

2021

# STURGEON

While sturgeons are best known for their exquisite caviar, their meat is also absolutely delicious. Thanks to our research, Alltech Coppens can offer you the best-quality sturgeon feed.



Sinking feed



Designed for Recirculating Aquaculture Systems (RAS)



Floating feed



Sustainable fishfeed



Semi-floating feed



With astaxanthine



Free from land animal protein



Low nitrogen and phosphorus emission



High digestibility



Improved resistance



Omega-3 fatty acids



STURGEON

**Alltech**® COPPENS

DEDICATED TO YOUR PERFORMANCE

# AQUATE™

Innovative premix in all **Alltech Coppens'** feeds.

- + Optimizes growth
- + Supports immune response
- + Optimizes digestive function
- + Contributes to mucous barrier protection
- + Contributes to external barrier protection



## BIO-MOS®

is a mannan-oligosaccharide, which is known to bind and drain opportunistic bacteria. This can result in a significant improvement of the intestinal flora. Additionally, it can improve the structure and length of the microvilli in the gut through which the nutrient intake can increase. **BIO-MOS®** contributes to mucous barrier protection.

IMPROVED  
INTESTINAL  
FUNCTION

## BIOPLEX®

is a crucial element in our new premix. **BIOPLEX®** are organically bound trace elements such as zinc, copper, manganese & iron. With **BIOPLEX®** we can improve the health, growth & performance of the fish.

IMPROVED  
PERFORMANCE

## AQUATE™

ORGANIC  
MINERALS  
TOTAL  
REPLACEMENT  
TECHNOLOGY™

## ACTIGEN®

is derived from yeast cell walls and supports the fish's immune response. **Actigen®** furthermore optimizes growth in fish.

HELPS  
MAINTAIN  
THE IMMUNE  
SYSTEM



**Alltech®** COPPENS

## Feeding table for siberian sturgeon (acipenser baerii baerii):

Fish weight (g)	Feed size (mm)	< 14 °C	14 °C	16 °C	18 °C	20 °C	22 °C	> 22 °C
10 - 50	1,5		3,50	3,76	4,04	4,35	4,67	
50 - 100	2,0		2,50	2,69	2,89	3,11	3,34	
100 - 200	3,0		1,70	1,83	1,96	2,11	2,27	
200 - 800	4,5		1,00	1,08	1,16	1,24	1,34	
800 - 1.500	4,5	According to fish's appetite	0,45	0,48	0,52	0,56	0,60	According to fish's appetite and O2 level
1.500 - 3.000	6,0		0,25	0,27	0,29	0,31	0,33	
3.000 - 5.000	6,0		0,20	0,22	0,23	0,25	0,27	
5.000 - 8.000	8,0		0,15	0,16	0,17	0,19	0,20	
8.000 - 15.000	10/12		0,15	0,16	0,17	0,19	0,20	

\*Feeding advice is expressed in % biomass/day.

\*This feedingtable is a guideline only and based on optimal conditions.

## Feeding table for Russian sturgeon ( Acipenser gueldenstaedtii ):

Fish weight (g)	Feed size (mm)	< 14 °C	14 °C	16 °C	18 °C	20 °C	22 °C	> 22 °C
10 - 30	1,5		3,50	3,76	4,04	4,35	4,67	
30 - 75	2,0		2,50	2,69	2,89	3,11	3,34	
75 - 200	3,0		1,70	1,83	1,96	2,11	2,27	
200 - 700	4,5		1,00	1,08	1,16	1,24	1,34	
700 - 1.300	4,5	According to fish's appetite	0,45	0,48	0,52	0,56	0,60	According to fish's appetite and O2 level
1.300 - 3.000	6,0		0,25	0,27	0,29	0,31	0,33	
3.000 - 5.000	6,0		0,20	0,22	0,23	0,25	0,27	
5.000 - 10.000	8,0		0,20	0,22	0,23	0,25	0,27	
10.000 - 15.000	10,0		0,15	0,16	0,17	0,19	0,20	
15.000 - 20.000	10/12		0,12	0,13	0,14	0,15	0,16	
> 20.000	10/12		0,12	0,13	0,14	0,15	0,16	

\*Feeding advice is expressed in % biomass/day.

\*This feedingtable is a guideline only and based on optimal conditions.

## Feeding table for white sturgeon ( Acipenser transmontanus ):

Fish weight (g)	Feed size (mm)	< 14 °C	14 °C	16 °C	18 °C	20 °C	22 °C	> 22 °C
10- 30	1,5		3,10	3,33	3,58	3,85	4,14	
30 - 100	2,0		2,20	2,37	2,54	2,73	2,94	
100 - 300	3,0		1,50	1,61	1,73	1,86	2,00	
300 - 800	4,5		0,90	0,97	1,04	1,12	1,20	
800 - 1.500	4,5	According to fish's appetite	0,45	0,48	0,52	0,56	0,60	According to fish's appetite and O2 level
1.500 - 3.000	6,0		0,25	0,27	0,29	0,31	0,33	
3.000 - 5.000	6,0		0,20	0,22	0,23	0,25	0,27	
5.000 - 15.000	8,0		0,20	0,22	0,23	0,25	0,27	
15.000 - 30.000	10/12		0,15	0,16	0,17	0,19	0,20	
> 30.000	10/12		0,12	0,13	0,14	0,15	0,16	

\*Feeding advice is expressed in % biomass/day.

\*This feedingtable is a guideline only and based on optimal conditions.

## Feeding table for great sturgeon (huso huso):

Fish weight (g)	Feed size (mm)	< 14 °C	14 °C	16 °C	18 °C	20 °C	22 °C	> 22 °C
10 - 30	1,5		3,94	4,23	4,55	4,89	5,26	
30 - 100	2,0		2,99	3,22	3,46	3,72	4,00	
100 - 300	3,0		2,05	2,21	2,37	2,55	2,74	
300 - 800	4,5		1,16	1,24	1,33	1,43	1,54	
800 - 1.500	4,5	According to fish's appetite	0,56	0,60	0,64	0,69	0,74	According to fish's appetite and O2 level
1.500 - 3.000	6,0		0,39	0,41	0,44	0,48	0,51	
3.000 - 5.000	6,0		0,29	0,32	0,34	0,37	0,39	
5.000 - 15.000	8/10		0,23	0,25	0,26	0,28	0,30	
15.000 - 30.000	10/12		0,16	0,18	0,19	0,20	0,22	
30.000 - 50.000	10/12		0,13	0,14	0,15	0,16	0,17	
>50.000	10/12		0,12	0,13	0,14	0,15	0,16	

\*Feeding advice is expressed in % biomass/day.

\*This feedingtable is a guideline only and based on optimal conditions.

## Feeding table for Sterlet ( Acipenser ruthenus):

Fish weight (g)	Feed size (mm)	< 14 °C	14 °C	16 °C	18 °C	20 °C	22 °C	> 22 °C
10 - 50	1,5		3,29	3,54	3,81	4,09	4,40	
50 - 100	2,0		2,20	2,36	2,54	2,73	2,93	
100 - 200	3,0		1,46	1,57	1,69	1,82	1,96	
200 - 800	4,5		0,84	0,91	0,97	1,05	1,12	
800 - 1.500	4,5	According to fish's appetite	0,40	0,43	0,46	0,49	0,53	According to fish's appetite and O2 level
1.500 - 3.000	6,0		0,21	0,22	0,24	0,26	0,28	
3.000 - 5.000	6,0		0,18	0,19	0,21	0,22	0,24	
5.000 - 8.000	8,0		0,13	0,13	0,14	0,16	0,17	
> 8.000	10/12		0,13	0,13	0,14	0,16	0,17	

\*Feeding advice is expressed in % biomass/day.

\*This feedingtable is a guideline only and based on optimal conditions.

- Medium-high energy starter diet
- High survival
- High performance
- All farming methods



### COMPOSITION:

Analyses (%)		Sizes
Protein	56	0.2-0.3 mm
Fat	15	0.3-0.5 mm
Crude fibre	0.2	0.5-0.8 mm
Ash	13.0	0.8-1.2 mm
Total P	1.89	

### Vitamins added

Vitamin A (IE/kg)	14000
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### Energy (MJ/kg)

Gross Energy	20.8
Digestible Energy	18.3

### FEEDING TABLE FOR LOW FEED CONVERSION RATIO (FCR):

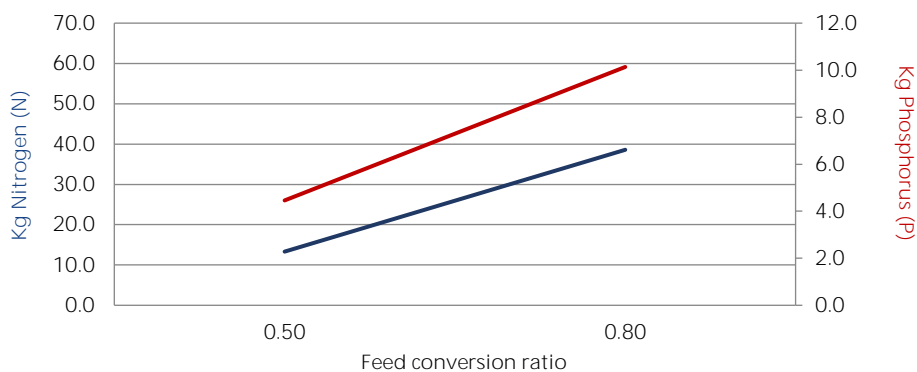
Fish weight (g)	Feed size (mm)	< 10 °C	10-12 °C	12-14 °C	14-16 °C	16-18 °C	18-20 °C	20-22 °C	22-24 °C	> 24 °C
< 0,2	0.2-0.3		3,6-4,4	4,4-4,9	4,9-5,6	5,6-6,7	6,7-7,7	7,7-8,7	7,5-8,5	
0,2-0,5	0.3-0.5	According to fish's appetite	3.3	4.1	4.5	5.2	6.2	7.1	6.7	According to fish's appetite and O2 level
0,5-1,5	0.5-0.8		2.6	3.1	3.5	4.3	5.2	6.2	5.9	
1,5-5,0	0.8-1.2		1.8	2.3	2.8	3.3	3.6	4.2	4.0	

\* The feeding advice is expressed in % biomass/day.

\* This feeding table is a guideline only and based on optimal conditions.

### ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.

- High quality low fat diet
- Very good caviar quality
- All sturgeon species
- For caviar production



### COMPOSITION:

#### Analyses (%)

Protein	50
Fat	12
Crude fibre	1.0
Ash	9.5
Total P	1.58

#### Sizes

8.0 mm
12.0 mm

#### Vitamins added

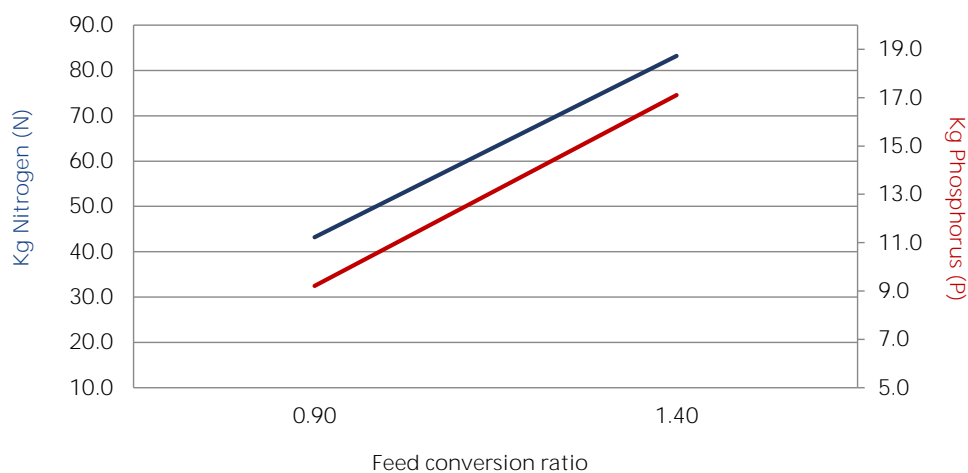
Vitamin A (IE/kg)	10000
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#### Energy (MJ/kg)

Gross Energy	21.0
Digestible Energy	18.3

### ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.

- High level of  $\Omega$ -3 fatty acids (fish oil only)



### COMPOSITION:

Analyses (%)	4.5 mm	6.0 mm
Protein	47	47
Fat	16	16
Crude fibre	1.7	1.7
Ash	7.7	8.4
Total P	0.97	1.10

#### Vitamins added

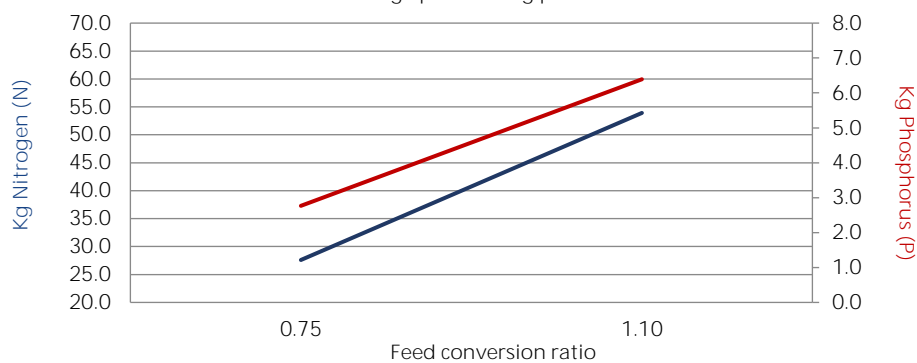
Vitamin A (IE/kg)	15000	15000
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#### Energy (MJ/kg)

Gross Energy	21.3	21.2
Digestible Energy	18.0	18.3

### ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.

- Semi-intensive farming
- Good performance
- Medium energy diet



### COMPOSITION:

Analyses (%)		Sizes
Protein	40	2.0 mm
Fat	10	
Crude fibre	1.1	
Ash	6.5	
Total P	1.14	

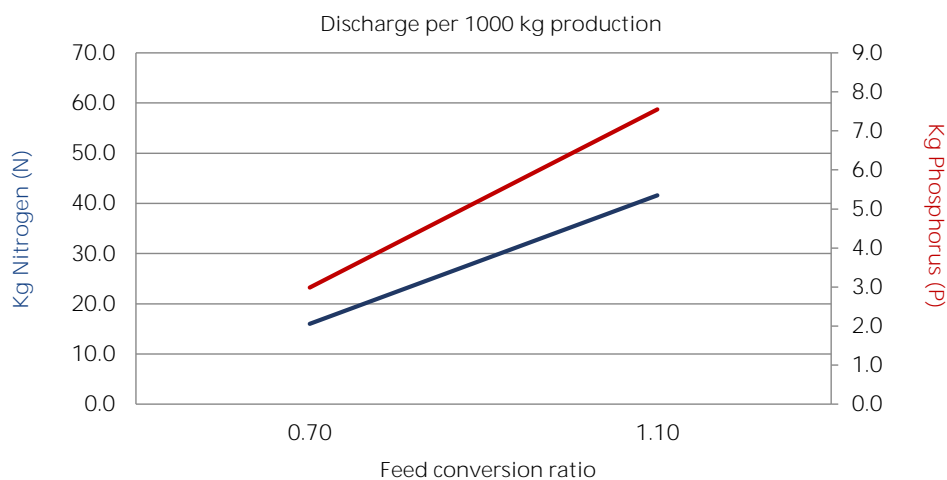
### Vitamins added

Vitamin A (IE/kg)	12000
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### Energy (MJ/kg)

Gross Energy	19.7
Digestible Energy	16.2

### ECOLOGICAL FIGURES:



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.



- Semi-intensive farming
- Good performance
- Medium energy diet



### COMPOSITION:

Analyses (%)		Sizes
Protein	40	3.0 mm
Fat	10	4.5 mm
Crude fibre	1.7	6.0 mm
Ash	6.9	9.0 mm
Total P	1.18	

### Vitamins added

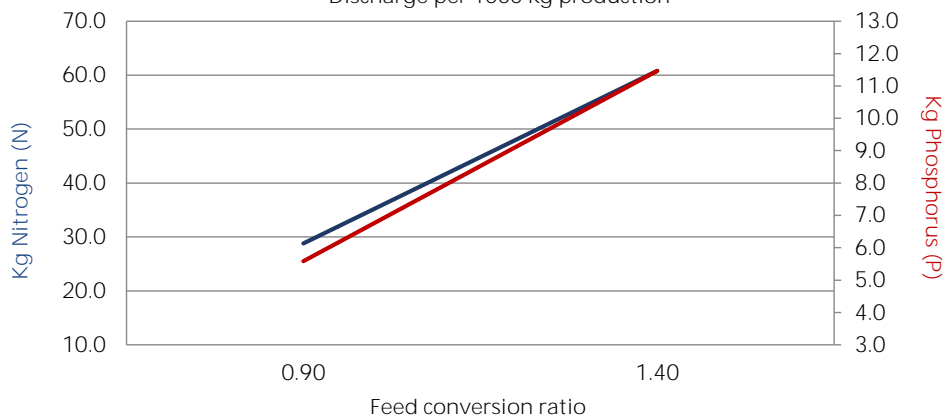
Vitamin A (IE/kg)	10000
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### Energy (MJ/kg)

Gross Energy	19.6
Digestible Energy	16.3

### ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.

- Semi-intensive farming
- Good performance



### COMPOSITION:

Analyses (%)		Sizes
Protein	45	2.0 mm
Fat	18	
Crude fibre	1.7	
Ash	8.5	
Total P	1.39	

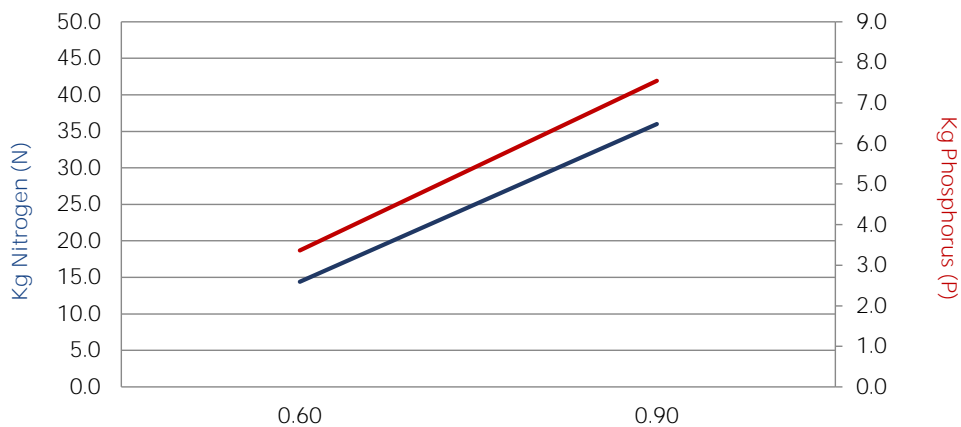
Vitamins added	
Vitamin A (IE/kg)	11000

Energy (MJ/kg)	
Gross Energy	21.2
Digestible Energy	18.7

### ECOLOGICAL FIGURES:

Discharge per 1000 kg production



Feed conversion ratio

The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.

- Good condition of brood stock
- Optimal egg development
- High egg quality and fry survival



### COMPOSITION:

#### Analyses (%)

Protein	48	Sizes
Fat	15	6.0 mm
Crude fibre	1.2	9.0 mm
Ash	9.1	
Total P	1.43	
Astaxanthin (mg/kg)	40	

#### Vitamins added

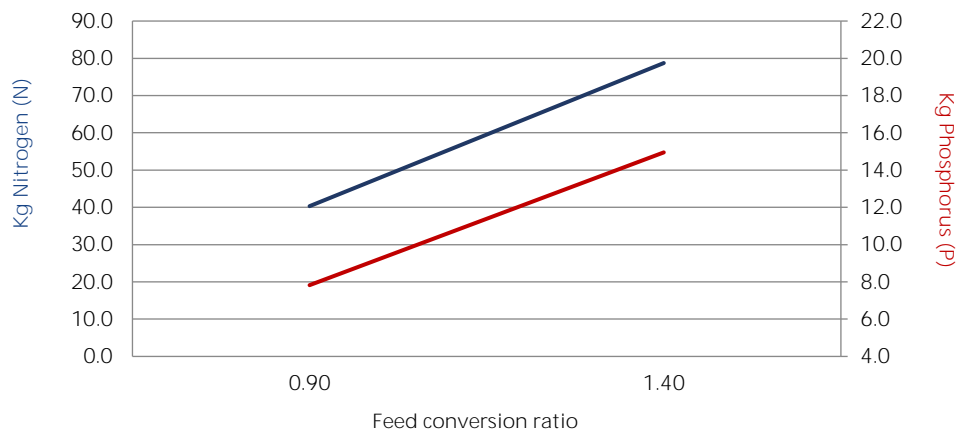
Vitamin A (IE/kg)	10000
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#### Energy (MJ/kg)

Gross Energy	20.2
Digestible Energy	18.0

### ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.

- High protein diet
- High performance
- All farming methods



### COMPOSITION:

#### Analyses (%)

Analyses (%)		Sizes
Protein	54	2.0 mm
Fat	15	
Crude fibre	1.2	
Ash	8.8	
Total P	1.20	

#### Vitamins added

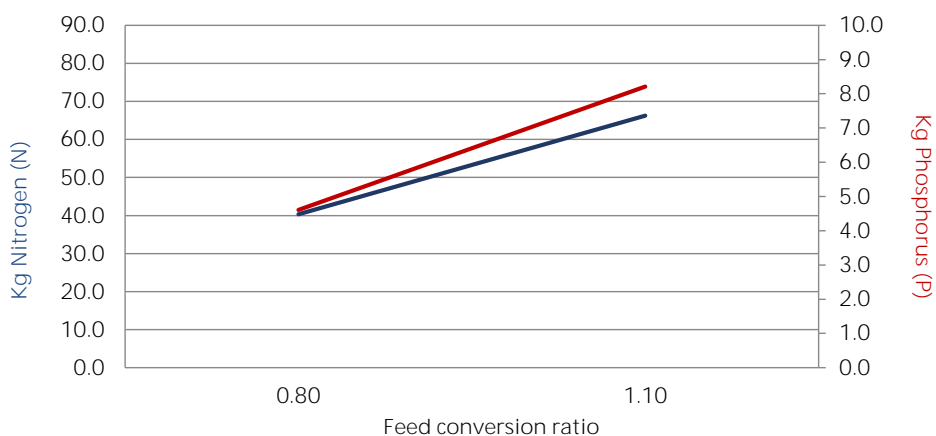
Vitamin A (IE/kg)	11000
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#### Energy (MJ/kg)

Gross Energy	21.4
Digestible Energy	18.9

### ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.

- Medium energy mini pellet
- All farming methods
- High performance



### COMPOSITION:

Analyses (%)		Sizes
Protein	54	1.0 mm
Fat	15	1.5 mm
Crude fibre	0.1	
Ash	10.4	
Total P	1.59	

### Vitamins added

Vitamin A (IE/kg)	12000
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### Energy (MJ/kg)

Gross Energy	21.1
Digestible Energy	19.1

### FEEDING TABLE FOR LOW FEED CONVERSION RATIO (FCR):

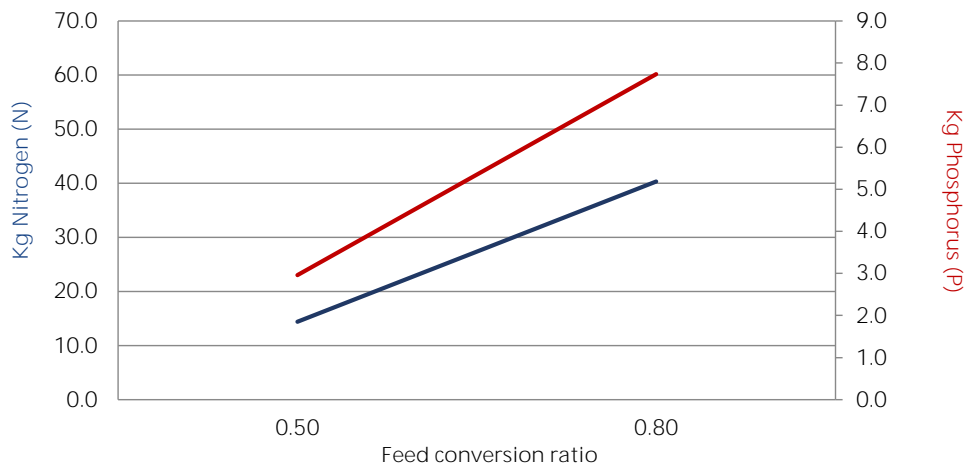
Fish weight (g)	Feed size (mm)	< 6 °C	10-12°C	12-14°C	14-16°C	16-18°C	18-20°C	20-22°C	22-24°C	> 24 °C
1,5-5,0	1.0	According to fish's appetite	1.8	2.3	2.8	3.3	3.6	4.2	4.0	According to fish's appetite and O2 level
5,0-10	1.0/1.5		1.4	1.9	2.4	2.9	3.3	3.8	3.6	

\* The feeding advice is expressed in % biomass/day.

\* This feeding table is a guideline only and based on optimal conditions.

### ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.

- High quality low fat diet
- Lean growth
- For all sturgeon species



### COMPOSITION:

#### Analyses (%)

Analyses (%)		Sizes
Protein	49	3.0 mm
Fat	10	4.5 mm
Crude fibre	1.5	6.0 mm
Ash	7.6	9.0 mm
Total P	1.25	

#### Vitamins added

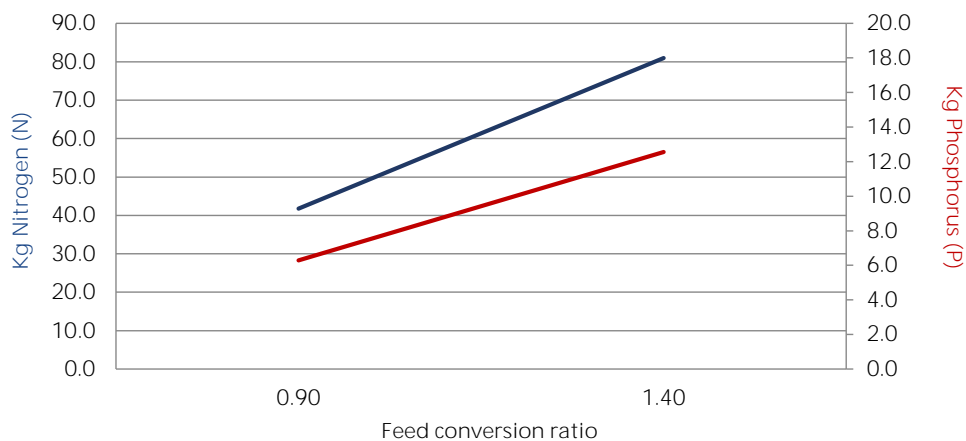
Vitamin A (IE/kg)	10000
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#### Energy (MJ/kg)

Gross Energy	20.6
Digestible Energy	17.6

### ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.

- Medium energy diet
- High performance
- For all sturgeon species



### COMPOSITION:

#### Analyses (%)

		Sizes
Protein	46	3.0 mm
Fat	15	4.5 mm
Crude fibre	1.5	6.0 mm
Ash	5.5	9.0 mm
Total P	0.87	

#### Vitamins added

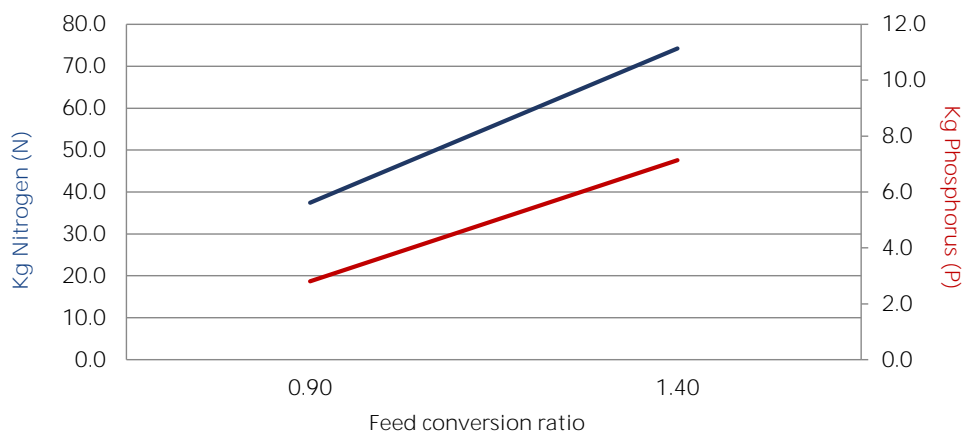
Vitamin A (IE/kg)	10000
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#### Energy (MJ/kg)

Gross Energy	21.2
Digestible Energy	18.1

### ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.

- Medium-high energy diet
- Designed for semi-intensive farming
- Good performance
- High flesh quality



### COMPOSITION:

Analyses (%)		Sizes
Protein	39 - 41	3.0 mm
Fat	19 - 22	4.5 mm
Crude fibre	1,5 - 2,5	6.0 mm
Ash	4 - 7	
Total P	0.77	

### Vitamins added

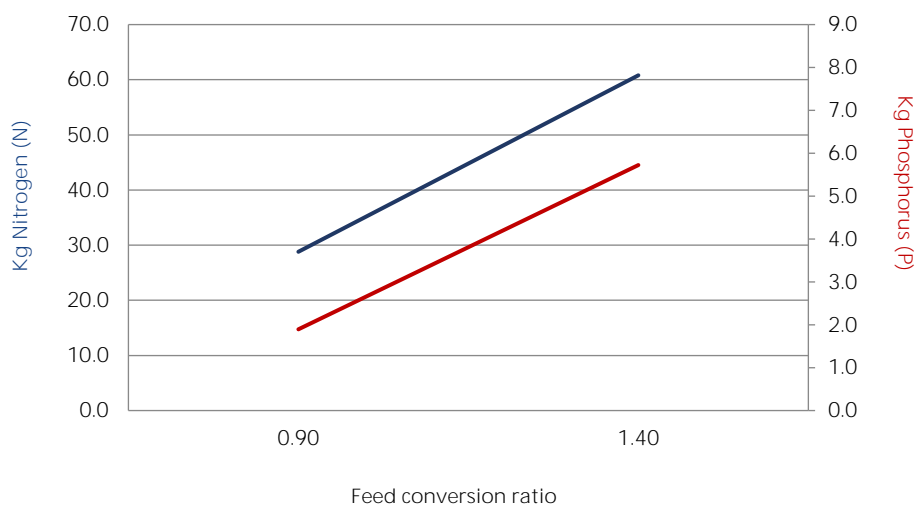
Vitamin A (IE/kg)	8936
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### Energy (MJ/kg)

Gross Energy	21,2 - 23,2
Digestible Energy	18,8 - 19,2
Net Energy	14.2

### ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.



- High energy diet
- Fast growth and low FCR
- Predominantly for meat production



### COMPOSITION:

#### Analyses (%)

		Sizes
Protein	43 - 45	3.0 mm
Fat	20 - 23	4.5 mm
Crude fibre	1,5 - 2,5	6.0 mm
Ash	4 - 8	
Total P	0.88	

#### Vitamins added

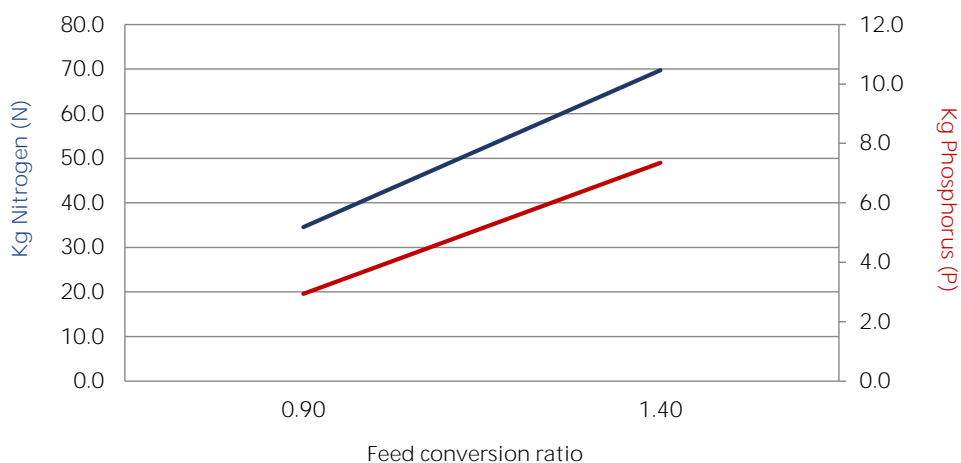
Vitamin A (IE/kg)	9138
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#### Energy (MJ/kg)

Gross Energy	21,4 - 23,4
Digestible Energy	19,2 - 19,5
Net Energy	14.4

### ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.

- Low energy starter diet
- Semi-intensive farming
- High survival

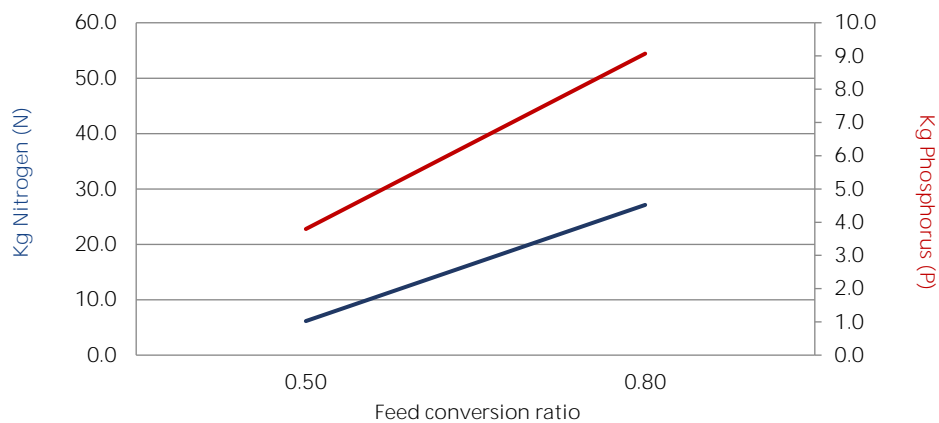


## COMPOSITION:

	0.2-0.5 mm	0.5-1.2 mm	1.2-2.2 mm
<b>Analyses (%)</b>			
Protein	47	46	46
Fat	9	10	10
Crude fibre	1.0	1.0	1.0
Ash	10.5	10.3	10.3
Total P	1.78	1.76	1.76
<b>Vitamins added</b>			
Vitamin A (IE/kg)	14000	14000	14000
<b>Energy (MJ/kg)</b>			
Gross Energy	19.3	19.5	19.5
Digestible Energy	16.5	16.7	16.7

## ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.