Counting salmon eggs volumetrically (Example)

Fish hatcheries must take regular inventory of the amount of eggs or taken during spawning and how well they are surviving in the hatchery. With millions of eggs to count, it is not possible to count every egg, so estimation the egg number is performed volumetrically. This exercise will present the methods used.

Equipment and materials

- 250 mls
- 25 mls
- Graduated cylinders
- Plastics beads representing eggs

Count the number of eggs in 25 ml

Measure all eggs (including the eggs counted) to obtain a total volume (may require filling)

Total volume = 5,000 ml

Calculation

\[
\frac{153 \text{ eggs}}{25 \text{ mls}} = \frac{X \text{ eggs}}{5,000 \text{ ml}}
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\frac{153 \text{ eggs} \times 5,000 \text{ mls}}{25 \text{ mls}} = 31,875 \text{ eggs}
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