PROJECT: HYDRO
SYSTEM: Semi-closed system in sea
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CtrlAQUA

FishGLOBE – technology for sustainable production of postsmolt

AIM:

Make a technology for semi-closed containment in sea as a standard product for production of postsmolt.

DURATION: 2015-2023

FISH SIZE TESTED: 100-1000 gram

SALINITY TESTED: Salt water

HIGHLIGHTS:

Good water circulation:

- to obtain optimal water quality
- even water velocity in the whole volume of the tank
- fast removal of particles
- homogeneous distribution of oxygen

Sustainability:

- high energy efficiency due to low lifting hight
- high collection of sludge
- low feed waste
- no escape

Fish welfare:

- no sea lice treatment
- good growth
- gentle delivery method of fish

RECOMMENDATION:

- Stable water quality, no rapid changes i oxygen. Avoid sun light to prevent fouling inside the tank. Continuous feeding to ensure food availability to all fish and stable conditions.

FishGLOBE 3.5 K at site Kilaneset.

READ MORE: www.fishglobe.no

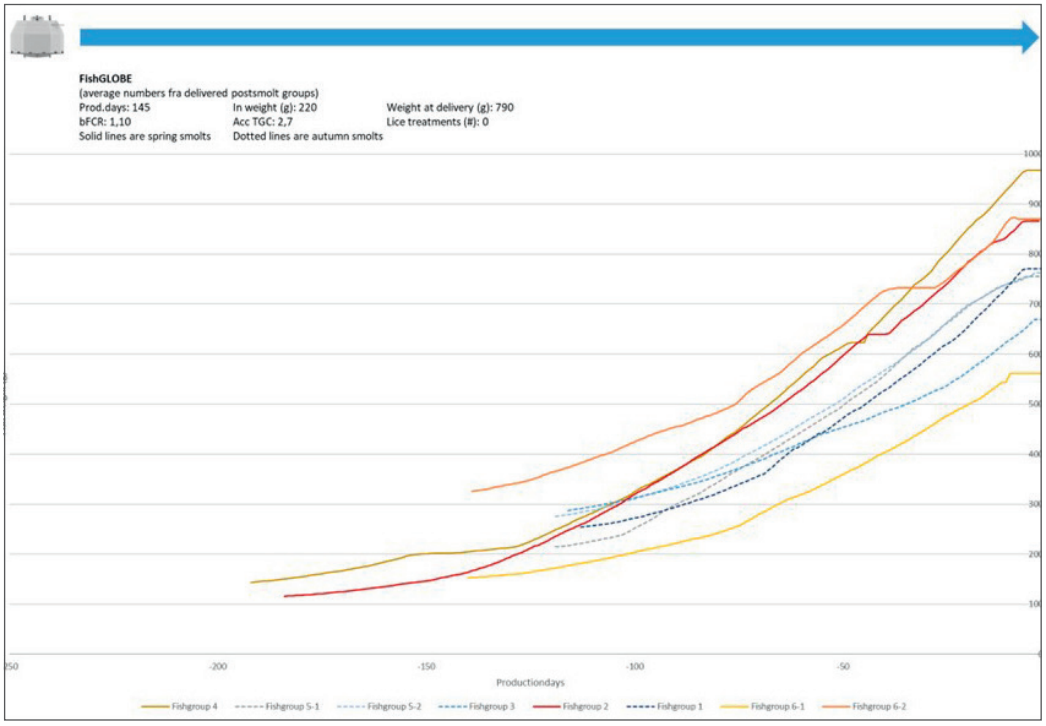
Åsa Maria Espmark, Kevin Stiller, Khurram Shahzad, Britt Kristin Reiten, Yuriy Marchenko, Jascha Gerwins, Filip Strand Radonjic, Bernhard Eckel, Carlo Lazado og Arne Berge (2020). Nytt S-CCS konsept for oppdrett av laks - Postsmoltproduksjon i FishGLOBE. Nofima rapport 42/2020.

Gorle et al., 2018. https://doi.org/10.1016/j biosystemseng.2018.08.012

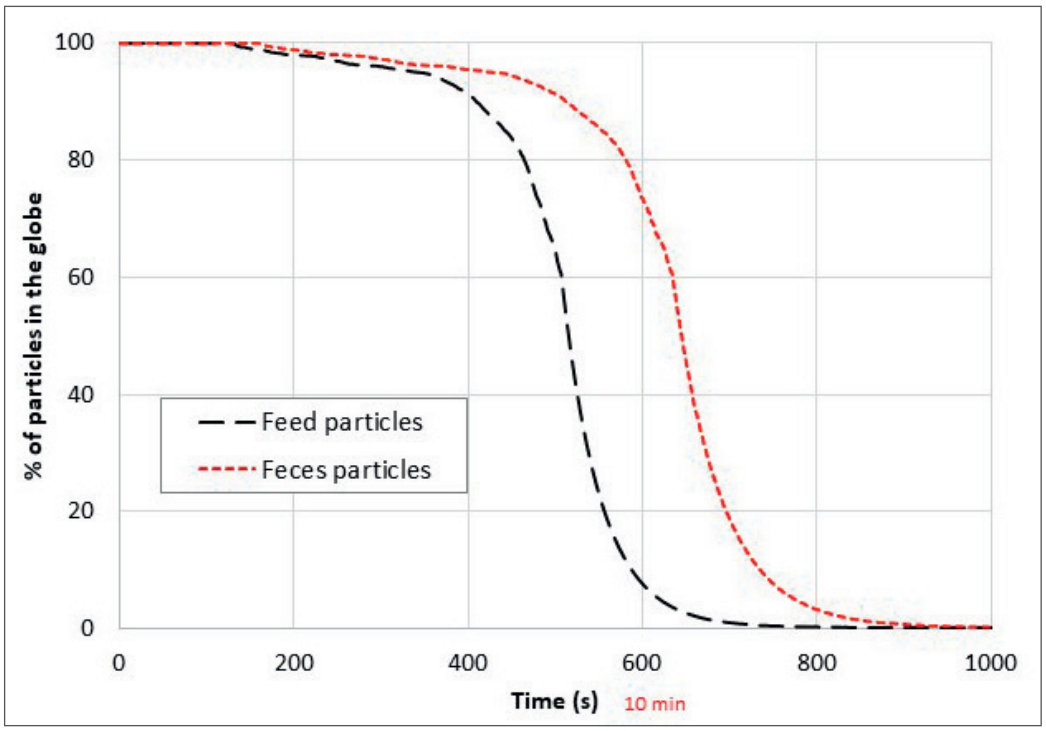
Lazado et al., 2022. https://doi.org/10.3389/ fanim.2022.871433.

Lazado ete al., 2022. https://doi.org/10.3389/ fanim.2022.1021226

The factsheet is ready for commercial implementation



Postsmolt groups produced in FishGLOBE from 2019 to 2022.



The figure shows the time it takes to remove feed and feces particles from the water.