



MEZINÁRODNÍ TESTOVÁNÍ DRŮBEŽE
státní podnik, ÚSTRAŠICE

390 02 Tábor 2

Tel.: 381 200 320

**3rd part fattening test of the final product of LII.
international test of parents from of broilers**

27. 3. 2024 - 5. 5. 2024

Study Investigator: Ing. Hana Horná
Ing. Markéta Krekulová

Ústrašice, May 2024

1 List of participants

Sample	Cross	Breeding organization	State
1	XXXXX	XXXXX	XXXXX
2	XXXXX	XXXXX	XXXXX
3	XXXXX	XXXXX	XXXXX
4	XXXXX	XXXXX	XXXXX
5	XXXXX	XXXXX	XXXXX
6	XXXXX	XXXXX	XXXXX
7	XXXXX	XXXXX	XXXXX
8	XXXXX	XXXXX	XXXXX
9	XXXXX	XXXXX	XXXXX
10	XXXXX	XXXXX	XXXXX
11	XXXXX	XXXXX	XXXXX
12	XXXXX	XXXXX	XXXXX

2 Basic tests information

2.1 The basic dates

setting in the hatchery:

5 March 2024

beginning of test:

27 March 2024

end of the test:

5 May 2024

2.2 Location of the test

Mezinárodní testování drůbeže, s.p. Ústrašice, Czech Republic

3 Material and methods

3.1 Material

There were 12 different breeds in this test. Each sample consisted of 810 hatching eggs. 520 broilers were sexed and placed always 260 females (in two pens) and 260 males (in two pens).

The parent flock is 51 weeks old at the time of hatching eggs collection.

3.2 Housing system

Pullets were kept in windowless house with full control of the environment. They were kept in deep litter system. Manually filled tube feeders and nipple automatic drinkers were used.

3.3 Lighting programme

Pullets were kept in windowless house. All the birds were submitted to the following lighting programme.

Age	Hours of light	Hours of darkness
Day 1 – 7	23	1
Day 8 – 36	18	6
Day 37 – 39	23	1

3.4 Stocking density

16 broilers per square meter

3.5 Feeding

Feed was produced in xxxxx.

Day 1 – 10 Starter (BR1)

Day 11 – 21 Grower (BR2-A)

Day 22 – 28 Grower (BR2-B)

Day 29 – 39 Finisher (BR3)

Diet formulas

	Starter BR1	Grower BR2-A	Grower BR2-B	Finisher BR3
Age	Days 1 - 10	Days 11 - 21	Day 22 - 28	Day 29 - 39
Components (%)				
Wheat	42.86	50.55	52.46	57.88
Maize	15.00	13.00	13.00	10.00
Soybean extr.	32.25	30.95	28.90	26.65
Soybean extr. groats	3.00	-	-	-
Fish meal	1.50	-	-	-
MCP – monocalciumphosphate	0.75	0.35	0.27	0.18
Calcium carbonate	1.24	1.08	0.99	0.98
Salt	0.21	0.23	0.23	0.23
Soybean oil	1.30	1.58	1.20	1.00
Animal fat	-	0.50	1.28	1.72
Sodium sulfate	0.11	0.12	0.12	0.11
Cholinchlorid	0.04	0.04	0.03	0.03
Premixes of amino acid	0.87	0.88	0.80	0.80
Vitamin and mineral supplement	0.87	0.72	0.72	0.42
Nutrient content				
Crude protein (g/kg)	231.60	211.56	203.94	197.15
Fat (g/kg)	38.53	39.48	43.42	45.20
Lysine dig. (g/kg)	12.81	11.63	11.02	10.59
Methionine dig. (g/kg)	6.39	5.77	5.52	5.27
Ca phyt. (g/kg)	9.39	7.70	7.19	6.91
P dig. (g/kg)	5.09	4.00	3.81	3.60
Vitamin A (IU/kg)	15000	10000	10000	10000
Vitamin D3 (IU/kg)	5000	5000	5000	5000
ME (MJ/kg)	12.30	12.60	12.80	13.00

3.6 Veterinary precautions

The chicken house was disinfected by xxxxx before the chick placement. On the first days old chickens was applied to the water solution of permanganate. On days 1 and 12 chickens were vaccinated with xxxxx.

4 Parameters recorded

4.1 Live weight

Live weight was measured on days 1 (all the birds in each pen were weighed altogether), 7 and 14 (20 % of the birds were weighed altogether, without fasting). On day 32 and 39 birds were weighed individually, after 12 hours of fasting.

4.2 Feed conversion ratio (FCR)

Feed conversion ratio was calculated as feed consumption per 1 kg of live weight for the periods 1 – 14 days and 1 – 32 days and 1 – 39 days.

4.3 Mortality

All pens were checked three times 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.

4.4 Carcass analysis

The carcass analysis was done on 20 cocks and 20 hens per each genotype on day 39. Breast muscles was weighed without skin and thigh muscles with bone and skin.

4.5 Statistical analyses

Performance results of live weight at the age of 32 days were statistically evaluated.

5 Results

Tab. No. 1	Hatchability
2a	Broiler results at the age of 7 days
2b	Broiler results at the age of 14 days
2c	Broiler results at the age of 32 days
2d	Broiler results at the age of 39 days
3a	Mortality during growing period at the age of 14 days
3b	Mortality during growing period at the age of 32 days
3c	Mortality during growing period at the age of 39 days
4	Results of carcass analysis
5a	Statistical analysis at the age of 32 days – cocks
5b	Statistical analysis at the age of 32 days – hens
6a	Statistical analysis at the age of 39 days – cocks
6b	Statistical analysis at the age of 39 days – hens

Hatchability**Tab. No. 1**

Test: 52

Part fattening: 3

Cross	Sample	Fertility	Hatchability		Birds housed	Average weight		
			Set	Fert.		hatch. eggs	1-day	
		%	%	%			♂	♀
		g	g	g				
XXXXX	1	92.84	81.85	88.16	520	69.49	49.08	48.96
XXXXX	2	99.14	89.75	90.54	520	67.83	48.46	48.23
XXXXX	3	92.59	74.94	80.93	520	66.27	44.54	45.35
XXXXX	4	97.04	83.21	85.75	520	72.00	50.31	50.38
XXXXX	5	97.53	86.91	89.11	520	68.10	48.35	47.88
XXXXX	6	95.19	83.21	87.42	520	68.36	47.96	47.96
XXXXX	7	96.79	81.85	84.57	520	70.44	48.08	47.62
XXXXX	8	95.43	83.58	87.58	520	70.59	47.96	48.04
XXXXX	9	97.65	84.32	86.35	520	67.60	48.54	47.88
XXXXX	10	93.83	74.07	78.95	520	71.60	49.96	50.15
XXXXX	11	88.27	74.81	84.76	520	69.19	48.92	48.62
XXXXX	12	87.53	77.04	88.01	520	69.21	47.46	47.62

This is the true fertility (broken eggs) not the candling fertility.

Broiler results at the age of 7 days

Tab. No. 2a

Test: 52

Part fattening: 3

Cross	Sample	Average live weight at 7 days								
		male			female			average		
		mortality		live weight	mortality		live weight	mortality		live weight
		birds	%	g	birds	%	g	birds	%	g
xxxxx	1	0	0.00	191.67	0	0.00	169.17	0	0.00	180.42
xxxxx	2	0	0.00	199.17	0	0.00	184.17	0	0.00	191.67
xxxxx	3	0	0.00	187.50	0	0.00	171.67	0	0.00	179.58
xxxxx	4	0	0.00	200.83	0	0.00	204.17	0	0.00	202.50
xxxxx	5	0	0.00	201.67	0	0.00	196.67	0	0.00	199.17
xxxxx	6	0	0.00	193.33	0	0.00	190.00	0	0.00	191.67
xxxxx	7	0	0.00	201.67	0	0.00	189.17	0	0.00	195.42
xxxxx	8	0	0.00	200.83	0	0.00	183.33	0	0.00	192.08
xxxxx	9	0	0.00	200.00	0	0.00	193.33	0	0.00	196.67
xxxxx	10	0	0.00	202.50	0	0.00	198.33	0	0.00	200.42
xxxxx	11	0	0.00	192.50	0	0.00	171.67	0	0.00	182.08
xxxxx	12	0	0.00	187.50	0	0.00	192.50	0	0.00	190.00

Broiler results at the age of 14 days

Tab. No. 2b

Test: 52

Part fattening: 3

Cross	Sample	Average live weight at 14 days								
		male			female			average		
		birds	live weight	FCR	birds	live weight	FCR	birds	live weight	FCR
			g	g		g	g			
xxxxx	1	259	530.00	1116.78	260	495.00	1097.13	519	512.47	1107.27
xxxxx	2	259	542.50	1074.68	258	512.50	1084.52	517	527.53	1079.45
xxxxx	3	257	529.17	1123.56	258	488.33	1170.73	515	508.71	1146.25
xxxxx	4	259	541.67	1094.15	259	513.33	1168.83	518	527.50	1130.49
xxxxx	5	260	533.33	1078.13	260	507.50	1032.97	520	520.42	1056.11
xxxxx	6	258	534.17	1103.65	258	500.00	1113.18	516	517.08	1108.26
xxxxx	7	260	535.00	1130.12	259	498.33	1190.07	519	516.70	1158.97
xxxxx	8	258	540.00	1078.09	258	500.83	1218.90	516	520.42	1145.85
xxxxx	9	257	534.17	1103.58	259	500.83	1095.47	516	517.44	1099.64
xxxxx	10	259	530.00	1071.61	260	486.67	1242.36	519	508.29	1153.51
xxxxx	11	258	541.67	1097.67	258	495.83	1085.79	516	518.75	1092.00
xxxxx	12	258	533.33	1114.83	260	500.83	1204.91	518	517.02	1158.63

Broiler results at the age of 32 days

Tab. No. 2c

Test: 52

Part fattening: 3

Cross	Sample	Average live weight at 32 days								
		male			female			average		
		birds	live weight	FCR	birds	live weight	FCR	birds	live weight	FCR
			g	g		g	g			
xxxxx	1	256	2369.02	1461.74	260	2000.12	1509.14	516	2183.14	1483.62
xxxxx	2	256	2256.56	1470.19	258	1918.91	1492.69	514	2087.08	1480.57
xxxxx	3	257	2291.48	1467.97	257	2006.65	1539.43	514	2149.07	1501.33
xxxxx	4	253	2319.33	1494.23	256	2090.66	1522.02	509	2204.32	1507.49
xxxxx	5	256	2234.65	1488.28	258	1951.82	1456.80	514	2092.68	1473.54
xxxxx	6	252	2321.47	1476.56	256	2018.83	1459.70	508	2168.96	1468.65
xxxxx	7	257	2380.62	1456.64	257	2124.01	1549.64	514	2252.32	1500.49
xxxxx	8	253	2370.00	1440.94	257	2083.27	1585.92	510	2225.51	1509.33
xxxxx	9	256	2420.27	1418.20	258	2025.16	1445.96	514	2221.95	1430.90
xxxxx	10	255	2283.33	1475.14	260	2097.69	1579.57	515	2189.61	1525.65
xxxxx	11	253	2482.17	1410.85	257	1998.72	1499.80	510	2238.55	1450.87
xxxxx	12	257	2308.75	1512.43	259	2084.63	1533.93	516	2196.26	1522.67

Broiler results at the age of 39 days

Tab. No. 2d

Test: 52

Part fattening: 3

Cross	Sample	Average live weight at 39 days								
		male			female			average		
		birds	live weight	FCR	birds	live weight	FCR	birds	live weight	FCR
			g	g		g	g		g	
xxxxx	1	126	2877.62	1692.59	129	2515.89	1715.91	255	2694.63	1703.61
xxxxx	2	128	2947.73	1588.88	128	2545.47	1630.04	256	2746.60	1607.95
xxxxx	3	129	2842.79	1672.94	129	2500.93	1743.85	258	2671.86	1706.12
xxxxx	4	120	3124.33	1664.09	128	2569.30	1704.32	248	2837.86	1682.89
xxxxx	5	128	2972.58	1569.56	128	2487.50	1639.76	256	2730.04	1601.54
xxxxx	6	123	2951.46	1644.22	129	2517.44	1665.28	252	2729.29	1654.16
xxxxx	7	129	3074.65	1593.42	128	2770.47	1718.74	257	2923.15	1652.58
xxxxx	8	125	2901.60	1682.66	128	2700.70	1726.40	253	2799.96	1704.00
xxxxx	9	126	3065.16	1569.35	129	2482.79	1700.70	255	2770.55	1628.90
xxxxx	10	126	2902.06	1673.96	130	2761.85	1690.90	256	2830.86	1682.35
xxxxx	11	127	2832.83	1719.99	128	2494.30	1711.09	255	2662.90	1715.80
xxxxx	12	127	3001.10	1681.80	129	2727.98	1632.80	256	2863.48	1658.28

Mortality in the age 14 days

Tab. No. 3a

Test: 52

Part fattening: 3

Cross	Sample	Mortality in the period						Mortality according causes																
		male		female		total		1	2	3	4	5	6	7	8	9	10	11	12	13	14			
		birds	%	birds	%	birds	%																	
xxxxx	1	1	0.38	0	0.00	1	0.19																1	
xxxxx	2	1	0.38	2	0.77	3	0.58														3			
xxxxx	3	3	1.15	2	0.77	5	0.96														3			2
xxxxx	4	1	0.38	1	0.38	2	0.38														2			
xxxxx	5	0	0.00	0	0.00	0	0.00																	
xxxxx	6	2	0.77	2	0.77	4	0.77														4			
xxxxx	7	0	0.00	1	0.38	1	0.19																	1
xxxxx	8	2	0.77	2	0.77	4	0.77														3			1
xxxxx	9	3	1.15	1	0.38	4	0.77														3			1
xxxxx	10	1	0.38	0	0.00	1	0.19														1			
xxxxx	11	2	0.77	2	0.77	4	0.77														3			1
xxxxx	12	2	0.77	0	0.00	2	0.38														2			

- Causes:
- 1 – Viral diseases
 - 2 – Bacterial diseases
 - 3 – Moulds diseases
 - 4 – Parasitary diseases
 - 5 – Tumors

- 6 – Wounds
- 7 – Digestive track diseases
- 8 – Respiratory tract diseases
- 9 – Reproduction tract diseases
- 10 – Locomotion apparatus diseases

- 11 – Sudden death syndrome
- 12 – Cannibalism
- 13 – Yolk sac. infam.
- 14 – Culling and other causes

Mortality during the masts in 32 days

Tab. No. 3b

Test: 52

Part fattening: 3

Cross	Sample	Mortality in the period						Mortality according causes													
		1 - 14		15 - 32		1 - 32		1	2	3	4	5	6	7	8	9	10	11	12	13	14
		birds	%	birds	%	birds	%														
xxxxx	1	1	0.19	3	0.58	4	0.77											3			1
xxxxx	2	3	0.58	3	0.58	6	1.15											6			
xxxxx	3	5	0.96	1	0.19	6	1.15											4			2
xxxxx	4	2	0.38	9	1.73	11	2.12											10			1
xxxxx	5	0	0.00	6	1.15	6	1.15											4			2
xxxxx	6	4	0.77	8	1.54	12	2.31											12			
xxxxx	7	1	0.19	5	0.96	6	1.15											5			1
xxxxx	8	4	0.77	6	1.15	10	1.92											8			2
xxxxx	9	4	0.77	2	0.38	6	1.15											5			1
xxxxx	10	1	0.19	4	0.77	5	0.96											5			
xxxxx	11	4	0.77	6	1.15	10	1.92											8			2
xxxxx	12	2	0.38	2	0.38	4	0.77											4			

Causes: 1 – Viral diseases
 2 – Bacterial diseases
 3 – Moulds diseases
 4 – Parasitary diseases
 5 – Tumors

6 – Wounds
 7 – Digestive track diseases
 8 – Respiratory tract diseases
 9 – Reproduction tract diseases
 10 – Locomotion apparatus diseases

11 – Sudden death syndrome
 12 – Cannibalism
 13 – Yolk sac. infam.
 14 – Culling and other causes

Mortality during the masts in 39 days

Tab. No. 3c

Test: 52

Part fattening: 3

Cross	Sample	Mortality in the period						Mortality according causes													
		1 - 14		15 - 39		1 - 39		1	2	3	4	5	6	7	8	9	10	11	12	13	14
		birds	%	birds	%	birds	%														
xxxxx	1	1	0.19	6	1.15	7	1.35											6			1
xxxxx	2	3	0.58	3	0.58	6	1.15											6			
xxxxx	3	5	0.96	1	0.19	6	1.15											4			2
xxxxx	4	2	0.38	15	2.88	17	3.27											16			1
xxxxx	5	0	0.00	6	1.15	6	1.15											4			2
xxxxx	6	4	0.77	10	1.92	14	2.69											14			
xxxxx	7	1	0.19	7	1.35	8	1.54											7			1
xxxxx	8	4	0.77	9	1.73	13	2.50											11			2
xxxxx	9	4	0.77	4	0.77	8	1.54											7			1
xxxxx	10	1	0.19	6	1.15	7	1.35											7			
xxxxx	11	4	0.77	6	1.15	10	1.92											8			2
xxxxx	12	2	0.38	4	0.77	6	1.15											6			

Causes: 1 – Viral diseases
 2 – Bacterial diseases
 3 – Moulds diseases
 4 – Parasitary diseases
 5 – Tumors

6 – Wounds
 7 – Digestive track diseases
 8 – Respiratory tract diseases
 9 – Reproduction tract diseases
 10 – Locomotion apparatus diseases

11 – Sudden death syndrome
 12 – Cannibalism
 13 – Yolk sac. infam.
 14 – Culling and other causes

Results of carcass analysis in 39 days

Tab. No. 4 (page 1)

Test: 52

Part fattening: 3

Cross	Sample	Sex	Weight				Ratio of abd. fat to live weight	Breast meat without skin			Thigh meat with bone and skin			Breast meat and thighs			Carcass	
			Total	Body	Gibl.	Abd. fat		weight	percentage		weight	percentage		weight	percentage		value	quality
									total weight	body carcass		total weight	body carcass		total weight	body carcass		
			g	g	g	g		g	%	%	%	g	%	%	g	%	%	%
xxxxx	1	♂	2916	2123	165	41	1.41	737	25.28	34.72	651	22.33	30.67	1388	47.60	65.39	72.80	78.46
		♀	2646	1972	149	46	1.73	701	26.50	35.56	586	22.14	29.71	1287	48.64	65.27	74.52	80.15
		♂	2781	2047	157	43	1.56	719	25.86	35.12	618	22.24	30.21	1337	48.09	65.33	73.62	79.27
xxxxx	2	♂	3008	2164	176	45	1.50	729	24.24	33.71	654	21.75	30.24	1384	45.99	63.95	71.92	77.76
		♀	2625	1878	148	45	1.71	673	25.62	35.81	554	21.11	29.51	1227	46.73	65.32	71.54	77.18
		♂	2817	2021	162	45	1.60	701	24.88	34.69	604	21.45	29.90	1305	46.34	64.58	71.74	77.49
xxxxx	3	♂	2850	2097	156	52	1.81	761	26.70	36.29	604	21.18	28.79	1364	47.87	65.08	73.56	79.03
		♀	2693	1990	151	60	2.22	730	27.12	36.70	571	21.20	28.68	1301	48.31	65.38	73.90	79.51
		♂	2772	2043	154	56	2.01	746	26.90	36.49	587	21.19	28.74	1333	48.09	65.23	73.72	79.26
xxxxx	4	♂	3171	2245	184	53	1.66	762	24.03	33.95	666	20.99	29.65	1428	45.03	63.60	70.80	76.61
		♀	2617	1883	163	48	1.82	625	23.87	33.17	554	21.15	29.39	1178	45.03	62.56	71.98	78.20
		♂	2894	2064	174	50	1.73	693	23.96	33.59	610	21.07	29.53	1303	45.03	63.12	71.33	77.33
xxxxx	5	♂	2966	2151	161	35	1.17	774	26.08	35.96	642	21.64	29.83	1415	47.72	65.79	72.53	77.97
		♀	2499	1860	132	40	1.58	628	25.13	33.76	554	22.18	29.80	1182	47.31	63.56	74.44	79.73
		♂	2733	2006	147	37	1.36	701	25.65	34.94	598	21.89	29.82	1299	47.53	64.76	73.40	78.77
xxxxx	6	♂	2979	2162	171	47	1.59	761	25.56	35.21	643	21.59	29.75	1405	47.15	64.96	72.60	78.33
		♀	2561	1873	144	46	1.80	658	25.69	35.12	558	21.78	29.77	1215	47.47	64.89	73.15	78.79
		♂	2770	2018	158	47	1.68	710	25.62	35.17	600	21.68	29.76	1310	47.30	64.93	72.85	78.54

Results of carcass analysis in 39 days

Tab. No. 4 (page 2)

Test: 52

Part fattening: 3

Cross	Sample	Sex	Weight				Ratio of abd. fat to live weight	Breast meat without skin			Thigh meat with bone and skin			Breast meat and thighs			Carcass	
			Total	Body	Gibl.	Abd. fat		weight	percentage		weight	percentage		weight	percentage		value	quality
									total weight	body carcass		total weight	body carcass		total weight	body carcass		
			g	g	g	g		%	g	%	%	g	%	%	g	%	%	%
xxxxx	7	♂	3120	2278	173	46	1.47	793	25.40	34.79	673	21.58	29.55	1466	46.98	64.34	73.01	78.56
		♀	2880	2123	164	52	1.80	765	26.56	36.02	615	21.35	28.96	1380	47.91	64.98	73.73	79.43
		♂	3000	2201	169	49	1.63	779	25.96	35.39	644	21.47	29.27	1423	47.43	64.65	73.36	78.98
xxxxx	8	♂	2994	2156	177	52	1.74	714	23.84	33.11	655	21.86	30.37	1368	45.70	63.48	72.00	77.93
		♀	2659	1932	155	51	1.93	651	24.47	33.68	571	21.47	29.55	1221	45.94	63.23	72.66	78.49
		♂	2826	2044	166	52	1.83	682	24.14	33.38	613	21.68	29.98	1295	45.82	63.36	72.31	78.19
xxxxx	9	♂	3083	2241	172	46	1.50	771	25.02	34.42	680	22.04	30.33	1451	47.06	64.74	72.69	78.27
		♀	2494	1841	134	40	1.60	629	25.22	34.16	545	21.83	29.58	1173	47.05	63.74	73.81	79.20
		♂	2789	2041	153	43	1.55	700	25.11	34.30	612	21.95	29.99	1312	47.06	64.29	73.19	78.69
xxxxx	10	♂	2999	2162	179	52	1.74	731	24.37	33.81	656	21.88	30.35	1387	46.26	64.16	72.10	78.08
		♀	2749	1976	160	55	2.02	672	24.46	34.02	587	21.34	29.69	1259	45.80	63.71	71.89	77.70
		♂	2874	2069	170	54	1.87	702	24.42	33.91	621	21.62	30.03	1323	46.04	63.94	72.00	77.90
xxxxx	11	♂	2844	2069	168	41	1.44	715	25.15	34.57	643	22.59	31.06	1358	47.74	65.64	72.74	78.63
		♀	2631	1945	157	45	1.72	673	25.58	34.59	585	22.24	30.07	1258	47.81	64.66	73.94	79.92
		♂	2737	2007	162	43	1.57	694	25.35	34.58	614	22.42	30.58	1308	47.78	65.16	73.32	79.25
xxxxx	12	♂	3048	2204	177	51	1.66	764	25.08	34.67	652	21.40	29.59	1417	46.48	64.26	72.33	78.14
		♀	2637	1841	147	57	2.16	640	24.26	34.76	547	20.75	29.73	1187	45.01	64.48	69.80	75.37
		♂	2842	2022	162	54	1.89	702	24.70	34.71	600	21.10	29.65	1302	45.80	64.36	71.15	76.85

Statistical analysis - Cocks on the age of 32 days

Tab. No. 5a

Test: 52

Part fattening: 3

Cross	Sample	Sample size	Average	Standard deviation	Coefficient of variation	Standard error of mean	Precision select. average	Standard error of coeff. of variation
			g/birds	g/birds	%	g/birds	%	%
XXXXX	1	256	2369.02	238.35	10.06	14.90	0.63	0.45
XXXXX	2	256	2256.56	225.55	10.00	14.10	0.62	0.45
XXXXX	3	257	2291.48	239.49	10.45	14.94	0.65	0.47
XXXXX	4	253	2319.33	304.70	13.14	19.16	0.83	0.60
XXXXX	5	256	2234.65	212.07	9.49	13.25	0.59	0.42
XXXXX	6	252	2321.47	276.58	11.91	17.42	0.75	0.54
XXXXX	7	257	2380.62	249.70	10.49	15.58	0.65	0.47
XXXXX	8	253	2370.00	305.31	12.88	19.19	0.81	0.58
XXXXX	9	256	2420.27	220.50	9.11	13.78	0.57	0.41
XXXXX	10	255	2283.33	298.74	13.08	18.71	0.82	0.59
XXXXX	11	253	2482.17	263.38	10.61	16.56	0.67	0.48
XXXXX	12	257	2308.75	217.67	9.43	13.58	0.59	0.42

Statistical analysis - Hens on the age of 32 days

Tab. No. 5b

Test: 52

Part fattening: 3

Cross	Sample	Sample size	Average	Standard deviation	Coefficient of variation	Standard error of mean	Precision select. average	Standard error of coeff. of variation
			g/birds	g/birds	%	g/birds	%	%
xxxxx	1	260	2000.12	227.05	11.35	14.08	0.70	0.51
xxxxx	2	258	1918.91	184.75	9.63	11.50	0.60	0.43
xxxxx	3	257	2006.65	227.75	11.35	14.21	0.71	0.51
xxxxx	4	256	2090.66	237.28	11.35	14.83	0.71	0.51
xxxxx	5	258	1951.82	266.29	13.64	16.58	0.85	0.61
xxxxx	6	256	2018.83	262.59	13.01	16.41	0.81	0.59
xxxxx	7	257	2124.01	290.19	13.66	18.10	0.85	0.61
xxxxx	8	257	2083.27	264.88	12.71	16.52	0.79	0.57
xxxxx	9	258	2025.16	202.98	10.02	12.64	0.62	0.45
xxxxx	10	260	2097.69	251.73	12.00	15.61	0.74	0.53
xxxxx	11	257	1998.72	215.87	10.80	13.47	0.67	0.48
xxxxx	12	259	2084.63	246.05	11.80	15.29	0.73	0.53

Statistical analysis - Cocks on the age of 39 days

Tab. No. 6a

Test: 52

Part fattening: 3

Cross	Sample	Sample size	Average	Standard deviation	Coefficient of variation	Standard error of mean	Precision select. average	Standard error of coeff. of variation
			g/birds	g/birds	%	g/birds	%	%
XXXXX	1	126	2877.62	272.98	9.49	24.32	0.85	0.61
XXXXX	2	128	2947.73	296.61	10.06	26.22	0.89	0.64
XXXXX	3	129	2842.79	261.22	9.19	23.00	0.81	0.58
XXXXX	4	120	3124.33	345.13	11.05	31.51	1.01	0.72
XXXXX	5	128	2972.58	268.62	9.04	23.74	0.80	0.57
XXXXX	6	123	2951.46	252.24	8.55	22.74	0.77	0.55
XXXXX	7	129	3074.65	303.33	9.87	26.71	0.87	0.62
XXXXX	8	125	2901.60	325.33	11.21	29.10	1.00	0.72
XXXXX	9	126	3065.16	251.28	8.20	22.39	0.73	0.52
XXXXX	10	126	2902.06	330.33	11.38	29.43	1.01	0.73
XXXXX	11	127	2832.83	269.54	9.51	23.92	0.84	0.60
XXXXX	12	127	3001.10	295.30	9.84	26.20	0.87	0.63

Statistical analysis - Hens on the age of 39 days

Tab. No. 6b

Test: 52

Part fattening: 3

Cross	Sample	Sample size	Average	Standard deviation	Coefficient of variation	Standard error of mean	Precision select. average	Standard error of coeff. of variation
			g/birds	g/birds	%	g/birds	%	%
xxxxx	1	129	2515.89	227.78	9.05	20.05	0.80	0.57
xxxxx	2	128	2545.47	310.87	12.21	27.48	1.08	0.78
xxxxx	3	129	2500.93	233.79	9.35	20.58	0.82	0.59
xxxxx	4	128	2569.30	280.38	10.91	24.78	0.96	0.69
xxxxx	5	128	2487.50	230.69	9.27	20.39	0.82	0.59
xxxxx	6	129	2517.44	212.68	8.45	18.73	0.74	0.53
xxxxx	7	128	2770.47	260.76	9.41	23.05	0.83	0.60
xxxxx	8	128	2700.70	269.98	10.00	23.86	0.88	0.63
xxxxx	9	129	2482.79	227.58	9.17	20.04	0.81	0.58
xxxxx	10	130	2761.85	232.37	8.41	20.38	0.74	0.53
xxxxx	11	128	2494.30	293.98	11.79	25.98	1.04	0.75
xxxxx	12	129	2727.98	294.42	10.79	25.92	0.95	0.68