

Overview from Bangladesh – Blue Economy Challenge Project



Partner organizations :

 Fisheries and Marine Resource Technology Discipline, Khulna University(Contact person : Shikder Saiful Islam)

Involve in indoor tank trial and a student completed submitted M.Sc thesis on this. This trial in university was led by Shikder Saiful Islam, Assistant Professor, Fisheries and Marine Resource Technology Discipline, Khulna University, Bangladesh

 Faculty of Fisheries, Bangladesh Agriculture University, Mymensingh, Bangladeh

Proximate analysis of shrimp feed has been done here.

- Daud Fish Farm, Khulna
 - The trial ponds were located here

WorldFish Team :

Kazi Ahmed Kabir

Support in coordinating, and implementing the trial program

Md. Shamim Hossain

PL stocking, Feeding, data collection & sampling

Mohammad Mamun Ur Rashid

Assist in research design, cage design, feed formulation, production, and monitoring



Trial Description

- o Location : Shahos, Dumoria, Khulna
- $\circ~$ Feed type : Pellet feed from Semi-auto feed mill and keep moisture up to 12%, through drying overnight in oven at $65^0 c$
- Stocking Density : 15 ind/m3
- Stocking size : 5 gram
- Harvesting size : 20 gram
- \circ Total Cage : 10 x 4 x 2 ponds = 80
- \circ Size of cage : 1-1.2 m³;
- $\circ~$ Cage materials : Fine mesh net with iron frame and aeration in each cage
- Feeding regime 2 times feed/day
- Total Pond replicate: 2
- Pond size : 30 decimal
- Duration of rearing juvenile: 56 days
- o Feed is administrated by feeding tray
- $\circ~$ Uneaten feed collected and dried for analysis.
- Number of treatment : 10 types of feed (including control CP)
- Number of replicate : 8
- $\circ~$ Number of ponds : treatments and replicates are distributed in 2 ponds
- Sampling : Every 15 days interval
- 24/07/25j78: 30 decimal



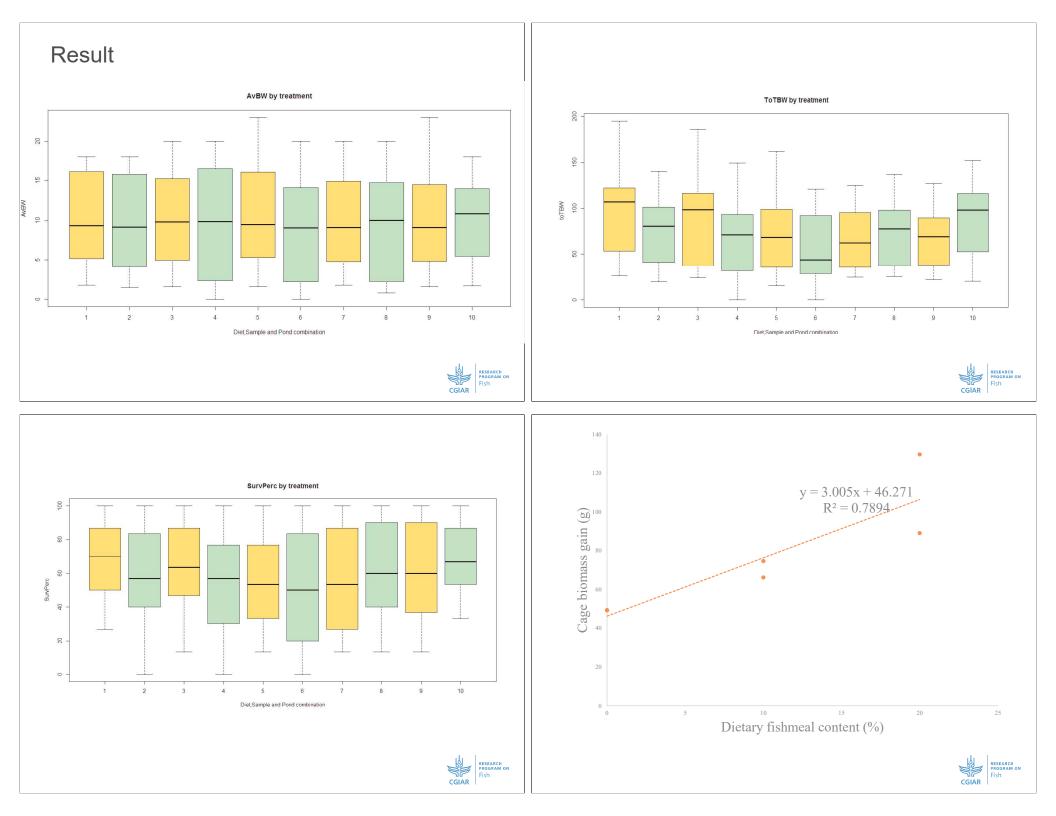
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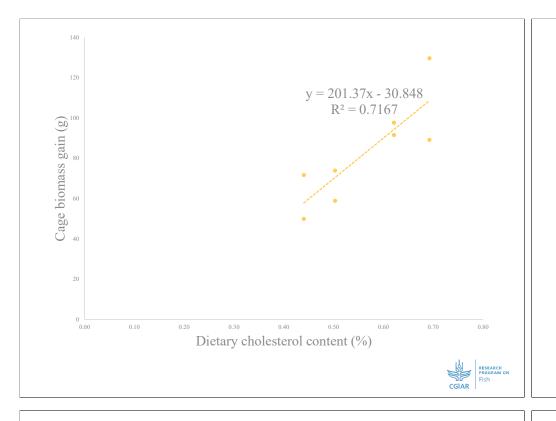
Feeds

			% of ingredient in Feed								
SI. No	Ingredients	Brand	A	В	С	D	E	F	G	Н	I
1	Fish meal		20.00%	20.00%	20.00%	10.00%	10.00%	0.00%	0.00%	20.00%	20.00%
2	MOC		17.00%	17.00%	17.00%	17.00%	17.00%	17.00%	17.00%	17.00%	17.00%
3	SBM		10.00%	10.00%	10.00%	26.00%	26.00%	42.00%	42.00%	10.00%	24.00%
4	Shrimp meal		8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%
5	DORB		10.00%	10.00%	10.00%	9.00%	9.00%	8.00%	8.00%	10.00%	10.00%
6	Fish oil		0.50%	0.50%	0.50%	1.20%	1.20%	2.30%	2.30%	0.50%	0.50%
7	Soy lecithin		1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
8	Methionine		0.00%	0.00%	0.00%	0.20%	0.20%	0.45%	0.45%	0.00%	0.00%
9	Soyabean oil		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.50%
10	Novacq		0.00%	2.50%	5.00%	5.00%	0.00%	5.00%	0.00%	0.00%	0.00%
11	Rice Polish		10.00%	10.00%	10.00%	7.00%	7.00%	0.00%	0.00%	10.00%	8.00%
12	Wheat flour		14.75%	12.25%	9.75%	6.85%	11.85%	7.50%	12.50%	14.90%	9.40%
13	Wheat Gluten		7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	0.00%
14	Vitamin premix		1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
15	Mold inhibitor		0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%
16	Pellet binder		0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%
17	Cholesterol		0.15%	0.15%	0.15%	0.15%	0.15%	0.15%	0.15%	0.00%	0.00%









Key outcome

Control feed showed better result than treated feed
Cholestrol treated feed showed better performance.



Challenges

- o Importation of Novaq in Bangladesh
- $\circ~$ Customize Feed production and collection of some ingredients
- $\circ~$ Maintenance of cages

Reflections

The local production facilities is necessary to make it accessible and economically viable



