

The following are the comments being sent on behalf of Northeast Nutrition Inc (Cooke Aquaculture Inc) regarding the Alternative Feeds Initiative by the National Oceanic and Atmospheric Administration (NOAA):

In the assessment of alternate aquaculture feedstuffs:

- Use trout and salmon as two of the main test species as they seem to have the highest protein & fat requirements.
- Focus on the by-products from ethanol production.
 - Look at refining the processes to concentrate these protein sources and remove anti-nutritional factors to make the products more suitable for aquaculture.
 - Examine the use of glycerol in aquaculture. What processes are required to remove toxin compounds? What is the nutritional value of the resulting product. Do feeding trials to confirm.
- Examine the protein concentration processes currently in use for soyabeans, canola, and peas to see if they can be economically applied to other lower cost crops such as oats, barley, etc. The resulting concentrate may not have to be as high in protein as with soya but could still work in the formula. What is the point where the concentration process becomes too expensive?
- Develop or refine processes to remove ash from pork and beef meat meals to make these products more useable in aquaculture feeds. Examine the digestibility of the resulting products.
- Use a Mink protein digestibility test for the initial digestibility test (prior to feeding trials) for all protein products developed.
- Test the use of flaxseed or flaxseed oil in salmon & trout feeds to supply a portion of the omega 3 levels.
- Determine other sources of omega3 and test.

If there are any questions on these comments I can be reached at the following contact numbers.

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