

State of the union in salmon farming

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The state of the union is quite good!





Salmon price NOK/kg



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But how long can you squeeze the lemon?

- Profits and share prices are high because stagnant volumes lift prices
- Lower volume = higher profits as price increases more than volume drops
- But that logic has its limits
 - Zero volume doesn't produce infinite profits..



Where are we and how did we get here?

Investment analysis of salmon farming is very simple, you only need to think about 4 things:

- 1. Price
- 2. Cost
- 3. Volume
- 4. Valuation



Price & cost have decoupled..



- Step change in profitability last 5 years
- Price is no longer determined by cost
- Cost is up but so far the consumer has picked up the bill.

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...as flat volumes create a tight market



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Sources: SSB, DNB Seaood

7

Higher & more stable margins → higher multiples



P/B & EV/kg at new highs on record earnings

Sources: FactSet

Implicit salmon price levels & margins



- High prices are not a worry, the market accepts these levels
- High margins could be a worry in that it triggers massive innovation, new players and potential disruptive changes down the road

How to drive value from here? There is a limit to how high prices can go

Economic value added of 1 mill tons @ NOK/kg 20 margin and 2 mill tons @ NOK/kg 10 could be almost identical if the higher supply cuts license values in half

- 80% of capital employed is the license value, and the license value is a function of the margin..
- If existing players don't do this, the Gov't or new entrants might eat their lunch thru economic rent tax or disruptive technology
- And supply can help build demand..



A big chest of silver can be more valuable than a small pot of gold DNB Foods & Seafood

..the end of the road or room for further growth?

If all salmon farming in Norway was one company, it would not make the top 3 on OSE..





Key issues for the next decade

- 1. Price
- 2. Demand
- 3. Sustainability
- 4. Supply & Innovation
- 5. Macro



What sets the price?

Volume planning for salmon farmers in the current market environment is easy



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<u>From Pork Cycle to The Pedal To The Metal:</u> supply doesn't impact prices in a systematic way anymore (Random biological and weather factors still do)

What sets the price?





- Until 2012 higher prices meant higher volumes. Not anymore
- Will new technology add capacity high on the supply curve or low?
 - Oil sand vs shale oil very different impact on incumbent producers

Sources: DNB Seaood

Demand is the new sheriff in town





Driving consumption per capita has a major potential

Market size and consumption per capita



- Better market segmentation
- E-commerce, new distribution formats, better logistics
- Dark side of the moon, we drown in data for supply but have mostly anecdotes for demand
- Consumption/capita +1.3 kg in Finland last 8 years same as total in USA...

Sustainability

Changing perception from being a problem to part of the global solution

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- License to operate and grow
 - Governments
 - Consumer perception
- Improving existing sustainability issues
- Lifting max sustainable production capacity



Salmon is good for the planet!

Salmon farmers top the FAIRR animal protein sustainability index



FAIRR is the world's first comprehensive assessment of the largest global animal protein companies on critical environmental, social and governance issues

Sources: FAIRR

New frontiers and technology

- Optimizing & debottlenecking current production
- New territories: Iceland, NE Canada, Chile region XII
- Land based
- Offshore
- Digitalization

3 steps of the digital disruption for newspapers How will salmon play out in comparison?



Journalister må ha dispensasjon for å bruke PC





Saving cost Good for almost everybody Known disruption Good for some, bad for most as entry barriers lowered Unknown disruption Good for very few, bad for everyone else as market totally redefined

Macro

General macro is not important for the salmon market But growing emerging middle class is

> "Normal" trade wars are manageable... Fresh fish very vulnerable against technical trade barriers





FX major impact on relative regional competitiveness NOK collapse & USD strength in 2014 major pain for Chile



Two big macro themes



Interest rates at 5000 year low & biggest monetary policy experiment ever being set in reverse...

A battle for world hegemony



Current trade tension, protectionism and geopolitical conflict more fundamental than previous decades?

Sources: Bank of England

The force is with you!

population eats

healthier

"All" the mega-trends in favor of the fish farming industry

Limited CO2 An increasing world waste and population water needs food consumption vs other animal Growing production middle class in emerging markets demands more protein Better grocery Limited volume retail supply potential in Higher chains in fishing, growth Ageing educated emerging has to come from population eats

more fish

fish farming

Low feed conversion rate vs other animal production

markets

Thank you for the attention



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