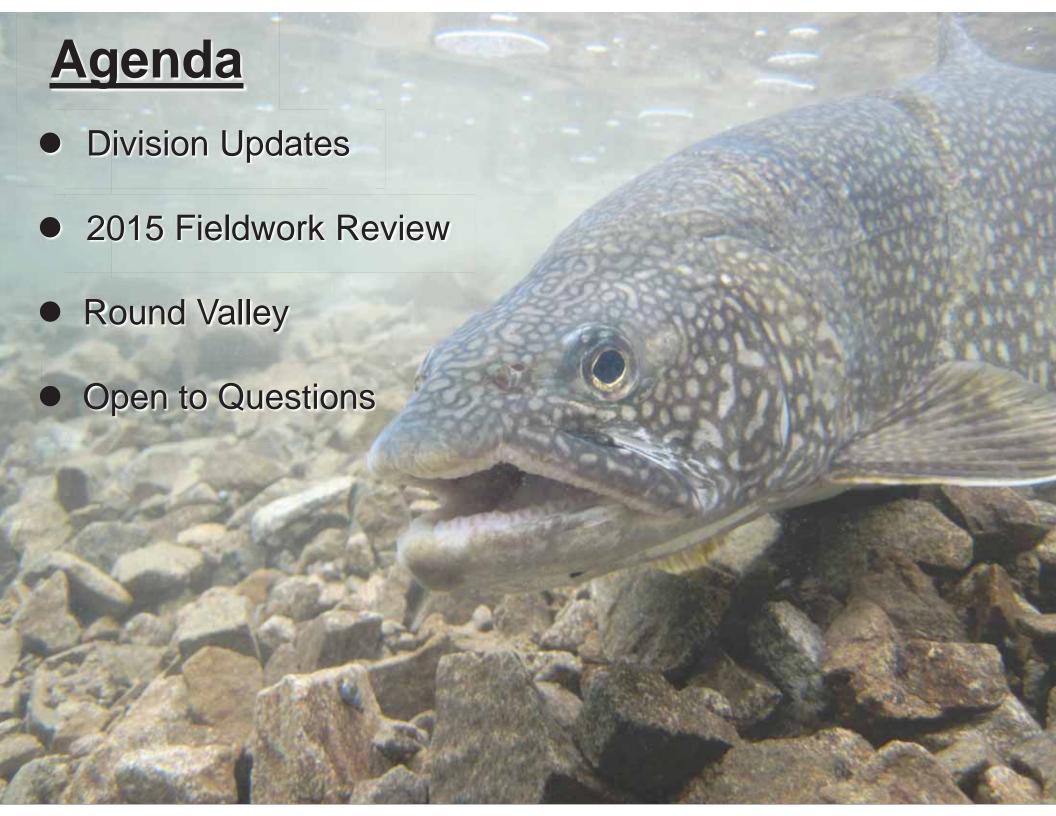
# Round Valley Trout Association (March 17, 2016)

Shawn Crouse
Principal Fisheries Biologist
shawn.crouse@dep.nj.gov
(908) 236 - 2118







# No Regulation Changes for RVR



<u>Year</u> 2001 - 2007 <u>Size (in.)</u> 20

Daily Limit
1

2008 - 2011

15 – 20

&

3

≥ 24

1

(protected slot no fish b/w 20 -24 inches)

2012 - 2017

15 to less than 24

6

& ≥ 24

1

2018 - 2019 may consider a change...

- additional harvest?
- smaller minimum size?
- slot limit?
- no closed season?





# Maintenance / Improvements

### Near the Gravel Launch...

- Creation of 30 yard Cartop Access area
- regrade launch
- potentially use ACB's
  (but would have to regrade entire lot to minimize erosion)

### Miscellaneous

- New guide posts between lots
- Repair docks, bathrooms, chainlink fences



# Home About Us Authority Mtgs Mtg. Minutes Board Members Organization Operations Data Canal Dredging Water Systems Watershed Div. Preservation Procurement Employment Links Publications Rate Proposals NJWSA Statutes

Admin, Code

RV Project

### Round Valley Reservoir Dams Rehabilitation and Resource Preservation Project

March 3, 2016

The New Jersey Water Supply Authority is responsible for operating and maintaining the Spruce Run and Round Valley Reservoirs for drinking water supply. As part of the Authority's asset management program, it hired a team of internationally recognized dam experts to conduct a holistic review of the Spruce Run Reservoir and Round Valley Reservoir dams.

Based on the results and recommendations from this review, the Authority plans to make improvements that will extend the operating life of the Round Valley dams. This will also increase their durability and resilience. Design standards and construction techniques have evolved in the 50 plus years since the dams were built. Many dams of similar type to the Authority's that were built in the same era also require periodic rehabilitation. The Authority's plans for improvement of the dams will bring them to today's state of the art design standards and construction techniques.

The Authority will move forward with improvements to the Round Valley dams over the next few years. A Request for Proposals for design of these improvements has been issued. Visible construction activities are anticipated to start in 2018. These improvements will allow for safe dam operation for future generations.

Additional information will be posted to our website when it becomes available.

To view the Project Procurement information visit our Procurement Page

# NJWSA.org

# RVR Management

- Continued Monitoring of Lakers
- No Regulation changes in 2016
- Possibly liberalize Laker
   Regulations in 2018?
- Continued Rainbow Stocking
- Continued Shiner Evaluation & Stocking

- Lake Inventory / Management Plan







### Golden Shiner



Length: 8-12 in.

Habitat: shallow weedy lakes

Optimal Temperature: 63-75°F (<30 ft in summer)

Spawning: May to August 68°F (repeat spawners) as low as 55°F

age 1 in south (2.5 inches) and age 3 in Canada

broadcast over vegetation

Feeding: mid and surface water zooplankton & insect larvae, mollusks, fil. algae

Misc.: common baitfish, mostly warmwater, tough! 100°F

Found in our surveys in 1967 to 1972

Pros: cheaper than alewives, fine if they do no harm

Cons: may not get good reproduction, possible disease & parasites

2012 40,000 Anderson 116 lbs. (approx.) 2-3 inches

2013 500,000 raised in 2 ponds 332,545 stocked 966 lbs.

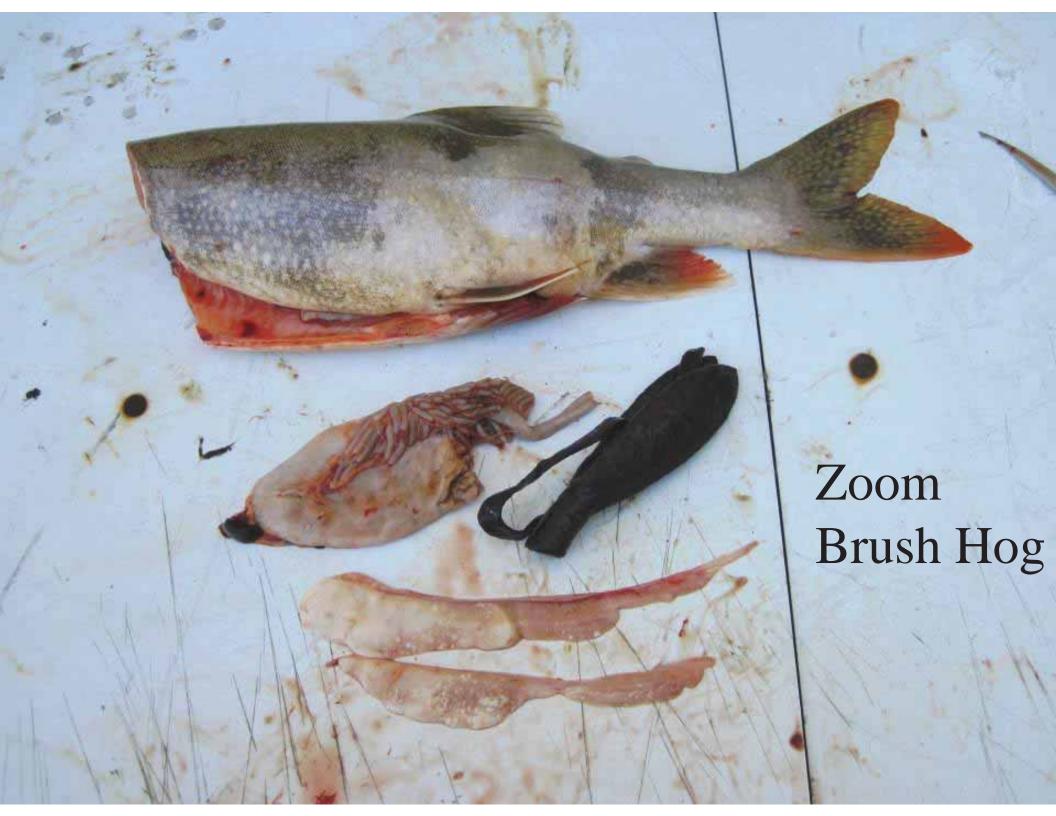
2014 1,000,000 raised in 4 ponds 114,000 stocked 855 lbs.

3.5 - 4.5 inches















# Fall Gillnetting for Lakers

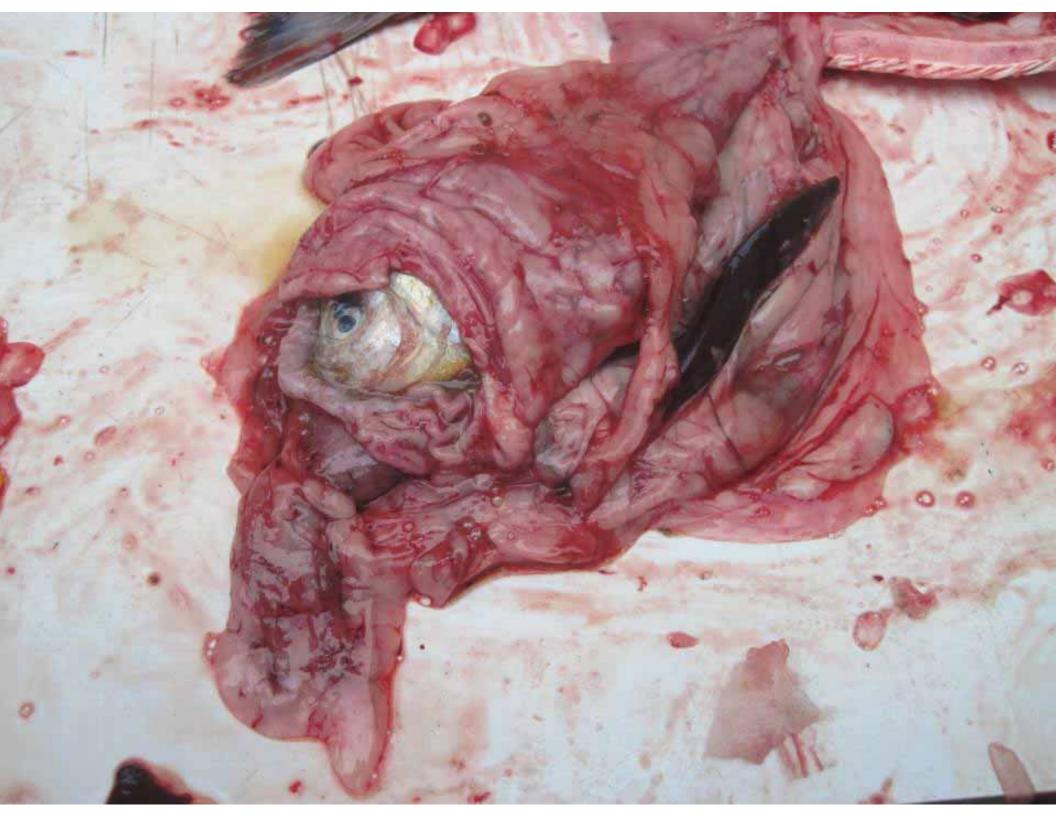


http://www.fishingrvta.com/

Photo by John Young



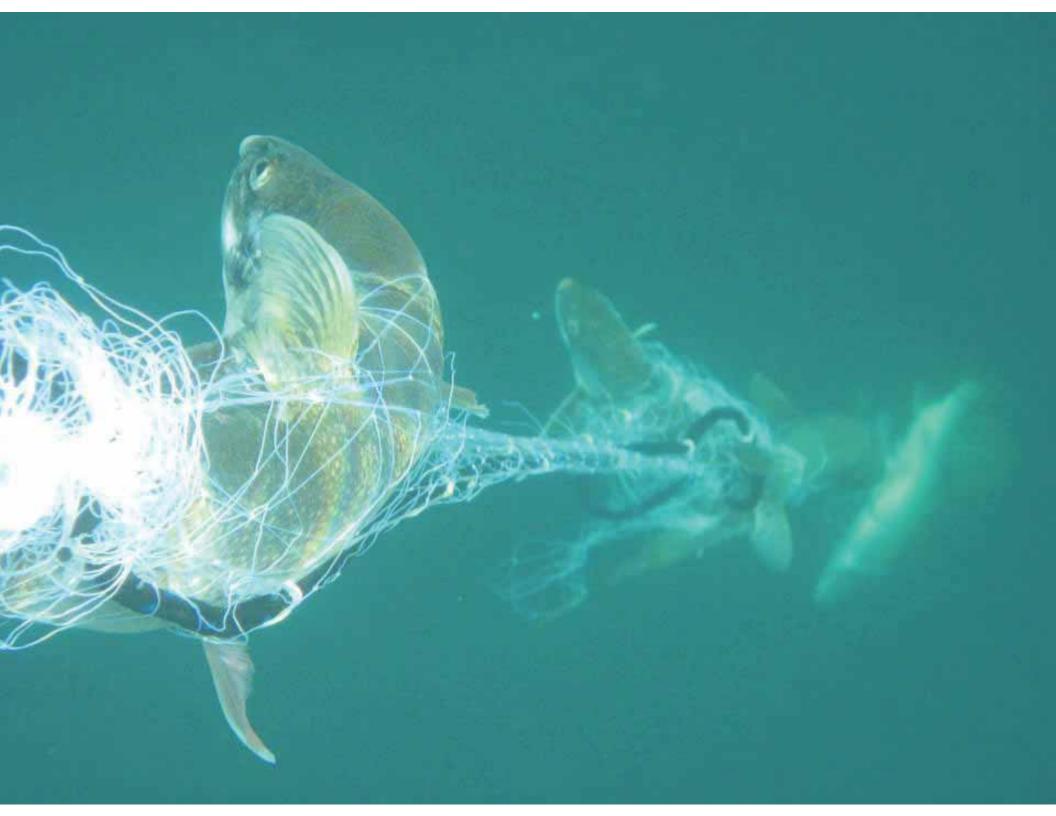
























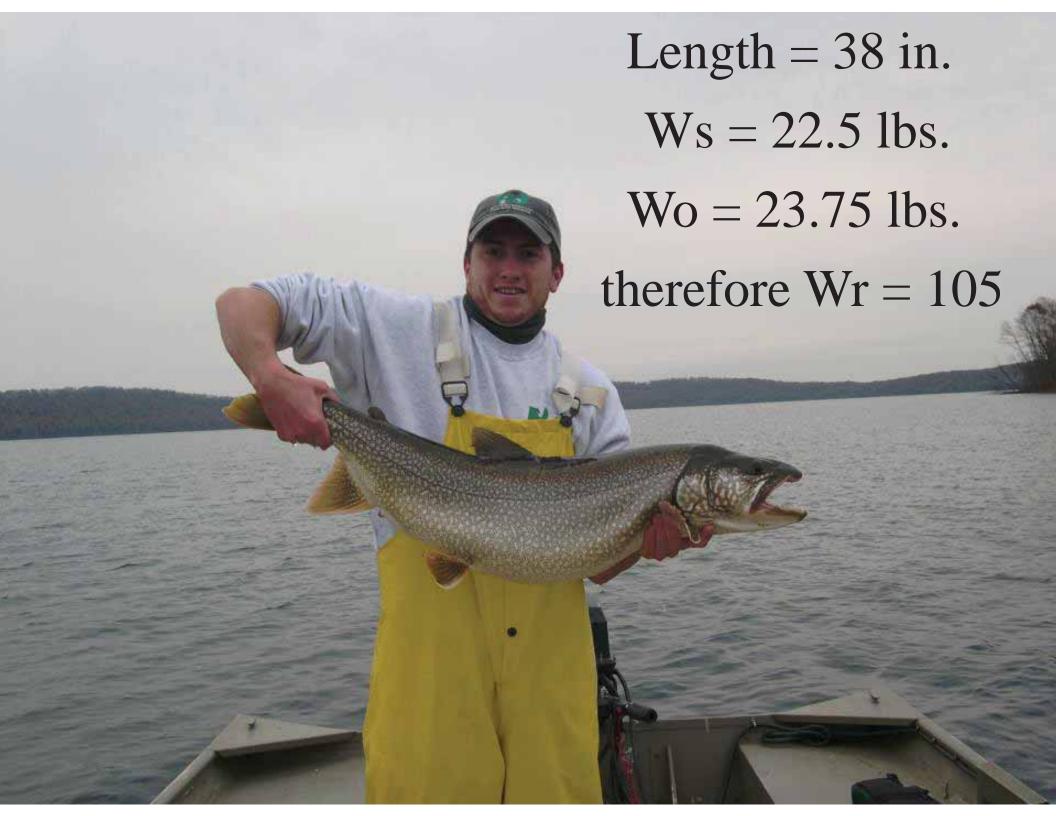


## Relative Weight

Index of Condition

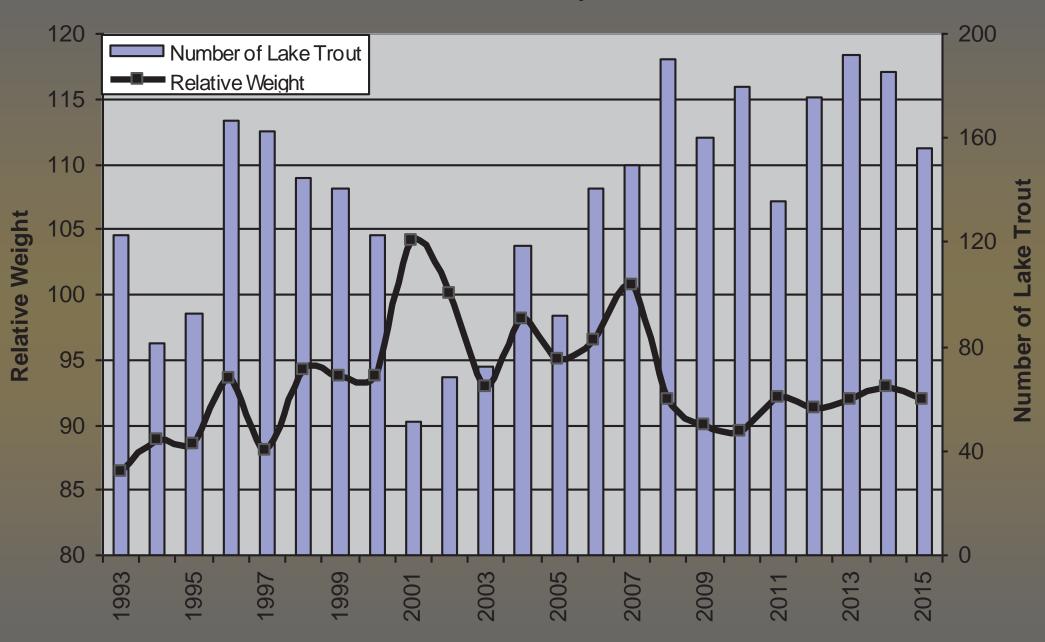
Compare an observed weight to a standard weight at a given length.

$$Wr = (Wo / Ws) \times 100$$

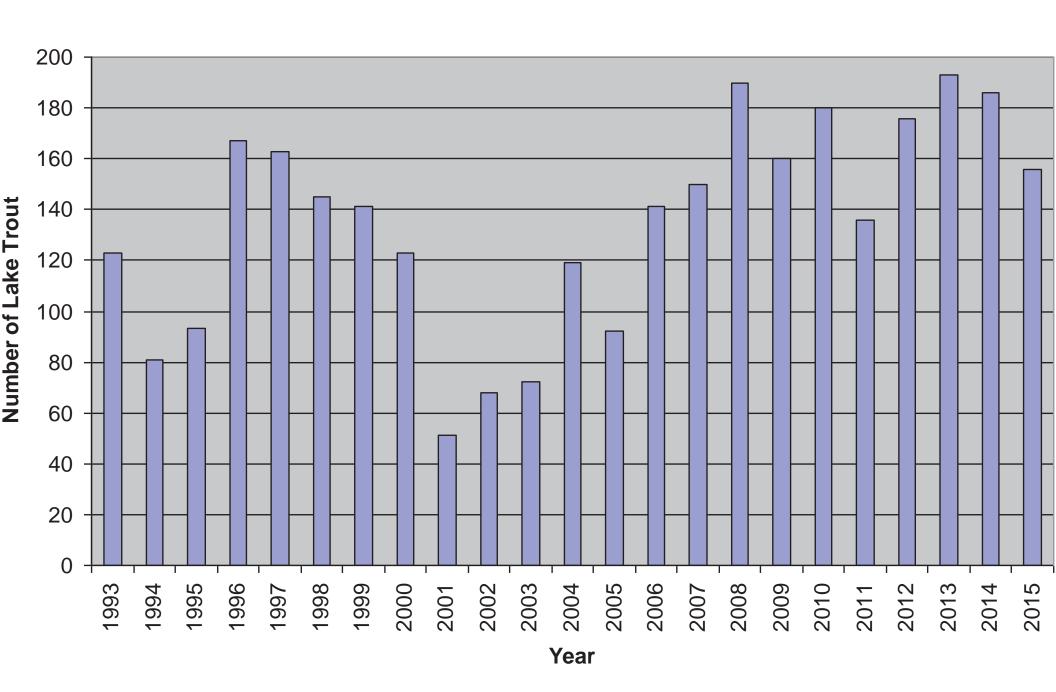




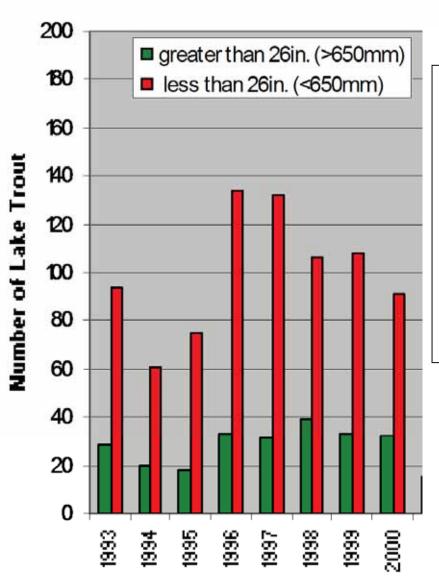
### All Lake Trout by Year



### **Total Number of Lake Trout from 1993 - 2015**



### Lake Trout Size Structure Shift in RVR



1977 - lake trout stocking began

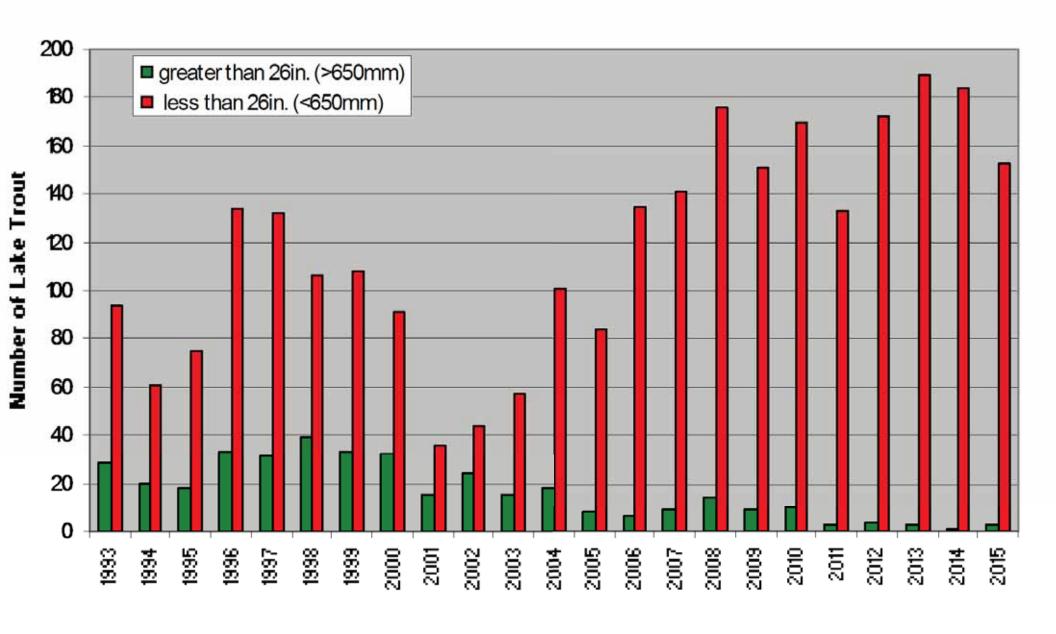
1985 - lake trout reproduction documented

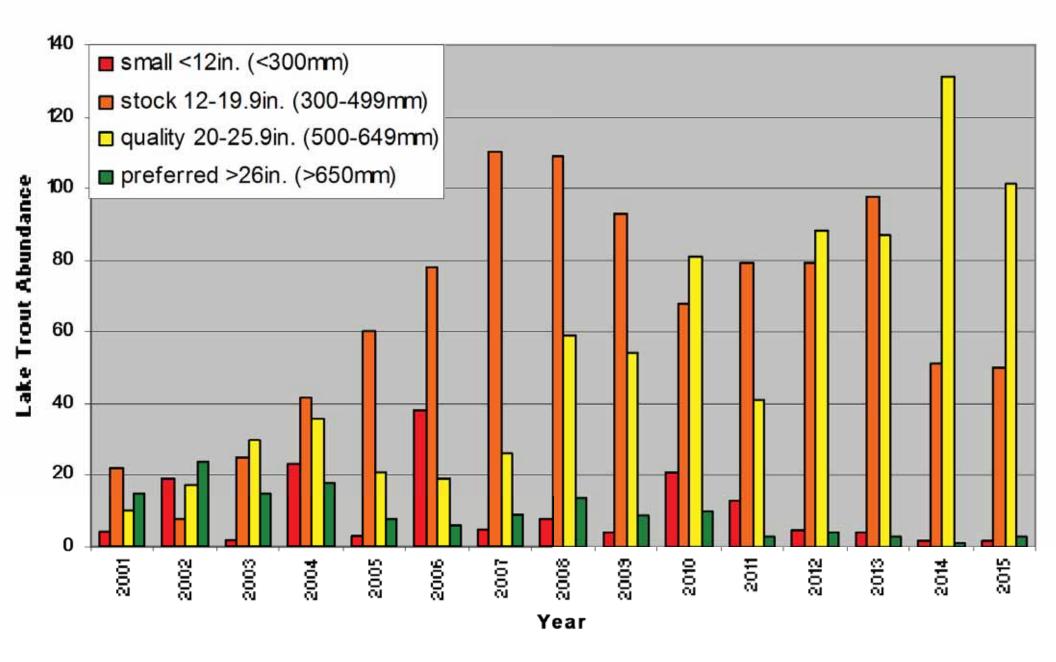
1995 - lake trout stocking discontinued

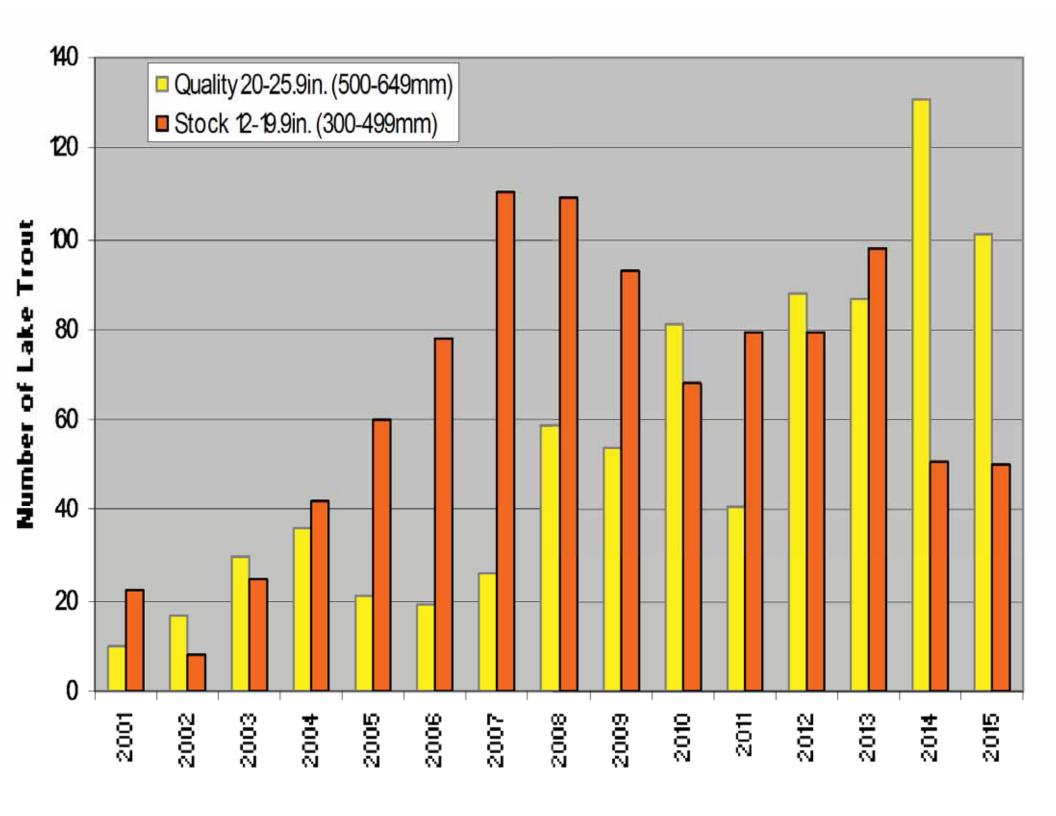
1997 - decline of alewives & laker Wr

1990's - many large lakers and popular

#### Lake Trout Size Structure Shift in RVR







# Percentage of Lake Trout

## under 20 inches

1997

2007

2015

n=163

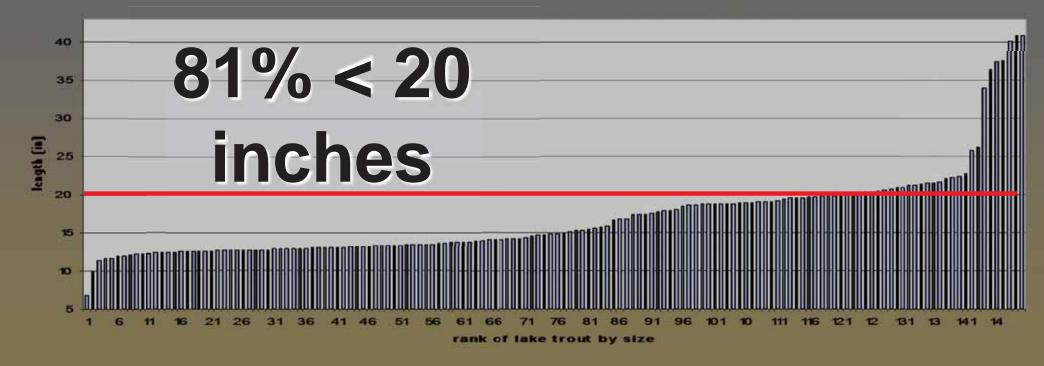
n=150

n=156

31%

81%

38%





### **Average Length of Lake Trout by Age**

