

Danish Aqua Culture



Fish farming in Denmark



Started in 1896

- Developed slowly until around 1960
- Many farms established in period of 1960 1975
- Sea farming (salt water) develops during 1980'ies

Production p.a. ca.:

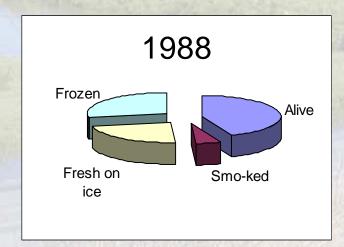
-	Trout in FW	31,500 tons
-	Trout in SW	10,000 tons
-	Eel	2,000 tons
-	Other	500 tons
		44,000 tons

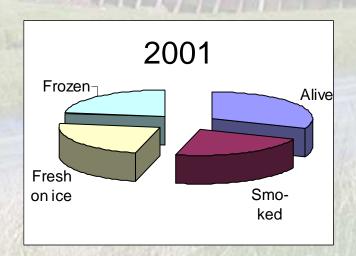


Fishfarming in Denmark

Trout in freshwater

- since 1894
- 200 farms (125 owners)
- production ca. 31,500 tons per year





Source: Hevico A/S

Fishfarming in Denmark

Trout in seawater

- since 1956
- 17 farms (6 owners)
- production 10,000 tons per year (average 600 ts)
- sets out 800-1000 grams fish in April
- all female
- harvests +3000 grams fish in Sept. Dec.
- export for Germany France Japan
 - 10 12% roe







Regulations – fresh water farms



Discharge measured as rise over the farm (fw) (analyses paid by farmer) Limitations on discharge of:

•	BOD ₅	1 mg/l
•	Suspended solids	3 mg/l
•	Total phosphorous	0.05 mg/l
•	Ammonium nitrogen	0.4 mg/l
•	Total nitrogen	0.6 mg/l
•	Oxygen saturation in waste water	>/= 60% rel.

Purification system

• Generally at settlement systems

Model farms – type III





Regulations – sea farms



Discharge measured as rise over the farm (sw)

Limitations on discharge of:

- Quota for phosphorous
- Quota for nitrogen

Calculated as:

+ Added via feed

- Removed with the fish

= Discharge

Limitation on feed (feed quota)

Danish Aquaculture



Goals for 2015:

Increased volume (tons per year)

•	Fresh water	60,000
•	Sea water	40,000
•	Other spices	10,000
•	Eel	5,000

- Investments corresponding to 3% of turn over p.a.
- Refinement percent >80%
- Be in "Top 5" of fish consumption in Denmark
- Solve the "mystery" of eels and produce eel-fry

