



LANDSSAMBAND FISKELDISSTÖÐVA

Akvakultur i Island

Dr Jonas Jonasson



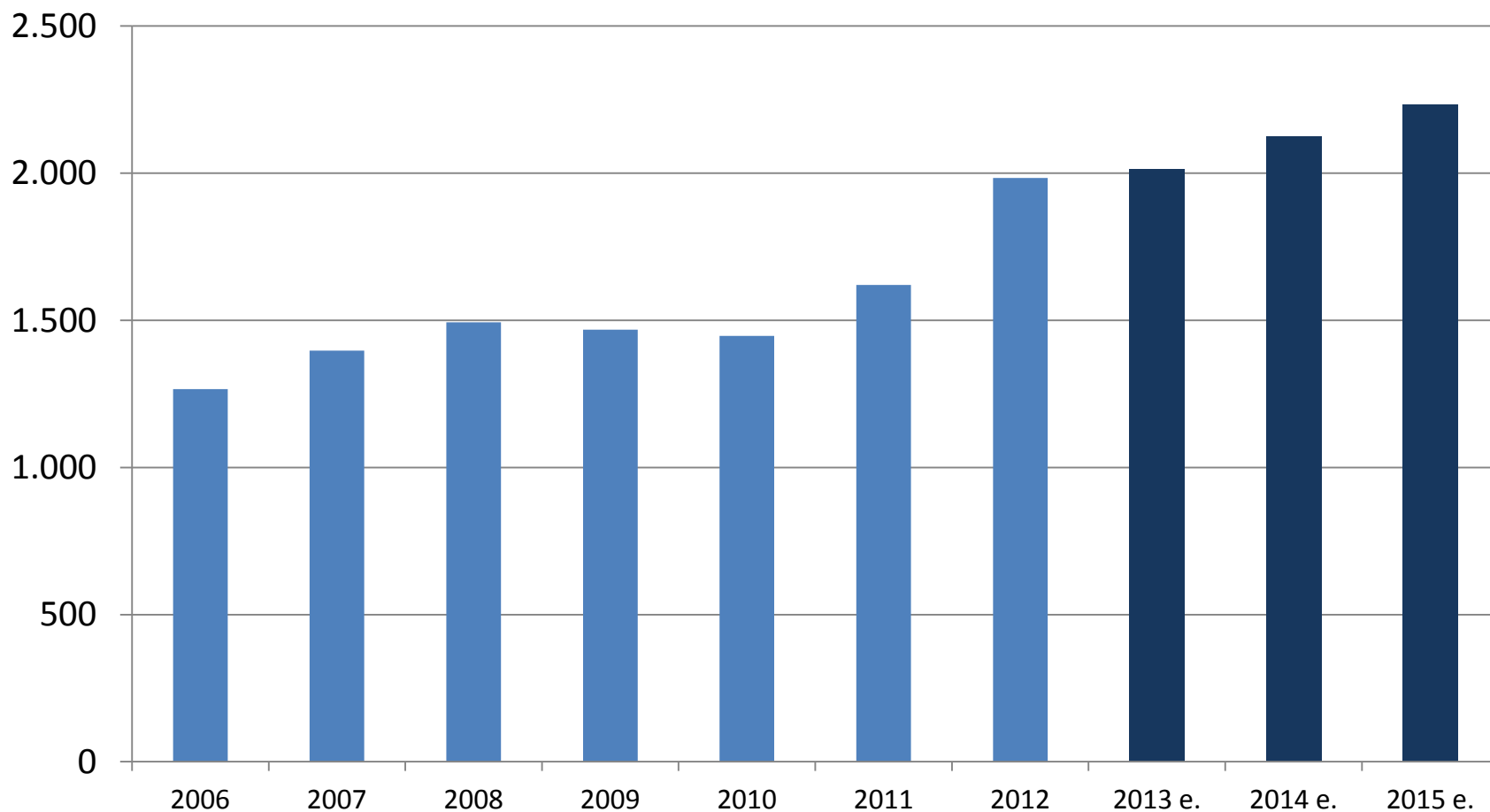
Fiskeoppdrettenes Landsforening

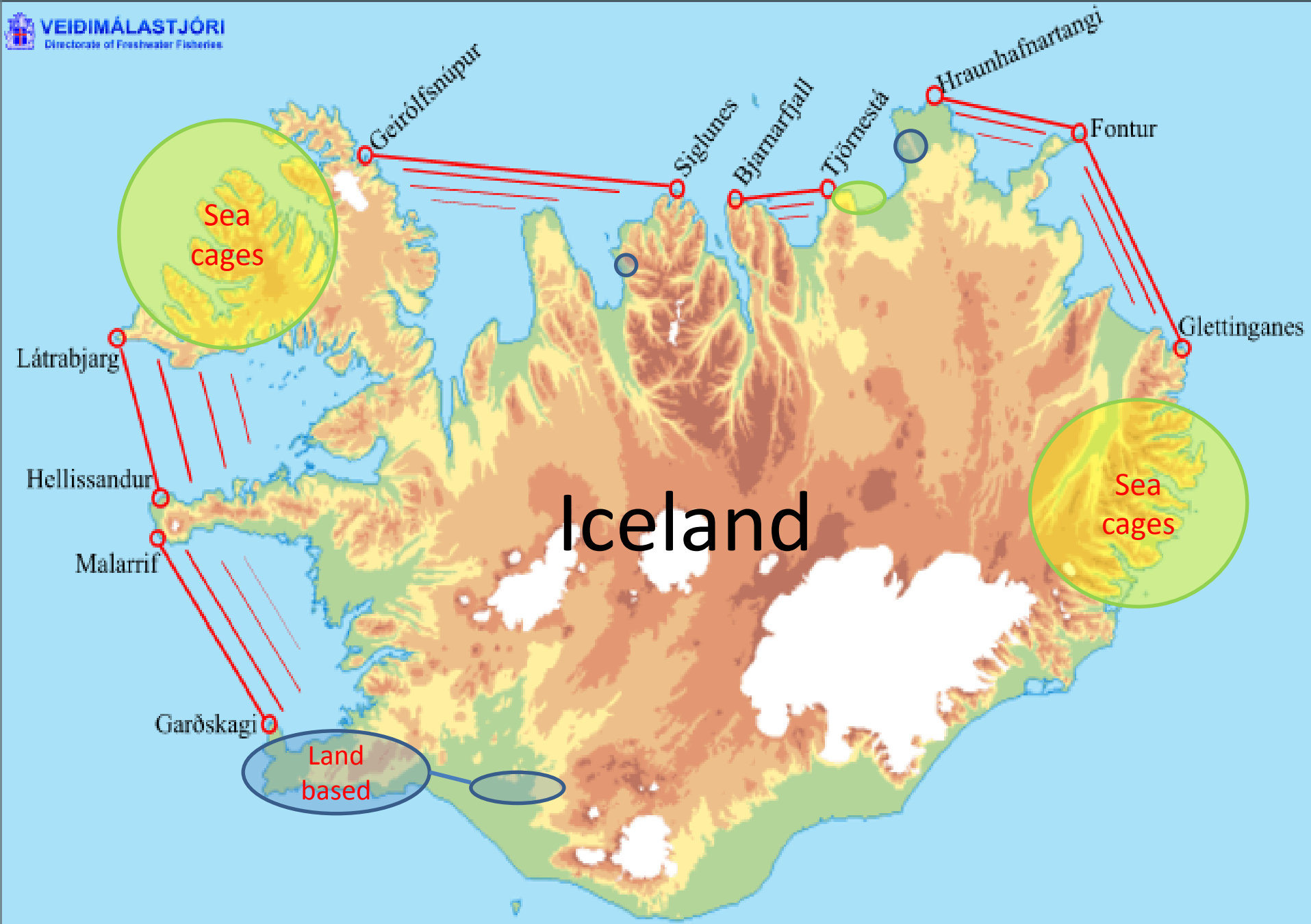
- Det er 20 firmaer i landsforeningen
- 4 torsk oppdrett
- 4 laks oppdrett
- 6 Røye
- 2 Regnboge ørret
- 2 Anlegg med Tilapia og Senegal Flure (Stolt)
- 3 Smolt stasjoner
- 2 anlegg for rogn produksjon
- Totalt jobber ca. 340 innan for oppdrett på Island





Estimert produksjonsvekst for laks

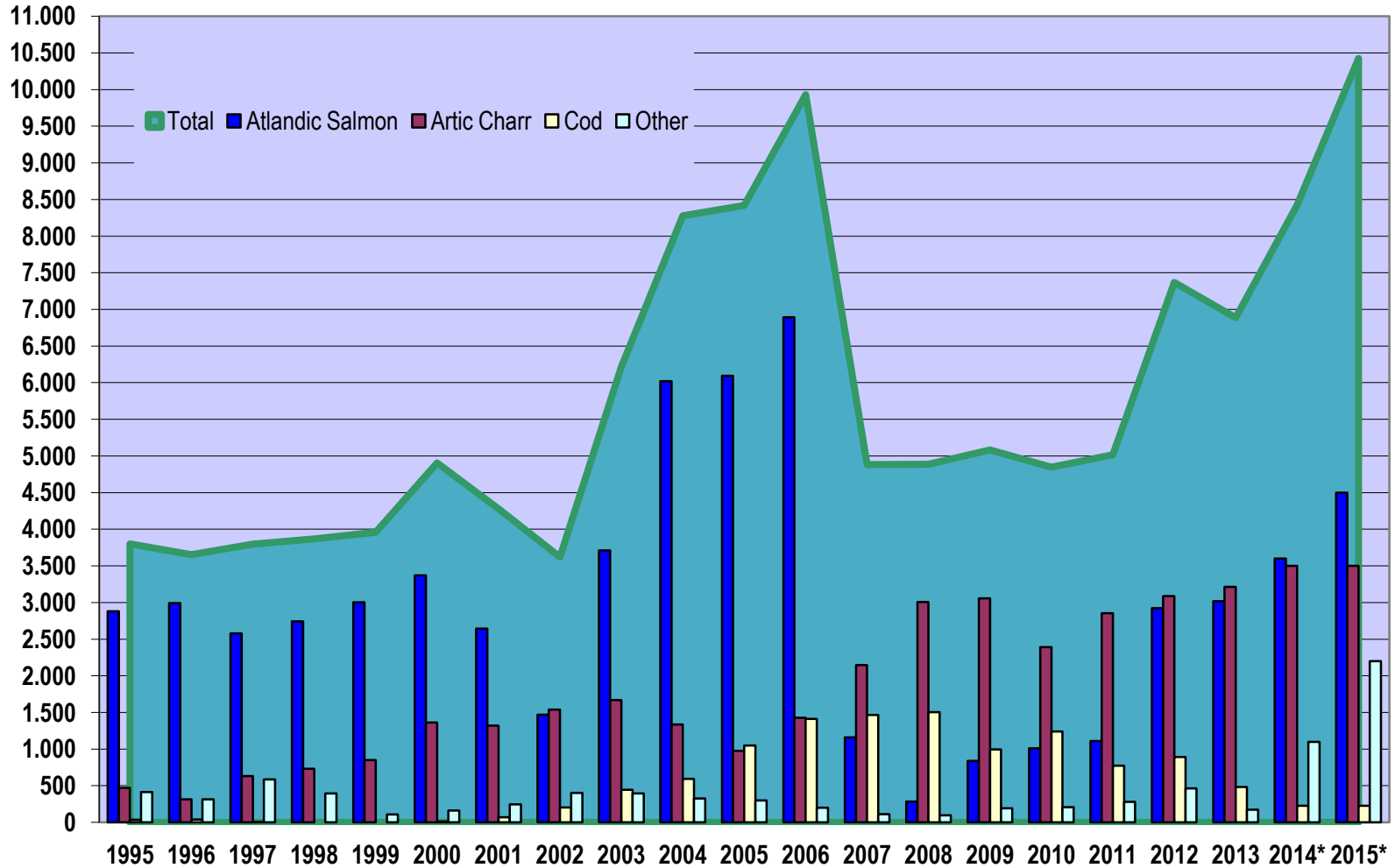






Production in Aquaculture in Iceland

Metric Tonnes - Round fish



* Forecast. Source: Iceland Aquaculture Association



First detection of certain fish diseases in Iceland



1965 '70 '75 '80 '85 '90 '95 '00 '05 '10 2015

BKD *

(1968)

Atyp. furunculosis **

(1979)

Winter ulcers ***

(1983)

Enteric redmouth #

(1990)

Cold water vibriosis ##

(1993)

Furunculosis ###

(1995)

Vibriosis °

(2001)

- * Very few clinical cases in fish farms the last years. Occasionally found in wild salmonids in rivers and lakes.
 - ** Spread all over the country. Controlled by vaccination since 1992.
 - *** Have mainly been problem in land based farms, but also in sea-cages to some extent. Vaccination since 1993.
 - # First outbreak in July 1990 (salmon), diagnosed in salmon, rainbow trout, char, cod, turbot and halibut since 1997.
 - ## First isolation in Atl. salmon in March 1993 and cod in Nov. 2010, in sea-cage farms. Controlled by vaccination in salmon.
 - ### Outbreak in wild salmon and trout in the river Elliðaár in Reykjavík, in the summer 1995. The last isolation was done in the spring 1996 in the same river. No spread into any fish farms.
 - ° First isolation in November 2001; 2 kg's cod of wild origin, farmed in land based farm. Approx. 20% mortality.
- NB! No clinical virus diseases have ever been diagnosed in the Icelandic aquaculture so far.**

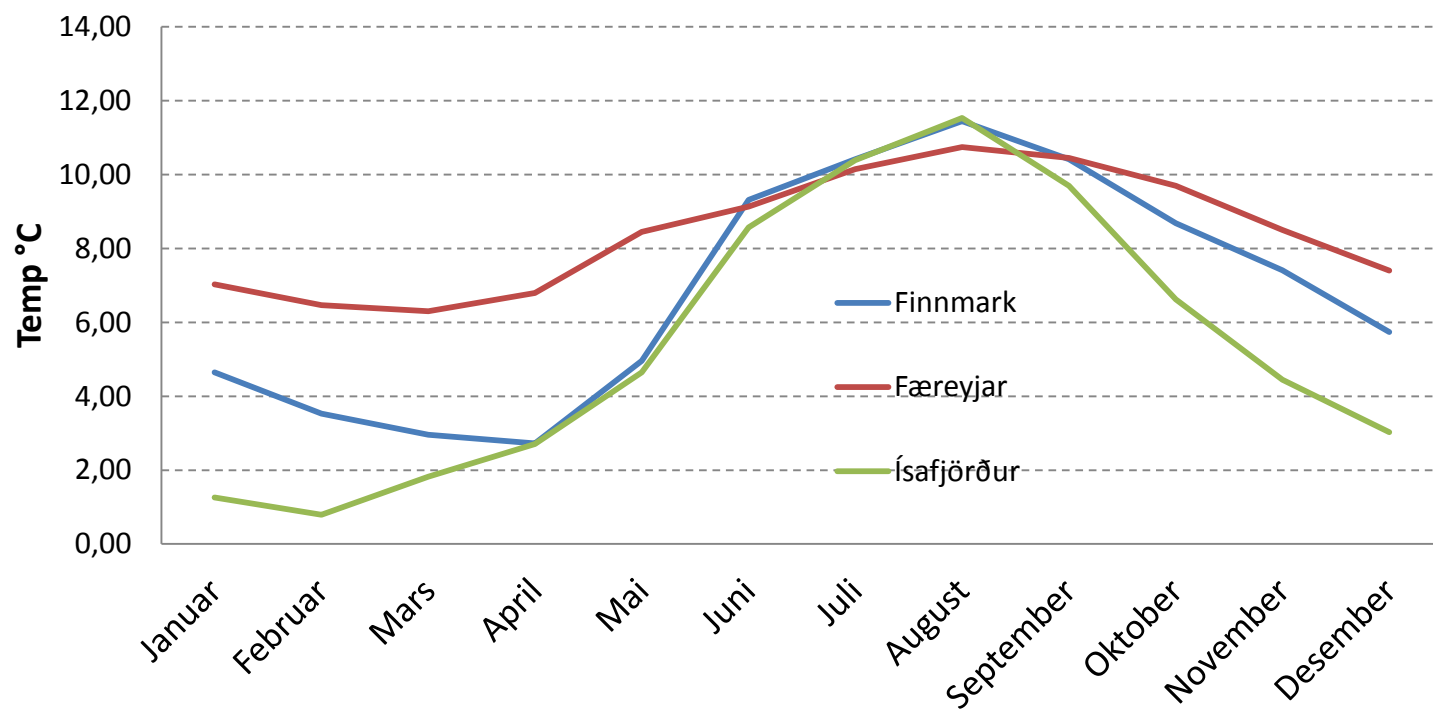
Framtid

- 2009 3,7 bkr - 21 m€
 - 2012 6,0 bkr - 36 m€
 - 2027 -30* 30 bkr - 187 m€
-
- Vi estimerer at produksjon vil auke frå 8000 tonn i dag til 40-50.000 tonn innen neste 15 år (2027-2030).
 - Det fører til en verdi på 190 m€

Hva mangler vi;

- Kunnskap
- Smoltstasjoner
- Tro på at lakseoppdrett går an (stor utlansk interesse)
- Betre veier
- Brønnbåter
- Slakterier (kan bruke tradisjonell fiskefabrikker)

Temperatur i forskjellige land

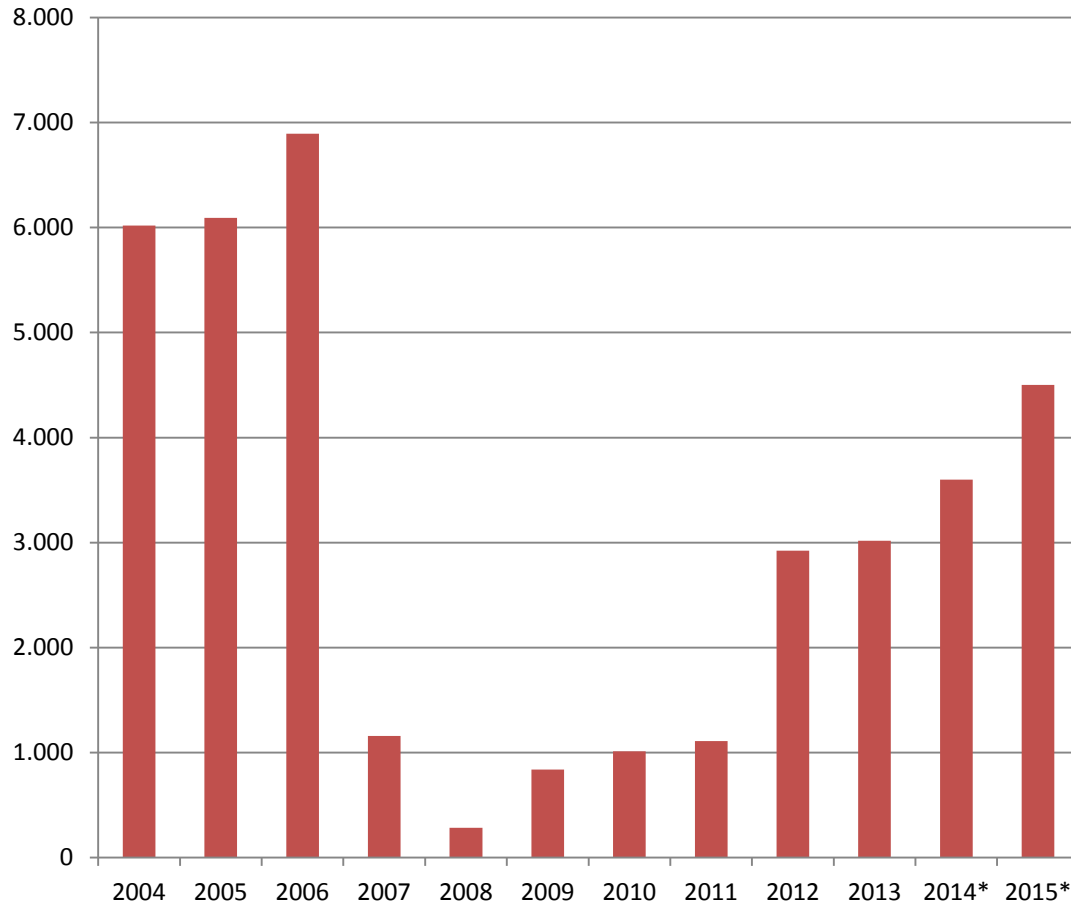


Laks i Vestfjordene – Årgang 2011

Kan lage 6 kg fisk i 15-16 måned med stor smolt

| | Talknafjordur | Arnarfjordur |
|--------------------|------------------|-----------------|
| Tal utsett (mill.) | 33928 | ? |
| Smoltvekt | 80 (juli 2013) | 300 (juni 2014) |
| Sluttvekt gram | 4330 (dec. 2014) | 2076 |
| Biologisk FCR | 0,89 | 1,08 |
| Økonomisk FCR | 0,9 | 1,09 |
| Tempertur °C | 6,2 | 8,1 |
| Fóringsdager | 549 | 221 |
| Daglig tilvekst % | 0,73 | 0,88 |
| Dødelighet % | 5,9% | 0,59 |
| Vekstfaktor TGC | 3,53 | 3,39 |

Laks



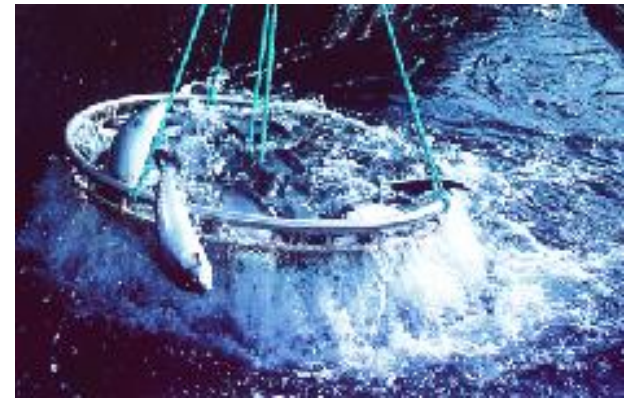
2006 6.894 tn

2008 280 tn

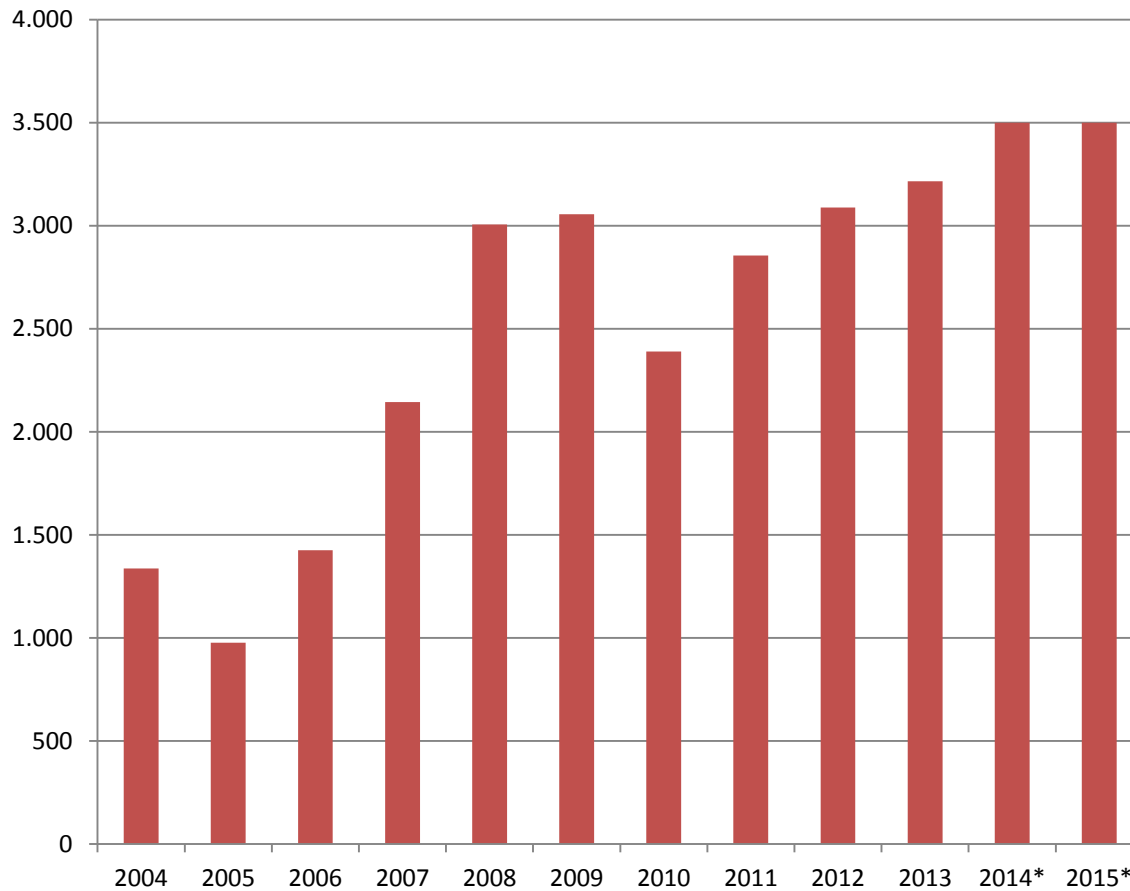
2013 3.018 tn

2015* 4.500 tn

Trend: Growing strongly



Røye



2008 3.006 tn

2010 2.390 tn

2012 3.089 tn

2013 3.215 tn

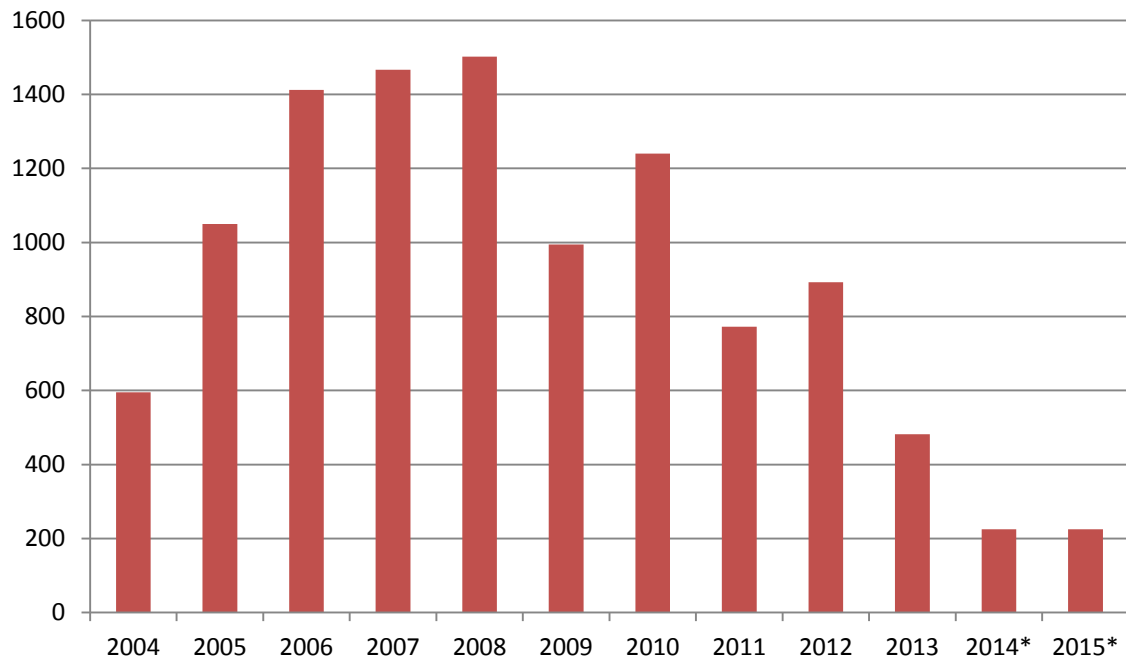
2015* 3.500 tn

Trend: Growing steadily



Torsk

Cod



- 2000 11 tn
- 2005 1.050 tn
- 2010 1.240 tn
- 2012 1.003 tn
- 2013 482 tn



Andre Arter

Rognkjeks



Pigvar



Krekling



Tilapia



Senegal flura



Stør (Styrja)



Abalone



Østers



Sea Cages

