



MEZINÁRODNÍ TESTOVÁNÍ DRŮBEŽE ÚSTRAŠICE

státní podnik

390 02 Tábor 2

Česká republika

BROILER FEEDING TEST No. 11/2021

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8 September – 12 October 2021

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Dezember 2021

Prosinec 2021

Stocking density: 16,8 broilers per square meter

The conduct of the trial was conformed to the national welfare legislation.

Veterinary precautions

The chicken house was disinfected with xxxxxxxxx before the chick placement.

On days 1 and 12 the chicken were vaccinated with xxxxxxxxx.

Feed

Feed was produced by International Poultry Testing Station Ústrašice

Day 1 - 14 Starter (BR1)

Day 15- 28 Grower (BR2)

Day 29 - 35 Finisher (BR3)

Diet formulas:

Components (%)	Starter BR1	Grower BR2	Finisher BR3
Soybean extr. groats	36.99	32.71	26.64
Wheat	30.00	35.00	42.39
Maize	23.77	22.19	21.00
Soybean oil	5.00	6.00	6.00
Calcium carbonate	1.49	1.35	1.12
MCP - monocalciumphosphate	1.14	1.10	1.20
Salt	0.29	0.30	0.29
Sodium sulfate	0.12	0.15	0.15
L-lysine	0.40	0.39	0.39
L-threonin	0.20	0.20	0.20
DL-methionin	0.10	0.10	0.10
AMV BR1 Plus	0.50	-	-
AMV BR2 Plus	-	0.50	-
AMV BR3 Plus	-	-	0.50
Nutrient content			
Crude protein (g/kg)	230.00	215.00	195.00
Fat (g/kg)	67.28	76.70	76.29
Lysine (g/kg)	14.01	12.97	11.64
Methionine (g/kg)	6.25	5.68	5.17
Ca (g/kg)	9.60	8.82	7.90
P (g/kg)	6.74	6.49	6.53
Vitamin A (IU/kg)	13500	10000	10000
Vitamin D3 (IU/kg)	5000	5000	5000
ME (MJ/kg)	12.22	12.51	12.61

Feed analyses for nutrient contents were performed at the laboratory of xxxxxxxxx:

	Starter BR1			
	T1	T2	T3	T4
Crude protein (g/kg)	213.00	206.00	222.00	226.00
Dry matter (%)	89.40	90.31	89.60	90.50
Fat (g/kg)	70.70	80.40	68.50	70.70
Crude fibre (g/kg)	24.80	24.20	23.10	22.70
Starch (g/kg)	394.00	373.00	394.00	378.00
P (g/kg)	6.45	6.65	6.48	6.53
Ca (g/kg)	9.16	11.00	9.02	9.74
ME (MJ/kg)	12.90	12.70	12.90	12.80

	Grower BR2			
	T1	T2	T3	T4
Crude protein (g/kg)	212.00	209.00	210.00	207.00
Dry matter (%)	90.40	90.60	90.60	90.30
Fat (g/kg)	80.00	81.00	81.00	79.50
Crude fibre (g/kg)	24.10	26.00	36.70	22.90
Starch (g/kg)	389.00	394.00	364.00	408.00
P (g/kg)	6.45	6.25	6.35	6.21
Ca (g/kg)	9.30	8.71	8.82	8.49
ME (MJ/kg)	13.00	13.10	12.60	13.20

	Finisher BR3			
	T1	T2	T3	T4
Crude protein (g/kg)	183.00	182.00	186.00	188.00
Dry matter (%)	90.00	90.80	90.90	90.90
Fat (g/kg)	78.10	77.70	78.40	76.40
Crude fibre (g/kg)	22.20	20.90	22.40	23.10
Starch (g/kg)	394.00	389.00	416.00	389.00
P (g/kg)	6.32	6.42	6.25	6.34
Ca (g/kg)	8.63	7.38	8.27	8.12
ME (MJ/kg)	12.60	12.50	13.10	12.60

Parameters recorded and methods applied

Live weight

Live weight was measured on day 1 (all the birds in each pen were weighed altogether). On day 14 and 28 of age birds were weighed individually, without fasting. On day 35 birds were weighed individually, after 12 hours of fasting.

Feed consumption

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

Weight gain

Weight gain per phase and average daily weight gains were calculated for the periods 1 – 14 days, 15 – 28 days, 29 – 35 days and for the overall experiment (1 – 35 days).

Feed conversion ratio

Feed conversion ratio was calculated as feed consumption per 1 kg of live weight and per 1 kg of weight gain for the periods 1 – 14 days, 15 – 28 days, 29 – 35 days and for the overall experiment (1 – 35 days). The calculation was included weight of deaths.

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, weight and reason of mortality on the day of death. Mortality was recorded for the periods 1 – 14 days, 15 – 28 days, 29 – 35 days and 1 – 35 days.

Carcass analysis

The carcass analysis was done in 5 birds per each pen on day 35. Breast muscles was weighed without skin and thigh muscles with skin.

Statistical analyses

Performance results of Live weight (on days 1, 14, 28 and 35), Weight gain and Feed conversion ratio were statistically evaluated using the ANOVA single-factor model (Duncan test, Scheffe test) or nonparametric method (Kruskal-Wallis test).

Results

Tab. No.	1 Hatchability
	2 Performance results:
	2a Body weight
	2b Weight gain
	2c Feed conversion per 1 kg of live weight
	2d Feed conversion per 1 kg of weight gain
	2e Feed consumption
	3 Carcass analysis
	4 Mortality
	5 Statistical analysis of body weight at the age of 35 days (average body weight, standard deviation, coefficient of variation)
	6 -9 Statistical analyses of performance results
	10 Performance results per pen:
	10a Body weight
	10b Weight gain
	10c Feed conversion per 1 kg of live weight
	10d Feed conversion per 1 kg of weight gain
	10e 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	73.56	69.00	93.81	150	69.00	46.93
T2	2				150		47.20
T3	3				150		47.07
T4	4				150		47.07

Body weight per phases**Tab. No. 2a**

Treatment	Tr. No.	Day 1		Day 14		Day 28		Day 35	
		Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight
			g		g		g		g
T1	1	150	46.93	150	522.43	147	1733.56	147	2345.31
T2	2	150	47.20	149	532.99	149	1769.13	148	2416.14
T3	3	150	47.07	150	523.67	146	1796.37	146	2436.25
T4	4	150	47.07	150	552.03	150	1792.16	149	2422.91

Weight gain per phases**Tab. No. 2b**

Treatment	Tr. No.	Day 1 - 14		Day 15 - 28		Day 29 - 35		Day 1 - 35	
		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
T1	1	475.49	33.96	1211.13	86.51	611.76	87.39	2298.38	65.67
T2	2	485.79	34.70	1236.15	88.30	647.01	92.43	2368.94	67.68
T3	3	476.61	34.04	1272.70	90.91	639.88	91.41	2389.18	68.26
T4	4	504.97	36.07	1240.13	88.58	630.75	90.11	2375.85	67.88

Feed conversion per 1 kg of live weight**Tab. No. 2c**

Treatment	Tr. No.	Feed conversion ratio		
		Day 14	Day 28	Day 35
		g/kg live weight	g/kg live weight	g/kg live weight
T1	1	1127.43	1433.55	1681.00
T2	2	1103.19	1444.92	1683.61
T3	3	1119.65	1364.08	1606.31
T4	4	1074.21	1385.85	1631.13

Feed conversion per 1 kg of weight gain**Tab. No. 2d**

Treatment	Tr. No.	Feed conversion ratio			
		Day 1-14	Day 15-28	Day 29-35	Day 1-35
		g/kg weight gain	g/kg weight gain	g/kg weight gain	g/kg weight gain
T1	1	1238.71	1568.03	2387.47	1715.84
T2	2	1211.04	1592.41	2344.83	1717.50
T3	3	1230.22	1466.73	2294.96	1638.53
T4	4	1174.33	1524.58	2334.95	1663.53

Feed consumption per phases**Tab. No. 2e**

Treatment	Tr. No.	Feed consumption			
		Starter (d 1-14)	Grower (d 15-28)	Finisher (d 29-35)	Total (d 1-35)
		kg	kg	kg	kg
T1	1	88.35	279.70	214.70	582.75
T2	2	87.70	293.30	223.20	604.20
T3	3	87.95	274.35	214.40	576.70
T4	4	88.95	283.60	218.75	591.30

Results of carcass analysis

Tab. No. 3

Treatment	Tr. No.	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	2385	1693	138	24	0.99	564	23.66	33.33	516	21.65	30.49	1081	45.31	63.81	71.00	76.80
T2	2	2479	1730	146	24	0.98	580	23.40	33.53	523	21.08	30.21	1103	44.47	63.74	69.78	75.68
T3	3	2454	1748	146	24	0.97	593	24.16	33.92	530	21.59	30.32	1123	45.75	64.24	71.22	77.18
T4	4	2436	1715	142	24	0.99	567	23.29	33.07	526	21.61	30.69	1094	44.90	63.76	70.42	76.23

Mortality

Tab. No. 4

Treat.	Tr. No.	Mortality in the period									Mortality according causes													
		Day 1 - 14		Day 15 - 28		Day 29 - 35		Day 1 - 35			1	2	3	4	5	6	7	8	9	10	11	12	13	14
		birds	g	birds	g	birds	g	birds	g	%														
T1	1	0	0	3	1908	0	0	3	1908	2.00									2	1				
T2	2	1	82	0	0	1	1200	2	1282	1.33										1		1		
T3	3	0	0	4	3330	0	0	4	3330	2.67									3	1				
T4	4	0	0	0	0	1	1495	1	1495	0.67										1				

Causes:

1 - Viral diseases

2 - Bacterial diseases

3 - Fungal diseases

4 - Parasitary diseases

5 - Tumors

6 - Injuries

7 - Digestive tract diseases

8 - Respiratory tract diseases

9 - Reproduction tract diseases

10 - Locomotion apparatus diseases

11 - Sudden death syndrome

12 - Cannibalism

13 - Diverticulus inflammation

14 - Culling and other causes

Statistical analysis - Body weight at 35 days of age

Tab. No. 5

Treatment	Tr. No.	Cocks			
		No. of birds	Average body weight	Standard deviation	Coefficient of variation
			g/birds	g/birds	%
T1	1	147	2345.31	215.75	9.20
T2	2	148	2416.14	215.25	8.91
T3	3	146	2436.25	177.33	7.28
T4	4	149	2422.91	221.68	9.15

Statistical analyses of performance results

Performance results were statistically evaluated using the ANOVA single-factor model (Duncan test, 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

Body weight - day 1

Tab. No. 6a

Treatment	Treat. No.	No. of box	Average (g)	Standard deviation	Duncan test			
					T1	T2	T3	T4
T1	1	5	46.93	0.37		o	o	o
T2	2	5	47.20	0.30	0.283441		o	o
T3	3	5	47.07	0.37	0.555091	0.576421		o
T4	4	5	47.07	0.37	0.576421	0.555091	1.000000	

Body weight - day 14

Tab. No. 6b

Treatment	Treat. No.	No. of birds	Average (g)	Standard deviation	Scheffe test			
					T1	T2	T3	T4
T1	1	150	522.43	61.18		o	o	* * *
T2	2	149	532.99	57.85	0.514057		o	o
T3	3	150	523.67	56.73	0.998484	0.618526		* * *
T4	4	150	552.03	64.98	0.000474	0.059534	0.000943	

Body weight - day 28**Tab. No. 6c**

Treatment	Treat. No.	No. of birds	Average (g)	Standard deviation	Scheffe test			
					T1	T2	T3	T4
T1	1	147	1733.56	191.76		o	*	*
T2	2	149	1769.13	164.88	0.350495		o	o
T3	3	146	1796.37	140.39	0.018050	0.589666		o
T4	4	150	1792.16	173.97	0.030850	0.707880	0.997408	

Body weight - day 35**Tab. No. 6d**

Treatment	Treat. No.	No. of birds	Average (g)	Standard deviation	Scheffe test			
					T1	T2	T3	T4
T1	1	147	2345.31	215.75		*	**	*
T2	2	148	2416.14	215.25	0.037262		o	o
T3	3	146	2436.25	177.33	0.003190	0.876846		o
T4	4	149	2422.91	221.68	0.017066	0.994289	0.959617	

Average weight gain (day 1-14)

Tab. No. 7a

Treatment	Treat. No.	No. of box	Average (g)	Standard deviation	Duncan test			
					T1	T2	T3	T4
T1	1	5	33.96	1.30		o	o	*
T2	2	5	34.70	1.41	0.457134		o	o
T3	3	5	34.04	1.78	0.931840	0.483150		o
T4	4	5	36.07	1.23	0.048573	0.153606	0.050629	

Average weight gain (day 15-28)

Tab. No. 7b

Treatment	Treat. No.	No. of box	Average (g)	Standard deviation	Duncan test			
					T1	T2	T3	T4
T1	1	5	86.50	2.59		o	o	o
T2	2	5	88.32	2.51	0.379691		o	o
T3	3	5	90.89	2.35	0.061109	0.245366		o
T4	4	5	88.58	4.71	0.343128	0.900083	0.269483	

Average weight gain (day 29-35)

Tab. No. 7c

Treatment	Treat. No.	No. of box	Average (g)	Standard deviation	Kruskal-Wallis test			
					T1	T2	T3	T4
T1	1	5	87.31	12.33		o	o	o
T2	2	5	92.40	8.28	1.000000		o	o
T3	3	5	91.42	2.92	1.000000	1.000000		o
T4	4	5	90.19	10.05	1.000000	1.000000	1.000000	

Average weight gain (day 29-35)**Tab. No. 7d**

Treatment	Treat. No.	No. of box	Average (g)	Standard deviation	Duncan test			
					T1	T2	T3	T4
T1	1	5	65.65	1.86		o	o	o
T2	2	5	67.69	1.83	0.118049		o	o
T3	3	5	68.26	1.17	0.068381	0.669930		o
T4	4	5	67.90	2.67	0.102510	0.868305	0.775167	

FCR - day 14

Tab. No. 8a

Treatment	Treat. No.	No. of box	Average (g/kg live weight) (g)	Stand. deviat.	Duncan test			
					T1	T2	T3	T4
T1	1	5	1128.07	76.43		o	o	o
T2	2	5	1105.34	87.59	0.625554		o	o
T3	3	5	1121.85	64.51	0.887578	0.707291		o
T4	4	5	1074.47	31.33	0.270235	0.485364	0.314150	

FCR - day 28

Tab. No. 8b

Treatment	Treat. No.	No. of box	Average (g/kg live weight) (g)	Stand. deviat.	Duncan test			
					T1	T2	T3	T4
T1	1	5	1433.41	16.59		o	*	o
T2	2	5	1445.33	66.26	0.668731		o	o
T3	3	5	1364.27	22.50	0.028108	0.013893		o
T4	4	5	1386.28	48.06	0.104280	0.056290	0.433033	

FCR - day 35

Tab. No. 8c

Treatment	Treat. No.	No. of box	Average (g/kg live weight) (g)	Stand. deviat.	Duncan test			
					T1	T2	T3	T4
T1	1	5	1682.34	67.02		o	*	O
T2	2	5	1684.93	68.27	0.939814		*	o
T3	3	5	1606.53	28.78	0.047867	0.046834		o
T4	4	5	1631.55	37.40	0.151808	0.152385	0.469331	

FCR weight gain - day 1-14

Tab. No. 9a

Treatment	Treat. No.	No. of box	Average (g/kg weight gain) (g)	Stand. deviat.	Duncan test			
					T1	T2	T3	T4
T1	1	5	1239.61	85.13		o	o	o
T2	2	5	1213.83	100.44	0.628365		o	o
T3	3	5	1233.11	76.26	0.897087	0.701540		o
T4	4	5	1174.72	35.38	0.244065	0.440340	0.279169	

FCR weight gain - day 15-28

Tab. No. 9b

Treatment	Treat. No.	No. of box	Average (g/kg weight gain) (g)	Stand. deviat.	Duncan test			
					T1	T2	T3	T4
T1	1	5	1567.48	42.54		o	*	o
T2	2	5	1592.29	55.40	0.465479		**	o
T3	3	5	1466.75	35.56	0.010231	0.002687		o
T4	4	5	1525.61	69.67	0.224915	0.073618	0.095088	

FCR weight gain - day 29-35

Tab. No. 9c

Treatment	Treat. No.	No. of box	Average (g/kg weight gain) (g)	Stand. deviat.	Kruskal-Wallis test			
					T1	T2	T3	T4
T1	1	5	2430.98	387.24		o	o	o
T2	2	5	2368.41	284.43	1.000000		o	o
T3	3	5	2296.33	68.35	1.000000	1.000000		o
T4	4	5	2349.50	187.98	1.000000	1.000000	1.000000	

FCR weight gain - day 1-35

Tab. No. 9d

Treatment	Treat. No.	No. of box	Average (g/kg weight gain) (g)	Stand. deviat.	Duncan test			
					T1	T2	T3	T4
T1	1	5	1717.31	69.48		o	*	o
T2	2	5	1718.90	70.63	0.964157		*	o
T3	3	5	1638.79	29.57	0.047558	0.049236		o
T4	4	5	1663.99	38.50	0.146180	0.154504	0.480575	

Performance results per replicate

Body weight per phases

Tab. No. 10a

Treatment	Tr. No.	Pen	Day 1		Day 14		Day 28		Day 35	
			Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight
				g		g		g		g
T1	1	1	30	46.67	30	525.80	30	1695.07	30	2408.30
		5	30	47.33	30	539.37	30	1790.07	30	2290.60
		9	30	46.67	30	509.17	28	1716.36	28	2261.50
		13	30	47.33	30	498.80	29	1743.55	29	2395.90
		17	30	46.67	30	539.00	30	1721.93	30	2366.37
T2	2	2	30	46.67	30	557.93	30	1753.37	30	2455.77
		6	30	47.33	29	534.24	29	1825.69	28	2430.89
		10	30	47.33	30	541.97	30	1784.27	30	2490.17
		14	30	47.33	30	505.10	30	1729.27	30	2374.67
		18	30	47.33	30	525.73	30	1754.97	30	2330.20
T3	3	3	30	47.33	30	533.03	30	1755.30	30	2374.27
		7	30	47.33	30	519.30	30	1811.47	30	2482.97
		11	30	47.33	30	533.63	30	1826.97	30	2461.13
		15	30	46.67	30	483.20	27	1782.37	27	2429.59
		19	30	46.67	30	549.20	29	1804.62	29	2432.48
T4	4	4	30	47.33	30	562.53	30	1736.03	30	2275.37
		8	30	47.33	30	572.67	30	1796.53	29	2511.90
		12	30	46.67	30	532.13	30	1752.70	30	2402.50
		16	30	46.67	30	535.50	30	1767.37	30	2437.43
		20	30	47.33	30	557.33	30	1908.17	30	2490.33

Weight gain per phases (WG) and daily weight gain

Tab. No. 10b

Treatment	Tr. No.	Box	Day 1 - 14		Day 15 - 28		Day 29 - 35		Day 1 - 35	
			WG	DWG	WG	DWG	WG	DWG	WG	DWG
			g	g	g	g	g	g	g	g
T1	1	1	479.13	34.22	1169.27	83.52	713.23	101.89	2361.63	67.48
		5	492.03	35.15	1250.70	89.34	500.53	71.50	2243.27	64.09
		9	462.50	33.04	1207.19	86.23	545.14	77.88	2214.83	63.28
		13	451.47	32.25	1244.75	88.91	652.34	93.19	2348.56	67.10
		17	492.33	35.17	1182.93	84.50	644.43	92.06	2319.70	66.28
T2	2	2	511.27	36.52	1195.43	85.39	702.40	100.34	2409.10	68.83
		6	486.91	34.78	1291.45	92.25	605.20	86.46	2383.56	68.10
		10	494.63	35.33	1242.30	88.74	705.90	100.84	2442.83	69.80
		14	457.77	32.70	1224.17	87.44	645.40	92.20	2327.33	66.50
		18	478.40	34.17	1229.23	87.80	575.23	82.18	2282.87	65.22
T3	3	3	485.70	34.69	1222.27	87.30	618.97	88.42	2326.93	66.48
		7	471.97	33.71	1292.17	92.30	671.50	95.93	2435.63	69.59
		11	486.30	34.74	1293.33	92.38	634.17	90.60	2413.80	68.97
		15	436.53	31.18	1299.17	92.80	647.22	92.46	2382.93	68.08
		19	502.53	35.90	1255.42	89.67	627.86	89.69	2385.82	68.17
T4	4	4	515.20	36.80	1173.50	83.82	539.33	77.05	2228.03	63.66
		8	525.33	37.52	1223.87	87.42	715.36	102.19	2464.56	70.42
		12	485.47	34.68	1220.57	87.18	649.80	92.83	2355.83	67.31
		16	488.83	34.92	1231.87	87.99	670.07	95.72	2390.77	68.31
		20	510.00	36.43	1350.83	96.49	582.17	83.17	2443.00	69.80

Feed conversion ratio (Feed consum. per 1 kg of live weight)

Tab. No. 10c

Treatment	Tr. No.	Box	Feed conversion ratio		
			Day 14	Day 28	Day 35
			g/kg live weight	g/kg live weight	g/kg live weight
T1	1	1	1071.38	1433.57	1631.86
		5	1035.16	1438.49	1785.56
		9	1129.30	1424.30	1707.47
		13	1186.18	1457.52	1666.88
		17	1218.31	1413.14	1619.92
T2	2	2	1057.47	1385.91	1600.31
		6	1097.91	1425.69	1759.27
		10	1039.42	1425.42	1643.80
		14	1257.18	1559.43	1749.02
		18	1074.69	1430.23	1672.25
T3	3	3	1116.25	1346.40	1582.24
		7	1088.00	1334.09	1570.70
		11	1083.77	1379.34	1638.81
		15	1234.82	1384.20	1622.64
		19	1086.43	1377.33	1618.26
T4	4	4	1063.64	1362.30	1649.55
		8	1036.09	1352.61	1573.85
		12	1083.69	1386.43	1626.08
		16	1067.54	1469.23	1675.26
		20	1121.41	1360.82	1632.98

Feed conversion per 1 kg of weight gain

Tab. No. 10d

Treatment	Tr. No.	Box	Feed conversion ratio			
			Day 1-14	Day 15-28	Day 29-35	Day 1-35
			g/kg weight gain	g/kg weight gain	g/kg weight gain	g/kg weight gain
T1	1	1	1175.73	1596.44	2103.10	1664.10
		5	1134.75	1612.43	3026.77	1823.23
		9	1243.24	1558.45	2613.99	1745.58
		13	1310.54	1568.16	2238.61	1701.10
		17	1333.78	1501.92	2172.45	1652.51
T2	2	2	1154.00	1539.19	2135.54	1631.31
		6	1208.05	1562.00	2843.14	1796.05
		10	1138.89	1593.82	2195.78	1675.65
		14	1387.17	1684.14	2257.00	1784.59
		18	1181.02	1582.29	2410.62	1706.92
T3	3	3	1225.04	1446.77	2251.06	1614.43
		7	1197.12	1432.99	2208.98	1601.23
		11	1189.25	1501.29	2386.33	1670.95
		15	1366.83	1443.63	2317.60	1656.54
		19	1187.32	1509.07	2317.66	1650.78
T4	4	4	1161.36	1505.47	2574.17	1684.59
		8	1129.44	1500.71	2157.11	1604.50
		12	1187.86	1518.42	2272.49	1658.30
		16	1169.45	1643.85	2218.68	1707.96
		20	1225.49	1459.59	2525.05	1664.62

Feed consumption per phases

Tab. No. 10e

Treatment	Tr. No.	Box	Feed consumption			
			Starter (D 1-14)	Grower (D 15-28)	Finisher (D 29-35)	Total (D 1-35)
			kg	kg	kg	kg
T1	1	1	16.90	56.00	45.00	117.90
		5	16.75	60.50	45.45	122.70
		9	17.25	52.35	39.90	109.50
		13	17.75	57.55	42.35	117.65
		17	19.70	53.30	42.00	115.00
T2	2	2	17.70	55.20	45.00	117.90
		6	17.10	58.50	46.40	122.00
		10	16.90	59.40	46.50	122.80
		14	19.05	61.85	43.70	124.60
		18	16.95	58.35	41.60	116.90
T3	3	3	17.85	53.05	41.80	112.70
		7	16.95	55.55	44.50	117.00
		11	17.35	58.25	45.40	121.00
		15	17.90	52.60	40.50	111.00
		19	17.90	54.90	42.20	115.00
T4	4	4	17.95	53.00	41.65	112.60
		8	17.80	55.10	44.10	117.00
		12	17.30	55.60	44.30	117.20
		16	17.15	60.75	44.60	122.50
		20	18.75	59.15	44.10	122.00