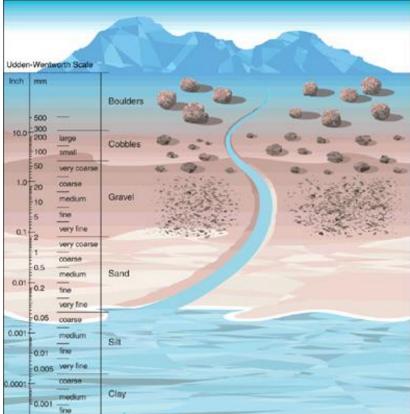


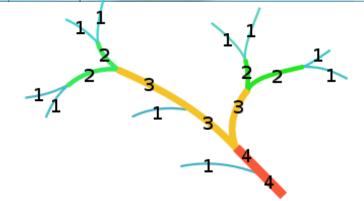


Aquatic Habitat Measurement

- Why do we Measure Habitats?
- Habitat Categories
 - Physical, Biological, Chemical
- Velocity, Flow, Substrate, vegetation,







Care and Handling of Aquatic Organisms

- Permits
- Stress in Fish
- Handling
- Anesthesia
- Euthanasia

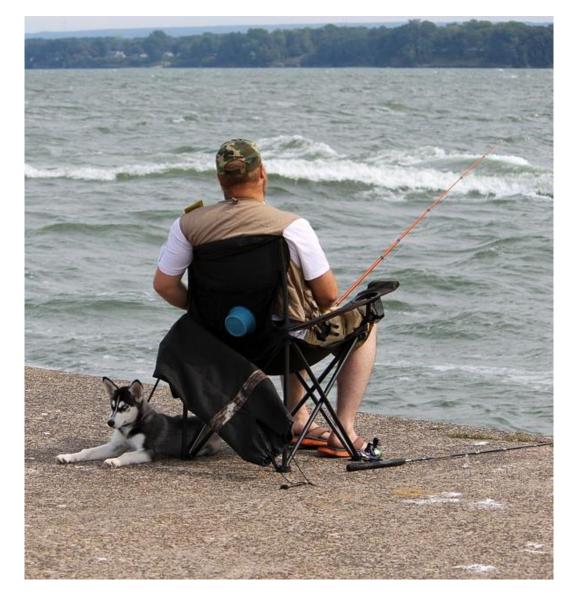




Passive Capture Techniques

- Passively Capturing Fish
 - Entanglement
 - Entrapment
 - Angling





Active Capture Techniques

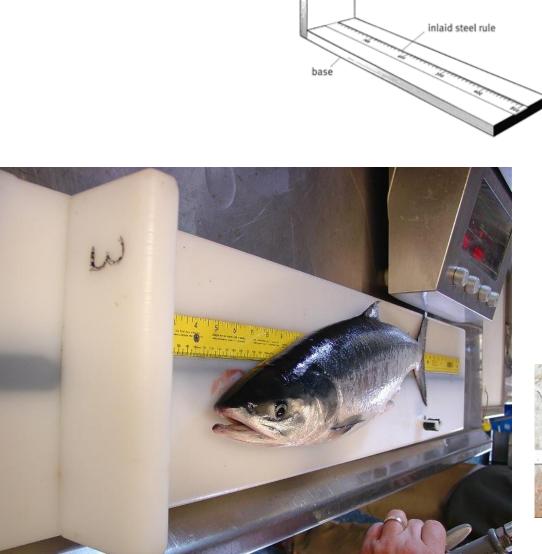
- Actively Capturing fish
 - Towed
 - Dragged
 - Surrounded





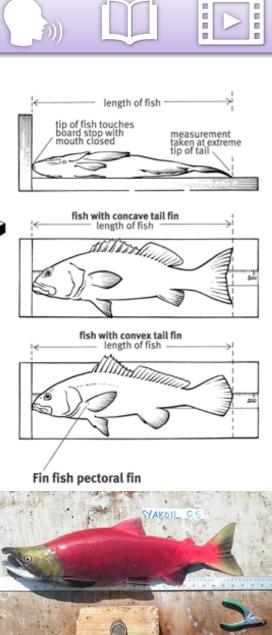
Length, Weight & Associated Indices

- How long
- How Heavy
- Length vs. Weight
- New Technologies



fish measuring board

stop



Age & Growth

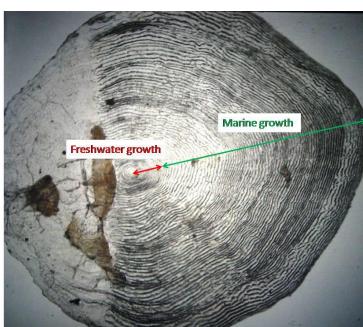
- Age vs. Growth
- Growth Estimates
 - Length freq.
 - Recapture
 - Scales
 - Otoliths

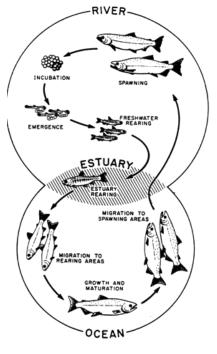












Marking & Tagging Aquatic Organisms

- Marks vs. Tags
- External
- Internal
- Smart Tags











Visual Observations in Fisheries

- Sometimes best way to see what's going on or how many
 - Above water
 - Below water









Self Check

- We will be learning about fisheries policy in this course
 - True
 - False
- Fish are not dangerous so we do not spend much time talking about safety
 - True
 - False

Fisheries



Fisheries Management

- "Fisheries management draws on fisheries science in order to find ways to protect fishery resources so sustainable exploitation is possible"
- We will Look specifically at the tools managers use to manage fisheries!



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Welcome & Enjoy!