WF4313/6613-Fisheries Management

Class 17- Case study & habitat



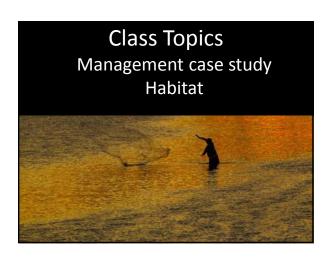


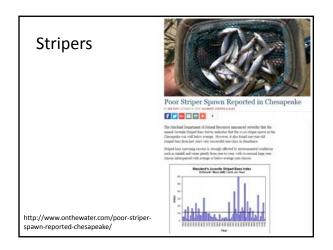


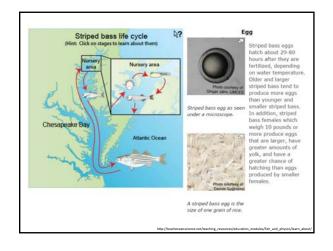
Paddlefish Lab

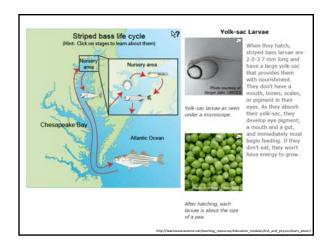
- Group 1
- Meet at Front of Thompson @ 1pm
- Bug spray, water, sunscreen, raingear
- Potential to get wet

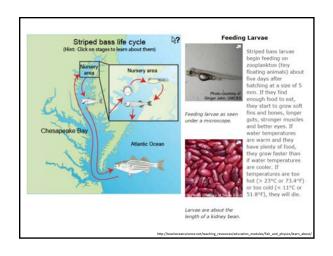


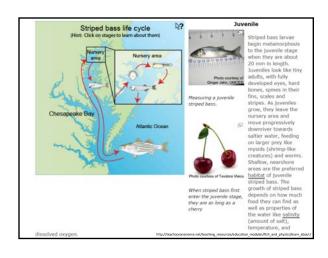


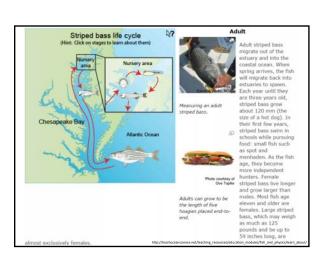




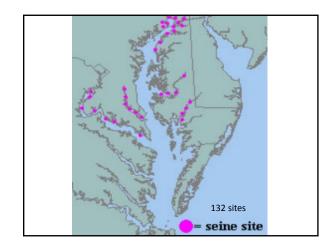




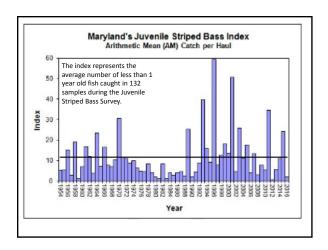








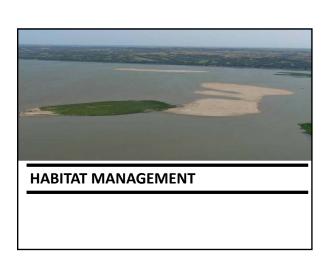


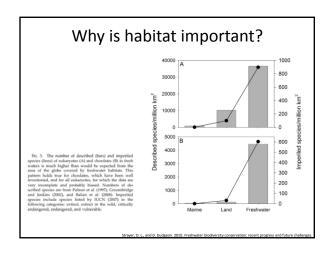


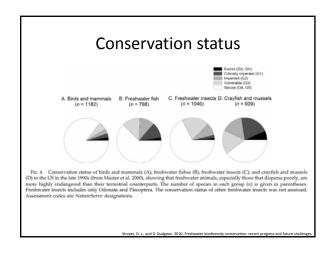
Is it an issue?

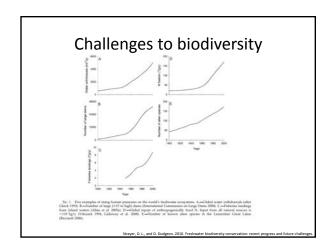
- Recruit overfishing?
- Habitat?
- Environmental conditions?

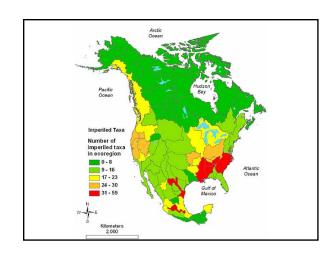
"While this year's (2016) striped bass index is disappointing, it is not a concern unless we observe poor spawning in multiple, consecutive years," said Fishing and Boating Services Director David Blazer. "Very successful spawning years, as recently as 2011 and 2015, should more than compensate for this below-average year-class. Nonetheless, the department and our partners will continue to work to maintain a sustainable fishery for our commercial watermen and recreational anglers."





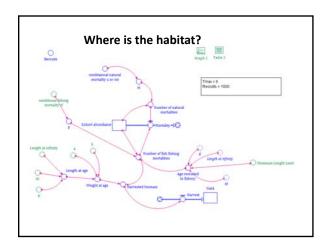






HABITAT AND HABITAT MANAGEMENT

habitat loss has been identified as the primary threat factor, more significant than invasive species or overexploitation (Dextrase and Mandrak 2006; Venter et al. 2006).







What is habitat

NSW Fisheries Management Act 1994 fish habitat means: any area occupied, or periodically or occasionally occupied, by fish or marine vegetation (or both), and includes any biotic (living) or abiotic (non-living) component.

Water & Land

Inland habitat types

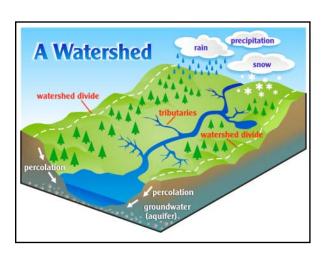
- 1. Streams
- 2. Lakes & Reservoirs



Habitat

- 119 public lakes
- 123,000 stream miles
- 225,000 freshwater acres





Hierarchical organizations

A Hierarchical Framework for Stream Habitat Classification: Viewing Streams in a Watershed Context

CHRISTOPHER A. FRISSELL* WILLIAM J. LISS CHARLES E. WARREN

MICHAEL D. HURLEY
Dak Croek Laboratory of Biology
Department of Fisheries and Wildle
Dregon State University
Corvallis, Oregon 97331, USA

ABSTRACT / Classification of streams and stream habitats is useful for research involving establishment of monitoring stations, determination of local impacts of land-use practices, generalization from site-specific data, and assess-

Managers of streams and their associated ir sources face problems of understanding and mar aging nonpoint source pollution, evaluating the corplex, cumulative impacts of changing land use stream habitass and biological communities, and a sessing the effectiveness of fish habitat improvemer projects and other mitication procedures. Scientis system is designed to intermesh with a biogeoclimatiland classification system (Warren 1979, Lotspeich and Platts 1982, Warren and Liss 1983), and emphasizes a stream's relationship to its watershed across wide range of scales in space and time, from the entire channel network to pools, riffles, and microbabliars.

Class roadmap

- 1. Elements of aquatic habitat
- 2. Elements of aquatic habitat management
- 3. Stream habitat Examples
 - 1. Lower Missouri River
 - 2. Pahsimeroi River

Elements of aquatic habitat

- 1. Amount
- 2. Chemical
 - Dissolved oxygen, pH,salinity
- 3. Physical
 - Sediment, turbidity, substrate
- 4. Biological
 - Macrophytes, Woody debris

Elements of aquatic habitat management

- 1. Restoration
- 2. Conservation
- 3. Mitigation

