



**MEZINÁRODNÍ TESTOVÁNÍ DRŮBEŽE**  
**ÚSTRAŠICE** státní podnik

390 02 Tábor 2

Česká republika

**BROILER FEEDING TEST No. 1242**

**XXXXX**

**3 September – 7 October 2024**

**Study Investigator:**  
**Associate Investigator:**

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**November 2024**

## Basic tests information

### The basic dates

Beginning of the test: 12 August 2024 (setting in the incubator)  
3 September 2024 (transfer to the chicken house)  
End of the test: 7 October 2024

## Material and methods

### Material

In total there were 8400 day old chicks of xxxxx and xxxxx. Day old chicks were randomly distributed into 6 dietary treatments.

### Experimental treatments

Treatment No.	Treatment	Genotype	No. of pen	Birds per pen	No. of chick
1	T1	xxxxx	10	140	1400
2	T2	xxxxx	10	140	1400
3	T3	xxxxx	10	140	1400
4	T4	xxxxx	10	140	1400
5	T5	xxxxx	10	140	1400
6	T6	xxxxx	10	140	1400

Origin of hatching eggs:

xxxxx, age of the breeding flock was 39 weeks.

xxxxx

### Housing system

Chickens were kept in the windowless chicken house with full climatic control, on deep litter. Drinking water was supplied ad libitum by nipple drinkers. Each pen was equipped with manually filled tube feeders. Bedding material was wood shaving.

### **Lighting programme**

Day 1 – 7	23 hours of light + 1 hour of darkness
Day 8 – 31	18 hours of light + 6 hours of darkness
Day 32 – 34	23 hours of light + 1 hour of darkness

### **Stocking density**

17,2 broilers per square meter

### **Veterinary precautions**

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

### **Feed**

Feed was produced in xxxxx

Day 1 – 10	Starter (BR1)
Day 11 – 21	Grower A (BR2 A)
Day 22 – 28	Grower B (BR2 B)
Day 29 – 34	Finisher (BR3)

## **Parameters recorded**

### **Live weight**

Live weight was measured on day 1 and 10 (all the birds in each pen were weighed altogether), 21 and 28 (all the birds were weighed individually, without fasting). On day 34 birds were weighed individually, after 12 hours of fasting.

### **Weight gain**

Weight gain per phase and average daily weight gains were calculated for the periods 1 – 10 days, 11 – 21 days, 22 – 28 days, 29 – 34 days and for the overall experiment (1 – 34 days).

### **Feed conversion ratio**

Feed consumption and feed conversion ratio to gain ratio were calculated for the periods 1 – 10 days, 11 – 21 days, 22 – 28 days, 29 – 34 days and for the overall experiment (1 – 34 days). The calculation was included weight of deaths.

### **Feed consumption**

Feed consumption was measured per pen for the feed – starter, grower and finisher.

### **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. Mortality was recorded for the periods 1 – 10 days, 11 – 21 days, 22 – 28 days, 29 – 34 days and 1 – 34 days.

### **Carcass analysis**

The carcass analysis was done in 10 birds per each pen (5 ♂ and 5 ♀) on day 34.

## **Results**

Tab. No.     **1 Hatchability**

**2 Performance results:**

**2a Body weight**

**2b Weight gain**

**2c Feed conversion ratio per 1 kg of live weight**

**2d Feed consumption per 1 kg of weight gain**

**2e Feed consumption**

**3 Mortality**

**4 Carcass analysis**

**5 Statistical analysis of body weight at the age of 34 days**

(average body weight, standard deviation, coefficient of variation)

**6 Performance results per pen:**

**6a Body weight**

**6b Weight gain**

**6c Feed conversion ratio per 1 kg of live weight**

**6d Feed consumption per 1 kg of weight gain**

**6e Feed consumption**

**Results of incubation and hatching**

**Tab. No. 1**

Treatment	Tr. No.	Fertility	Hatchability		Birds housed	Average weight	
			Set eggs	Fertile eggs		Hatching eggs	Day old chicks
		%	%	%		g	g
T1	1	96.10	88.90	92.50	1400	63.28	45.05
T2	2	96.70	90.00	93.10	1400	63.72	42.36
T3	3	97.20	90.60	93.10	1400	63.89	42.26
T4	4	96.70	89.40	92.50	1400	64.33	42.84
T5	5	96.10	90.60	94.20	1400	64.33	42.06
T6	6	95.00	85.60	90.10	1400	64.56	43.58

**Body weight per phases**

**Tab. No. 2a**

Treatment	Tr. No.	Day 1		Day 10		Day 21		Day 28		Day 34	
		Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight
			g		g		g		g		
T1	1	1400	45.05	1390	296.09	1375	1087.83	1364	1756.58	1359	2312.75
T2	2	1400	42.36	1398	285.51	1384	1114.78	1362	1824.30	1347	2394.54
T3	3	1400	42.26	1399	287.63	1382	1111.40	1370	1836.47	1361	2368.09
T4	4	1400	42.84	1394	293.79	1367	1104.70	1351	1845.28	1342	2369.15
T5	5	1400	42.06	1396	291.05	1374	1115.82	1363	1837.52	1354	2387.27
T6	6	1400	43.58	1396	296.85	1378	1114.36	1364	1841.52	1355	2393.45

**Weight gain per phases**

**Tab. No. 2b**

Treatment	Tr. No.	Day 1 - 10		Day 11 - 21		Day 22 - 28		Day 29 - 34		Day 1 - 34	
		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
T1	1	251.04	25.10	791.73	71.98	668.76	95.54	556.17	92.69	2267.70	66.70
T2	2	243.15	24.32	829.26	75.39	709.52	101.36	570.25	95.04	2352.19	69.18
T3	3	245.37	24.54	823.77	74.89	725.07	103.58	531.62	88.60	2325.83	68.41
T4	4	250.95	25.09	810.91	73.72	740.57	105.80	523.87	87.31	2326.31	68.42
T5	5	248.99	24.90	824.77	74.98	721.71	103.10	549.75	91.62	2345.21	68.98
T6	6	253.27	25.33	817.51	74.32	727.16	103.88	551.93	91.99	2349.87	69.11



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

Tab. No. 2c

Treatment	Tr. No.	Feed conversion ratio			
		Day 10	Day 21	Day 28	Day 34
		g/kg LW	g/kg LW	g/kg LW	g/kg LW
T1	1	1068.39	1211.95	1361.71	1505.89
T2	2	1132.28	1260.29	1400.17	1546.27
T3	3	1124.05	1266.39	1374.16	1552.22
T4	4	1074.08	1232.07	1346.73	1531.90
T5	5	1095.51	1251.72	1379.12	1548.64
T6	6	1078.34	1249.48	1373.54	1542.86

**Feed consumption per 1 kg of weight gain (WG)****Tab. No. 2d**

<b>Treatment</b>	<b>Tr. No.</b>	<b>Feed consumption per 1 kg of weight gain</b>				
		<b>1-10 days</b>	<b>11-21 days</b>	<b>22-28 days</b>	<b>29-34 days</b>	<b>1-34 days</b>
		<b>g/kg WG</b>	<b>g/kg WG</b>	<b>g/kg WG</b>	<b>g/kg WG</b>	<b>g/kg WG</b>
T1	1	1260.84	920.23	1609.67	1968.29	1536.45
T2	2	1329.55	968.86	1625.79	2027.12	1574.80
T3	3	1317.66	973.79	1542.05	2177.84	1580.93
T4	4	1257.48	943.76	1521.92	2198.58	1560.95
T5	5	1280.79	963.84	1579.44	2124.98	1577.02
T6	6	1264.00	960.53	1567.33	2118.36	1572.10

**Feed consumption per phases**

**Tab. No. 2e**

Treatment	Tr. No.	Feed consumption				
		Starter (1-10 days)	Grower (11-21 days)	Grower (22-28 days)	Finisher (29-34 days)	Total
		kg	kg	kg	kg	kg
T1	1	441.60	1384.70	1465.00	1483.40	4774.70
T2	2	452.50	1500.60	1562.10	1546.20	5061.40
T3	3	452.50	1503.50	1528.80	1571.90	5056.70
T4	4	441.30	1437.60	1519.00	1540.80	4938.70
T5	5	445.90	1488.20	1552.10	1580.00	5066.20
T6	6	447.90	1483.20	1550.60	1579.90	5061.60

**Mortality**

**Tab. No. 3**

Treatment	Tr. No.	Mortality in the period											Mortality according causes														
		Day 1 - 10		Day 11 - 21		Day 22 - 28		Day 29 - 34		Day 1 - 34			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		birds	g	birds	g	birds	g	birds	g	birds	g	%															
T1	1	10	1764	15	9386	11	9905	5	6599	41	27654	2.93									7	26			8		
T2	2	2	492	14	6377	22	18986	15	21996	53	47851	3.79									10	32			11		
T3	3	1	171	17	8427	12	11397	9	14761	39	34756	2.79									8	27			4		
T4	4	6	1322	27	13542	16	15244	9	14387	58	44495	4.14									14	32			12		
T5	5	4	723	22	11303	11	11283	9	15718	46	39027	3.29									6	28			12		
T6	6	4	960	18	8968	14	13088	9	14522	45	37538	3.21									6	26			13		

- Causes:
- |                         |                                    |   |
|-------------------------|------------------------------------|---|
| 1 – Viral diseases      | 6 – Wounds                         | 11 – Sudden death syndrome              |
| 2 – Bacterial diseases  | 7 – Digestive track diseases       | 12 – Cannibalism                        |
| 3 – Moulds diseases     | 8 – Respiratory tract diseases     | 13 – Yolk sac. infam.                   |
| 4 – Parasitary diseases | 9 – Reproduction tract diseases    | 14 – Culling and other causes           |
| 5 – Tumors              | 10 – Locomotion apparatus diseases | 15 – Sampling (excluded of calculation) |

Results of carcass analysis

Tab. No. 4

Treatment	Tr. No.	Sex	Weight				Ratio of abd. fat to live weight	Breast muscles without skin			Thigh muscles with skin			Total muscles			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	%	%	%
T1	1	♂	2516	1752	147	27	1.09	593	23.59	33.88	531	21.12	30.32	1125	44.71	64.20	69.64	75.46
		♀	2144	1514	139	29	1.34	508	23.71	33.57	460	21.45	30.37	968	45.16	63.94	70.64	77.14
		♂	<b>2330</b>	<b>1633</b>	<b>143</b>	<b>28</b>	<b>1.20</b>	<b>551</b>	<b>23.65</b>	<b>33.73</b>	<b>496</b>	<b>21.27</b>	<b>30.34</b>	<b>1046</b>	<b>44.92</b>	<b>64.08</b>	<b>70.10</b>	<b>76.23</b>
T2	2	♂	2602	1845	150	34	1.31	618	23.75	33.48	566	21.75	30.67	1184	45.50	64.15	70.92	76.70
		♀	2231	1592	148	36	1.63	532	23.85	33.43	483	21.64	30.34	1015	45.49	63.76	71.34	77.97
		♂	<b>2416</b>	<b>1718</b>	<b>149</b>	<b>35</b>	<b>1.46</b>	<b>575</b>	<b>23.79</b>	<b>33.46</b>	<b>524</b>	<b>21.70</b>	<b>30.52</b>	<b>1099</b>	<b>45.50</b>	<b>63.97</b>	<b>71.12</b>	<b>77.28</b>
T3	3	♂	2578	1829	152	34	1.30	615	23.86	33.64	549	21.30	30.03	1164	45.16	63.67	70.93	76.81
		♀	2245	1613	144	33	1.47	558	24.84	34.57	482	21.45	29.85	1039	46.29	64.42	71.86	78.29
		♂	<b>2411</b>	<b>1721</b>	<b>148</b>	<b>33</b>	<b>1.38</b>	<b>586</b>	<b>24.32</b>	<b>34.08</b>	<b>515</b>	<b>21.37</b>	<b>29.95</b>	<b>1102</b>	<b>45.69</b>	<b>64.02</b>	<b>71.36</b>	<b>77.50</b>
T4	4	♂	2599	1842	152	39	1.50	610	23.47	33.12	558	21.49	30.32	1169	44.96	63.44	70.87	76.70
		♀	2258	1610	142	37	1.64	541	23.95	33.58	485	21.47	30.11	1026	45.42	63.69	71.32	77.60
		♂	<b>2429</b>	<b>1726</b>	<b>147</b>	<b>38</b>	<b>1.57</b>	<b>575</b>	<b>23.69</b>	<b>33.34</b>	<b>522</b>	<b>21.48</b>	<b>30.22</b>	<b>1097</b>	<b>45.17</b>	<b>63.56</b>	<b>71.08</b>	<b>77.12</b>
T5	5	♂	2580	1833	150	35	1.35	612	23.73	33.41	548	21.26	29.92	1161	44.99	63.33	71.04	76.86
		♀	2252	1617	142	37	1.64	559	24.81	34.56	480	21.33	29.71	1039	46.14	64.26	71.80	78.11
		♂	<b>2416</b>	<b>1725</b>	<b>146</b>	<b>36</b>	<b>1.49</b>	<b>585</b>	<b>24.24</b>	<b>33.95</b>	<b>514</b>	<b>21.29</b>	<b>29.82</b>	<b>1100</b>	<b>45.53</b>	<b>63.77</b>	<b>71.39</b>	<b>77.45</b>
T6	6	♂	2567	1826	152	39	1.51	612	23.82	33.49	550	21.43	30.13	1162	45.25	63.62	71.12	77.06
		♀	2232	1598	143	39	1.75	545	24.41	34.10	478	21.41	29.91	1023	45.82	64.01	71.58	77.97
		♂	<b>2400</b>	<b>1712</b>	<b>148</b>	<b>39</b>	<b>1.62</b>	<b>578</b>	<b>24.09</b>	<b>33.77</b>	<b>514</b>	<b>21.42</b>	<b>30.03</b>	<b>1092</b>	<b>45.51</b>	<b>63.80</b>	<b>71.33</b>	<b>77.48</b>

Statistical analysis - Body weight at 34 days of age

Tab. No. 5

Treatment	Tr. No.	Cocks				Hens			
		Number of birds	Average body weight	Standard deviation	Coefficient of variation	Number of birds	Average body weight	Standard deviation	Coefficient of variation
			g/birds	g/birds	%		g/birds	g/birds	%
T1	1	675	2492.46	234.39	9.40	684	2135.41	234.03	10.96
T2	2	681	2555.11	229.49	8.98	666	2230.36	233.22	10.46
T3	3	685	2528.69	233.00	9.21	676	2205.36	227.59	10.32
T4	4	671	2535.90	242.69	9.57	671	2202.40	244.94	11.12
T5	5	698	2548.14	237.56	9.32	656	2216.10	234.34	10.57
T6	6	693	2543.19	226.10	8.89	662	2236.69	228.74	10.23

**Body weight (BW) per box**

**Tab. No. 6a (page 1)**

Treatment	Tr. No.	Box No.	Day 1		Day 10		Day 21		Day 28		Day 34	
			Birds	BW	Birds	BW	Birds	BW	Birds	BW	Birds	BW
				g		g		g		g		
T1	1	4	140	44.79	139	286.33	137	1068.91	137	1716.79	137	2248.03
		12	140	45.36	139	313.00	137	1087.01	135	1776.96	135	2352.74
		15	140	45.64	138	308.00	136	1099.71	135	1779.93	135	2378.96
		19	140	45.43	140	300.71	139	1084.89	139	1751.87	137	2334.60
		26	140	44.29	140	277.86	140	1078.43	140	1790.71	139	2336.26
		31	140	45.57	138	298.55	138	1101.52	138	1767.61	138	2307.17
		39	140	44.86	140	310.71	135	1094.22	132	1793.41	132	2318.48
		46	140	44.43	139	289.21	138	1080.51	137	1697.45	137	2288.69
		52	140	45.21	138	290.58	137	1071.39	134	1767.91	134	2302.69
		60	140	44.93	139	285.97	138	1111.88	137	1724.67	135	2260.37
T2	2	1	140	40.71	140	277.86	137	1092.92	134	1813.21	132	2450.08
		14	140	42.36	140	282.86	139	1137.48	139	1779.71	138	2378.33
		21	140	42.86	140	302.14	140	1138.79	137	1804.74	137	2398.61
		25	140	43.64	140	283.57	139	1120.79	137	1867.52	135	2400.30
		34	140	42.86	139	284.17	136	1097.72	135	1790.37	134	2380.75
		38	140	41.07	139	281.29	138	1095.72	136	1830.37	134	2305.82
		40	140	42.79	140	277.86	139	1122.09	135	1845.48	135	2470.59
		47	140	43.50	140	279.29	139	1123.38	138	1793.33	137	2357.15
		54	140	42.86	140	284.29	139	1108.92	134	1856.04	133	2428.72
		59	140	40.93	140	301.79	138	1108.91	137	1863.36	132	2376.52
T3	3	3	140	43.50	140	294.29	139	1121.80	139	1766.76	139	2350.36
		7	140	42.86	139	289.93	138	1132.03	138	1886.52	137	2430.36
		13	140	42.64	140	296.43	137	1085.04	137	1800.73	137	2330.29
		20	140	42.50	140	288.57	140	1098.50	138	1810.14	138	2376.67
		30	140	39.71	140	279.64	136	1136.76	133	1906.84	130	2423.85
		36	140	43.43	140	277.86	138	1130.07	136	1840.00	135	2423.78
		42	140	42.07	140	311.00	140	1085.07	139	1783.81	139	2284.03
		48	140	41.86	140	276.43	140	1101.14	140	1805.21	139	2356.04
		53	140	42.43	140	282.14	138	1093.62	138	1856.23	137	2421.17
		56	140	41.57	140	280.00	136	1131.03	132	1915.53	130	2285.38

Body weight (BW) per box

Tab. No. 6b (page 2)

Treatment	Tr. No.	Box No.	Day 1		Day 10		Day 21		Day 28		Day 34	
			Birds	BW	Birds	BW	Birds	BW	Birds	BW	Birds	BW
				g		g		g		g		
T4	4	6	140	43.14	140	283.57	137	1092.26	137	1838.83	137	2415.40
		8	140	43.29	137	286.86	134	1157.99	132	1898.94	132	2444.17
		10	140	43.86	139	284.17	135	1097.41	133	1867.74	132	2275.76
		18	140	42.86	139	310.07	137	1106.28	136	1809.41	136	2343.68
		22	140	42.21	140	289.29	138	1091.88	136	1833.01	135	2293.41
		27	140	43.36	140	297.86	138	1141.23	136	1908.46	136	2421.99
		32	140	43.07	140	309.00	139	1061.01	137	1811.75	137	2355.04
		43	140	42.36	139	289.93	137	1056.28	134	1761.42	132	2305.83
		50	140	42.29	140	277.86	136	1132.28	136	1838.75	133	2408.95
		58	140	42.00	140	309.29	136	1112.21	134	1886.19	132	2426.67
T5	5	5	140	41.64	139	294.24	134	1133.43	133	1856.47	132	2405.00
		11	140	41.43	140	310.71	138	1106.01	138	1764.57	137	2292.04
		16	140	41.29	140	295.00	138	1097.32	136	1808.24	135	2397.33
		23	140	40.93	140	277.86	139	1147.12	138	1886.16	138	2410.43
		29	140	43.00	138	284.06	137	1155.77	135	1914.37	134	2445.67
		33	140	42.14	139	302.16	138	1104.28	136	1769.49	136	2396.62
		37	140	41.71	140	293.57	133	1121.58	132	1814.02	132	2320.15
		44	140	42.14	140	277.86	140	1080.64	139	1792.66	136	2299.26
		49	140	43.71	140	298.57	139	1110.07	139	1838.06	137	2470.00
		55	140	42.57	140	276.43	138	1103.26	137	1932.12	137	2435.04
T6	6	2	140	42.36	140	308.57	139	1152.09	133	1915.56	133	2464.66
		9	140	44.21	139	314.39	135	1110.15	135	1848.74	135	2379.33
		17	140	45.00	139	287.77	137	1065.77	137	1783.36	137	2374.67
		24	140	44.71	140	295.00	139	1122.09	138	1807.90	138	2363.77
		28	140	45.50	140	289.29	139	1155.76	137	1830.29	137	2433.58
		35	140	40.93	140	285.00	138	1105.00	136	1829.49	134	2337.16
		41	140	41.29	140	306.43	140	1139.29	139	1837.77	137	2438.25
		45	140	42.64	140	297.14	140	1119.43	139	1819.50	137	2389.42
		51	140	44.57	138	292.03	132	1063.03	132	1796.14	132	2361.59
		57	140	44.57	140	292.86	139	1107.34	138	1946.81	135	2391.70



Weight gain (WG) and daily weight gain (DWG) per box

Tab. No. 6b (page 1)

Treatment	Tr. No.	Box No.	Day 1 - 10		Day 11 - 21		Day 22 - 28		Day 29 - 34		Day 1 - 34	
			WG	DWG	WG	DWG	WG	DWG	WG	DWG	WG	DWG
			g	g	g	g	g	g	g	g	g	g
T1	1	4	241.54	24.15	782.57	71.14	647.88	92.55	531.24	88.54	2203.24	64.80
		12	267.64	26.76	774.01	70.36	689.96	98.57	575.78	95.96	2307.38	67.86
		15	262.36	26.24	791.71	71.97	680.22	97.17	599.04	99.84	2333.32	68.63
		19	255.28	25.53	784.18	71.29	666.98	95.28	582.73	97.12	2289.17	67.33
		26	233.57	23.36	800.57	72.78	712.29	101.76	545.54	90.92	2291.97	67.41
		31	252.98	25.30	802.97	73.00	666.09	95.16	539.57	89.93	2261.60	66.52
		39	265.85	26.59	783.51	71.23	699.19	99.88	525.08	87.51	2273.62	66.87
		46	244.78	24.48	791.30	71.94	616.94	88.13	591.24	98.54	2244.26	66.01
		52	245.37	24.54	780.81	70.98	696.52	99.50	534.78	89.13	2257.48	66.40
		60	241.04	24.10	825.91	75.08	612.79	87.54	535.70	89.28	2215.44	65.16
T2	2	1	237.15	23.71	815.06	74.10	720.29	102.90	636.87	106.14	2409.37	70.86
		14	240.50	24.05	854.62	77.69	642.23	91.75	598.62	99.77	2335.97	68.71
		21	259.28	25.93	836.64	76.06	665.96	95.14	593.87	98.98	2355.75	69.29
		25	239.93	23.99	837.22	76.11	746.73	106.68	532.78	88.80	2356.66	69.31
		34	241.31	24.13	813.55	73.96	692.65	98.95	590.38	98.40	2337.89	68.76
		38	240.22	24.02	814.43	74.04	734.64	104.95	475.45	79.24	2264.75	66.61
		40	235.07	23.51	844.23	76.75	723.40	103.34	625.11	104.19	2427.80	71.41
		47	235.79	23.58	844.10	76.74	669.95	95.71	563.82	93.97	2313.65	68.05
		54	241.43	24.14	824.64	74.97	747.12	106.73	572.68	95.45	2385.86	70.17
		59	260.86	26.09	807.13	73.38	754.44	107.78	513.16	85.53	2335.59	68.69
T3	3	3	250.79	25.08	827.51	75.23	644.96	92.14	583.60	97.27	2306.86	67.85
		7	247.07	24.71	842.10	76.55	754.49	107.78	543.84	90.64	2387.50	70.22
		13	253.79	25.38	788.61	71.69	715.69	102.24	529.56	88.26	2287.65	67.28
		20	246.07	24.61	809.93	73.63	711.64	101.66	566.52	94.42	2334.17	68.65
		30	239.93	23.99	857.12	77.92	770.08	110.01	517.00	86.17	2384.14	70.12
		36	234.43	23.44	852.22	77.47	709.93	101.42	583.78	97.30	2380.35	70.01
		42	268.93	26.89	774.07	70.37	698.74	99.82	500.22	83.37	2241.96	65.94
		48	234.57	23.46	824.71	74.97	704.07	100.58	550.83	91.80	2314.18	68.06
		53	239.71	23.97	811.48	73.77	762.61	108.94	564.94	94.16	2378.74	69.96
		56	238.43	23.84	851.03	77.37	784.50	112.07	369.85	61.64	2243.81	65.99

Weight gain (WG) and daily weight gain (DWG) per box

Tab. No. 6b (page 2)

Treatment	Tr. No.	Box No.	Day 1 - 10		Day 11 - 21		Day 22 - 28		Day 29 - 34		Day 1 - 34	
			WG	DWG	WG	DWG	WG	DWG	WG	DWG	WG	DWG
			g	g	g	g	g	g	g	g	g	g
T4	4	6	240.43	24.04	808.69	73.52	746.57	106.65	576.57	96.09	2372.26	69.77
		8	243.57	24.36	871.12	79.19	740.95	105.85	545.23	90.87	2400.88	70.61
		10	240.31	24.03	813.23	73.93	770.34	110.05	408.01	68.00	2231.90	65.64
		18	267.21	26.72	796.21	72.38	703.13	100.45	534.26	89.04	2300.82	67.67
		22	247.08	24.71	802.60	72.96	741.13	105.88	460.39	76.73	2251.20	66.21
		27	254.50	25.45	843.37	76.67	767.22	109.60	513.53	85.59	2378.63	69.96
		32	265.93	26.59	752.01	68.36	750.74	107.25	543.28	90.55	2311.97	68.00
		43	247.57	24.76	766.35	69.67	705.14	100.73	544.42	90.74	2263.47	66.57
		50	235.57	23.56	854.42	77.67	706.47	100.92	570.20	95.03	2366.66	69.61
		58	267.29	26.73	802.92	72.99	773.99	110.57	540.47	90.08	2384.67	70.14
T5	5	5	252.60	25.26	839.19	76.29	723.03	103.29	548.53	91.42	2363.36	69.51
		11	269.28	26.93	795.30	72.30	658.55	94.08	527.48	87.91	2250.61	66.19
		16	253.71	25.37	802.32	72.94	710.92	101.56	589.10	98.18	2356.04	69.30
		23	236.93	23.69	869.27	79.02	739.04	105.58	524.28	87.38	2369.50	69.69
		29	241.06	24.11	871.71	79.25	758.60	108.37	531.30	88.55	2402.67	70.67
		33	260.02	26.00	802.12	72.92	665.21	95.03	627.13	104.52	2354.48	69.25
		37	251.86	25.19	828.01	75.27	692.44	98.92	506.14	84.36	2278.44	67.01
		44	235.72	23.57	802.79	72.98	712.02	101.72	506.60	84.43	2257.12	66.39
		49	254.86	25.49	811.50	73.77	727.99	104.00	631.94	105.32	2426.29	71.36
				55	233.86	23.39	826.83	75.17	828.86	118.41	502.92	83.82
T6	6	2	266.21	26.62	843.51	76.68	763.48	109.07	549.10	91.52	2422.30	71.24
		9	270.18	27.02	795.76	72.34	738.59	105.51	530.59	88.43	2335.12	68.68
		17	242.77	24.28	778.00	70.73	717.59	102.51	591.31	98.55	2329.67	68.52
		24	250.29	25.03	827.09	75.19	685.81	97.97	555.87	92.64	2319.06	68.21
		28	243.79	24.38	866.47	78.77	674.54	96.36	603.28	100.55	2388.08	70.24
		35	244.07	24.41	820.00	74.55	724.49	103.50	507.68	84.61	2296.23	67.54
		41	265.14	26.51	832.86	75.71	698.48	99.78	600.48	100.08	2396.96	70.50
		45	254.50	25.45	822.29	74.75	700.07	100.01	569.92	94.99	2346.78	69.02
		51	247.46	24.75	771.00	70.09	733.11	104.73	565.45	94.24	2317.02	68.15
				57	248.29	24.83	814.48	74.04	839.47	119.92	444.89	74.15

**Feed conversion ratio (Feed konsum. per 1 kg of live weight) per box** **Tab. No. 6c (page 1)**

Treatment	Tr. No.	Box no.	Feed conversion ratio			
			Day 10	Day 21	Day 28	Day 34
			g/kg LW	g/kg LW	g/kg LW	g/kg LW
T1	1	4	1032.71	1210.62	1343.28	1528.14
		12	1051.45	1243.84	1365.71	1493.24
		15	1045.09	1188.45	1369.51	1479.05
		19	1064.13	1207.77	1371.88	1499.51
		26	1143.96	1197.51	1349.82	1509.89
		31	1065.08	1214.54	1334.71	1483.14
		39	1027.59	1214.49	1356.75	1504.53
		46	1081.82	1251.07	1432.08	1536.73
		52	1058.21	1202.18	1340.39	1497.18
		60	1123.40	1189.64	1355.09	1529.49
T2	2	1	1156.81	1266.16	1420.55	1527.43
		14	1166.67	1273.51	1452.33	1568.22
		21	1085.11	1257.61	1438.40	1545.63
		25	1130.98	1290.90	1389.34	1582.61
		34	1151.95	1281.14	1427.41	1566.16
		38	1215.12	1268.51	1382.72	1596.51
		40	1138.82	1206.24	1336.65	1466.47
		47	1135.55	1241.82	1415.16	1574.00
		54	1128.14	1266.07	1387.64	1540.87
		59	1024.85	1252.08	1355.96	1499.22
T3	3	3	1004.85	1220.42	1395.93	1566.66
		7	1129.20	1257.97	1305.58	1514.50
		13	1110.84	1289.78	1410.63	1581.48
		20	1153.47	1295.92	1405.32	1547.62
		30	1169.86	1252.25	1352.13	1535.31
		36	1200.51	1255.92	1394.42	1557.45
		42	1022.05	1294.19	1417.06	1589.58
		48	1126.61	1253.89	1378.15	1547.80
		53	1156.96	1295.95	1366.38	1536.46
		56	1183.67	1250.46	1322.28	1547.82

**Feed conversion ratio (Feed konsum. per 1 kg of live weight) per box** **Tab. No. 6c (page 2)**

Treatment	Tr. No.	Box no.	Feed conversion ratio			
			Day 10	Day 21	Day 28	Day 34
			g/kg LW	g/kg LW	g/kg LW	g/kg LW
T4	4	6	1085.64	1245.81	1332.36	1499.82
		8	1130.01	1220.26	1346.18	1532.38
		10	1103.49	1259.05	1305.15	1524.27
		18	1063.04	1234.74	1377.87	1524.11
		22	1076.54	1210.26	1330.57	1514.37
		27	1095.92	1211.06	1306.17	1518.21
		32	1007.86	1289.21	1391.05	1582.90
		43	1018.24	1231.18	1386.50	1570.48
		50	1133.68	1207.11	1358.88	1544.36
		58	1036.95	1216.22	1337.96	1510.11
T5	5	5	1078.07	1247.97	1376.72	1568.83
		11	1006.90	1239.58	1405.05	1566.52
		16	1079.90	1275.41	1397.26	1540.07
		23	1177.38	1233.79	1373.19	1542.47
		29	1160.17	1224.96	1343.43	1529.53
		33	1064.79	1231.01	1418.97	1553.36
		37	1048.66	1271.87	1403.82	1600.86
		44	1149.10	1275.03	1381.89	1564.52
		49	1047.85	1261.23	1380.29	1512.96
		55	1162.79	1258.84	1318.95	1514.18
T6	6	2	1067.13	1210.90	1345.02	1535.92
		9	1029.48	1251.65	1354.75	1532.84
		17	1062.45	1288.78	1393.90	1537.51
		24	1104.12	1242.22	1392.72	1548.80
		28	1096.30	1230.59	1413.52	1551.78
		35	1117.79	1278.99	1398.52	1577.97
		41	1090.91	1277.74	1419.92	1560.15
		45	1079.33	1191.93	1337.84	1483.61
		51	1047.42	1276.39	1388.83	1563.13
		57	1092.68	1252.22	1297.55	1538.91

Feed consumption per 1 kg of weight gain (WG) per box

Tab. No. 6d (page 1)

Treatment	Tr. No.	Box no.	Feed consumption per 1 kg of weight gain				
			1-10 days	11-21 days	22-28 days	29-34 days	1-34 days
			g/kg WG	g/kg WG	g/kg WG	g/kg WG	g/kg WG
T1	1	4	1224.74	932.14	1563.77	2128.33	1559.79
		12	1231.13	939.64	1562.50	1892.45	1523.38
		15	1228.29	894.57	1668.67	1807.84	1508.85
		19	1253.50	911.70	1639.52	1892.82	1529.63
		26	1360.88	903.00	1580.43	2040.57	1539.13
		31	1258.05	926.51	1533.94	1970.19	1513.43
		39	1200.98	919.07	1590.76	2022.80	1535.40
		46	1278.72	961.46	1754.66	1839.51	1567.66
		52	1254.00	915.25	1561.39	2023.44	1528.16
		60	1333.78	899.87	1659.42	2113.05	1561.28
T2	2	1	1355.40	969.19	1667.02	1840.08	1554.24
		14	1372.16	982.34	1769.91	1919.27	1596.95
		21	1264.48	969.96	1758.62	1874.39	1574.18
		25	1336.69	1003.65	1540.03	2287.10	1612.56
		34	1357.23	978.69	1664.07	1995.68	1595.90
		38	1422.62	955.62	1556.60	2463.29	1626.30
		40	1346.12	922.99	1547.30	1855.67	1492.97
		47	1345.05	959.01	1710.24	2090.02	1603.99
		54	1328.42	975.55	1576.10	2052.27	1569.39
		59	1185.66	971.59	1510.93	2052.54	1526.19
T3	3	3	1179.15	956.00	1702.18	2084.57	1596.38
		7	1325.77	967.74	1377.26	2241.79	1542.05
		13	1297.48	983.72	1596.12	2166.78	1611.44
		20	1352.69	993.17	1577.29	2005.63	1576.06
		30	1363.48	958.98	1505.59	2253.19	1562.17
		36	1422.92	957.98	1620.12	2087.78	1586.65
		42	1181.62	1001.54	1610.23	2206.24	1619.57
		48	1327.67	971.31	1572.49	2111.49	1575.89
		53	1361.75	995.42	1468.07	2101.83	1564.23
		56	1390.05	954.07	1430.64	2754.52	1577.56

Feed consumption per 1 kg of weight gain (WG) per box

Tab. No. 6d (page 2)

Treatment	Tr. No.	Box no.	Feed consumption per 1 kg of weight gain				
			1-10 days	11-21 days	22-28 days	29-34 days	1-34 days
			g/kg WG	g/kg WG	g/kg WG	g/kg WG	g/kg WG
T4	4	6	1280.44	959.70	1459.72	2035.70	1527.62
		8	1332.33	937.05	1548.97	2191.19	1561.35
		10	1304.89	969.76	1371.73	2562.53	1555.19
		18	1233.76	934.82	1609.18	2021.75	1553.24
		22	1260.46	924.35	1511.81	2265.76	1543.27
		27	1282.64	922.90	1451.64	2313.86	1546.50
		32	1169.84	994.13	1538.45	2226.25	1612.91
		43	1193.11	949.59	1628.17	2187.16	1601.05
		50	1337.20	925.38	1605.95	2176.20	1572.88
		58	1199.89	923.99	1519.39	2126.74	1537.66
T5	5	5	1256.30	962.67	1583.99	2238.08	1597.72
		11	1161.81	955.74	1685.74	2094.34	1595.44
		16	1255.65	983.06	1590.32	1996.91	1567.84
		23	1380.77	948.20	1592.04	2156.19	1569.34
		29	1368.39	939.73	1527.64	2216.87	1557.67
		33	1237.99	938.92	1737.28	1936.92	1581.75
		37	1222.33	988.55	1624.55	2317.02	1631.62
		44	1354.53	979.83	1545.27	2234.01	1594.05
		49	1227.56	978.49	1562.41	1906.24	1540.50
		55	1374.46	965.27	1400.02	2269.96	1541.55
T6	6	2	1236.93	924.59	1560.43	2218.27	1563.68
		9	1197.98	956.66	1512.39	2159.71	1562.71
		17	1259.96	1000.10	1551.22	1972.60	1567.77
		24	1301.35	951.09	1640.00	2061.01	1578.89
		28	1300.91	955.85	1734.54	1975.80	1581.76
		35	1305.25	987.92	1585.86	2250.38	1606.95
		41	1260.80	984.59	1654.74	2000.27	1587.32
		45	1260.16	905.68	1572.91	1955.21	1510.73
		51	1236.71	981.72	1555.23	2123.53	1594.75
		57	1288.83	962.71	1358.17	2641.95	1568.63

Feed consumption per box

Tab. No. 6e (page 1)

Treatment	Tr. No.	Box No.	Feed consumption				
			Starter (1-10 days)	Grower (11-21 days)	Grower (22-28 days)	Finisher (29-34 days)	Total
			kg	kg	kg	kg	kg
T1	1	4	41.30	137.30	138.80	154.90	472.30
		12	45.80	141.10	145.40	147.10	479.40
		15	44.80	134.90	152.70	146.20	478.60
		19	44.80	137.80	152.00	149.80	484.40
		26	44.50	136.30	157.60	154.30	492.70
		31	44.30	140.80	141.00	146.70	472.80
		39	44.70	138.90	146.20	140.20	470.00
		46	43.70	144.10	147.80	149.00	484.60
		52	42.90	135.00	144.50	145.00	467.40
		60	44.80	138.50	139.00	150.20	472.50
T2	2	1	45.00	146.70	158.10	154.90	504.70
		14	46.20	155.70	158.00	157.00	516.90
		21	45.90	154.60	158.30	152.50	511.30
		25	44.90	156.70	157.10	162.00	520.70
		34	45.70	147.00	154.70	156.90	504.30
		38	47.90	144.90	155.40	153.00	501.20
		40	44.30	144.20	149.70	156.60	494.80
		47	44.40	150.40	157.60	160.20	512.60
		54	44.90	150.60	157.00	156.20	508.70
		59	43.30	149.80	156.20	136.90	486.20
T3	3	3	41.40	149.50	152.60	169.10	512.60
		7	45.70	151.50	143.40	168.00	508.60
		13	46.10	148.00	156.50	157.20	507.80
		20	46.60	152.70	154.30	156.80	510.40
		30	45.80	149.60	152.90	148.10	496.40
		36	46.70	150.00	155.70	162.20	514.60
		42	44.50	152.10	155.60	153.40	505.60
		48	43.60	149.70	155.00	160.60	508.90
		53	45.70	151.20	154.50	162.60	514.00
		56	46.40	149.20	148.30	133.90	477.80

**Feed consumption per box**

**Tab. No. 6e (page 2)**

Treatment	Tr. No.	Box No.	Feed consumption				
			Starter (1-10 days)	Grower (11-21 days)	Grower (22-28 days)	Finisher (29-34 days)	Total
			kg	kg	kg	kg	kg
T4	4	6	43.10	144.40	149.30	160.80	497.60
		8	45.10	146.60	151.10	157.70	500.50
		10	43.90	145.80	143.10	137.90	470.70
		18	46.10	142.50	152.10	146.90	487.60
		22	43.60	140.80	152.90	140.50	477.80
		27	45.70	146.20	150.40	161.60	503.90
		32	43.60	146.70	156.90	165.70	512.90
		43	41.20	138.10	152.40	156.10	487.80
		50	44.10	144.70	154.30	161.30	504.40
		58	44.90	141.80	156.50	152.30	495.50
T5	5	5	44.30	148.50	152.00	160.90	505.70
		11	43.80	147.30	153.20	157.00	501.30
		16	44.60	149.80	153.00	155.20	502.60
		23	45.80	151.90	162.50	156.00	516.20
		29	45.90	149.60	156.80	157.40	509.70
		33	44.90	143.50	157.00	165.20	510.60
		37	43.10	150.20	147.60	154.80	495.70
		44	44.70	148.20	152.90	152.50	498.30
		49	43.80	151.40	158.10	164.60	517.90
		55	45.00	147.80	159.00	156.40	508.20
T6	6	2	46.10	148.70	156.30	162.00	513.10
		9	45.30	145.50	150.80	154.70	496.30
		17	42.70	146.90	152.50	159.80	501.90
		24	45.60	148.80	156.20	158.10	508.70
		28	44.40	154.30	159.60	163.30	521.60
		35	44.60	151.20	154.90	150.60	501.30
		41	46.80	157.00	159.80	163.20	526.80
		45	44.90	141.90	153.00	153.50	493.30
		51	42.70	140.10	150.50	158.50	491.80
		57	44.80	148.80	157.00	156.20	506.80