



MEZINÁRODNÍ TESTOVÁNÍ DRŮBEŽE  
státní podnik, ÚSTRAŠICE

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390 02 Tábor 2

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**4<sup>th</sup> part fattening test of the final product of LI.  
international test of parents from of broilers**

**14. 6. 2023 - 16. 7. 2023**

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Ústrašice, August 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:	23 May 2023
beginning of test:	14 June 2023
end of the test:	16 July 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. 560 broilers were sexed and placed always 280 females (in two pens) and 280 males (in two pens).

The parent flock is 62 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 – 29	18	6
Day 30 – 32	23	1

#### 3.4 Stocking density

17,2 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 – 32 Finisher (BR3)

## Diet formulas

	<b>Starter BR1</b>	<b>Grower BR2-A</b>	<b>Grower BR2-B</b>	<b>Finisher BR3</b>
Age	Days 1 - 10	Days 11 - 21	Day 22 - 28	Day 29 - 32
<b>Components (%)</b>				
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 suppl.	0.92	0.76	0.84	0.47
<b>Nutrient content</b>				
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. xxxxx treatment was initiated on day 3 due to higher mortality.

## **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 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.

### **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 32. 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
3a	Mortality during growing period at the age of 14 days
3b	Mortality during growing period at the age of 32 days
4	Results of carcass analysis
5a	Statistical analysis – cocks
5b	Statistical analysis – hens

**Hatchability****Tab. No. 1**

Test: 51

Part fattening: 4

Cross	Sample	Fertility	Hatchability		Birds housed	Average weight		
			Set	Fert.		hatch. eggs	1-day	
		%	%	%			♂	♀
						g	g	g
XXXXX	1	92.22	79.00	85.66	560	69.86	48.32	48.32
XXXXX	2	96.33	79.22	82.24	560	72.01	48.57	48.93
XXXXX	3	93.44	76.33	81.69	560	69.44	48.43	47.39
XXXXX	4	91.78	71.00	77.36	560	69.44	48.64	48.39
XXXXX	5	92.78	78.67	84.79	560	69.81	47.07	47.39
XXXXX	6	92.11	78.78	85.52	560	71.64	48.82	49.04
XXXXX	7	91.11	75.33	82.68	560	69.61	49.11	47.93
XXXXX	8	94.56	78.11	82.61	560	70.79	48.21	48.46
XXXXX	9	94.56	80.00	84.61	560	70.49	47.21	47.54
XXXXX	10	93.67	78.89	84.22	560	67.33	44.75	44.07
XXXXX	11	98.00	82.00	83.67	560	67.83	44.79	45.14
XXXXX	12	89.44	78.33	87.58	560	71.60	48.43	48.32
XXXXX	13	91.22	72.11	79.05	560	71.61	48.46	49.29
XXXXX	14	90.67	78.56	86.64	560	68.96	47.57	47.36
XXXXX	15	92.67	79.33	85.61	560	71.72	49.18	49.09

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: 4

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	7	5.00	220.83	7	5.00	214.83	14	2.50	217.83
XXXXX	2	17	12.14	216.67	10	7.14	209.17	27	4.82	212.87
XXXXX	3	10	7.14	219.17	6	4.29	209.17	16	2.86	214.13
XXXXX	4	6	4.29	224.17	9	6.43	214.17	15	2.68	219.19
XXXXX	5	15	10.71	215.00	31	22.14	211.67	46	8.21	213.39
XXXXX	6	10	7.14	223.33	24	17.14	214.17	34	6.07	218.87
XXXXX	7	3	2.14	226.67	8	5.71	212.50	11	1.96	219.65
XXXXX	8	12	8.57	212.50	9	6.43	197.50	21	3.75	204.96
XXXXX	9	5	3.57	216.67	6	4.29	211.67	11	1.96	214.17
XXXXX	10	4	2.86	176.67	3	2.14	180.00	7	1.25	178.34
XXXXX	11	3	2.14	174.17	3	2.14	171.67	6	1.07	172.92
XXXXX	12	8	5.71	224.17	10	7.14	220.00	18	3.21	222.09
XXXXX	13	22	15.71	220.83	15	10.71	210.83	37	6.61	215.77
XXXXX	14	10	7.14	223.33	9	6.43	215.00	19	3.39	219.16
XXXXX	15	20	14.29	209.17	17	12.14	205.83	37	6.61	207.49

**Broiler results at the age of 14 days**

**Tab. No. 2b**

Test: 51

Part fattening: 4

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	271	608.33	955.97	271	572.50	972.30	542	590.42	963.89
XXXXX	2	259	584.17	1044.95	266	551.67	1066.49	525	567.70	1055.55
XXXXX	3	264	577.50	1162.93	271	546.67	1154.26	535	561.88	1158.66
XXXXX	4	272	614.17	928.45	268	572.50	970.48	540	593.49	948.57
XXXXX	5	261	580.83	1046.85	247	545.00	1089.77	508	563.41	1067.04
XXXXX	6	268	574.17	1072.94	254	550.00	1143.16	522	562.41	1106.35
XXXXX	7	276	617.50	929.41	270	570.00	988.95	546	594.01	957.67
XXXXX	8	266	575.83	1041.97	267	545.83	1023.76	533	560.81	1033.09
XXXXX	9	273	582.50	988.54	272	543.33	1044.07	545	562.92	1015.29
XXXXX	10	273	469.17	1069.62	275	445.83	1060.32	548	457.46	1065.07
XXXXX	11	277	447.50	1055.20	275	428.33	1088.36	552	437.95	1071.36
XXXXX	12	268	589.17	1058.29	268	549.17	1123.82	536	569.17	1089.90
XXXXX	13	254	587.50	1054.78	262	545.00	1119.13	516	565.92	1086.25
XXXXX	14	269	603.33	1017.27	268	575.00	977.29	537	589.19	997.80
XXXXX	15	259	582.50	1040.65	260	552.33	1045.22	519	567.39	1042.88



**Broiler results at the age of 32 days**

**Tab. No. 2c**

Test: 51

Part fattening: 4

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	267	2109.14	1458.61	269	1807.51	1584.98	536	1957.76	1517.16
XXXXX	2	254	2122.56	1560.29	263	1961.25	1570.73	517	2040.50	1565.40
XXXXX	3	253	2326.17	1548.12	265	2060.79	1557.38	518	2190.41	1552.58
XXXXX	4	266	2084.96	1535.70	265	1872.30	1546.07	531	1978.83	1540.60
XXXXX	5	256	2120.39	1569.21	245	2024.86	1562.22	501	2073.67	1565.87
XXXXX	6	259	2319.77	1440.20	251	2000.32	1514.90	510	2162.55	1474.20
XXXXX	7	271	2298.45	1406.37	269	1986.95	1482.72	540	2143.28	1441.63
XXXXX	8	256	2243.48	1535.01	263	2047.38	1489.62	519	2144.10	1513.04
XXXXX	9	270	2208.78	1478.95	270	2095.48	1441.02	540	2152.13	1460.48
XXXXX	10	273	1709.05	1546.61	270	1541.04	1535.76	543	1625.51	1541.49
XXXXX	11	271	1585.50	1578.77	275	1385.96	1631.68	546	1485.00	1603.64
XXXXX	12	255	2220.35	1502.68	265	2052.08	1528.87	520	2134.60	1515.51
XXXXX	13	244	2226.39	1496.39	260	2040.38	1515.74	504	2130.44	1505.95
XXXXX	14	267	2155.13	1487.44	268	1908.81	1533.54	535	2031.74	1509.14
XXXXX	15	249	2217.59	1504.58	259	2026.41	1502.17	508	2120.12	1503.41

**Mortality in the age 14 days**

**Tab. No. 3a**

Test: 51

Part fattening: 4

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	%															
XXXXXX	1	9	3.21	9	3.21	18	3.21											1	3		9	5
XXXXXX	2	21	7.50	14	5.00	35	6.25											4	4		23	4
XXXXXX	3	16	5.71	9	3.21	25	4.46											6	2		9	8
XXXXXX	4	8	2.86	12	4.29	20	3.57											4	4		6	6
XXXXXX	5	19	6.79	33	11.79	52	9.29											3	4		33	12
XXXXXX	6	12	4.29	26	9.29	38	6.79											1	3		15	19
XXXXXX	7	4	1.43	10	3.57	14	2.50											1	2		3	8
XXXXXX	8	14	5.00	13	4.64	27	4.82											2	2		10	13
XXXXXX	9	8	2.86	7	2.50	15	2.68											1	2		10	2
XXXXXX	10	7	2.50	5	1.79	12	2.14											1	2		4	5
XXXXXX	11	3	1.07	5	1.79	8	1.43												1		3	4
XXXXXX	12	12	4.29	12	4.29	24	4.29											2	3		17	2
XXXXXX	13	26	9.29	18	6.43	44	7.86											6			25	13
XXXXXX	14	11	3.93	12	4.29	23	4.11												3		10	10
XXXXXX	15	21	7.50	20	7.14	41	7.32											3			28	10

- 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: 51

Part fattening: 4

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	%														
XXXXXX	1	18	3.21	6	1.07	24	4.29										1	7		9	7
XXXXXX	2	35	6.25	8	1.43	43	7.68										6	10		23	4
XXXXXX	3	25	4.46	17	3.04	42	7.50										7	16	1	9	9
XXXXXX	4	20	3.57	9	1.61	29	5.18										6	10		6	7
XXXXXX	5	52	9.29	7	1.25	59	10.54										3	11		33	12
XXXXXX	6	38	6.79	12	2.14	50	8.93										3	11		15	21
XXXXXX	7	14	2.50	6	1.07	20	3.57										1	7		3	9
XXXXXX	8	27	4.82	14	2.50	41	7.32										5	12		10	14
XXXXXX	9	15	2.68	5	0.89	20	3.57										1	7		10	2
XXXXXX	10	12	2.14	5	0.89	17	3.04										1	6		4	6
XXXXXX	11	8	1.43	6	1.07	14	2.50											7		3	4
XXXXXX	12	24	4.29	16	2.86	40	7.14										2	19		17	2
XXXXXX	13	44	7.86	12	2.14	56	10.00										8	10		25	13
XXXXXX	14	23	4.11	2	0.36	25	4.46											5		10	10
XXXXXX	15	41	7.32	11	1.96	52	9.29										5	8		28	11

- 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 32 days

Tab. No. 4 (page 1)

Test: 51

Part fattening: 4

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	%	%	%
xxxxxx	1	♂	2198	1567	122	25	1.16	527	23.96	33.59	470	21.37	29.97	996	45.33	63.56	71.32	76.85
		♀	1796	1272	105	22	1.21	424	23.62	33.33	384	21.40	30.21	808	45.02	63.54	70.86	76.71
		♂	<b>1997</b>	<b>1420</b>	<b>113</b>	<b>24</b>	<b>1.18</b>	<b>475</b>	<b>23.81</b>	<b>33.48</b>	<b>427</b>	<b>21.39</b>	<b>30.07</b>	<b>902</b>	<b>45.19</b>	<b>63.55</b>	<b>71.11</b>	<b>76.79</b>
xxxxxx	2	♂	2253	1599	131	32	1.42	508	22.57	31.79	491	21.80	30.70	999	44.37	62.49	71.00	76.81
		♀	2029	1442	117	36	1.79	466	22.96	32.29	435	21.41	30.12	900	44.37	62.42	71.09	76.84
		♂	<b>2141</b>	<b>1521</b>	<b>124</b>	<b>34</b>	<b>1.59</b>	<b>487</b>	<b>22.75</b>	<b>32.03</b>	<b>463</b>	<b>21.62</b>	<b>30.43</b>	<b>950</b>	<b>44.37</b>	<b>62.46</b>	<b>71.04</b>	<b>76.83</b>
xxxxxx	3	♂	2358	1663	131	39	1.65	537	22.78	32.29	496	21.06	29.85	1034	43.84	62.14	70.55	76.10
		♀	2093	1493	117	39	1.87	503	24.02	33.66	438	20.94	29.34	941	44.96	63.00	71.37	76.94
		♂	<b>2225</b>	<b>1578</b>	<b>124</b>	<b>39</b>	<b>1.75</b>	<b>520</b>	<b>23.37</b>	<b>32.94</b>	<b>467</b>	<b>21.00</b>	<b>29.60</b>	<b>987</b>	<b>44.37</b>	<b>62.55</b>	<b>70.93</b>	<b>76.49</b>
xxxxxx	4	♂	2154	1537	120	25	1.18	510	23.69	33.20	469	21.79	30.54	980	45.47	63.74	71.34	76.91
		♀	1896	1339	108	26	1.36	452	23.86	33.77	400	21.11	29.89	852	44.97	63.65	70.65	76.35
		♂	<b>2025</b>	<b>1438</b>	<b>114</b>	<b>26</b>	<b>1.26</b>	<b>481</b>	<b>23.77</b>	<b>33.47</b>	<b>435</b>	<b>21.47</b>	<b>30.24</b>	<b>916</b>	<b>45.24</b>	<b>63.70</b>	<b>71.01</b>	<b>76.65</b>
xxxxxx	5	♂	2223	1581	121	34	1.54	506	22.77	32.02	488	21.94	30.86	994	44.71	62.88	71.10	76.53
		♀	2002	1426	111	32	1.59	464	23.16	32.51	434	21.66	30.41	897	44.82	62.92	71.23	76.78
		♂	<b>2112</b>	<b>1503</b>	<b>116</b>	<b>33</b>	<b>1.56</b>	<b>485</b>	<b>22.95</b>	<b>32.25</b>	<b>461</b>	<b>21.81</b>	<b>30.65</b>	<b>945</b>	<b>44.76</b>	<b>62.90</b>	<b>71.16</b>	<b>76.65</b>
xxxxxx	6	♂	2332	1634	137	34	1.46	513	21.99	31.38	503	21.58	30.79	1016	43.57	62.18	70.07	75.96
		♀	2073	1467	123	34	1.65	482	23.25	32.85	443	21.37	30.20	925	44.62	63.05	70.76	76.70
		♂	<b>2203</b>	<b>1550</b>	<b>130</b>	<b>34</b>	<b>1.55</b>	<b>497</b>	<b>22.58</b>	<b>32.08</b>	<b>473</b>	<b>21.48</b>	<b>30.51</b>	<b>970</b>	<b>44.06</b>	<b>62.59</b>	<b>70.39</b>	<b>76.31</b>

Results of carcass analysis in 32 days

Tab. No. 4 (page 2)

Test: 51

Part fattening: 4

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	%	%	%
xxxxxx	7	♂	2373	1708	130	33	1.38	576	24.26	33.71	520	21.92	30.46	1096	46.18	64.17	71.96	77.43
		♀	1969	1416	111	27	1.39	481	24.44	34.00	434	22.05	30.67	915	46.49	64.67	71.89	77.52
		♂	<b>2171</b>	<b>1562</b>	<b>120</b>	<b>30</b>	<b>1.39</b>	<b>528</b>	<b>24.34</b>	<b>33.84</b>	<b>477</b>	<b>21.98</b>	<b>30.56</b>	<b>1006</b>	<b>46.32</b>	<b>64.40</b>	<b>71.93</b>	<b>77.47</b>
xxxxxx	8	♂	2300	1659	128	34	1.47	555	24.12	33.44	504	21.89	30.35	1058	46.01	63.79	72.13	77.71
		♀	2121	1524	119	32	1.51	502	23.67	32.93	462	21.76	30.28	963	45.43	63.22	71.87	77.46
		♂	<b>2210</b>	<b>1592</b>	<b>124</b>	<b>33</b>	<b>1.49</b>	<b>528</b>	<b>23.90</b>	<b>33.20</b>	<b>483</b>	<b>21.83</b>	<b>30.32</b>	<b>1011</b>	<b>45.73</b>	<b>63.51</b>	<b>72.01</b>	<b>77.59</b>
xxxxxx	9	♂	2321	1683	130	35	1.49	552	23.77	32.77	514	22.14	30.53	1065	45.91	63.31	72.51	78.10
		♀	2136	1522	116	34	1.59	508	23.81	33.40	448	20.97	29.42	956	44.78	62.81	71.29	76.73
		♂	<b>2228</b>	<b>1603</b>	<b>123</b>	<b>34</b>	<b>1.54</b>	<b>530</b>	<b>23.79</b>	<b>33.07</b>	<b>481</b>	<b>21.58</b>	<b>30.00</b>	<b>1011</b>	<b>45.37</b>	<b>63.07</b>	<b>71.93</b>	<b>77.44</b>
xxxxxx	10	♂	1864	1305	109	25	1.34	431	23.13	33.04	403	21.62	30.87	834	44.75	63.92	70.01	75.86
		♀	1621	1135	94	22	1.35	373	22.99	32.84	342	21.12	30.16	715	44.11	62.99	70.02	75.83
		♂	<b>1742</b>	<b>1220</b>	<b>101</b>	<b>23</b>	<b>1.35</b>	<b>402</b>	<b>23.07</b>	<b>32.95</b>	<b>373</b>	<b>21.38</b>	<b>30.54</b>	<b>774</b>	<b>44.45</b>	<b>63.49</b>	<b>70.02</b>	<b>75.84</b>
xxxxxx	11	♂	1603	1112	97	21	1.31	358	22.36	32.22	342	21.37	30.79	701	43.73	63.00	69.40	75.48
		♀	1395	967	85	23	1.62	308	22.06	31.82	288	20.63	29.76	595	42.69	61.58	69.32	75.44
		♂	<b>1499</b>	<b>1039</b>	<b>91</b>	<b>22</b>	<b>1.45</b>	<b>333</b>	<b>22.22</b>	<b>32.03</b>	<b>315</b>	<b>21.02</b>	<b>30.31</b>	<b>648</b>	<b>43.24</b>	<b>62.34</b>	<b>69.37</b>	<b>75.46</b>
xxxxxx	12	♂	2243	1577	136	34	1.52	506	22.54	32.05	498	22.19	31.56	1003	44.73	63.61	70.32	76.40
		♀	2066	1449	124	35	1.69	465	22.51	32.10	443	21.44	30.57	908	43.96	62.67	70.14	76.15
		♂	<b>2154</b>	<b>1513</b>	<b>130</b>	<b>35</b>	<b>1.60</b>	<b>485</b>	<b>22.53</b>	<b>32.07</b>	<b>470</b>	<b>21.83</b>	<b>31.09</b>	<b>956</b>	<b>44.36</b>	<b>63.16</b>	<b>70.23</b>	<b>76.28</b>

Results of carcass analysis in 32 days

Tab. No. 4 (page 3)

Test: 51

Part fattening: 4

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	%	%	%
xxxxxx	13	♂	2300	1629	133	32	1.38	544	23.64	33.37	495	21.50	30.35	1038	45.15	63.72	70.85	76.66
		♀	2105	1497	122	34	1.61	508	24.16	33.95	441	20.96	29.45	949	45.11	63.41	71.15	76.93
		♂	<b>2202</b>	<b>1563</b>	<b>128</b>	<b>33</b>	<b>1.49</b>	<b>526</b>	<b>23.89</b>	<b>33.65</b>	<b>468</b>	<b>21.24</b>	<b>29.92</b>	<b>994</b>	<b>45.13</b>	<b>63.57</b>	<b>70.99</b>	<b>76.78</b>
xxxxxx	14	♂	2193	1577	122	25	1.13	524	23.87	33.19	487	22.20	30.87	1010	46.07	64.05	71.93	77.47
		♀	1930	1354	112	22	1.16	456	23.62	33.66	404	20.91	29.81	859	44.53	63.47	70.16	75.96
		♂	<b>2062</b>	<b>1466</b>	<b>117</b>	<b>24</b>	<b>1.14</b>	<b>490</b>	<b>23.75</b>	<b>33.41</b>	<b>445</b>	<b>21.60</b>	<b>30.38</b>	<b>935</b>	<b>45.35</b>	<b>63.79</b>	<b>71.10</b>	<b>76.76</b>
xxxxxx	15	♂	2186	1496	131	31	1.42	468	21.42	31.31	472	21.60	31.56	940	43.02	62.86	68.43	74.44
		♀	2031	1426	116	36	1.75	456	22.47	32.00	439	21.60	30.75	895	44.07	62.76	70.22	75.92
		♂	<b>2108</b>	<b>1461</b>	<b>124</b>	<b>33</b>	<b>1.58</b>	<b>462</b>	<b>21.93</b>	<b>31.65</b>	<b>455</b>	<b>21.60</b>	<b>31.17</b>	<b>918</b>	<b>43.52</b>	<b>62.81</b>	<b>69.29</b>	<b>75.15</b>

**Statistical analysis - Cocks on the age of 32 days**

**Tab. No. 5a**

Test: 51

Part fattening: 4

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	%	%
XXXXXX	1	267	2109.14	193.68	9.18	11.85	0.56	0.40
XXXXXX	2	254	2122.56	238.81	11.25	14.98	0.71	0.51
XXXXXX	3	253	2326.17	235.04	10.10	14.78	0.64	0.45
XXXXXX	4	266	2084.96	174.17	8.35	10.68	0.51	0.37
XXXXXX	5	256	2120.39	237.11	11.18	14.82	0.70	0.50
XXXXXX	6	259	2319.77	229.35	9.89	14.25	0.61	0.44
XXXXXX	7	271	2298.45	226.45	9.85	13.76	0.60	0.43
XXXXXX	8	256	2243.48	238.85	10.65	14.93	0.67	0.48
XXXXXX	9	270	2208.78	244.28	11.06	14.87	0.67	0.48
XXXXXX	10	273	1709.05	187.74	10.99	11.36	0.66	0.48
XXXXXX	11	271	1585.50	178.05	11.23	10.82	0.68	0.49
XXXXXX	12	255	2220.35	260.58	11.74	16.32	0.73	0.53
XXXXXX	13	244	2226.39	263.51	11.84	16.87	0.76	0.54
XXXXXX	14	267	2155.13	199.00	9.23	12.18	0.57	0.40
XXXXXX	15	249	2217.59	224.64	10.13	14.24	0.64	0.46

**Statistical analysis - Hens on the age of 32 days**

**Tab. No. 5b**

Test: 51

Part fattening: 4

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	269	1807.51	150.75	8.34	9.19	0.51	0.36
xxxxx	2	263	1961.25	206.80	10.54	12.75	0.65	0.47
xxxxx	3	265	2060.79	202.27	9.82	12.43	0.60	0.43
xxxxx	4	265	1872.30	185.25	9.89	11.38	0.61	0.43
xxxxx	5	245	2024.86	231.74	11.44	14.81	0.73	0.52
xxxxx	6	251	2000.32	187.63	9.38	11.84	0.59	0.42
xxxxx	7	269	1986.95	185.19	9.32	11.29	0.57	0.41
xxxxx	8	263	2047.38	198.16	9.68	12.22	0.60	0.43
xxxxx	9	270	2095.48	198.47	9.47	12.08	0.58	0.41
xxxxx	10	270	1541.04	194.65	12.63	11.85	0.77	0.55
xxxxx	11	275	1385.96	149.54	10.79	9.02	0.65	0.47
xxxxx	12	265	2052.08	204.99	9.99	12.59	0.61	0.44
xxxxx	13	260	2040.38	199.79	9.79	12.39	0.61	0.43
xxxxx	14	268	1908.81	175.15	9.18	10.70	0.56	0.40
xxxxx	15	259	2026.41	215.35	10.63	13.38	0.66	0.47