



Double Trout Farm Production in the UK by 2020?

Opposer: Shaun Leonard

A positive start...

- + healthy & nutritious; we need to eat**
- + employs >1000**
- + £££s: £30M - £200M**
- + economic, social & environmental benefits of restocking (!!)**
- + proactive BTA & many responsible members**
- + positive Govt view**

Trout Farming: many issues...

- future supply of water**
- production challenges**
- downstream water quality & quantity**
- effects on the biota**

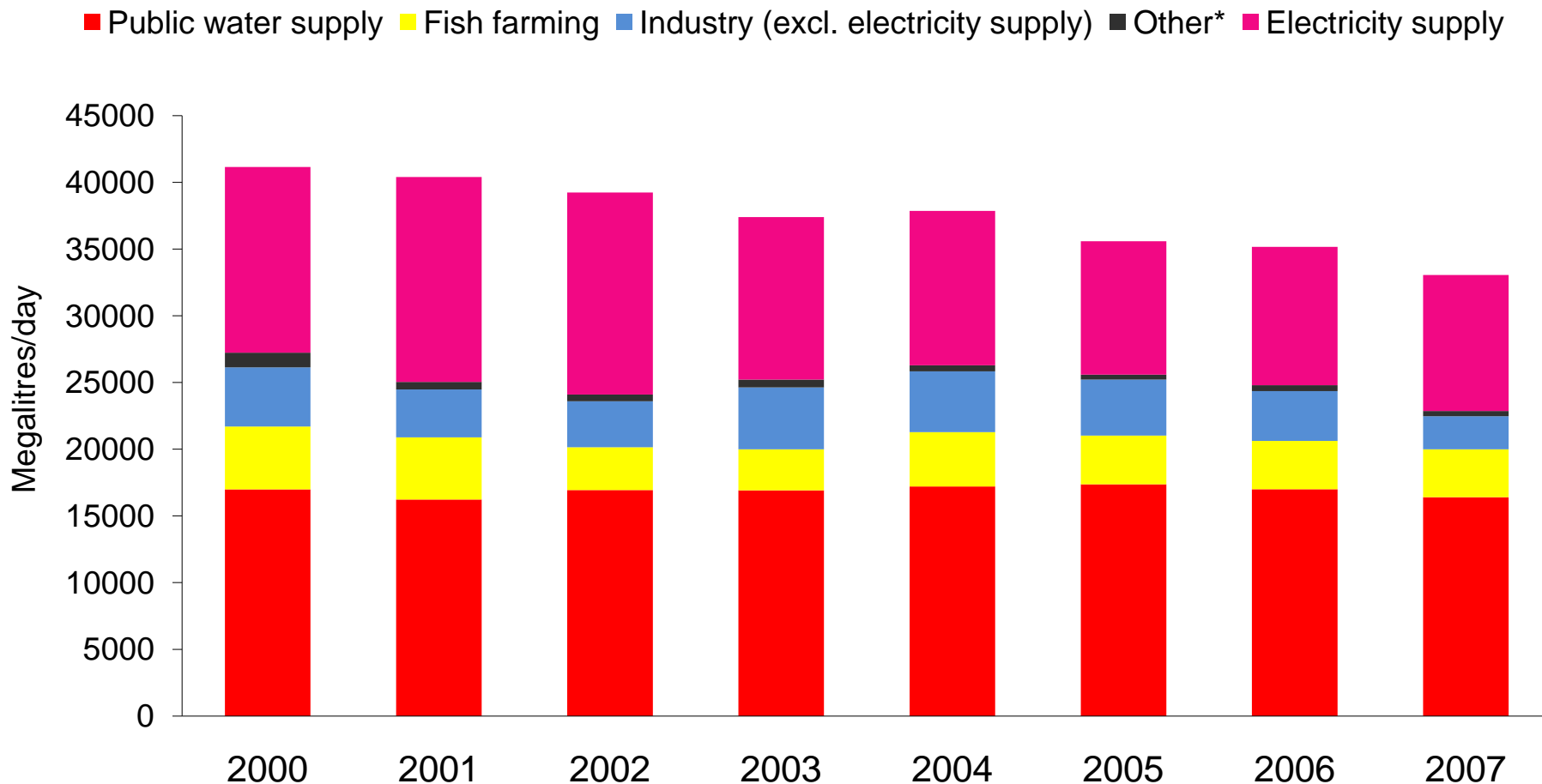
Future supply of water

> Increasing demand



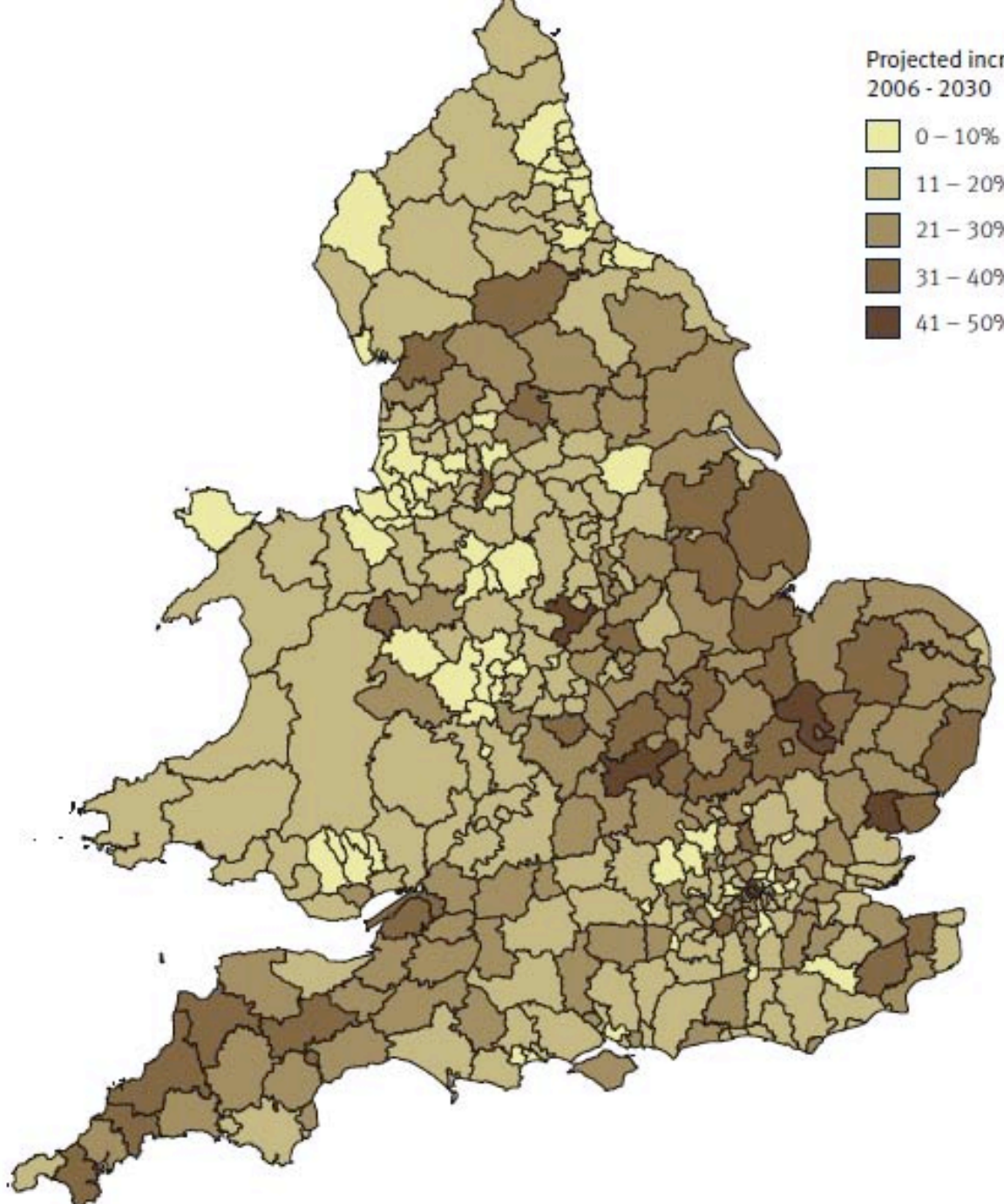
< Decreasing
availability

Estimated Abstractions from all Sources (except Tidal) by Purpose in England & Wales 2000-2007



*Other includes private water supply, spray irrigation and other agriculture, and other uses

Source: EA, Corporate Strategy Evidence, 2009



Projected increase in population
2006 - 2030

28,000 new
houses p.a. S-E?
(Tym & Partners, 2005)

Source: EA, Water Resources Strategy, 2009

Future supply of water

> Increasing demand



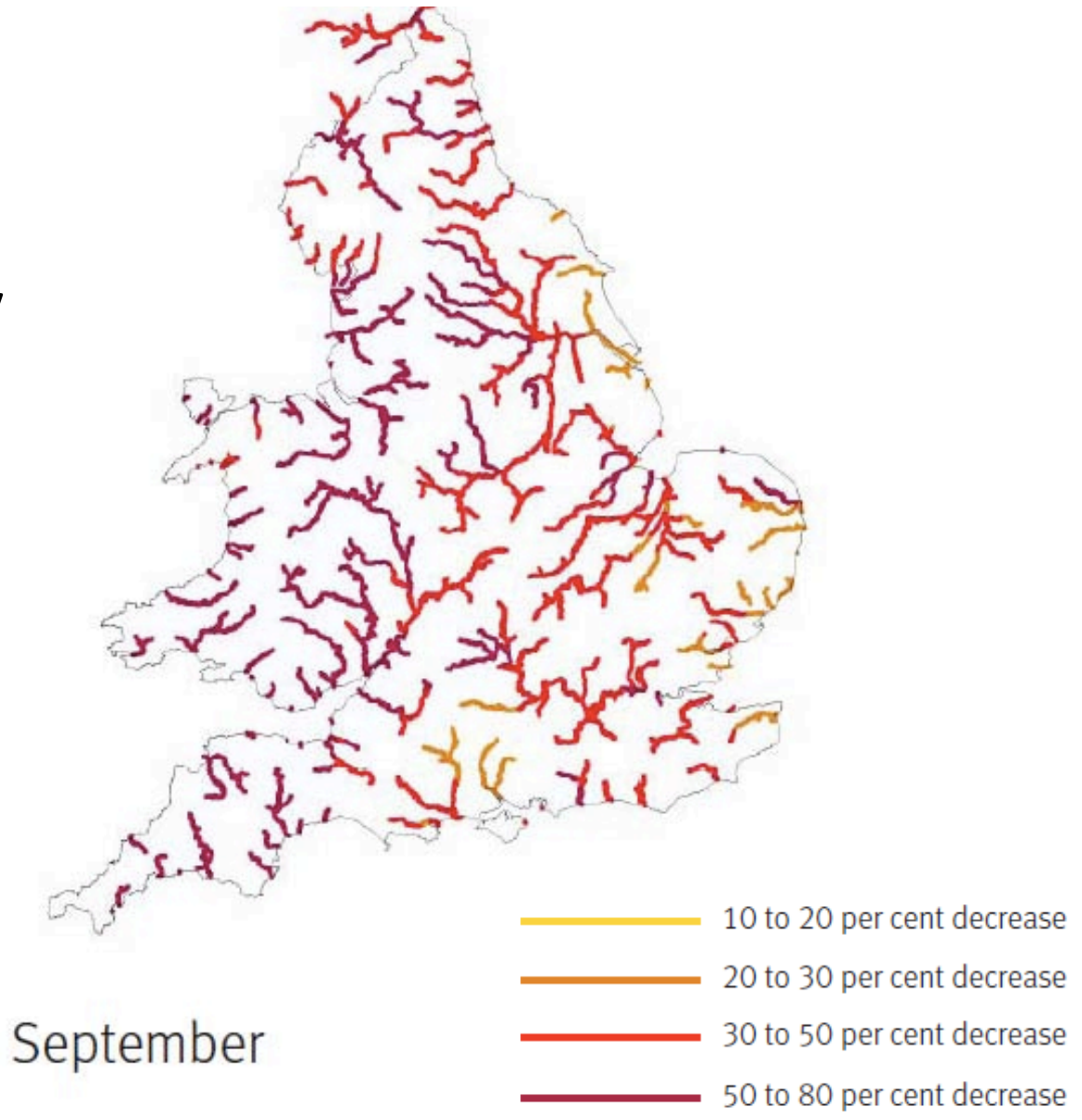
< Decreasing
availability

Percentage change in mean naturalised monthly flows by 2050

Climate change



Decreasing availability



September

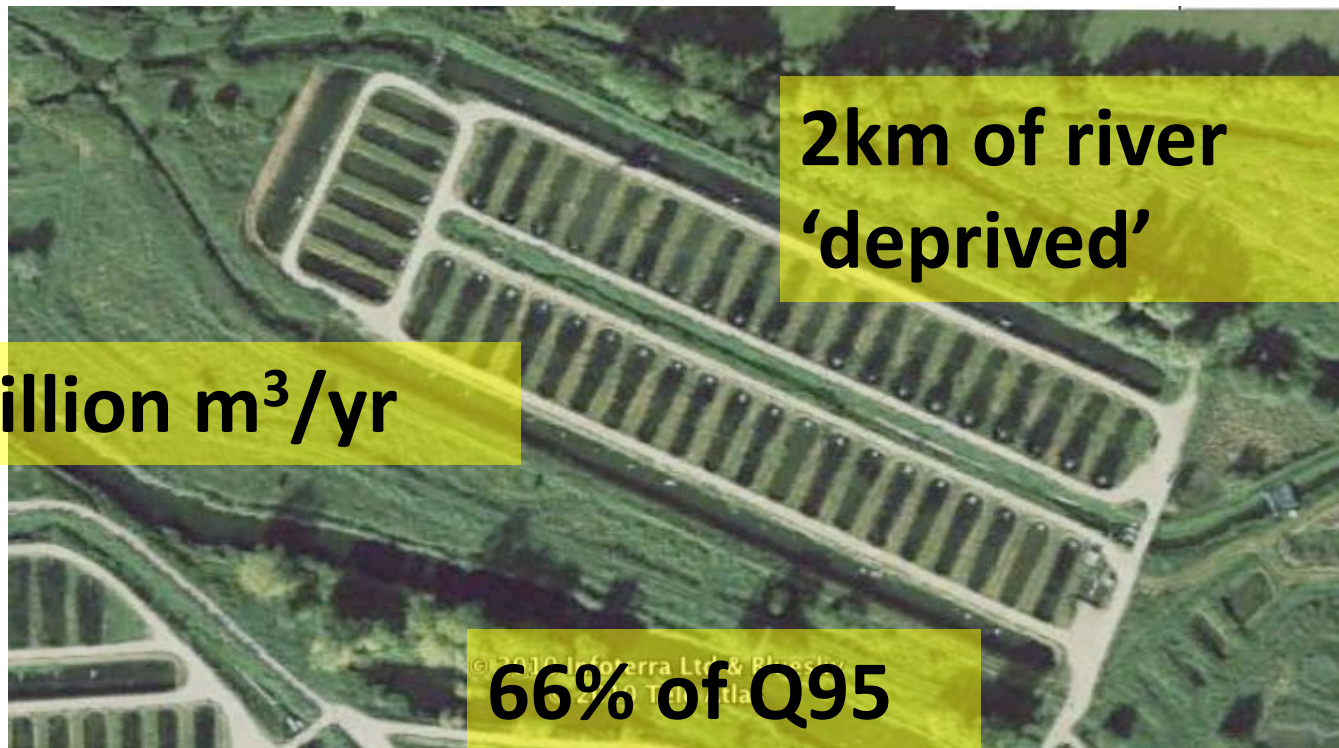
Production Challenges

- **Fishmeal/oil availability, price & acceptability**
- **Strictures of multiples**
- **Limited water reuse**



D/S Water Quality/Quantity

- ‘Localised’ measured effects
- BUT studies on contaminants, dissolved and sediment-bound - jury’s out!



Effects on the Biota

- **Invertebrates –
‘localised’ effects
BUT
e.g. Doughty &
McPhail (2008) –
effects still after
3 years**



Effects on Fish

- Disease
- Physiology
- Entrainment of juveniles
- Migration blocks
- Escapees

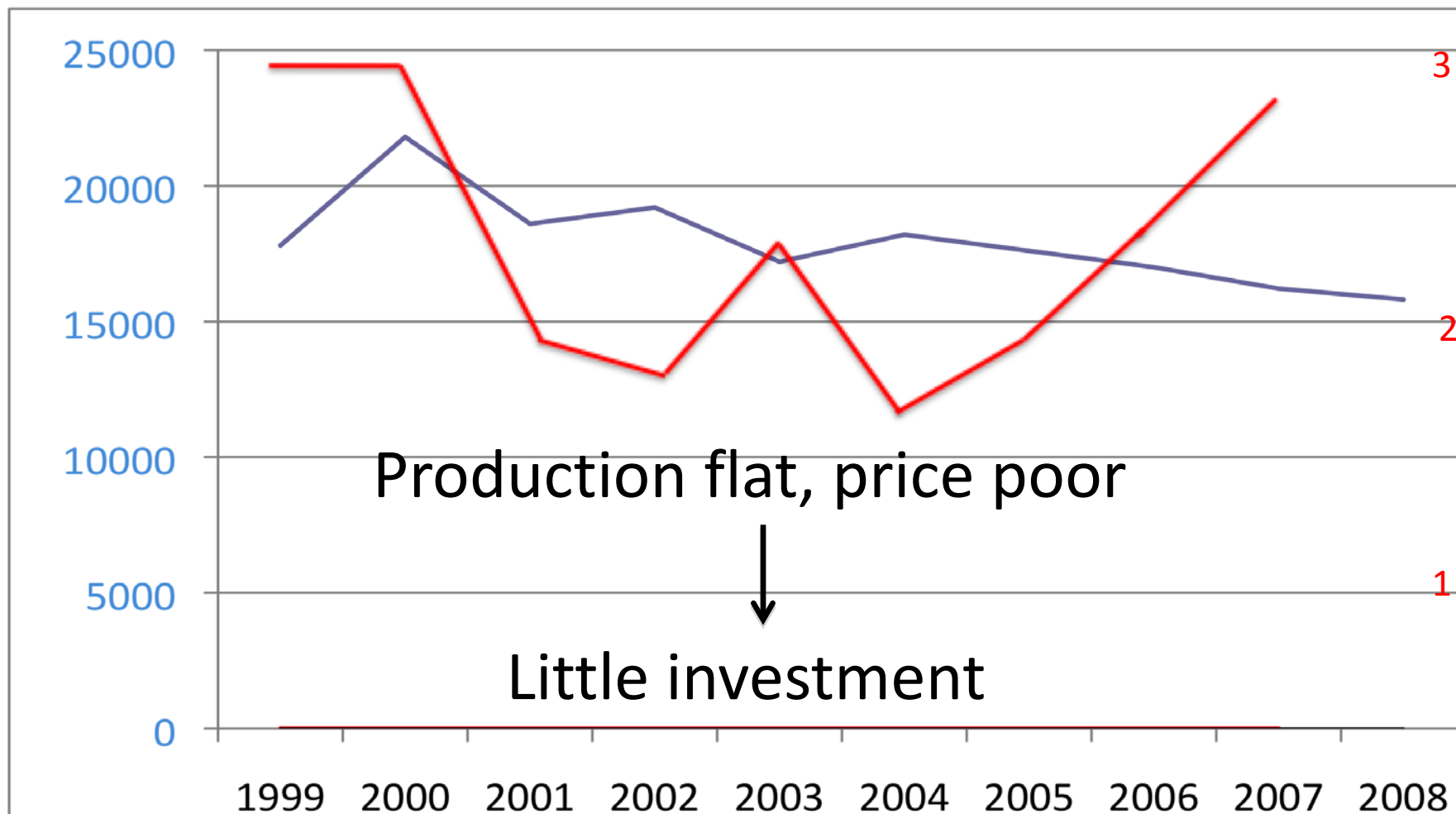


Trout Farming: many issues...

- future supply of water**
- production challenges**
- d/s water quality & quantity**
- effects on the biota...BUT...**

...the sucker punch...

Rainbow Trout Production (tonnes) and Value (euros) In the UK 1999 - 2008



In summary...

...uses much water

...detriment to environment

...no investment to develop

**TROUT FARMING CANNOT DOUBLE
PRODUCTION BY 2020**