Role of extension services to support Offshore Mussel Culture
Offshore and 400 submerged lines

Offshore double lines
Move offshore requires long term support
Too much to know- can’t do it alone!

A) Extension as a role

B) Example of Norwegian Extension project

C) Practical examples that impact on success
Competence building & Biomass monitoring project:
9 counties involved!
Biomass control & Traceability of mussels (1 to 3 yr)
Building knowledge & competence with serious growers and processors

Extension officers
Field support & sampling

Demo site - A
Demo Site - B
Demo Site - C
Demo Site - D

Growers committed to learn & do better

1-2 local processors who buy mussels from active growers in the program to improve sales relations
A) Switch over from Spanish to continuous

Spanish continuous

Increasing efficiency with scale-up to higher output
Common method for growers to harvest & grade mussels for processors

What is the performance of the Spanish declumper-grader and how do results affect the yields?
Franken Declumper-Grader machine with exchangeable sorting barrels for small spat and commercial size mussels

How does the performance of the Franken declumper-grader compare. Can results affect final yields?
Had removable sorting barrels for socking small mussel spat (15-35mm), or for grading commercial mussels (45+ mm) to send to processors.
Move to continuous socking- Had to prove it worked

**Automatic continuous:** High output, more sizes anytime

- Increasing efficiency with scale-up, least labour required
- Use more months of year, reusable, mechanized, fast
c) Practical examples that improve sock yields

Follow up quality control of socking for density at start, then 3 wks later
Historic meat yield (52-57mm) mussels, Huken, mid-Norway (2002-2006)

Regular sampling by grower shows:

a) 2-yr trend of high % meat yield

b) Years with poor market quality
Sampling socks at different depth- know what harvest!

ASK-B-01-C, Afjord, Utsett: 13-des-05  Prove: 13-nov-07 (23,3 mo.-start)

Tethet: (969/m) z=1m  SVKB EXP.high   Middel: (40,2 mm)

% frequency
556 salgbar skjell/m

Tethet: (520/m) z=3m  SVKB EXP   Middel: (45,8 mm)

% frequency
357 salgbar skjell/m

Tethet: (543/m) z=5m  SVKB EXP   Middel: (47,2 mm)

% frequency
407 salgbar skjell/m
Distribution pattern for meat mass (g) for 50-55mm socked mussels during fall’05 on MOR-B-01

Askerholmen
Rewards of extension work
Thank you

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