Agenda

- Division Updates
- 2015 Fieldwork Review
- Round Valley
- Open to Questions
<table>
<thead>
<tr>
<th>Year</th>
<th>Size (in.)</th>
<th>Daily Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>2001 - 2007</td>
<td>20</td>
<td>1</td>
</tr>
<tr>
<td>2008 - 2011</td>
<td>15 - 20 &amp;  ≥ 24</td>
<td>3 &amp; 1</td>
</tr>
<tr>
<td></td>
<td>(protected slot no fish b/w 20 - 24 inches)</td>
<td></td>
</tr>
<tr>
<td>2012 - 2017</td>
<td>15 to less than 24 &amp; ≥ 24</td>
<td>6 &amp; 1</td>
</tr>
<tr>
<td>2018 - 2019</td>
<td></td>
<td>may consider a change…</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- additional harvest?</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- smaller minimum size?</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- slot limit?</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- no closed season?</td>
</tr>
</tbody>
</table>

No Regulation Changes for RVR
Maintenance / Improvements

- Excavation of embankment to expand parking area and turn radius at gravel launch
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
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
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
Winter 2014-2015
15-20 lbs.

June 2015
18.1 lbs.
35 in.
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
<table>
<thead>
<tr>
<th>Year</th>
<th>Action</th>
<th>Fish Count</th>
<th>Weight</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>40,000 Anderson</td>
<td>40,000</td>
<td>116 lbs.</td>
<td>2 – 3 inches</td>
</tr>
<tr>
<td>2013</td>
<td>500,000 raised in 2 ponds</td>
<td>500,000</td>
<td>332,545 stocked</td>
<td>966 lbs.</td>
</tr>
<tr>
<td>2014</td>
<td>1,000,000 raised in 4 ponds</td>
<td>1,000,000</td>
<td>114,000 stocked</td>
<td>855 lbs.</td>
</tr>
<tr>
<td>2015</td>
<td>500,000 raised in 2 ponds</td>
<td>500,000</td>
<td>295,238 stocked</td>
<td>1,669 lbs.</td>
</tr>
<tr>
<td>2016</td>
<td>Commitment from DFW</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tbody>
</table>

- 500,000 in 2 ponds
Shoreline Seining 6/12/15
15 pulls

Banded Killifish (126)
Spotfin Shiners (121)
Bluegill (8)
Redbreast Sunfish (7)
Largemouth Bass (1)
Rock Bass (1)
Salmonid Stomach Contents
Round Valley Reservoir
Lake Trout Monitoring
2015
156 lakers
Fall Gillnetting for Lakers

Total 2015
156 lakers

http://www.fishingrvta.com/

Photo by John Young
Round Valley Reservoir: Lake Trout

- 156 Lake Trout
- 13 Rock Bass
- 10 Rainbow Trout
- 7 Channel Catfish
- 6 Yellow Perch
- 1 Yellow Bullhead
8.9 lbs.
26.4 in.
North Dam
2013 Hybrid Striper
24.1 in.
7.3 lbs.
2015
North Dam
22.6 lbs.
39.3 in.
Wr = 90
Relative Weight

- **Index of Condition**

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

  \[ Wr = \left( \frac{W_o}{W_s} \right) \times 100 \]
Length = 38 in.
Ws = 22.5 lbs.
Wo = 23.75 lbs.
therefore Wr = 105
2015
North Dam
22.6 lbs.
39.3 in.
Wr = 90
All Lake Trout by Year

Number of Lake Trout
Relative Weight


Relative Weight:
- 0
- 40
- 80
- 120
- 160

Number of Lake Trout:
- 80
- 120
- 160
- 200
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

- **greater than 26in. (>650mm)**
- **less than 26in. (<650mm)**

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Lake Trout</th>
</tr>
</thead>
<tbody>
<tr>
<td>1983</td>
<td>20</td>
</tr>
<tr>
<td>1994</td>
<td>60</td>
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<tr>
<td>1995</td>
<td>20</td>
</tr>
<tr>
<td>1996</td>
<td>140</td>
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<tr>
<td>1997</td>
<td>120</td>
</tr>
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<tr>
<td>1999</td>
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<tr>
<td>2001</td>
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<td>2013</td>
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<tr>
<td>2014</td>
<td>60</td>
</tr>
<tr>
<td>2015</td>
<td>40</td>
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</tbody>
</table>
Percentage of Lake Trout under 20 inches

1997: n=163, 31%
2007: n=150, 81%
2015: n=156, 38%
81% < 20 inches

38% < 20 inches
Average Length of Lake Trout by Age

- Mean 29 lakes
- DFW (n=38)

**Slow Growth**
Average Length of Lake Trout by year

Highest since 2003
2014
9.1 lbs.
28.7 in.
South Dam
2013
34.6 in.
17.0 lbs.
Wr 102
2013
39.2 in.
20.2 lbs.
Wr 81
They’re in there!
…but very few and far between

Largest of 2012 Female
24.5 lbs.
38.8 in.
2009
40.9 in.
32 lbs. 11oz.
3 oz. over record