



MEZINÁRODNÍ TESTOVÁNÍ DRŮBEŽE ÚSTRAŠICE

státní podnik

390 02 Tábor 2

Česká republika

Final report

PEKIN – TEST no. 179

2025

XXXXXX

17 March – 2 June 2025

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Ústrašice, July 2025

Basic tests information

The basic dates

Beginning of the test: 16 February 2025 (put into the incubator)
17 March 2025 (day old ducklings)

End of the test: 28 April 2025 – 42 days of age
5 May 2025 – 49 days of age
2 June 2025 – 77 days of age (group 4)

Location

Mezinárodní testování drůbeže, s.p. Ústrašice – Testační stanice vodní drůbeže (Test station of water fowl).

Material and methods

Material

280 ducklings in group 1, 420 ducklings in groups 2, 3, 4 – divided in 4 (group 1) or 6 pens (groups 2, 3, 4) – 2 or 3 or 4 pens by 70 males and 2 or 3 pens by 70 females. Total there were 1540 ducklings.

Origin of hatching eggs:

Sample	Cross	Breeding organization	State
1	xxxxxx	xxxxxx	xxxxxx
2	xxxxxx	xxxxxx	xxxxxx
3	xxxxxx	xxxxxx	xxxxxx
4	xxxxxx	xxxxxx	xxxxxx

Housing system

Ducklings were housed in deep litter rearing. Drinking water was supplied ad libitum by automatic nipple drinkers. Each pen was equipped with manually filled tube feeders.

Lighting program

Day 1 – 7	23 hours of light
Day 8 – 67	18 hours of light
Day 68 – 77	23 hours of light

Stocking density

Day 1 – 77	7.3 birds/m ²
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Feeding

Feed was produced in xxxxx

Day 1 – 21 Starter „VKCH 1“

Day 22 – 77 Grower „VKCH 2“

The diets were calculated following Czech feeding recommendations.

Formulas of the feed

Components (%)	VKCH 1	VKCH 2
Maize	10.00	8.00
Wheat	43.755	51.005
Extr. soybean meal	23.20	24.00
Triticale	8.00	5.40
Wheat flour	-	4.00
Soybean oil	0.30	1.50
Extr. soybeans	10.00	-
Animal fat	-	2.29
Fish meal	0.50	-
DL-methionine	0.33	0.34
L-lysine HCl	0.23	0.34
L-threonine	0.14	0.18
Limestone	1.42	1.29
MCP-monocalciumphosphate	1.40	0.90
Soda bicarbona	0.15	0.15
NaCl	0.28	0.29
Lysoforte	0.035	0.035
Blendy MKC-1	0.06	0.06
Blendy VKC-3	0.04	0.04
Blendy VKC-4	0.03	0.03
Cholin chlorid	0.10	0.10
Premix	0.03	0.05
Nutrients (calculated values):		
CP (g/kg)	209.862	190.630
ME (MJ/kg)	12.392	13.305
Lysine (g/kg)	12.579	11.748
Methionine (g/kg)	6.338	6.083
Threonine (g/kg)	8.873	8.328
Ca (g/kg)	10.351	9.501
P (g/kg)	8.501	7.798
Na (g/kg)	1.702	1.701

Veterinary precautions

The house were disinfected by xxxxx before the duck placement. There was used the wet disinfection and the gaseous disinfection.

Parameters recorded and Methods applied

Live weight

Live weight was measured on day 1 (all the birds in each pen were weighed altogether). On days 21, 28 and 35 (all the birds were weighed individually, without fasting) and 42 and 49 (group 1, 2 and 3, all the birds were weighed individually after 12 hours of fasting) and 56, 63, 70 and 77 (only group 4, all the birds were weighed individually after 12 hours of fasting).

Weight gain and average daily weight gain

Weight gains were calculated for the periods 1-21 days, 22-28 days, 29-35 days, 36-42 days, 43-49 days, 50-56 days, 57-63 days, 64-70 days, 71-77 days and for the overall experiment.

Feed conversion ratio

Feed consumption per 1 kg of live weight was recorded per pen on days 21, 28, 35, 42, 49, 56, 63, 70 and 77.

Feed consumption

Feed consumption was calculated for the periods 1-21 days, 22-28 days, 29-35 days, 36-42 days, 43-49 days, 50-56 days, 57-63 days, 64-70 days, 71-77 days and for the overall experiment.

Mortality

All pens were checked twice a day to see if there were any dead or ill birds. Dead chickens were registered by date and reason of mortality on the day of death.

Carcass analysis

The carcass analysis was done at 42 and 49 days (group 1, 2 and 3) and at 56, 63, 70 and 77 days (group 4). The breast muscles were weighed with skin and thigh muscles were weighed with skin.

Scheme of carcass analysis

Day of carcass analysis	Samples no.	Pen no.	Ducks per pen	Total ducks per treatment	Total ducks per day
42	1	13 (♂)	70	140	420
		9 (♀)	70		
	2	20 (♂)	70	140	
		17 (♀)	70		
	3	21 (♂)	70	140	
		18 (♀)	70		
49	1	5 (♂)	70	140	420
		1 (♀)	70		
	2	14 (♂)	70	140	
		10 (♀)	70		
	3	15 (♂)	70	140	
		11 (♀)	70		
56	4	8 (♂)	70	140	140
		4 (♀)	70		
63	4	19 (♂)	70	70	70
70	4	16 (♂)	70	140	140
		12 (♀)	70		
56	4	22 (♂)	70	70	70

Statistical analyses

Performance results of live weight (on days 35, 42 and 49) and results of carcass analysis (on days 42 and 49) were statistically evaluated using the ANOVA model (Scheffe test) or Kruskal-Wallis test (nonparametric method).

Results

Tab. No.	1 Hatching results
	2 Performance results:
	2a Body weight
	2b Weight gain
	2c Feed conversion ratio
	2d Feed consumption
	3 Results of carcass analysis
	4 Mortality
	5 Statistical analysis
	6 Statistical analyses of performance results – live weight
	7 Statistical analyses – carcass analysis at 42 days
	8 Statistical analyses – carcass analysis at 49 days
	9 Performance results per pen:
	9a Body weight
	9b Weight gain
	9c Feed conversion ratio
	9d Feed consumption

Hatching results**Tab. No. 1**

Sample	Sam. No.	Fertility	Hatchability		Birds housed		Average weight		
			Set eggs	Fertilized eggs	Males	Females	Hatching eggs	Day old males	Day old females
		%	%	%	number	number	g	g	g
xxxxx	1	83.38	47.00	56.37	140	140	97.20	55.43	54.86
xxxxx	2	94.25	71.88	76.26	210	210	92.40	50.95	49.81
xxxxx	3	69.38	53.75	77.48	210	210	84.30	47.71	47.43
xxxxx	4	89.63	60.19	67.15	280	140	89.00	43.14	42.14

Performance results

Body weight per phases

Tab. No. 2a

Sample	Sam. No.	Day 1		Day 21		Day 28		Day 35		Day 42		Day 49	
		Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight
			g		g		g		g		g		g
xxxxxx	1	280	55.14	280	1579.60	279	2408.57	279	3425.35	279	3628.01	138	3780.84
xxxxxx	2	420	50.38	419	1445.13	415	2227.48	412	3210.72	411	3455.69	274	3819.26
xxxxxx	3	420	47.57	420	1465.39	419	2299.59	419	3286.29	417	3509.90	278	3882.73
xxxxxx	4	420	42.81	420	1322.04	420	2018.26	420	2776.56	416	3003.48	415	3457.32

Sample	Sam. No.	Day 56		Day 63		Day 70		Day 77	
		Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight
			g		g		g		g
xxxxxx	4	413	3813.08	273	3927.80	205	4078.96	67	3991.06

Body weight per phases

Sample	Sam. No.	Sex	Day 1		Day 21		Day 28		Day 35		Day 42		Day 49	
			Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight
				g		g		g		g		g		g
xxxxxx	1	♂	140	55.43	140	1620.64	139	2461.27	139	3537.34	139	3774.01	68	3925.28
		♀	140	54.86	140	1538.57	140	2356.24	140	3314.16	140	3483.06	70	3640.53
xxxxxx	2	♂	210	50.95	209	1483.88	206	2269.44	205	3332.08	206	3585.38	139	3995.12
		♀	210	49.81	210	1406.58	209	2186.12	207	3090.54	205	3325.38	135	3638.19
xxxxxx	3	♂	210	47.71	210	1488.40	209	2305.16	209	3346.88	208	3600.18	139	4001.03
		♀	210	47.43	210	1442.37	210	2294.04	210	3226.00	209	3420.06	139	3764.44
xxxxxx	4	♂	280	43.14	280	1356.30	280	2055.64	280	2800.59	277	3040.88	277	3517.48
		♀	140	42.14	140	1253.51	140	1943.51	140	2728.51	139	2928.95	138	3336.54

Sample	Sam. No.	Sex	Day 56		Day 63		Day 70		Day 77	
			Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight
				g		g		g		g
xxxxxx	4	♂	276	3840.48	205	3984.37	137	4136.92	67	3991.06
		♀	137	3757.88	68	3757.26	68	3962.19	-	-

Weight gain per phases
Tab. No. 2b

Sample	Sam. No.	Day 1 - 21		Day 22 - 28		Day 29 - 35		Day 36 - 42		Day 43 - 49	
		Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain	Weight gain per phase	Weight gain per phase	Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain
		g	g	g	g	g	g	g	g	g	g
xxxxxx	1	1524.46	72.59	828.96	118.42	1016.78	145.25	202.66	28.95	152.83	21.83
xxxxxx	2	1394.75	66.42	782.34	111.76	983.24	140.46	244.97	35.00	363.57	51.94
xxxxxx	3	1417.81	67.51	834.20	119.17	986.71	140.96	223.61	31.94	372.83	53.26
xxxxxx	4	1279.23	60.92	696.22	99.46	758.30	108.33	226.92	32.42	453.84	64.83

Sample	Sam. No.	Day 50 - 56		Day 57 - 63		Day 64 - 70		Day 71 - 77		Total	
		Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain	Weight gain per phase	Weight gain per phase	Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain
		g	g	g	g	g	g	g	g	g	g
xxxxxx	1	-	-	-	-	-	-	-	-	3725.70	76.03
xxxxxx	2	-	-	-	-	-	-	-	-	3768.88	76.92
xxxxxx	3	-	-	-	-	-	-	-	-	3835.16	78.27
xxxxxx	4	355.76	50.82	114.72	16.39	151.16	21.59	-87.90	-12.56	3948.25	51.28

Weight gain per phases

Sample	Sam. No.	Sex	Day 1 - 21		Day 22 - 28		Day 29 - 35		Day 36 - 42		Day 43 - 49	
			Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain
			g	g	g	g	g	g	g	g	g	g
xxxxxx	1	♂	1565.21	74.53	840.63	120.09	1076.07	153.72	236.67	33.81	151.27	21.61
		♀	1483.71	70.65	817.67	116.81	957.91	136.84	168.90	24.13	157.47	22.50
xxxxxx	2	♂	1432.92	68.23	785.56	112.22	1062.64	151.81	251.37	35.91	411.67	58.81
		♀	1356.77	64.61	779.54	111.36	904.42	129.20	238.02	34.00	309.63	44.23
xxxxxx	3	♂	1440.69	68.60	816.76	116.68	1041.72	148.82	253.30	36.19	400.85	57.26
		♀	1394.94	66.43	851.67	121.67	931.96	133.14	194.07	27.72	344.38	49.20
xxxxxx	4	♂	1313.16	62.53	699.34	99.91	744.95	106.42	240.29	34.33	476.61	68.09
		♀	1211.37	57.68	689.99	98.57	785.00	112.14	200.44	28.63	407.59	58.23

Sample	Sam. No.	Sex	Day 50 - 56		Day 57 - 63		Day 64 - 70		Day 71 - 77		Total	
			Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain
			g	g	g	g	g	g	g	g	g	g
xxxxxx	1	♂	-	-	-	-	-	-	-	-	3869.85	78.98
		♀	-	-	-	-	-	-	-	-	3585.67	73.18
xxxxxx	2	♂	-	-	-	-	-	-	-	-	3944.16	80.49
		♀	-	-	-	-	-	-	-	-	3588.38	73.23
xxxxxx	3	♂	-	-	-	-	-	-	-	-	3953.31	80.68
		♀	-	-	-	-	-	-	-	-	3717.01	75.86
xxxxxx	4	♂	323.00	46.14	143.89	20.56	152.55	21.79	-145.86	-20.84	3947.92	51.27
		♀	421.33	60.19	-0.61	-0.09	204.93	29.28	-	-	3920.05	56.00

Feed conversion ratio (Feed consumption per 1 kg of live weight)

Tab. No. 2c

Sample	Sam. No.	Feed conversion ratio				
		Day 21	Day 28	Day 35	Day 42	Day 49
		g/kg LW	g/kg LW	g/kg LW	g/kg LW	g/kg LW
xxxxxx	1	1260.49	1430.53	1548.44	1922.12	2334.42
xxxxxx	2	1334.74	1527.04	1606.34	1958.19	2254.42
xxxxxx	3	1338.67	1484.44	1585.23	1960.13	2237.17
xxxxxx	4	1474.45	1689.10	1836.55	2165.76	2319.37

Sample	Sam. No.	Feed conversion ratio			
		Day 56	Day 63	Day 70	Day 77
		g/kg LW	g/kg LW	g/kg LW	g/kg LW
xxxxxx	4	436.25	324.63	313.33	299.55

Feed conversion ratio (Feed consumption per 1 kg of live weight)

Sample	Sam. No.	Sex	Feed conversion ratio				
			Day 21	Day 28	Day 35	Day 42	Day 49
			g/kg LW	g/kg LW	g/kg LW	g/kg LW	g/kg LW
xxxxxx	1	♂	1221.30	1404.49	1497.69	1862.99	2298.82
		♀	1301.76	1457.53	1602.22	1985.74	2371.71
xxxxxx	2	♂	1307.84	1505.44	1545.66	1896.93	2171.00
		♀	1362.99	1549.14	1671.15	2023.82	2348.74
xxxxxx	3	♂	1325.81	1490.31	1553.40	1924.85	2233.96
		♀	1351.94	1478.57	1618.11	1997.08	2240.58
xxxxxx	4	♂	1444.05	1665.63	1823.34	2147.63	2298.68
		♀	1540.24	1738.76	1863.66	2203.26	2363.16

Sample	Sam. No.	Sex	Feed conversion ratio			
			Day 56	Day 63	Day 70	Day 77
			g/kg LW	g/kg LW	g/kg LW	g/kg LW
xxxxxx	4	♂	462.65	334.60	337.00	299.55
		♀	381.87	292.77	263.52	-

Feed consumption per phases

Tab. No. 2d

Sample	Sam. No.	Feed consumption				
		Starter (1-21 days)	Grower (22-28 days)	Grower (29-35 days)	Grower (36-42 days)	Grower (43-49 days)
		kg	kg	kg	kg	kg
xxxxxx	1	557.50	403.80	518.50	465.80	249.20
xxxxxx	2	808.20	603.40	713.30	656.30	502.30
xxxxxx	3	823.90	606.40	752.50	686.10	509.40
xxxxxx	4	818.70	613.10	709.90	564.30	621.80

Sample	Sam. No.	Feed consumption				
		Grower (50-56 days)	Grower (57-63 days)	Grower (64-70 days)	Grower (71-77 days)	Total
		kg	kg	kg	kg	kg
xxxxxx	1	-	-	-	-	2194.80
xxxxxx	2	-	-	-	-	3283.50
xxxxxx	3	-	-	-	-	3378.30
xxxxxx	4	687.00	348.10	262.00	80.10	4705.00

Feed consumption per phases

Sample	Sam. No.	Sex	Feed consumption				
			Starter (1-21 days)	Grower (22-28 days)	Grower (29-35 days)	Grower (36-42 days)	Grower (43-49 days)
			kg	kg	kg	kg	kg
xxxxxx	1	♂	277.10	203.40	255.90	240.90	130.60
		♀	280.40	200.40	262.60	224.90	118.60
xxxxxx	2	♂	405.60	298.20	352.00	337.70	265.20
		♀	402.60	305.20	361.30	318.60	237.10
xxxxxx	3	♂	414.40	303.60	368.60	354.80	282.50
		♀	409.50	302.80	383.90	331.30	226.90
xxxxxx	4	♂	548.40	410.30	471.10	379.20	430.70
		♀	270.30	202.80	238.80	185.10	191.10

Sample	Sam. No.	Sex	Feed consumption				
			Grower (50-56 days)	Grower (57-63 days)	Grower (64-70 days)	Grower (71-77 days)	Total
			kg	kg	kg	kg	kg
xxxxxx	1	♂	-	-	-	-	1107.90
		♀	-	-	-	-	1086.90
xxxxxx	2	♂	-	-	-	-	1658.70
		♀	-	-	-	-	1624.80
xxxxxx	3	♂	-	-	-	-	1723.90
		♀	-	-	-	-	1654.40
xxxxxx	4	♂	490.40	273.30	191.00	80.10	3274.50
		♀	196.60	74.80	71.00	-	1430.50

Results of carcass analysis with skin at the age 42 days

Tab. No. 3a

Sample	Sam. No.	Sex	Weight				Ratio of abd. fat to live weight	Breast muscles with skin			Thigh muscles with skin			Total muscles with skin			Carcass	
			Total	Body	Gibl.	Abd. fat		Weight	Percentage		Weight	Percentage		Weight	Percentage		Value	Yield
									Total weight	Body carcass		Total weight	Body carcass		Total weight	Body carcass		
			g	g	g	g		%	g	%	%	g	%	%	g	%	%	%
xxxxxx	1	♂	3876	2571	360	26	0.67	783	20.21	30.47	585	15.10	22.77	1369	35.32	53.23	66.34	75.62
		♀	3457	2337	308	30	0.88	718	20.76	30.72	533	15.42	22.82	1251	36.18	53.53	67.59	76.49
		Ø	3667	2454	334	28	0.77	751	20.47	30.59	559	15.25	22.79	1310	35.72	53.38	66.93	76.03
xxxxxx	2	♂	3548	2302	341	23	0.64	630	17.77	27.38	551	15.54	23.95	1182	33.31	51.33	64.90	74.50
		♀	3250	2167	296	31	0.95	622	19.14	28.72	525	16.16	24.24	1147	35.30	52.96	66.66	75.78
		Ø	3396	2233	318	27	0.79	626	18.44	28.04	538	15.84	24.09	1164	34.29	52.14	65.76	75.13
xxxxxx	3	♂	3532	2316	332	23	0.65	647	18.32	27.94	559	15.84	24.15	1206	34.16	52.09	65.57	74.97
		♀	3456	2319	306	30	0.88	677	19.58	29.18	559	16.17	24.09	1235	35.74	53.27	67.10	75.94
		Ø	3494	2317	319	27	0.76	662	18.95	28.56	559	16.00	24.12	1221	34.95	52.69	66.33	75.45

Results of carcass analysis with skin at the age 49 days

Tab. No. 3b

Sample	Sam. No.	Sex	Weight				Ratio of abd. fat to live weight	Breast muscles with skin			Thigh muscles with skin			Total muscles with skin			Carcass	
			Total	Body	Gibl.	Abd. fat		Weight	Percentage		Weight	Percentage		Weight	Percentage		Value	Yield
									Total weight	Body carcass		Total weight	Body carcass					
g	g	g	g	%	g	%	%	g	%	%	g	%	%	%	%			
xxxxxx	1	♂	3925	2717	376	39	1.00	887	22.59	32.64	588	14.98	21.64	1475	37.57	54.28	69.21	78.79
		♀	3641	2567	319	40	1.11	861	23.65	33.53	551	15.13	21.45	1412	38.77	54.98	70.52	79.30
		Ø	3781	2641	347	40	1.05	874	23.11	33.08	569	15.05	21.55	1443	38.16	54.63	69.85	79.04
xxxxxx	2	♂	4037	2702	375	38	0.94	836	20.70	30.92	620	15.37	22.96	1456	36.06	53.87	66.94	76.24
		♀	3584	2525	322	44	1.23	802	22.39	31.78	576	16.06	22.80	1378	38.45	54.59	70.43	79.43
		Ø	3817	2616	350	41	1.07	819	21.47	31.32	599	15.68	22.88	1418	37.15	54.21	68.53	77.69
xxxxxx	3	♂	3956	2675	375	36	0.91	824	20.82	30.80	604	15.27	22.58	1428	36.09	53.38	67.62	77.09
		♀	3736	2552	321	41	1.10	821	21.98	32.19	572	15.31	22.41	1393	37.29	54.60	68.30	76.89
		Ø	3846	2613	348	38	1.00	823	21.39	31.48	588	15.29	22.50	1411	36.67	53.97	67.95	76.99

Results of carcass analysis with skin at the age 56 days

Tab. No. 3c

Sample	Sam. No.	Sex	Weight				Ratio of abd. fat to live weight	Breast muscles with skin			Thigh muscles with skin			Total muscles with skin			Carcass	
			Total	Body	Gibl.	Abd. fat		Weight	Percentage		Weight	Percentage		Weight	Percentage		Value	Yield
			g	g	g	g			Total weight	Body carcass		Total weight	Body carcass		Total weight	Body carcass		
XXXXXX	4	♂	3857	2758	348	60	1.54	797	20.67	28.91	666	17.26	24.14	1463	37.94	53.05	71.51	80.52
		♀	3671	2616	322	59	1.60	749	20.39	28.62	629	17.14	24.06	1378	37.54	52.67	71.26	80.05
		Ø	3764	2687	335	59	1.57	773	20.54	28.77	648	17.21	24.10	1421	37.74	52.87	71.39	80.29

Results of carcass analysis with skin at the age 63 days

Tab. No. 3d

Sample	Sam. No.	Sex	Weight				Ratio of abd. fat to live weight	Breast muscles with skin			Thigh muscles with skin			Total muscles with skin			Carcass	
			Total	Body	Gibl.	Abd. fat		Weight	Percentage		Weight	Percentage		Weight	Percentage		Value	Yield
			g	g	g	g			Total weight	Body carcass		Total weight	Body carcass		Total weight	Body carcass		
XXXXXX	4	♂	4061	2864	345	54	1.33	852	20.97	29.74	683	16.82	23.85	1535	37.80	53.59	70.53	79.03

Results of carcass analysis with skin at the age 70 days

Tab. No. 3e

Sample	Sam. No.	Sex	Weight				Ratio of abd. fat to live weight	Breast muscles with skin			Thigh muscles with skin			Total muscles with skin			Carcass	
			Total	Body	Gibl.	Abd. fat		Weight	Percentage		Weight	Percentage		Weight	Percentage		Value	Yield
			g	g	g	g			Total weight	Body carcass		Total weight	Body carcass		Total weight	Body carcass		
XXXXXX	4	♂	4146	2976	332	47	1.14	951	22.94	31.96	652	15.72	21.90	1603	38.66	53.86	71.78	79.79
		♀	3962	2854	296	56	1.42	928	23.43	32.53	628	15.86	22.02	1557	39.29	54.55	72.03	79.51
		Ø	4055	2916	315	52	1.28	940	23.18	32.23	640	15.79	21.96	1580	38.96	54.19	71.90	79.66

Results of carcass analysis with skin at the age 77 days

Tab. No. 3f

Sample	Sam. No.	Sex	Weight				Ratio of abd. fat to live weight	Breast muscles with skin			Thigh muscles with skin			Total muscles with skin			Carcass	
			Total	Body	Gibl.	Abd. fat		Weight	Percentage		Weight	Percentage		Weight	Percentage		Value	Yield
			g	g	g	g			Total weight	Body carcass		Total weight	Body carcass		Total weight	Body carcass		
XXXXXX	4	♂	3991	3001	312	37	0.93	939	23.52	31.28	680	17.03	22.65	1619	40.55	53.92	75.20	83.03

Mortality

Tab. No. 4

Sample	Sam. No.	Mortality in the period										
		Day 1-21	Day 22-28	Day 29-35	Day 36-42	Day 43-49	Day 50-56	Day 57-63	Day 64-70	Day 71-77	Total	
		birds	birds	birds	birds	birds	birds	birds	birds	birds	birds	%
XXXXX	1	0	1	0	0	1	-	-	-	-	2	0.71
XXXXX	2	1	4	3	1	2	-	-	-	-	11	2.62
XXXXX	3	0	1	0	2	0	-	-	-	-	3	0.71
XXXXX	4	0	0	0	4	1	2	1	0	0	8	1.90

Sample	Sam. No.	Mortality according causes													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
XXXXX	1										2				
XXXXX	2										8	3			
XXXXX	3										3				
XXXXX	4										5	3			

Diagnostic:

1 - Virus caused diseases
 2 - Bacteria caused diseases
 3 - Mould caused diseases
 4 - Parasite caused diseases
 5 - Tumors

6 - Injuries
 7 - Gastrointest diseases
 8 - Respiratory diseases
 9 - Reproduct. org. diseases
 10 - Mobility app. diseases

11 - Sudden death syndrome
 12 - Cannibalism
 13 - Yolk sac. inflam.
 14 - Other causes

Mortality

Sample	Sam. No.	Sex	Mortality in the period										
			Day 1-21	Day 22-28	Day 29-35	Day 36-42	Day 43-49	Day 50-56	Day 57-63	Day 64-70	Day 71-77	Total	
			birds	birds	birds	birds	birds	birds	birds	birds	birds	birds	%
XXXXXX	1	♂	0	1	0	0	1	-	-	-	-	2	1.43
		♀	0	0	0	0	0	-	-	-	-	0	0.00
XXXXXX	2	♂	1	3	1	0	0	-	-	-	-	5	2.38
		♀	0	1	2	1	2	-	-	-	-	6	2.86
XXXXXX	3	♂	0	1	0	1	0	-	-	-	-	2	0.95
		♀	0	0	0	1	0	-	-	-	-	1	0.48
XXXXXX	4	♂	0	0	0	3	0	1	0	0	0	5	1.79
		♀	0	0	0	1	1	1	0	0	0	3	2.14

Sample	Sam. No.	Sex	Mortality according causes													
			1	2	3	4	5	6	7	8	9	10	11	12	13	14
XXXXXX	1	♂										2				
		♀														
XXXXXX	2	♂										3	2			
		♀										5	1			
XXXXXX	3	♂										2				
		♀										1				
XXXXXX	4	♂										4	1			
		♀										1	2			

Statistical analysis of body weight on day 42

Tab. No. 5a

Sample	Sam. No.	Males				Females			
		Number of birds	Average body weight	Divergence valuation	Variations coeff. valuation	Number of birds	Average body weight	Divergence valuation	Variations coeff. valuation
			g/birds	g/birds	%		g/birds	g/birds	%
xxxxx	1	139	3774.01	295.46	7.83	140	3483.06	315.69	9.06
xxxxx	2	205	3583.45	237.67	6.63	206	3328.56	263.23	7.91
xxxxx	3	208	3600.18	295.23	8.20	209	3420.06	245.98	7.19
xxxxx	4	277	3040.88	281.03	9.24	139	2928.95	279.93	9.56

Statistical analysis of body weight on day 49

Tab. No. 5b

Sample	Sam. No.	Males				Females			
		Number of birds	Average body weight	Divergence valuation	Variations coeff. valuation	Number of birds	Average body weight	Divergence valuation	Variations coeff. valuation
			g/birds	g/birds	%		g/birds	g/birds	%
xxxxx	1	68	3925.28	290.06	7.39	70	3640.53	321.06	8.82
xxxxx	2	139	3995.12	264.92	6.63	135	3638.19	284.83	7.83
xxxxx	3	139	4001.03	316.63	7.91	139	3764.44	338.65	9.00
xxxxx	4	277	3517.48	301.75	8.58	138	3336.54	280.42	8.40

Statistical analyses of performance results – live weight

Performance results were statistically evaluated using the ANOVA model (Sheffe test) or nonparametric method (Kruskal-Wallis).

The following symbols are used for levels of significance:

$p \leq 0.001$	***	- differences are very high significant
$p \leq 0.01$	**	- differences are high significant
$p \leq 0.05$	*	- differences are significant
$p > 0.05$	o	- differences are not significant

Average body weight on day 35 (by sex)

Tab. No. 6a

Sample	Sam. No.	Sex	No. of birds	Average	Standard deviation	Scheffe test			
				(g)		1	2	3	4
XXXXXX	1	♂	139	3537.34	265.09		***	***	***
XXXXXX	2		205	3332.08	251.61	0.000000		o	***
XXXXXX	3		209	3346.88	283.88	0.000000	0.958151		***
XXXXXX	4		280	2800.59	276.33	0.000000	0.000000	0.000000	

Sample	Sam. No.	Sex	No. of birds	Average	Standard deviation	Kruskal-Wallis test			
				(g)		1	2	3	4
XXXXXX	1	♀	140	3314.16	293.81		o	***	***
XXXXXX	2		207	3090.54	268.72	1.000000		***	***
XXXXXX	3		210	3226.00	240.37	0.000000	0.000011		***
XXXXXX	4		140	2728.51	263.03	0.000000	0.000000	0.000000	

Average body weight on day 35 (both sexes together)

Sample	Sam. No.	No. of birds	Average	Standard deviation	Kruskal-Wallis test			
			(g)		1	2	3	4
XXXXXX	1	279	3425.35	300.90		*	***	***
XXXXXX	2	412	3210.72	286.77	0.013988		**	***
XXXXXX	3	419	3286.29	269.54	0.000000	0.001075		***
XXXXXX	4	420	2776.56	273.78	0.000000	0.000000	0.000000	

Average body weight on day 42 (by sex)

Tab. No. 6b

Sample	Sam. No.	Sex	No. of birds	Average	Standard deviation	Scheffe test			
				(g)		1	2	3	4
XXXXXX	1	♂	139	3774.01	295.46		***	***	***
XXXXXX	2		205	3583.45	237.67	0.000000		o	***
XXXXXX	3		208	3600.18	295.23	0.000000	0.945140		***
XXXXXX	4		277	3040.88	281.03	0.000000	0.000000	0.000000	

Sample	Sam. No.	Sex	No. of birds	Average	Standard deviation	Kruskal-Wallis test			
				(g)		1	2	3	4
XXXXXX	1	♀	140	3483.06	315.69		*	***	***
XXXXXX	2		206	3328.56	263.23	0.094354		**	***
XXXXXX	3		209	3420.06	245.98	0.000000	0.004387		***
XXXXXX	4		139	2928.95	279.93	0.000000	0.000000	0.000000	

Average body weight on day 42 (both sexes together)

Sample	Sam. No.	No. of birds	Average	Standard deviation	Kruskal-Wallis test			
			(g)		1	2	3	4
XXXXXX	1	279	3628.01	338.24		***	***	***
XXXXXX	2	411	3455.69	281.13	0.000022		*	***
XXXXXX	3	417	3509.90	285.92	0.000000	0.046676		***
XXXXXX	4	416	3003.48	285.27	0.000000	0.000000	0.000000	

Average body weight on day 49 (by sex)

Tab. No. 6c

Sample	Sam. No.	Sex	No. of birds	Average	Standard deviation	Scheffe test			
				(g)		1	2	3	4
XXXXXX	1	♂	68	3925.28	290.06		o	o	***
XXXXXX	2		139	3995.12	264.92	0.468816		o	***
XXXXXX	3		139	4001.03	316.63	0.394311	0.998782		***
XXXXXX	4		277	3517.48	301.75	0.000000	0.000000	0.000000	

Sample	Sam. No.	Sex	No. of birds	Average	Standard deviation	Scheffe test			
				(g)		1	2	3	4
XXXXXX	1	♀	70	3640.53	321.06		o	o	***
XXXXXX	2		135	3638.19	284.83	0.999963		**	***
XXXXXX	3		139	3764.44	338.65	0.054776	0.008994		***
XXXXXX	4		138	3336.54	280.42	0.000000	0.000000	0.000000	

Average body weight on day 49 (both sexes together)

Sample	Sam. No.	No. of birds	Average	Standard deviation	Scheffe test			
			(g)		1	2	3	4
XXXXXX	1	138	3780.84	336.86		o	*	***
XXXXXX	2	274	3819.26	327.50	0.735954		o	***
XXXXXX	3	278	3882.73	348.03	0.029900	0.157143		***
XXXXXX	4	415	3457.32	306.61	0.000000	0.000000	0.000000	

Statistical analyses of performance results – carcass analysis

Performance results were statistically evaluated using the ANOVA model (Scheffe test) or nonparametric method (Kruskal-Wallis test).

The following symbols are used for levels of significance:

$p \leq 0.001$	***	- differences are very high significant
$p \leq 0.01$	**	- differences are high significant
$p \leq 0.05$	*	- differences are significant
$p > 0.05$	o	- differences are not significant

Weight of Breast muscles with skin at 42 days (by sex)

Tab. No. 7a

Sample	Sam. No.	Sex	No. of measurement	Average	Standard deviation	Scheffe test		
				(g)		1	2	3
XXXXXX	1	♂	70	783.43	72.46		***	***
XXXXXX	2		66	630.42	64.17	0.000000		o
XXXXXX	3		69	646.94	97.47	0.000000	0.483883	

Sample	Sam. No.	Sex	No. of measurement	Average	Standard deviation	Kruskal-Wallis test		
				(g)		1	2	3
XXXXXX	1	♀	70	717.71	96.94		***	*
XXXXXX	2		69	622.19	85.00	0.000000		***
XXXXXX	3		70	676.66	56.14	0.043639	0.000952	

Weight of Breast muscles with skin at 42 days (both sexes together)

Sample	Sam. No.	No. of measurement	Average	Standard deviation	Kruskal-Wallis test		
			(g)		1	2	3
XXXXXX	1	140	750.57	91.43		***	***
XXXXXX	2	135	626.21	75.37	0.000000		***
XXXXXX	3	139	661.91	80.50	0.000000	0.000449	

Weight of Thigh muscles with skin at 42 days (by sex)

Tab. No. 7b

Sample	Sam. No.	Sex	No. of measurement	Average	Standard deviation	Scheffe test		
				(g)		1	2	3
XXXXXX	1	♂	70	585.46	55.21		***	*
XXXXXX	2		66	551.38	47.10	0.000806		o
XXXXXX	3		69	559.36	52.21	0.013139	0.669368	

Sample	Sam. No.	Sex	No. of measurement	Average	Standard deviation	Kruskal-Wallis test		
				(g)		1	2	3
XXXXXX	1	♀	70	533.17	58.24		o	*
XXXXXX	2		69	525.23	49.55	1.000000		***
XXXXXX	3		70	558.74	40.51	0.010666	0.000443	

Weight of Thigh muscles with skin at 42 days (both sexes together)

Sample	Sam. No.	No. of measurement	Average	Standard deviation	Kruskal-Wallis test		
			(g)		1	2	3
XXXXXX	1	140	559.31	62.33		***	o
XXXXXX	2	135	538.01	49.94	0.000469		***
XXXXXX	3	139	559.05	46.52	1.000000	0.000214	

Weight of Breast muscles with skin at 49 days (by sex)**Tab. No. 8a**

Sample	Sam. No.	Sex	No. of measurement	Average	Standard deviation	Scheffe test		
				(g)		1	2	3
XXXXXX	1	♂	68	886.72	98.46		**	***
XXXXXX	2		70	835.50	73.71	0.005651		o
XXXXXX	3		69	823.80	102.47	0.000471	0.756657	

Sample	Sam. No.	Sex	No. of measurement	Average	Standard deviation	Scheffe test		
				(g)		1	2	3
XXXXXX	1	♀	70	860.81	97.78		***	*
XXXXXX	2		66	802.38	78.96	0.000873		o
XXXXXX	3		69	821.33	89.20	0.035078	0.467976	

Weight of Breast muscles with skin at 49 days (both sexes together)

Sample	Sam. No.	No. of measurement	Average	Standard deviation	Scheffe test		
			(g)		1	2	3
XXXXXX	1	138	873.58	98.62		***	***
XXXXXX	2	136	819.43	77.81	0.000008		o
XXXXXX	3	138	822.57	95.72	0.000027	0.960287	

Weight of Thigh muscles with skin at 49 days (by sex)

Tab. No. 8b

Sample	Sam. No.	Sex	No. of measurement	Average	Standard deviation	Scheffe test		
				(g)		1	2	3
XXXXXX	1	♂	68	588.01	51.79		**	o
XXXXXX	2		70	620.29	50.16	0.001590		o
XXXXXX	3		69	604.03	53.90	0.199161	0.185158	

Sample	Sam. No.	Sex	No. of measurement	Average	Standard deviation	Scheffe test		
				(g)		1	2	3
XXXXXX	1	♀	70	550.74	60.21		*	o
XXXXXX	2		66	575.68	56.55	0.042213		o
XXXXXX	3		69	571.97	55.00	0.094876	0.931777	

Weight of Thigh muscles with skin at 49 days (both sexes together)

Sample	Sam. No.	No. of measurement	Average	Standard deviation	Scheffe test		
			(g)		1	2	3
XXXXXX	1	138	569.11	59.05		***	*
XXXXXX	2	136	598.64	57.67	0.000158		o
XXXXXX	3	138	588.00	56.59	0.025861	0.314119	

Performance results per pen

Body weight per phases

Tab. No. 9a (page 1)

Sample	Sam. No.	Pen	Sex	Day 1		Day 21		Day 28		Day 35		Day 42		Day 49	
				Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight
					g		g		g		g		g		g
xxxxxx	1	1	♀	70	54.86	70	1556.46	70	2322.60	70	3348.44	70	3503.70	70	3640.53
		9		70	54.86	70	1520.69	70	2389.89	70	3279.87	70	3462.41	-	-
		5	♂	70	55.14	70	1567.14	69	2387.93	69	3475.58	69	3670.38	68	3925.28
		13		70	55.71	70	1674.13	70	2533.56	70	3598.21	70	3876.16	-	-
xxxxxx	2	2	♀	70	49.71	70	1444.84	70	2198.99	69	3160.96	69	3352.49	69	3689.78
		10		70	50.29	70	1429.63	70	2217.83	69	3076.19	68	3383.91	66	3584.26
		17		70	49.43	70	1345.26	69	2140.90	69	3034.46	69	3250.07	-	-
		6	♂	70	51.14	70	1511.73	69	2249.54	69	3396.64	69	3585.57	69	3952.80
		14		70	50.86	70	1495.64	70	2302.79	70	3350.69	70	3615.14	70	4036.83
		20		70	50.86	69	1443.68	67	2255.09	66	3244.85	66	3547.62	-	-
xxxxxx	3	3	♀	70	48.00	70	1454.63	70	2284.40	70	3252.14	70	3406.97	70	3792.30
		11		70	47.14	70	1446.50	70	2314.81	70	3191.29	69	3396.72	69	3736.17
		18		70	47.14	70	1425.99	70	2282.90	70	3234.56	70	3456.16	-	-
		7	♂	70	48.00	70	1518.66	70	2274.31	70	3409.87	70	3639.96	70	4045.29
		15		70	47.71	70	1510.99	70	2375.27	70	3359.39	69	3628.41	69	3956.13
		21		70	47.43	70	1435.56	69	2265.33	69	3270.29	69	3531.59	-	-
xxxxxx	4	4	♀	70	42.00	70	1294.49	70	1959.44	70	2807.66	70	2981.34	70	3383.63
		12		70	42.29	70	1212.54	70	1927.57	70	2649.36	69	2875.80	68	3288.07
		8	♂	70	42.29	70	1342.27	70	2022.77	70	2919.96	70	3046.00	70	3536.04
		16		70	44.29	70	1408.89	70	2111.14	70	2778.07	70	3095.61	70	3455.67
		19		70	42.57	70	1341.99	70	2070.53	70	2773.84	69	3049.93	69	3594.61
		22		70	43.43	70	1332.07	70	2018.11	70	2730.47	68	2970.07	68	3483.75

Body weight per phases
Tab. No. 9a (page 2)

Sample	Sam. No.	Pen	Sex	Day 56		Day 63		Day 70		Day 77	
				Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight
					g		g		g		g
xxxxxx	4	4	♀	69	3670.52	-	-	-	-	-	-
		12		68	3846.51	68	3757.26	68	3962.19	-	-
		8	♂	70	3856.66	-	-	-	-	-	-
		16		70	3830.76	70	3989.97	70	4145.77	-	-
		19		69	3916.19	68	4061.12	-	-	-	-
		22		67	3755.78	67	3900.63	67	4127.67	67	3991.06

Weight gain per phases
Tab. No. 9b (page 1)

Sample	Sam. No.	Pen	Sex	Day 1 - 21		Day 22 - 28		Day 29 - 35		Day 36 - 42		Day 43 – 49	
				Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain
				g	g	g	g	g	g	g	g	g	g
xxxxx	1	1	♀	1501.60	71.50	766.14	109.45	1025.84	146.55	155.26	22.18	136.83	19.55
		9		1465.83	69.80	869.20	124.17	889.99	127.14	182.54	26.08	-	-
		5	♂	1512.00	72.00	820.78	117.25	1087.65	155.38	194.80	27.83	254.90	36.41
		13		1618.41	77.07	859.43	122.78	1064.66	152.09	277.94	39.71	-	-
xxxxx	2	2	♀	1395.13	66.43	754.14	107.73	961.97	137.42	191.54	27.36	337.29	48.18
		10		1379.34	65.68	788.20	112.60	858.36	122.62	307.72	43.96	200.35	28.62
		17		1295.83	61.71	795.64	113.66	893.57	127.65	215.61	30.80	-	-
		6	♂	1460.59	69.55	737.81	105.40	1147.10	163.87	188.93	26.99	367.23	52.46
		14		1444.79	68.80	807.14	115.31	1047.90	149.70	264.46	37.78	421.69	60.24
		20		1392.82	66.32	811.41	115.92	989.76	141.39	302.77	43.25	-	-
xxxxx	3	3	♀	1406.63	66.98	829.77	118.54	967.74	138.25	154.83	22.12	385.33	55.05
		11		1399.36	66.64	868.31	124.04	876.47	125.21	205.44	29.35	339.45	48.49
		18		1378.84	65.66	856.91	122.42	951.66	135.95	221.60	31.66	-	-
		7	♂	1470.66	70.03	755.66	107.95	1135.56	162.22	230.09	32.87	405.33	57.90
		15		1463.27	69.68	864.29	123.47	984.11	140.59	269.02	38.43	327.72	46.82
		21		1388.13	66.10	829.78	118.54	1004.96	143.57	261.30	37.33	-	-
xxxxx	4	4	♀	1252.49	59.64	664.96	94.99	848.21	121.17	173.69	24.81	402.29	57.47
		12		1170.26	55.73	715.03	102.15	721.79	103.11	226.44	32.35	412.28	58.90
		8	♂	1299.99	61.90	680.50	97.21	897.19	128.17	126.04	18.01	490.04	70.01
		16		1364.60	64.98	702.26	100.32	666.93	95.28	317.54	45.36	360.06	51.44
		19		1299.41	61.88	728.54	104.08	703.31	100.47	276.08	39.44	544.68	77.81
		22		1288.64	61.36	686.04	98.01	712.36	101.77	239.60	34.23	513.68	73.38

Weight gain per phases
Tab. No. 9b (page 2)

Sample	Sam. No.	Pen	Sex	Day 50 - 56		Day 57 - 63		Day 64 - 70		Day 71 - 77		Total	
				Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain
				g	g	g	g	g	g	g	g	g	g
XXXXXX	1	1	♀	-	-	-	-	-	-	-	-	3585.67	73.18
		9		-	-	-	-	-	-	-	-	3407.56	81.13
		5	♂	-	-	-	-	-	-	-	-	3870.14	78.98
		13		-	-	-	-	-	-	-	-	3820.44	90.96
XXXXXX	2	2	♀	-	-	-	-	-	-	-	-	3640.07	74.29
		10		-	-	-	-	-	-	-	-	3533.97	72.12
		17		-	-	-	-	-	-	-	-	3200.64	76.21
		6	♂	-	-	-	-	-	-	-	-	3901.65	79.63
		14		-	-	-	-	-	-	-	-	3985.97	81.35
		20		-	-	-	-	-	-	-	-	3496.76	83.26
XXXXXX	3	3	♀	-	-	-	-	-	-	-	-	3744.30	76.41
		11		-	-	-	-	-	-	-	-	3689.03	75.29
		18		-	-	-	-	-	-	-	-	3409.01	81.17
		7	♂	-	-	-	-	-	-	-	-	3997.29	81.58
		15		-	-	-	-	-	-	-	-	3908.42	79.76
		21		-	-	-	-	-	-	-	-	3484.17	82.96
XXXXXX	4	4	♀	286.89	40.98	-	-	-	-	-	-	3628.52	64.80
		12		558.44	79.78	-89.25	-12.75	204.93	29.28	-	-	3919.91	56.00
		8	♂	320.61	45.80	-	-	-	-	-	-	3814.37	68.11
		16		375.09	53.58	159.21	22.74	155.80	22.26	-	-	4101.49	58.59
		19		321.58	45.94	144.93	20.70	-	-	-	-	4018.55	63.79
		22		272.03	38.86	144.85	20.69	227.04	32.43	-136.61	-19.52	3947.63	51.27

Feed conversion ratio (Feed consumption per 1 kg of live weight)

Tab. No. 9c (page 1)

Sample	Sam. No.	Pen	Sex	Feed conversion ratio				
				Day 21	Day 28	Day 35	Day 42	Day 49
				g/kg LW	g/kg LW	g/kg LW	g/kg LW	g/kg LW
xxxxxx	1	1	♀	1303.33	1480.48	1597.33	1980.76	2371.71
		9		1300.17	1435.22	1607.21	1990.77	-
		5	♂	1279.85	1453.57	1530.76	1907.16	2298.82
		13		1166.49	1358.90	1466.20	1821.76	-
xxxxxx	2	2	♀	1345.67	1546.17	1642.78	1984.68	2266.34
		10		1316.03	1471.19	1647.53	1987.78	2437.43
		17		1431.48	1634.15	1724.63	2101.18	-
		6	♂	1304.09	1521.09	1514.71	1892.86	2167.24
		14		1278.00	1444.21	1505.45	1865.57	2174.62
		20		1343.18	1554.69	1623.55	1935.14	-
xxxxxx	3	3	♀	1324.84	1491.48	1605.10	1969.91	2222.17
		11		1338.21	1451.52	1629.44	2029.66	2259.54
		18		1393.52	1493.09	1620.01	1992.30	-
		7	♂	1281.21	1481.14	1512.42	1869.33	2188.08
		15		1325.53	1440.44	1538.55	1931.62	2281.54
		21		1373.28	1552.70	1612.23	1975.95	-
xxxxxx	4	4	♀	1483.21	1715.50	1812.39	2139.02	2271.02
		12		1601.12	1762.40	1917.99	2270.83	2460.77
		8	♂	1446.38	1688.63	1774.49	2164.90	2327.06
		16		1381.03	1610.50	1829.64	2093.28	2349.76
		19		1457.33	1647.61	1818.00	2115.52	2209.83
		22		1494.99	1718.72	1874.61	2221.18	2309.88

Feed conversion ratio (Feed consumption per 1 kg of live weight)
Tab. No. 9c (page 2)

Sample	Sam. No.	Pen	Sex	Feed conversion ratio			
				Day 56	Day 63	Day 70	Day 77
				g/kg LW	g/kg LW	g/kg LW	g/kg LW
xxxxxx	4	4	♀	375.10	-	-	-
		12		388.43	292.77	263.52	-
		8	♂	464.13	-	-	-
		16		444.52	322.59	317.02	-
		19		455.19	325.54	-	-
		22		488.40	357.00	357.98	299.55

Feed consumption per phases
Tab. No. 9d (page 1)

Sample	Sam. No.	Pen	Sex	Feed consumption				
				Starter (1-21 days)	Grower (22-28 days)	Grower (29-35 days)	Grower (36-42 days)	Grower (43-49 days)
				kg	kg	kg	kg	kg
xxxxxx	1	1	♀	142.00	98.70	133.70	111.40	118.60
		9		138.40	101.70	128.90	113.50	-
		5	♂	140.40	99.10	127.60	115.90	130.60
		13		136.70	104.30	128.30	125.00	-
xxxxxx	2	2	♀	136.10	101.90	120.30	100.80	117.90
		10		131.70	96.70	121.30	107.70	119.20
		17		134.80	106.60	119.70	110.10	-
		6	♂	138.00	98.10	118.90	113.30	122.80
		14		133.80	99.00	120.30	119.00	142.40
		20		133.80	101.10	112.80	105.40	-
xxxxxx	3	3	♀	134.90	103.60	126.90	104.40	120.10
		11		135.50	99.70	128.80	111.70	106.80
		18		139.10	99.50	128.20	115.20	-
		7	♂	136.20	99.60	125.20	115.30	143.30
		15		140.20	99.30	122.30	121.80	139.20
		21		138.00	104.70	121.10	117.70	-
xxxxxx	4	4	♀	134.40	100.90	120.90	90.20	91.50
		12		135.90	101.90	117.90	94.90	99.60
		8	♂	135.90	103.20	123.60	98.90	114.40
		16		136.20	101.80	117.80	97.80	114.80
		19		136.90	101.90	114.20	92.20	102.90
		22		139.40	103.40	115.50	90.30	98.60

Feed consumption per phases
Tab. No. 9d (page 2)

Sample	Sam. No.	Pen	Sex	Feed consumption				
				Grower (50-56 days)	Grower (57-63 days)	Grower (64-70 days)	Grower (71-77 days)	Total
				kg	kg	kg	kg	kg
XXXXXX	1	1	♀	-	-	-	-	604.40
		9		-	-	-	-	482.50
		5	♂	-	-	-	-	613.60
		13		-	-	-	-	494.30
XXXXXX	2	2	♀	-	-	-	-	577.00
		10		-	-	-	-	576.60
		17		-	-	-	-	471.20
		6	♂	-	-	-	-	591.10
		14		-	-	-	-	614.50
		20		-	-	-	-	453.10
XXXXXX	3	3	♀	-	-	-	-	589.90
		11		-	-	-	-	582.50
		18		-	-	-	-	482.00
		7	♂	-	-	-	-	619.60
		15		-	-	-	-	622.80
		21		-	-	-	-	481.50
XXXXXX	4	4	♀	95.00	-	-	-	632.90
		12		101.60	74.80	71.00	-	797.60
		8	♂	125.30	-	-	-	701.30
		16		119.20	90.10	92.00	-	869.70
		19		123.00	89.90	-	-	761.00
		22		122.90	93.30	99.00	80.10	942.50