

Aquaphonics – integrated fish and plant production

- Farming of salmon and trout is Norway's next largest industry. The export value is approximately 5 billion Euro per year
- Discharge of nutrients from uneaten feed and feces pollutes fjords and coastal water. Nutrient load equivalent to approx. 10 mill people.



Fiskeoppdrettsanlegg per 2008
laks og ørret



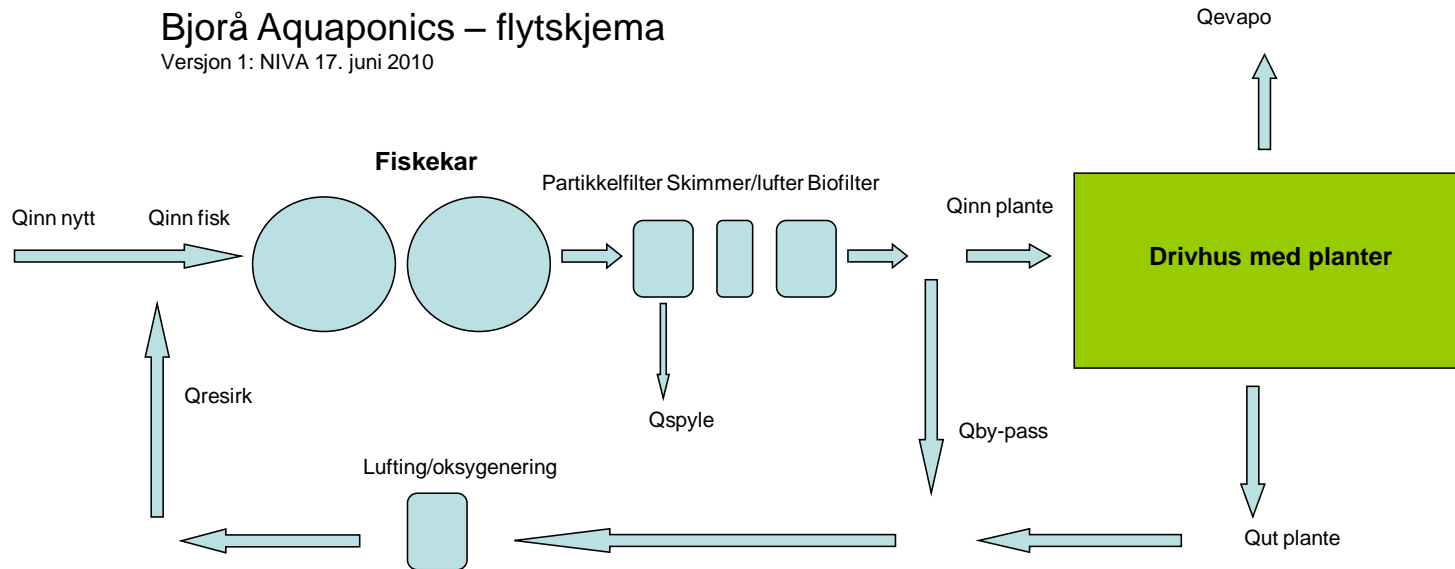
Liltveit

Kilde: Norsk institutt for vannforskning, Fiskeridirektoratet, 2010
www.miljostatus.no

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Bjørå Aquaponics – flytskjema

Version 1: NIVA 17. juni 2010



Vannstrømmer (Q) i liter/min

Qinn nytt

Qinn fisk

Qinn plante

Qevapo – evaporasjon og opptak i planter

Qresirk – resirkulert vann

Qspyle – spylevann fra filter

Qby-pass – vannmengde som går utenom drivhus

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Why aquaponics

- Need for reuse of water in land based aquacultural systems to reduce water consumption and pollution
- Use the nutrient in recirculating water to produce valuable vegetable crops or ornamental plants. Remove TAN by nitrification and uptake of N and P in plants.

