



MEZINÁRODNÍ TESTOVÁNÍ DRŮBEŽE
státní podnik, ÚSTRAŠICE

390 02 Tábor 2

Tel.: 381 200 320

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

30. 3. 2023 - 8. 5. 2023

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Ústřašice, June 2023

1 List of participants

Sample	Cross	Breeding organization	State
1	xxxxxx	xxxxxx	xxxxxx
2	xxxxxx	xxxxxx	xxxxxx
3	xxxxxx	xxxxxx	xxxxxx
4	xxxxxx	xxxxxx	xxxxxx
5	xxxxxx	xxxxxx	xxxxxx
6	xxxxxx	xxxxxx	xxxxxx
7	xxxxxx	xxxxxx	xxxxxx
8	xxxxxx	xxxxxx	xxxxxx
9	xxxxxx	xxxxxx	xxxxxx
10	xxxxxx	xxxxxx	xxxxxx
11	xxxxxx	xxxxxx	xxxxxx
12	xxxxxx	xxxxxx	xxxxxx
13	xxxxxx	xxxxxx	xxxxxx
14	xxxxxx	xxxxxx	xxxxxx
15	xxxxxx	xxxxxx	xxxxxx

2 Basic tests information

2.1 The basic dates

setting in the hatchery:

8 March 2023

beginning of test:

30 March 2023

end of the test:

8 May 2023

2.2 Location of the test

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

3 Material and methods

3.1 Material

There were 15 different breeds in this test. Each sample consisted of 900 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	41.42	48.42	50.08	57.12
Maize	15.00	13.00	13.00	10.00
Soybean extr. groats	31.50	31.85	29.95	24.80
Soybean extr.	4.00	-	-	-
Fish meal	1.50	-	-	-
MCP – monocalciumphosphate	0.47	0.30	0.17	0.16
Calcium carbonate	1.47	1.13	1.12	1.13
Salt	0.28	0.24	0.22	0.26
Soybean oil	2.46	2.50	2.50	2.62
Animal fat	-	0.87	1.28	2.50
Sodium sulfate	0.13	0.10	0.11	0.08
Premixes of amino acid	0.85	0.83	0.73	0.86
Vitamin and mineral supplement	0.92	0.76	0.84	0.47
Nutrient content				
Crude protein (g/kg)	230.21	212.94	206.19	188.42
Fat (g/kg)	51.60	52.10	56.13	68.62
Lysine dig. (g/kg)	12.82	11.68	11.30	10.34
Methionine dig. (g/kg)	6.27	5.68	5.44	4.97
Ca phyt. (g/kg)	9.76	7.81	7.52	7.37
P dig. (g/kg)	4.51	3.90	3.61	3.50
Vitamin A (IU/kg)	15000	10000	10000	10000
Vitamin D3 (IU/kg)	5000	5000	5000	5000
ME (MJ/kg)	12.45	12.70	12.90	13.46

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 - cocks
5b	Statistical analysis - hens

Hatchability**Tab. No. 1**

Test: 51

Part fattening: 3

Cross	Sample	Fertility	Hatchability		Birds housed	Average weight		
			Set	Fert.		hatch. eggs	1-day	
		%	%	%		♂	♀	
						g	g	g
XXXXX	1	96.00	84.44	87.96	520	67.28	47.46	47.77
XXXXX	2	96.78	86.89	89.78	520	69.96	47.50	47.73
XXXXX	3	95.56	86.22	90.23	520	68.93	45.88	46.04
XXXXX	4	97.00	84.78	87.40	520	67.02	47.92	47.19
XXXXX	5	93.56	83.11	88.84	520	68.33	46.15	46.04
XXXXX	6	91.67	79.11	86.30	520	69.79	47.31	47.27
XXXXX	7	92.78	80.22	86.47	520	67.42	47.54	47.31
XXXXX	8	93.22	83.00	89.03	520	68.71	46.42	46.15
XXXXX	9	94.22	81.11	86.08	520	68.84	46.23	46.31
XXXXX	10	97.22	88.00	90.51	520	65.72	43.73	43.88
XXXXX	11	98.44	86.78	88.15	520	66.09	44.31	44.35
XXXXX	12	94.89	85.22	89.81	520	69.66	46.38	46.77
XXXXX	13	90.00	75.78	84.20	520	69.91	47.15	47.58
XXXXX	14	96.11	85.22	88.67	520	66.32	46.19	45.65
XXXXX	15	96.11	85.56	89.02	520	69.64	47.12	47.00

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

Broiler results at the age of 7 days

Tab. No. 2a

Test: 51

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	192.50	1	0.38	185.00	1	0.19	188.76
XXXXX	2	0	0.00	194.17	3	1.15	187.50	3	0.58	190.85
XXXXX	3	0	0.00	194.17	1	0.38	188.33	1	0.19	191.26
XXXXX	4	0	0.00	195.83	0	0.00	184.17	0	0.00	190.00
XXXXX	5	0	0.00	185.00	2	0.77	191.67	2	0.38	188.32
XXXXX	6	0	0.00	190.83	2	0.77	185.00	2	0.38	187.93
XXXXX	7	0	0.00	188.33	0	0.00	181.67	0	0.00	185.00
XXXXX	8	0	0.00	195.83	4	1.54	185.00	4	0.77	190.46
XXXXX	9	1	0.38	190.83	6	2.31	185.00	7	1.35	187.95
XXXXX	10	0	0.00	150.83	0	0.00	154.17	0	0.00	152.50
XXXXX	11	7	2.69	150.00	0	0.00	145.00	7	1.35	147.47
XXXXX	12	2	0.77	191.67	3	1.15	183.33	5	0.96	187.51
XXXXX	13	0	0.00	195.00	3	1.15	187.50	3	0.58	191.27
XXXXX	14	0	0.00	192.50	1	0.38	188.33	1	0.19	190.42
XXXXX	15	0	0.00	191.67	5	1.92	185.00	5	0.96	188.37

Broiler results at the age of 14 days

Tab. No. 2b

Test: 51

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		g	
XXXXX	1	258	549.17	1127.15	257	519.17	1132.46	515	534.20	1129.73
XXXXX	2	254	540.00	1180.37	255	510.00	1221.07	509	524.97	1200.18
XXXXX	3	259	532.50	1212.32	255	511.67	1262.31	514	522.16	1236.62
XXXXX	4	259	560.00	1102.45	258	515.00	1168.81	517	537.54	1134.18
XXXXX	5	255	515.83	1173.81	251	517.50	1154.03	506	516.66	1163.98
XXXXX	6	252	549.17	1176.39	255	511.67	1161.91	507	530.31	1169.36
XXXXX	7	255	555.83	1059.71	258	516.67	1168.04	513	536.14	1112.21
XXXXX	8	256	547.50	1095.89	254	515.00	1203.27	510	531.31	1147.73
XXXXX	9	252	549.17	1162.66	246	511.67	1164.69	498	530.64	1163.63
XXXXX	10	260	395.00	1228.82	259	358.33	1342.55	519	376.70	1282.81
XXXXX	11	252	392.50	1272.87	258	355.83	1295.14	510	373.95	1283.59
XXXXX	12	255	545.83	1138.75	252	512.50	1135.89	507	529.27	1137.37
XXXXX	13	258	540.83	1170.32	255	512.50	1111.81	513	526.75	1142.02
XXXXX	14	251	549.17	1141.17	259	514.17	1134.65	510	531.39	1137.97
XXXXX	15	255	535.00	1163.28	241	512.50	1195.02	496	524.07	1178.36

Broiler results at the age of 32 days

Tab. No. 2c

Test: 51

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		g	
XXXXX	1	255	2189.88	1453.57	255	2066.24	1409.40	510	2128.06	1432.13
XXXXX	2	244	2325.94	1462.83	250	2148.04	1466.64	494	2235.91	1464.68
XXXXX	3	252	2410.24	1447.69	249	2280.52	1461.48	501	2345.77	1454.35
XXXXX	4	252	2344.13	1415.05	256	1989.14	1434.55	508	2165.24	1424.08
XXXXX	5	251	2302.27	1437.87	244	2181.64	1430.15	495	2242.81	1434.17
XXXXX	6	233	2312.66	1456.44	252	2198.81	1377.01	485	2253.51	1416.17
XXXXX	7	254	2335.04	1405.16	255	2176.43	1367.05	509	2255.58	1386.74
XXXXX	8	249	2330.28	1410.80	253	2276.76	1402.21	502	2303.31	1406.52
XXXXX	9	249	2292.17	1425.67	236	2204.58	1423.08	485	2249.55	1424.43
XXXXX	10	258	1700.85	1557.81	257	1518.83	1567.86	515	1610.02	1562.55
XXXXX	11	244	1472.01	1624.58	255	1343.29	1626.09	499	1406.23	1625.32
XXXXX	12	249	2306.27	1444.47	249	2232.49	1407.65	498	2269.38	1426.36
XXXXX	13	247	2419.47	1415.30	247	2122.43	1457.54	494	2270.95	1435.04
XXXXX	14	247	2307.81	1406.77	259	2054.79	1418.10	506	2178.30	1412.24
XXXXX	15	249	2364.38	1399.96	235	2112.17	1463.25	484	2241.92	1428.91

Broiler results at the age of 39 days

Tab. No. 2d

Test: 51

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	127	2867.64	1584.61	129	2570.85	1630.53	256	2718.09	1606.50
XXXXX	2	115	3051.83	1648.19	124	2754.44	1673.69	239	2897.53	1660.77
XXXXX	3	124	3094.84	1583.80	122	2825.74	1659.66	246	2961.38	1619.70
XXXXX	4	127	2936.93	1601.38	125	2540.96	1688.81	252	2740.52	1641.59
XXXXX	5	125	3100.32	1573.13	124	2713.39	1668.10	249	2907.63	1617.27
XXXXX	6	106	3008.21	1659.30	126	2661.83	1641.97	232	2820.09	1650.41
XXXXX	7	126	3117.06	1537.87	127	2680.08	1624.26	253	2897.71	1577.98
XXXXX	8	125	3017.76	1564.87	127	2789.29	1624.60	252	2902.62	1593.80
XXXXX	9	122	3119.92	1561.10	117	2739.15	1666.09	239	2933.51	1609.09
XXXXX	10	256	2179.57	1745.70	256	2065.59	1679.59	512	2122.58	1713.53
XXXXX	11	243	1960.08	1776.40	253	1830.47	1705.86	496	1893.97	1741.63
XXXXX	12	125	2973.04	1561.50	125	2766.96	1652.35	250	2870.00	1605.30
XXXXX	13	116	3082.67	1613.44	122	2711.07	1607.26	238	2892.18	1610.47
XXXXX	14	122	3006.07	1571.41	130	2583.85	1643.05	252	2788.25	1605.66
XXXXX	15	124	2985.65	1583.11	112	2706.16	1667.33	236	2853.01	1621.02

Mortality during the masts in 32 days

Tab. No. 3b

Test: 51

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	5	0.96	5	0.96	10	1.92										1	6			3
XXXXX	2	11	2.12	15	2.88	26	5.00										1	15			10
XXXXX	3	6	1.15	13	2.50	19	3.65										3	11			5
XXXXX	4	3	0.58	9	1.73	12	2.31										1	5			6
XXXXX	5	14	2.69	11	2.12	25	4.81										1	11			13
XXXXX	6	13	2.50	22	4.23	35	6.73										2	24			9
XXXXX	7	7	1.35	4	0.77	11	2.12										1	7			3
XXXXX	8	10	1.92	8	1.54	18	3.46											9			9
XXXXX	9	22	4.23	13	2.50	35	6.73											16			19
XXXXX	10	1	0.19	4	0.77	5	0.96										2	2			1
XXXXX	11	10	1.92	11	2.12	21	4.04										1	13			7
XXXXX	12	13	2.50	9	1.73	22	4.23										3	11			8
XXXXX	13	7	1.35	19	3.65	26	5.00											15			11
XXXXX	14	10	1.92	4	0.77	14	2.69										2	9			3
XXXXX	15	24	4.62	12	2.31	36	6.92										2	22			12

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: 51

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	5	0.96	5	0.96	10	1.92										1	6			3
XXXXX	2	11	2.12	24	4.62	35	6.73										1	23			11
XXXXX	3	6	1.15	17	3.27	23	4.42										3	14			6
XXXXX	4	3	0.58	11	2.12	14	2.69										1	6			7
XXXXX	5	14	2.69	13	2.50	27	5.19										1	13			13
XXXXX	6	13	2.50	35	6.73	48	9.23										2	37			9
XXXXX	7	7	1.35	7	1.35	14	2.69										1	9			4
XXXXX	8	10	1.92	8	1.54	18	3.46											9			9
XXXXX	9	22	4.23	18	3.46	40	7.69											19			21
XXXXX	10	1	0.19	7	1.35	8	1.54										2	5			1
XXXXX	11	10	1.92	14	2.69	24	4.62										1	15			8
XXXXX	12	13	2.50	11	2.12	24	4.62										3	13			8
XXXXX	13	7	1.35	27	5.19	34	6.54											23			11
XXXXX	14	10	1.92	4	0.77	14	2.69										2	9			3
XXXXX	15	24	4.62	12	2.31	36	6.92										2	22			12

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

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

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 13 – Yolk sac. infam.
 14 – Culling and other causes

Results of carcass analysis in 39 days

Tab. No. 4 (page 1)

Test: 51

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	♂	3021	2137	172	44	1.44	734	24.30	34.36	649	21.47	30.36	1383	45.77	64.72	70.72	76.41
		♀	2649	1898	149	42	1.60	656	24.78	34.58	565	21.34	29.78	1221	46.12	64.36	71.66	77.29
		♂	2835	2017	160	43	1.52	695	24.52	34.46	607	21.41	30.09	1302	45.93	64.55	71.16	76.82
xxxxx	2	♂	3261	2316	184	55	1.68	770	23.62	33.26	708	21.70	30.55	1478	45.31	63.81	71.01	76.66
		♀	2849	2081	165	54	1.91	705	24.73	33.86	609	21.38	29.28	1314	46.11	63.14	73.04	78.84
		♂	3055	2198	175	55	1.79	737	24.14	33.54	658	21.55	29.95	1396	45.69	63.49	71.96	77.68
xxxxx	3	♂	3068	2173	166	57	1.86	741	24.16	34.12	643	20.96	29.59	1384	45.12	63.71	70.82	76.23
		♀	2869	2096	156	58	2.02	710	24.73	33.85	628	21.90	29.98	1338	46.63	63.83	73.05	78.50
		♂	2969	2134	161	58	1.94	725	24.44	33.99	636	21.41	29.78	1361	45.85	63.77	71.90	77.33
xxxxx	4	♂	3023	2178	169	35	1.16	766	25.33	35.15	655	21.68	30.09	1421	47.00	65.24	72.04	77.62
		♀	2562	1840	145	33	1.30	636	24.83	34.57	535	20.88	29.07	1171	45.71	63.64	71.83	77.51
		♂	2792	2009	157	34	1.22	701	25.10	34.88	595	21.31	29.63	1296	46.41	64.51	71.95	77.57
xxxxx	5	♂	3144	2172	168	55	1.74	739	23.52	34.04	633	20.15	29.16	1373	43.67	63.20	69.10	74.44
		♀	2829	2006	155	58	2.06	682	24.12	34.02	594	21.01	29.63	1277	45.13	63.65	70.90	76.38
		♂	2986	2089	161	56	1.89	711	23.80	34.03	614	20.56	29.38	1325	44.36	63.41	69.96	75.35
xxxxx	6	♂	2986	2121	180	45	1.51	699	23.42	32.97	668	22.38	31.52	1368	45.80	64.49	71.02	77.04
		♀	2548	1810	154	43	1.70	601	23.59	33.20	551	21.63	30.44	1152	45.21	63.64	71.05	77.09
		♂	2767	1965	167	44	1.60	650	23.50	33.08	610	22.03	31.02	1260	45.53	64.10	71.03	77.06

Results of carcass analysis in 39 days

Tab. No. 4 (page 2)

Test: 51

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	♂	3387	2325	177	42	1.23	801	23.64	34.44	707	20.88	30.42	1508	44.52	64.86	68.64	73.88
		♀	2636	1876	146	42	1.61	646	24.52	34.44	560	21.23	29.83	1206	45.75	64.26	71.19	76.72
		♂	3011	2100	161	42	1.39	723	24.03	34.44	633	21.03	30.15	1357	45.06	64.59	69.76	75.12
xxxxx	8	♂	2996	2136	172	43	1.42	735	24.55	34.43	640	21.38	29.98	1376	45.93	64.42	71.30	77.05
		♀	2732	1974	154	47	1.72	699	25.59	35.41	572	20.92	28.95	1271	46.51	64.36	72.26	77.91
		♂	2864	2055	163	45	1.57	717	25.04	34.90	606	21.16	29.49	1323	46.21	64.39	71.76	77.46
xxxxx	9	♂	3151	2267	173	44	1.39	786	24.94	34.66	680	21.58	29.99	1466	46.52	64.65	71.96	77.45
		♀	2788	1995	162	48	1.72	694	24.89	34.78	585	20.99	29.33	1279	45.88	64.11	71.56	77.37
		♂	2969	2131	167	46	1.54	740	24.92	34.72	632	21.30	29.68	1372	46.22	64.40	71.77	77.41
xxxxx	10	♂	2173	1520	127	29	1.33	488	22.48	32.14	467	21.49	30.73	955	43.97	62.87	69.95	75.78
		♀	2062	1453	118	31	1.51	488	23.69	33.61	421	20.43	28.99	910	44.12	62.60	70.48	76.22
		♂	2117	1486	123	30	1.42	488	23.07	32.86	444	20.98	29.88	932	44.04	62.74	70.21	75.99
xxxxx	11	♂	1992	1414	120	29	1.47	451	22.66	31.90	440	22.09	31.11	891	44.75	63.01	71.01	77.03
		♀	1843	1288	110	31	1.66	425	23.05	32.97	383	20.81	29.77	808	43.86	62.74	69.91	75.90
		♂	1917	1351	115	30	1.56	438	22.85	32.41	412	21.47	30.47	850	44.32	62.88	70.48	76.49
xxxxx	12	♂	3206	2138	175	45	1.40	672	20.96	31.43	648	20.20	30.29	1320	41.16	61.72	66.69	72.13
		♀	2856	2056	162	50	1.77	694	24.32	33.77	622	21.79	30.26	1317	46.11	64.03	72.01	77.69
		♂	3031	2097	168	48	1.57	683	22.54	32.58	635	20.95	30.28	1318	43.49	62.85	69.20	74.75

Results of carcass analysis in 39 days

Tab. No. 4 (page 3)

Test: 51

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	13	♂	3135	2196	180	51	1.62	752	24.00	34.27	656	20.92	29.87	1408	44.93	64.13	70.05	75.80
		♀	2803	1995	161	54	1.92	687	24.51	34.42	577	20.58	28.91	1264	45.09	63.34	71.19	76.91
		♂	2969	2096	170	52	1.76	720	24.24	34.34	616	20.76	29.41	1336	45.00	63.75	70.59	76.33
xxxxx	14	♂	3090	2223	172	39	1.26	759	24.57	34.15	675	21.83	30.35	1434	46.40	64.50	71.94	77.50
		♀	2483	1759	142	35	1.41	608	24.47	34.53	526	21.20	29.91	1134	45.67	64.44	70.87	76.58
		♂	2786	1991	157	37	1.33	683	24.52	34.32	600	21.55	30.16	1284	46.08	64.48	71.46	77.09
xxxxx	15	♂	3097	2184	176	51	1.65	723	23.34	33.10	676	21.83	30.95	1399	45.17	64.05	70.52	76.19
		♀	2808	1992	157	46	1.62	679	24.17	34.07	591	21.03	29.65	1269	45.20	63.71	70.95	76.53
		♂	2952	2088	166	48	1.64	701	23.74	33.56	633	21.45	30.33	1334	45.19	63.89	70.72	76.35

Statistical analysis - Cocks on the age of 32 days

Tab. No. 5a

Test: 51

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	255	2189.88	218.50	9.98	13.68	0.62	0.45
XXXXX	2	244	2325.94	296.57	12.75	18.99	0.82	0.59
XXXXX	3	252	2410.24	360.23	14.95	22.69	0.94	0.68
XXXXX	4	252	2344.13	261.33	11.15	16.46	0.70	0.50
XXXXX	5	251	2302.27	301.22	13.08	19.01	0.83	0.60
XXXXX	6	233	2312.66	253.05	10.94	16.58	0.72	0.51
XXXXX	7	254	2335.04	240.28	10.29	15.08	0.65	0.46
XXXXX	8	249	2330.28	236.83	10.16	15.01	0.64	0.46
XXXXX	9	249	2292.17	325.00	14.18	20.60	0.90	0.65
XXXXX	10	258	1700.85	227.05	13.35	14.14	0.83	0.60
XXXXX	11	244	1472.01	169.34	11.50	10.84	0.74	0.53
XXXXX	12	249	2306.27	250.63	10.87	15.88	0.69	0.49
XXXXX	13	247	2419.47	265.70	10.98	16.91	0.70	0.50
XXXXX	14	247	2307.81	186.26	8.07	11.85	0.51	0.37
XXXXX	15	249	2364.38	246.27	10.42	15.61	0.66	0.47

Statistical analysis - Hens on the age of 32 days

Tab. No. 5b

Test: 51

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	255	2066.24	220.06	10.65	13.78	0.67	0.48
xxxxx	2	250	2148.04	267.13	12.44	16.89	0.79	0.57
xxxxx	3	249	2280.52	303.34	13.30	19.22	0.84	0.61
xxxxx	4	256	1989.14	228.78	11.50	14.30	0.72	0.52
xxxxx	5	244	2181.64	268.01	12.28	17.16	0.79	0.57
xxxxx	6	252	2198.81	281.04	12.78	17.70	0.81	0.58
xxxxx	7	255	2176.43	304.50	13.99	19.07	0.88	0.63
xxxxx	8	253	2276.76	321.83	14.14	20.23	0.89	0.64
xxxxx	9	236	2204.58	382.56	17.35	24.90	1.13	0.82
xxxxx	10	257	1518.83	360.15	23.71	22.47	1.48	1.11
xxxxx	11	255	1343.29	173.24	12.90	10.85	0.81	0.58
xxxxx	12	249	2232.49	261.63	11.72	16.58	0.74	0.53
xxxxx	13	247	2122.43	226.82	10.69	14.43	0.68	0.49
xxxxx	14	259	2054.79	218.58	10.64	13.58	0.66	0.47
xxxxx	15	235	2112.17	228.44	10.82	14.90	0.71	0.51