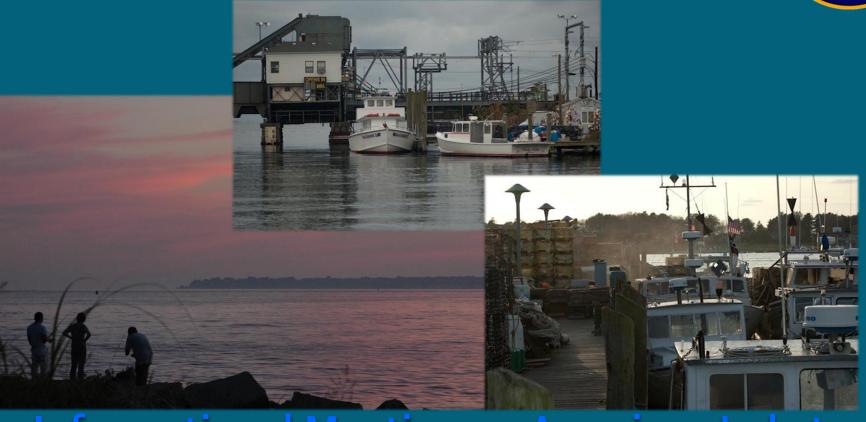
CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION

MARINE FISHERIES DIVISION





Informational Meeting on American Lobster Management in Southern New England July 12&15, 2010





Working towards healthy, self-sustaining populations for all Atlantic coast fish species or successful restoration well in progress by 2015

American Lobster Addendum to Address Depleted Stock Condition in Southern New England Informational Meetings July 12 &15, 2010

Learn More: www.asmfc.org/AmericanLobster.htm

July 22 ASMFC Lobster Board Meeting: http://www.asmfc.org/meetings/LobsterBoard_July22Materials.pdf

What is the Atlantic States Marine Fisheries Commission (ASMFC)?

- Compact of States Formed in 1942 to Cooperatively Manage Marine Fishery Resources
- Regulatory authority in State Waters
- 15 Member States (ME-FL)
- 3 Commissioners per State
- ACFCMA 1993 (Federal Fisheries Law ensures compliance with ASMFC Management Plans

ASMFC Recent Lobster Management Timeline

- March 2009 Stock Assessment/Peer Review
- April 2010 Recruitment Failure Report
- May 2010 Adopt new Mgmt Reference Points
- May 2010 Initiate Addendum to address depleted stock condition
- July 12 & 15 Informational Meetings (DEP)

ASMFC Lobster Management Timeline

- July 22 Lobster Board Meeting to Consider
 Contents of a Draft Addendum to Take to Formal
 Public Hearing (Special meeting Warwick, RI)
- August 2 Summer ASMFC Meeting
- Summer-Fall Public Hearings
- November (Annual Meeting) Final Decision on Addendum?
- March 2011 (Spring Meeting)...
- June/July 2011 Implementation

Agenda for Tonight

- Ground Rules for the Night
- Presentation on Southern New England Stock Assessment including LIS specific information
- Questions on the presentation
- Comments about Current Condition of Lobster Resource
- Comments on WHAT OPTIONS SHOULD BE CONSIDERED TO REBUILD THE LOBSTER RESOURCE OVER THE NEXT FIVE YEARS

Ground Rules

- "Golden Rule" (Treat Others...)
- Please Address Your Comments to Me
- Respect Others Right to Differing Opinion

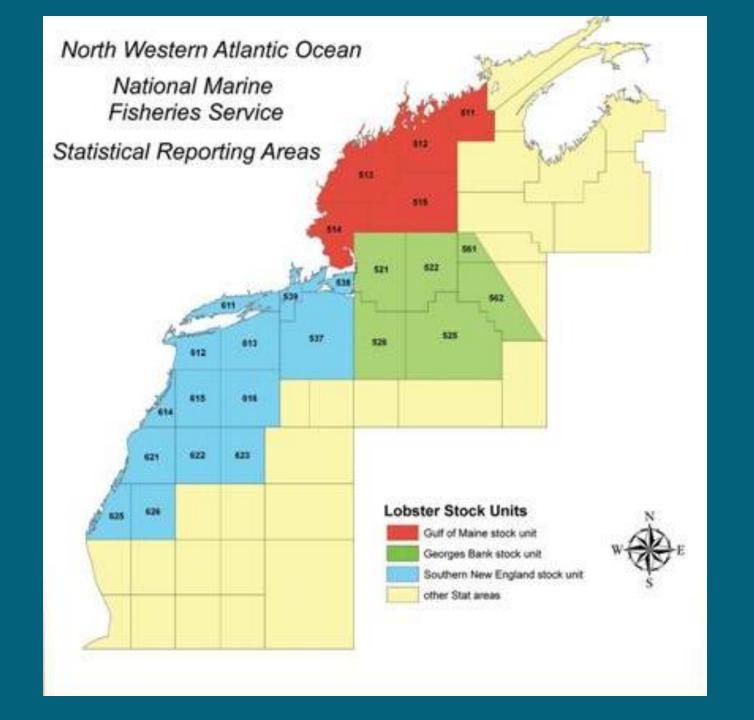
Ground Rules cont...

- Come to Microphone to make comment
- State Your Name and Affiliation (if any)
- State Your Preference and Tell Us Why You Prefer This Option
- Everyone Who Wishes to Speak Will Be Heard





STATUS OF THE SOUTHERN NEW ENGLAND LOBSTER STOCK



Status of the Stock: Peer Review Panel Report March 2009.

"The Panel recommends managers be particularly vigilant of recruitment patterns... and stand ready to impose substantial restrictions should recruitment decline."

"The lobster fishery is unusual because the fishery has persisted despite high fishing mortality. The sustainability of juvenile lobster production and thus the lobster fishery is uncertain."

"The SNE stock abundance is low compared to the 20-year time series, while exploitation is similar. The pattern of low population abundance is well established. The Panel recommends a reduction in exploitation and implementation of a fishery rebuilding plan for the SNE stock."

Status of the Stock: Technical Cmte Report April 2010.

"The SNE stock is critically depleted...

Abundance indices are at or near time series lows (ASMFC 2009) and this condition has persisted (ASMFC 2006)."

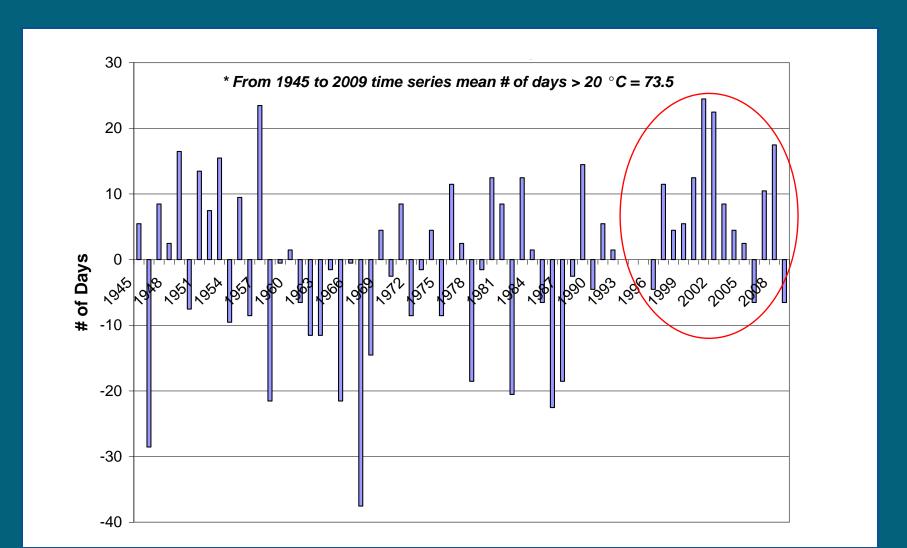
"The TC contends that the stock is experiencing recruitment Failure caused by environmental changes and continued fishing."

"It is recruitment failure that is preventing stock rebuilding."

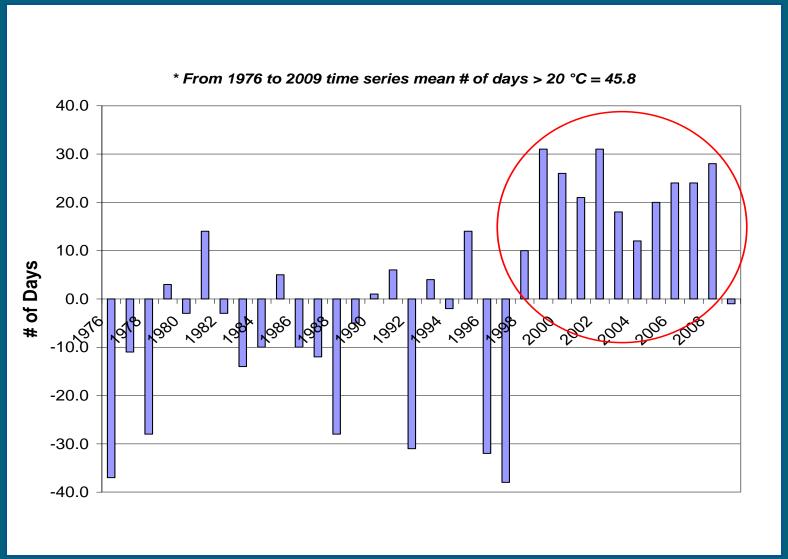
Potential Causes of Recruitment Failure

- Environmental increased frequency/duration of water temperature in excess of 2oc threshold associated with stress/disease.
- Continued fishing
- Predation by increasing abundance of shallowwater predators (striped bass, smooth dogfish, scup)
- Fishery discarding increases predation exposure

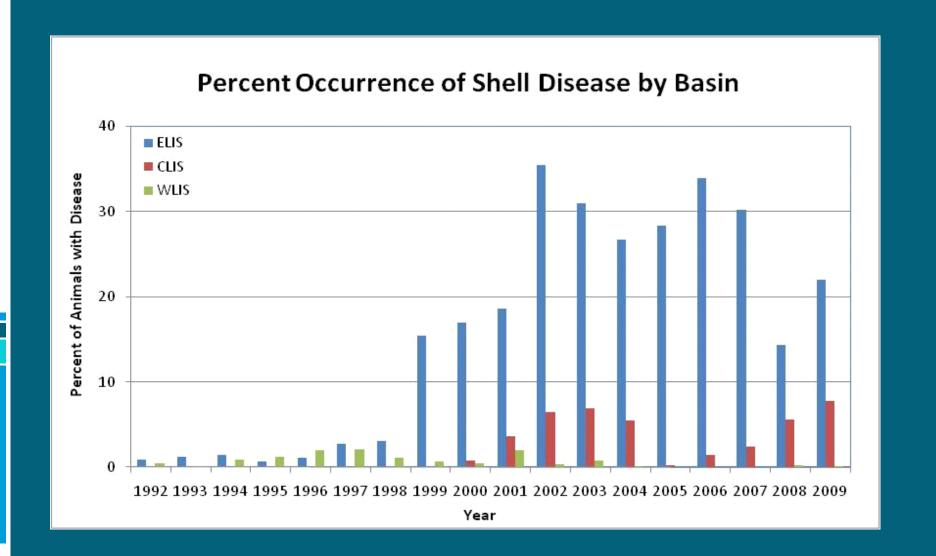
Anomalies from the MEAN NUMBER of DAYS ABOVE 20°C of the Woods Hole sea-surface temperature, 1945 - 2009.



Anomalies from the MEAN NUMBER of DAYS ABOVE 20°C at MILLSTONE POWER STATION INTAKES, 1976-2009



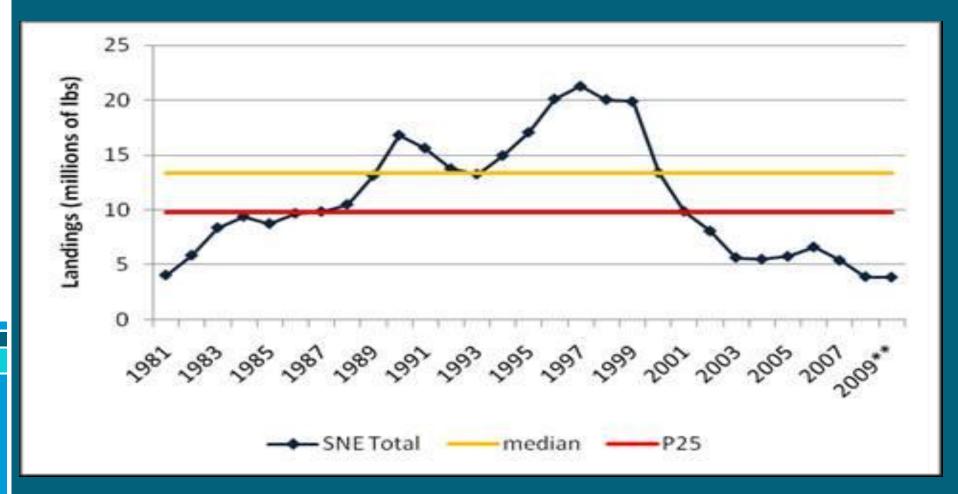
Other Concerns: Shell Disease



Indications of recruitment failure in the Southern New England Stock & LI Sound

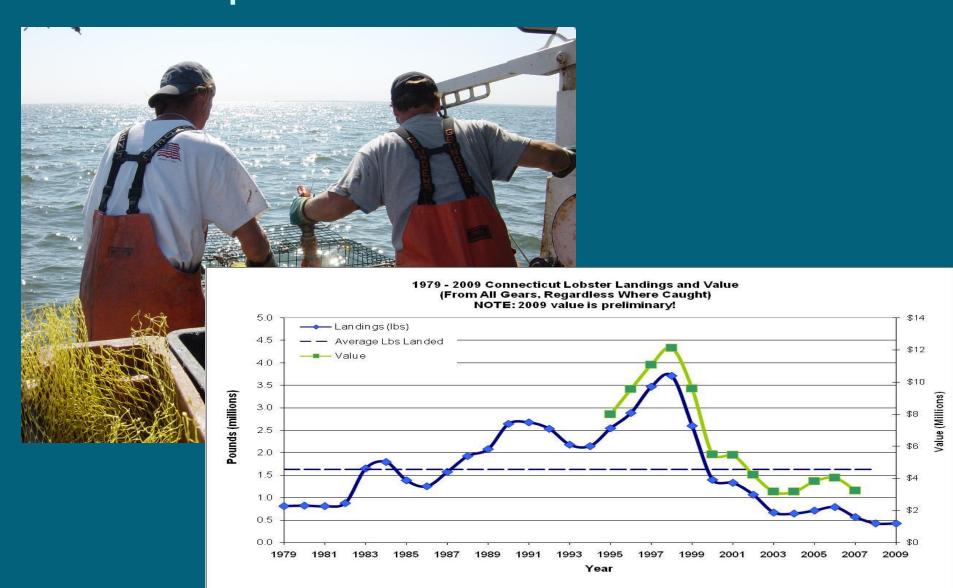
- Stock-wide indices of reproductive potential and abundance continue to fall
- 10 years of falling landings matching falling abundance in DEP surveys (MFIS, LISTS)
- fewer sub-legal than legal size lobsters in the commercial catch since 1998 (sea-sampling)
- 8 out of last 9 years with poor larval production in Eastern & Western Long Island Sound

Total Southern New England Lobster Landings

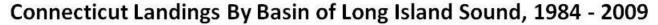


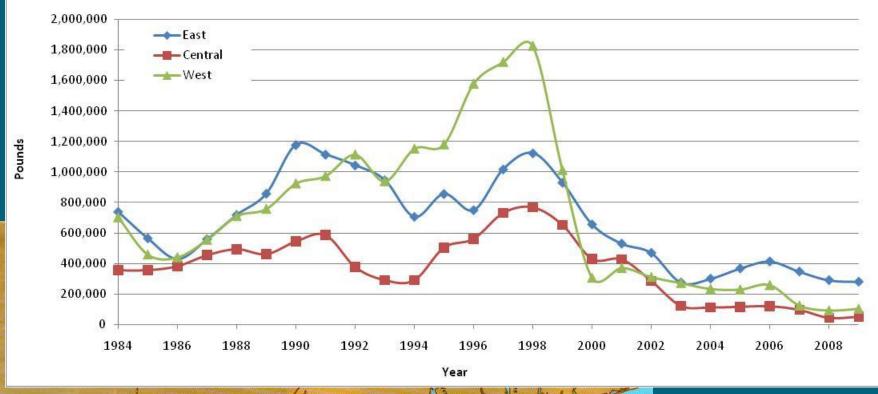
The median (yellow) and 25th percentile (red) of the 1984-2003 reference period are shown.

Connecticut Landings: pounds and dollars



Connecticut Landings by Basin



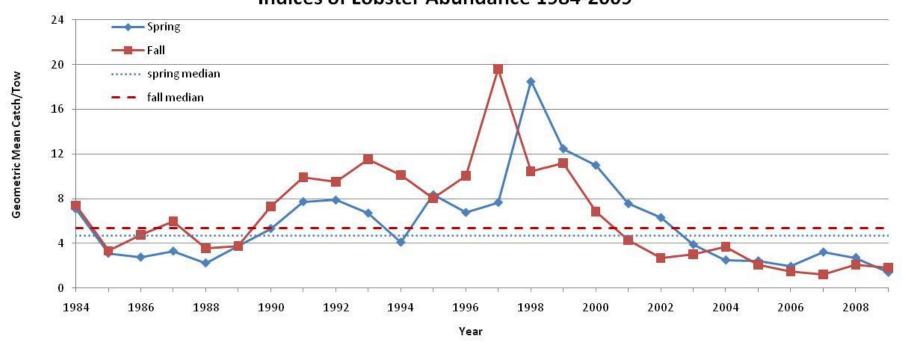




CT DEP Long Island Sound Trawl Survey

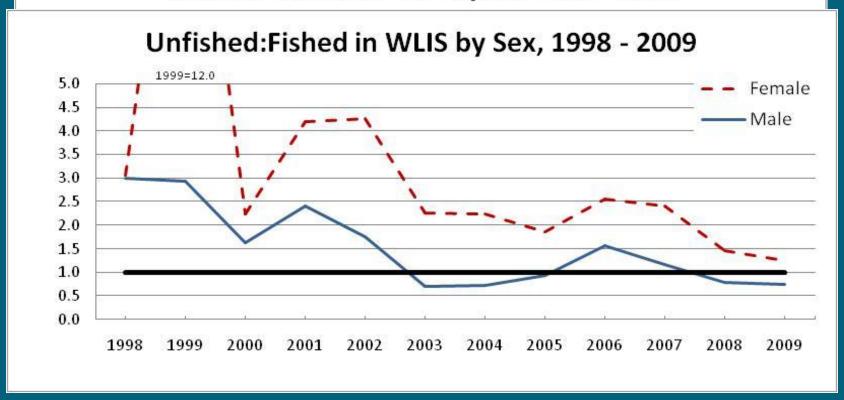


CT DEP Long Island Sound Trawl Survey Indices of Lobster Abundance 1984-2009



Ratio of fished to unfished sizes

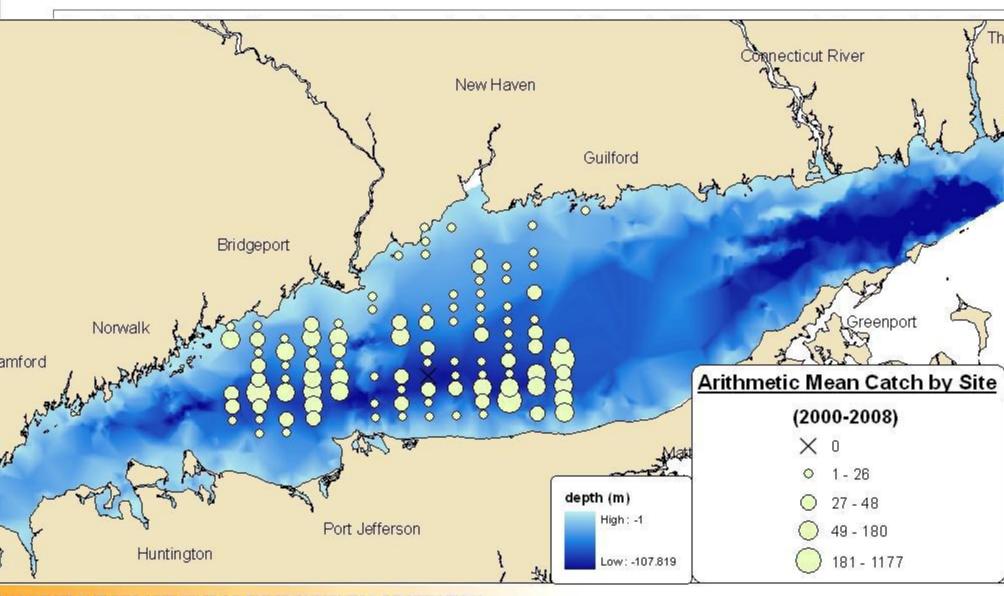




A RATIO BELOW ONE MEANS THAT THERE ARE MORE OLD LARGE LOBSTERS ALREADY IN THE FISHERY THAN YOUNG SMALL ONES READY TO ENTER THE FISHERY

Remaining stock concentrated spatially

- Nearshore waters more depleted (temp, predation)
- Spatial concentration in deeper waters increases fishery impact (exploitation rate) on remaining population



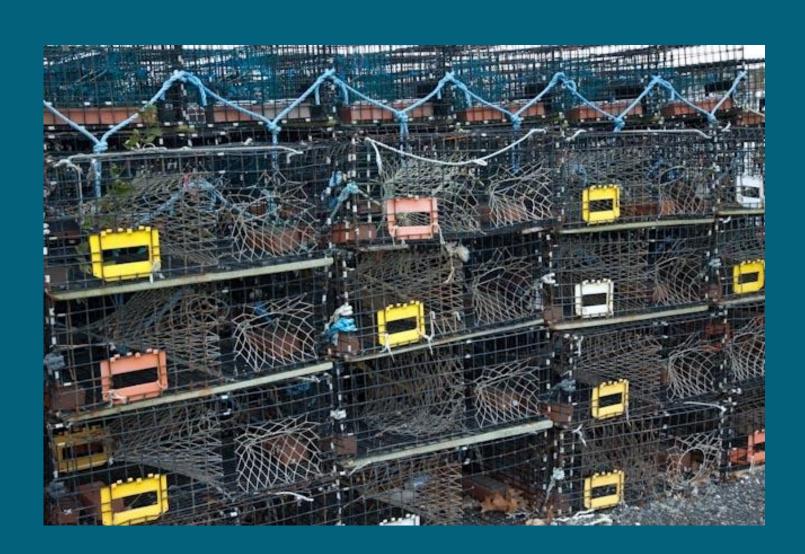
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Parallel Actions

 Fishery Management – Work to rebuild resource so that it can support a viable, sustainable commercial/recreational fishery again

 Socio-Economic – State-Federal elected officials petition NOAA to find Federal Fishery Disaster in SNE and seek assistance for fishermen (as done in LIS 2000)

Questions on the presentation?



Comments about Current Condition of Lobster Resource



WHAT OPTIONS SHOULD BE CONSIDERED TO REBUILD

THE LOBSTER
RESOURCE
OVER THE NEXT
FIVE YEARS?



Thank You for Coming!



Comments can be submitted to:

David Simpson, Director
CT DEP Marine Fisheries Division
PO Box 719
Old Lyme CT 06371

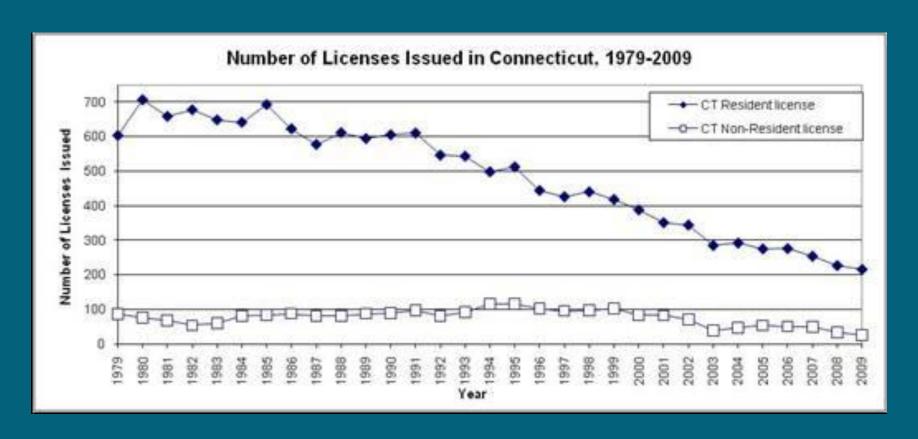
Email: david.simpson@ct.gov

Phone: (860)434-6043

More Trends in Fishery

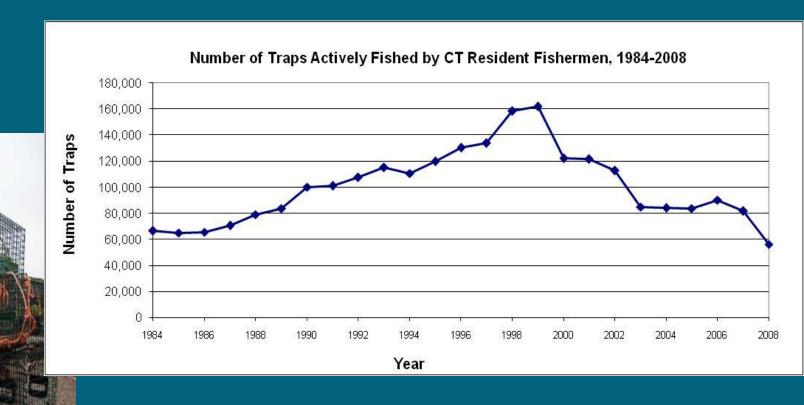
- Licenses sold in CT
- Traps fished
- Trap Hauls
- Recruitment indices....

Participation in the CT Lobster Fishery

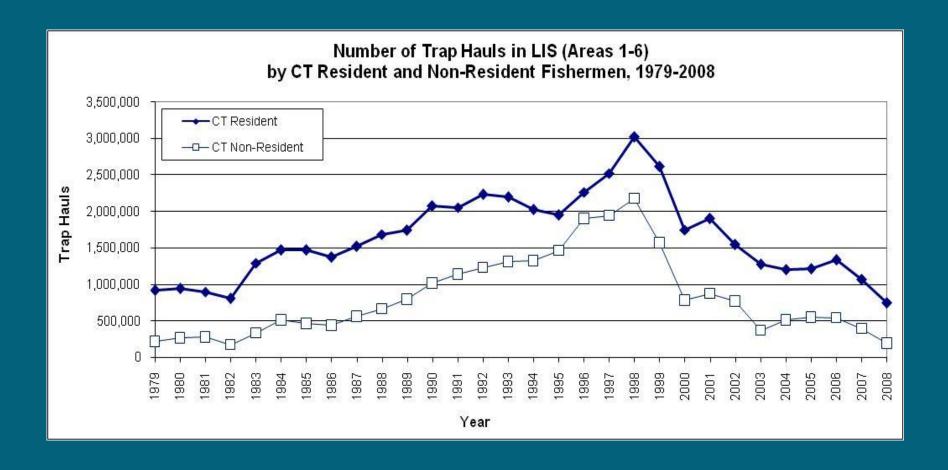


There are many reasons for the decline in license holders.

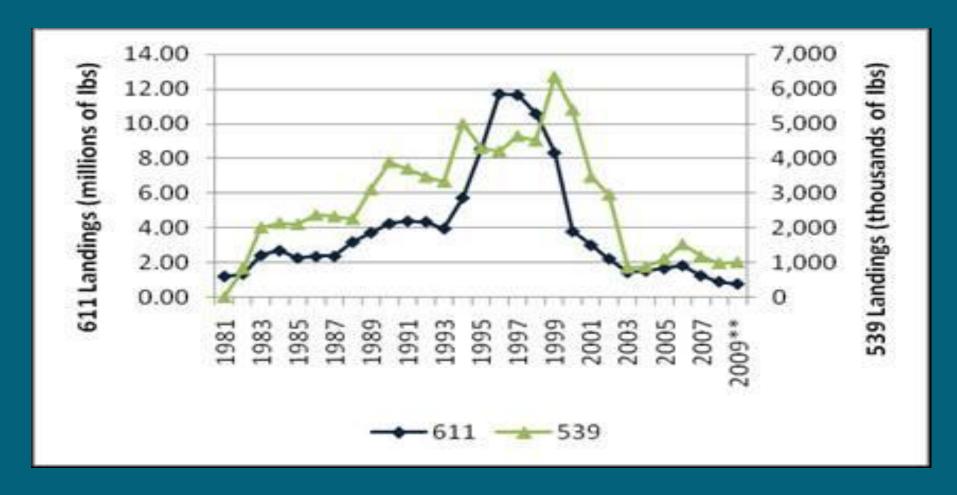
Effort: declined to 1980's levels



Effort: declined to 1980's levels same trend in resident & non-resident

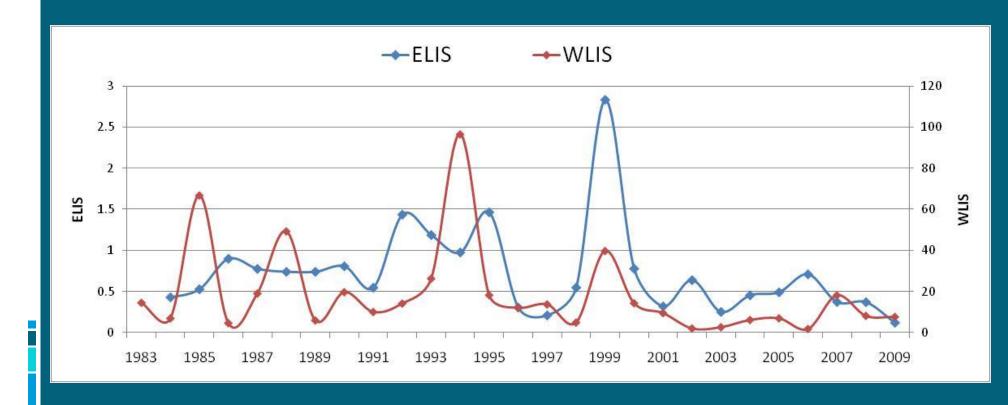


Lobster Landings By Stat Area



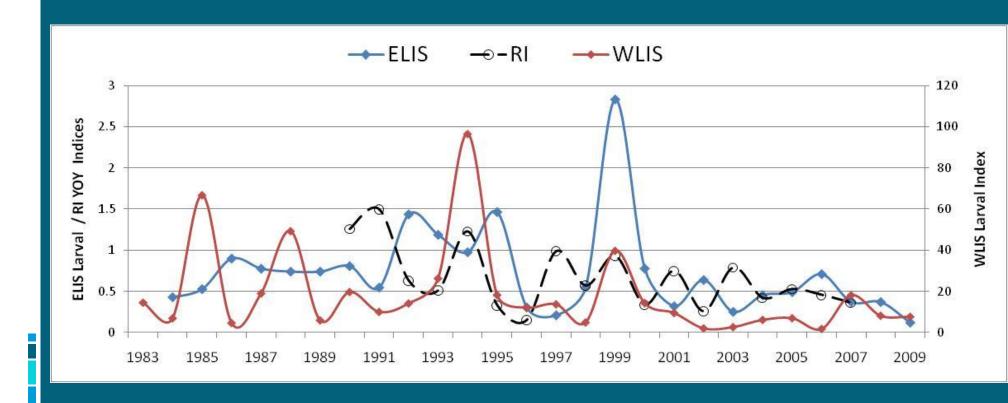
Area 611 = Long Island Sound and the Race area Area 539 = Block Island Sound, RI Waters

TRENDS in LARVAL PRODUCTION



ELIS: Millstone entrainment densities of all larval stages
WLIS: CT DEP Plankton Survey of late-stage larvae at 7 stations
west of Stratford Shoals

LARVAL and YOUNG-OF-YEAR INDICES for the SNE LOBSTER STOCK



ELIS: Millstone entrainment densities of all larval stages

WLIS: CT DEP Plankton Survey of late-stage larvae at 8 stations

RI: YOY densities at two sites in Narragansett Bay

Continuous temperature recordings inside lobster traps

